dgl. vorgesehen ist.

7. Vorrichtung nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, daß Fächer (16) zur Aufnahme des Staubsaugerschlauches (17), einer weiteren kabel- oder akkumulatorabhängigen Lampe (12) sowie andere Meß- und Reinigungsgeräte vorgesehen sind.

8. Vorrichtung nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, daß das Vorrichtungsgehäuse als Modulelement (4´´) mit dem Fahrgestell (2´´) lösbar verbindbar und/oder in einem Fahrgestell (2´´) aus mehreren Einzelgehäusen zusammenfaßbar ist.

9. Vorrichtung nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, daß die Räder (3) als Treppensteigräder am Fahrgestell (2) ausgebildet sind.

10. Vorrichtung nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, daß das das Gehäuse (4) tragende Gestell (2) die Außenkontur dieses Gehäuses (4) als Schutzelement wenigstens geringfügig überragt.

11. Vorrichtung nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, daß wenigstens bereichsweise Abdeck- oder Verschlußklappen (13) ausschwenkbar an der Vorrichtung (1) angeordnet und mit einer reibungserhöhenden Beschichtung zur Ablage von Werkzeugen od. dgl. versehen sind.

12. Vorrichtung nach einem der vorangehenden Ansprüche, dadurch gekennzeichnet, daß der herausnehmbare Meß- und Wartungskoffer (8) mit elektrischen Versorgungseinrichtungen der Vorrichtung (1) verbindbar und/oder mit einem Drucker (9) zum Ausdrucken von Meßwerten od. dgl. versehen ist.

13. Vorrichtung nach Anspruch 2 oder einem der folgenden, dadurch gekennzeichnet, daß die entnehmbaren Gehäuse (5',8') als Arbeitskoffer ausgebildet sind.

"Vorrichtung zur Durchführung von Service-Leistungen"

Die Erfindung richtet sich auf eine Vorrichtung der im Oberbegriff des Hauptanspruches beschriebenen Gattung.

Werkzeugwagen oder sogenannte Service-Wagen sind in unterschiedlichen Ausführungen bekannt, dabei ist derartigen Geräten gemeinsam, daß sie im Regelfalle mit Laufrollen versehen sind, Schubfächer od. dgl. zur Aufnahme von Werkzeugen aufweisen und auf ihrer Oberfläche eine Ablage- bzw. Arbeitsfläche besitzen.

Die gattungsgemäße Vorrichtung soll insbesondere zur Durchführung von Meß- und Service-Leistungen an Heizungen in privaten, öffentlichen oder gewerblichen Gebäuden dienen. Regelmäßig sind dabei Heizungen in kleinen Räumen untergebracht, d. h. das Einbringen von notwendigen Meßgeräten und Werkzeugen ist häufig schwierig. Kellertreppen müssen ebenso überwunden werden wie häufig enge feuerdämmende Türen u. dgl. mehr.

Aufgabe der Erfindung ist die Schaffung einer Lösung, mit der der Benutzer sehr mobil wird und mit der er die Werkzeuge und Meßeinrichtungen möglichst einfach an den Ort bringen kann, an dem sie benötigt werden, so daß er möglichst unabhängig von sonstigen örtlichen Gegebenheiten wird.

Mit einer Vorrichtung der eingangs bezeichneten Art wird diese Aufgabe gemäß der Erfindung dadurch gelöst, daß in dem im Fahrgestell untergebrachten Gehäuse neben den Schüben für Werkzeuge eine elektrische Versorgungseinrichtung für die Elektrifizierung der Vorrichtung und für elektrische Arbeitsgeräte und Werkzeuge integriert ist.

Mit der Erfindung wird es möglich, eine Vielzahl von Funktionen gleichzeitig auszuüben, der Benutzer hat praktisch eine komplette Werkstatt in rollbarer Form zur Verfügung, die von ihm leicht zum Ort der Benutzung gebracht werden kann.

Häufig ist es nicht unbedingt notwendig, in der Einrichtung selbst eine elektrische Versorgung unterzubringen. Hierzu sieht die Erfindung in abgewandelter Ausgestaltung vor, daß innerhalb des Fahrgestelles in einem gemeinsamen Gehäuse entnehmbare Einsätze zur Aufnahme der Werkzeuge vorgesehen sind.

Beiden Ausführungsformen kann gemeinsam sein, daß in einem Teilbereich ein Staubsaugerfach zur Aufnahme eines Staubsaugers vorgesehen ist. Der Staubsauger kann dabei integraler Bestandteil der Vorrichtung oder auch als mobiles Gerät dort entnehmbar sein, um am jeweiligen Ort eingesetzt werden zu können.

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Ausgestaltungen der Erfindung ergeben sich aus den weiteren Unteransprüchen.

Zweckmäßig kann unter anderem eine Modulbauweise sein, die es ermöglicht, Einheiten aus mehreren Einzelgeräten zu einer größeren Gesamteinheit zusammenzustellen, das Fahrgestell mit Steuerrollen oder einer Einrichtung zur Anpassung an die Treppensteigfähigkeit auszurüsten u. dgl. mehr.

Werden elektronische Meßgeräte eingesetzt, so kann es sinnvoll sein, auch hier die Vorrichtung entsprechend anzupassen etwa in der Weise, daß der herausnehmbare Meß- und Wartungskoffer mit elektrischen Versorgungseinrichtungen der Vorrichtung verbindbar und/oder mit einem Drucker zum Ausdrucken von Meßwerten od. dgl. versehen ist, wie dies die Erfindung ebenfalls vorsieht.

Die Erfindung ist nachstehend anhand der Zeichnung beispielsweise näher erläutert. Diese zeigt in

Fig. 1 die Ansicht einer Ausführungsform der Erfindung in räumlicher Darstellung,

Fig. 2 die gleiche Darstellung von der in Fig. 1 abgewandten Rückseite aus,

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Fig. 3 eine andere Ausgestaltung der Erfindung in der Darstellung gemäß Fig. 1 sowie in

Fig. 4 die Andeutung der Möglichkeit einer Modulbauweise.

Bezugnehmend zunächst auf Fig. 1 und 2 besteht die allgemein mit 1 bezeichnete Vorrichtung aus einem Rohrgestell 2 mit an einer Seite angebrachten Laufrädern 3. Das Rohrgestell 2 umgibt dabei als äußere Kontur ein Gehäuse 4, das eine Fülle von Funktionen aufweist.

Zunächst sind eine Mehrzahl von Schubfächern 5 vorgesehen, die mit Werkzeugen unterschiedlicher Art gefüllt sein können. Neben den Schubfächern 5 ist ein Staubsaugerfach 6 zur Aufnahme eines Staubsaugers vorgesehen. Auf der Oberseite ist ein Fach 7 angeordnet, in welches ein Meßkoffer 8 mit einem dort integrierten Drucker 9 eingelegt werden kann, was durch den Doppelpfeil 10 angedeutet ist.

Wesentlich für die Ausführungsform nach Fig. 1 und 2 ist eine elektrische Versorgungseinrichtung, die hier zunächst als Kabel 11 im unteren Bereich der Vorrichtung dargestellt ist, dieses Kabel 11 kann selbstaufwickelnd dort untergebracht sein, was nicht näher dargestellt ist. Eine Seite des Wagens kann mit einer Beleuchtung z. B. einer Stablampe 12 ausgerüstet sein.

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Zum Öffnen der Schubfächer 5 und des Staubsaugerfaches 6 wird eine Frontplatte 13 abgesenkt, die gleichzeitig Arbeitsfläche sein kann. Neben der Kabeltrommel 11 kann noch im Fahrgestell 14 eine Mehrzahl von Steckdosen 15 untergebracht sein, was in Fig. 1 ebenfalls angedeutet ist.

Die Fig. 2 deutet lediglich noch die Möglichkeit an, Frontfächer 16 vorzusehen, in die beispielsweise der Staubsaugerschlauch 17 eingelegt werden kann. Weitere Geräte können in die Fächer 16 eingelegt werden, so beispielsweise eine Zusatzlampe 18 oder Meßgeräte 19.

Zum Abstellen der Vorrichtung 1 sind Standfüße 20 vorgesehen, in gleicher Weise kann auch eine Lauf- und Lenkrolle vorgesehen sein, worauf es hier nicht näher ankommt.

Die Fig. 3 zeigt eine andere Einteilung einer Vorrichtung 1'. Bei diesem Ausführungsbeispiel sind neben dem Meßkoffer 8 auch die werkzeugaufnehmenden Fächer in Kofferform gestaltet. Daher sind diese Koffer mit 5' bzw. 8' analog Fig. 1 bezeichnet. Ansonsten ist dort ebenfalls ein Fach 6' für die Aufnahme eines evtl. mobilen Staubsaugers vorgesehen.

Schließlich zeigt die Fig. 4 die Möglichkeit, mehrere Vorrichtungen 1' in einem gemeinsamen Rohrrahmen 2' modular-

tig zusammenzustecken, um größere Einheiten je nach Einsatzgebiet gewinnen zu können. Die Meßgeräte bzw. Werkzeug enthaltenden Koffer sind dort ebenfalls angedeutet. Ihre Einlegbarkeit ist durch Doppelpfeile 10´ angegeben.

Natürlich sind die beschriebenen Ausführungsbeispiele der Erfindung noch in vielfacher Hinsicht abzuändern, ohne den Grundgedanken zu verlassen. So ist die Erfindung insbesondere nicht auf die Art der Elektrifizierung, der Art der Gestaltung der entnehmbaren Kofferfächer beschränkt u. dgl. mehr.

- Leerseite -

- 15 -

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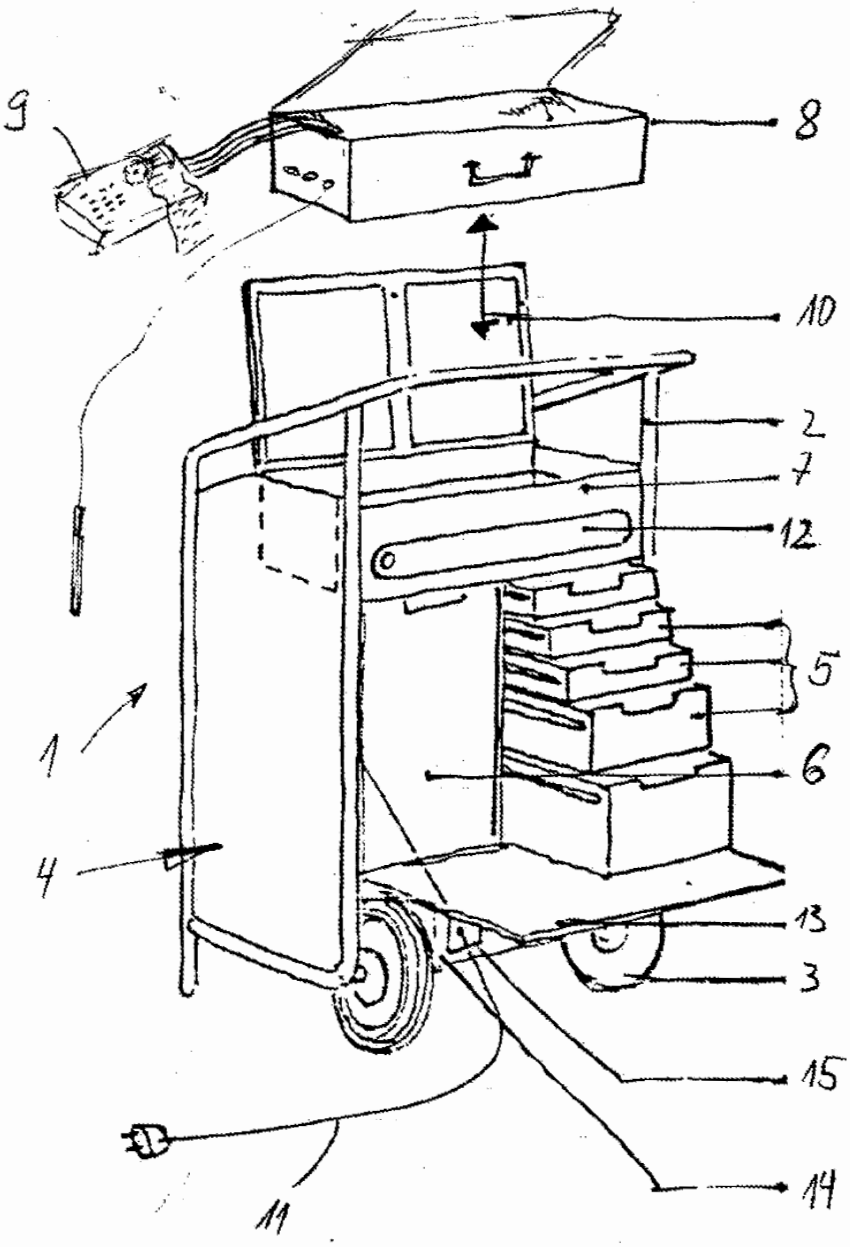


Fig. 1

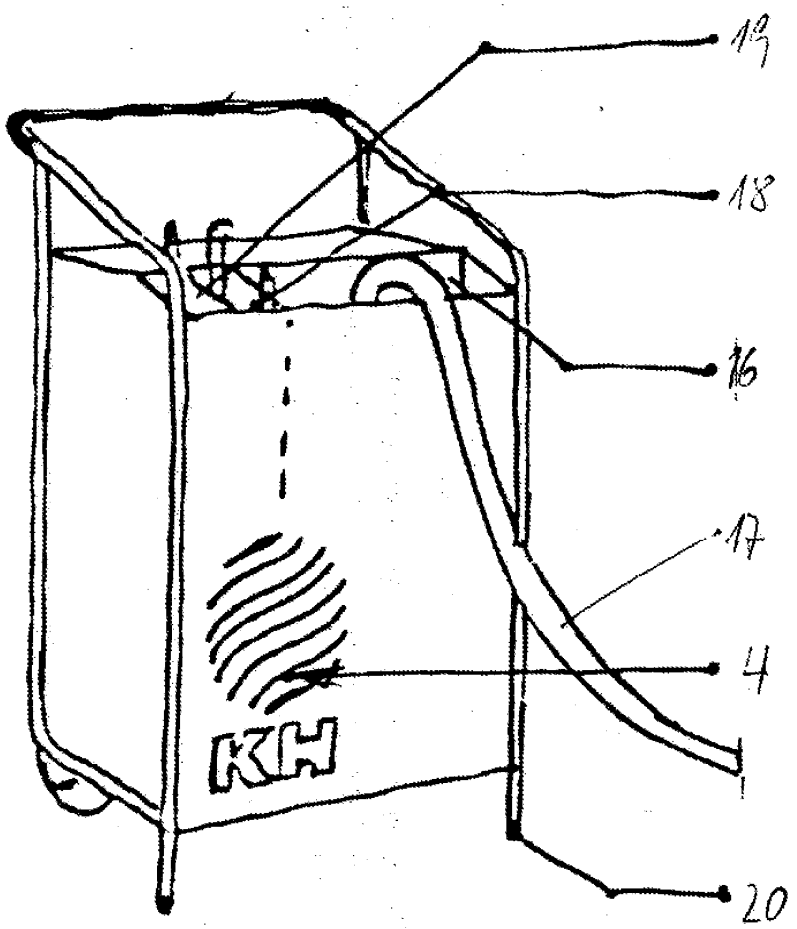


Fig. 2

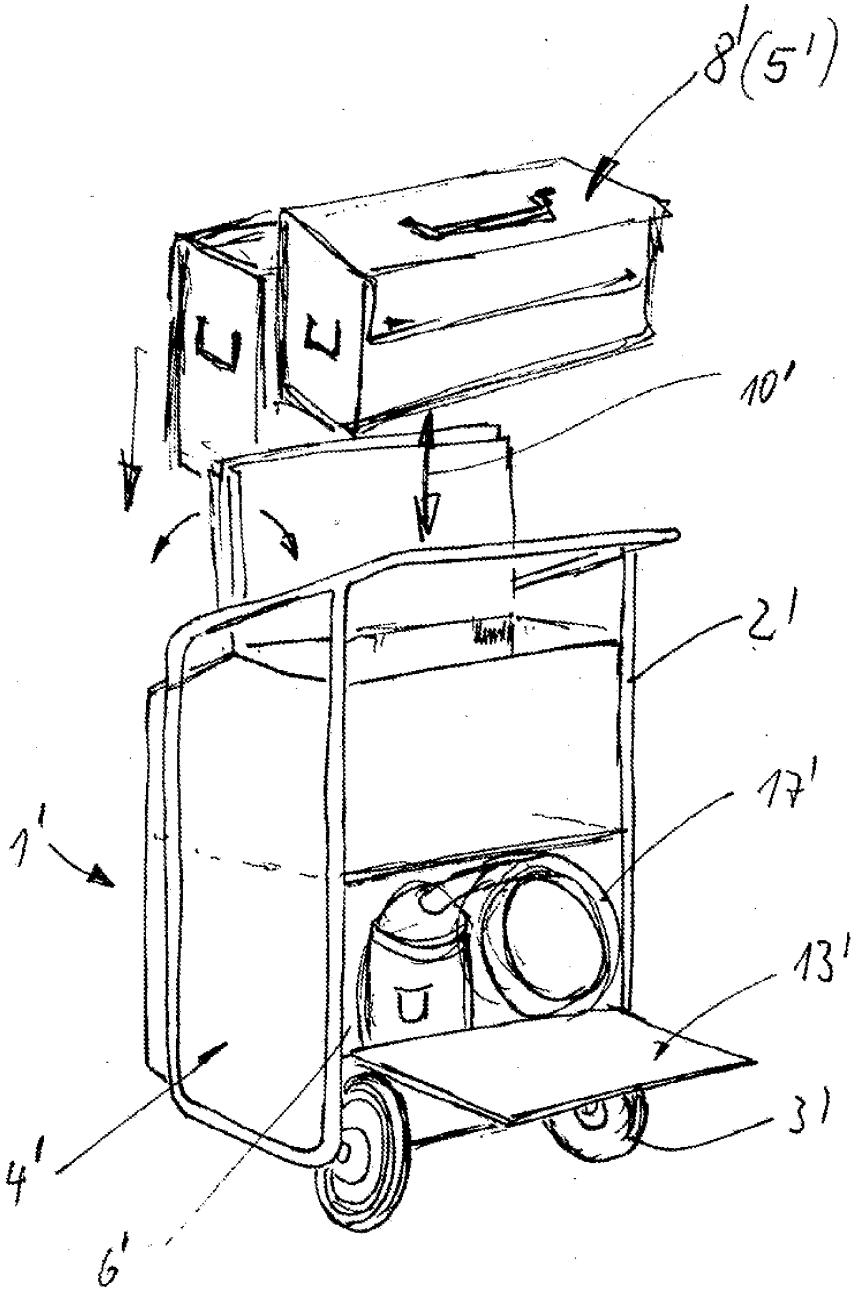


Fig. 3

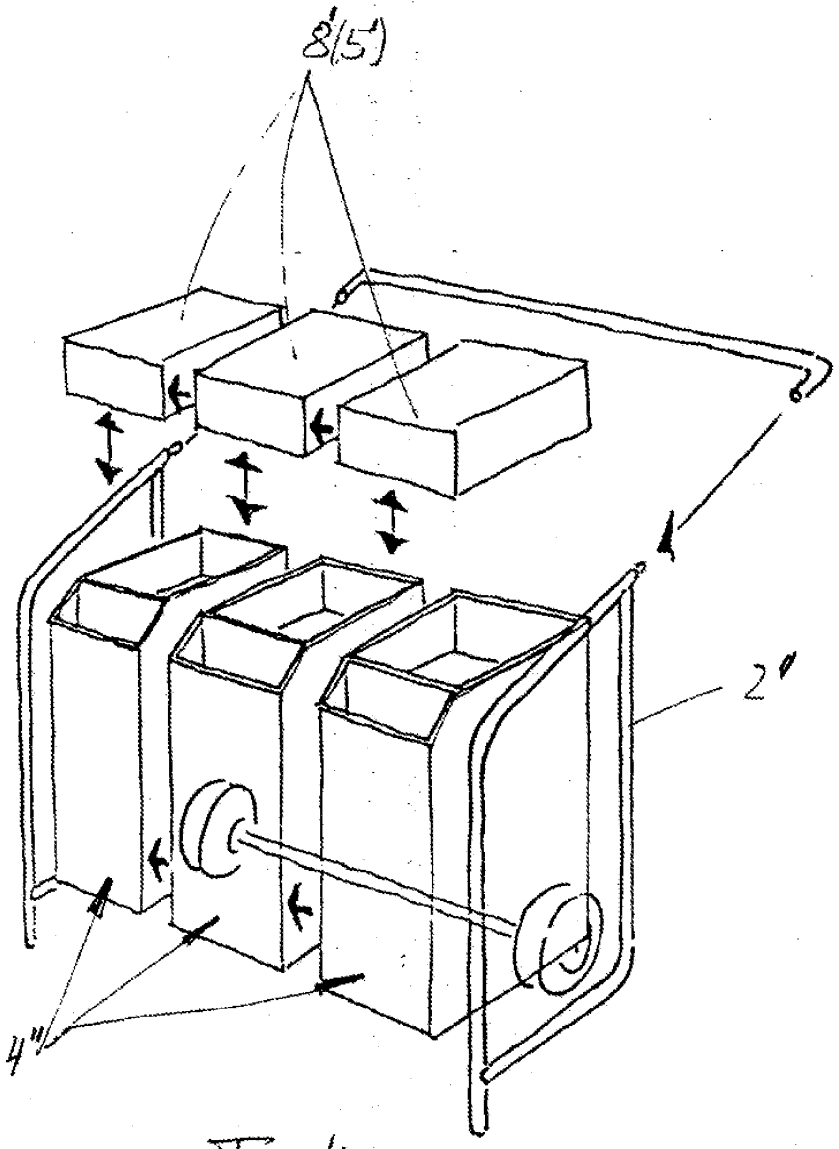


Fig. 4

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Priority: JP20010399020 20011228

Family:

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Assignee(s):(std): TAKIGEN MFG CO ; TAKIGEN MFG CO LTD

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Agent(s): SAKAI HAJIME; ZOGO MASAHIRO

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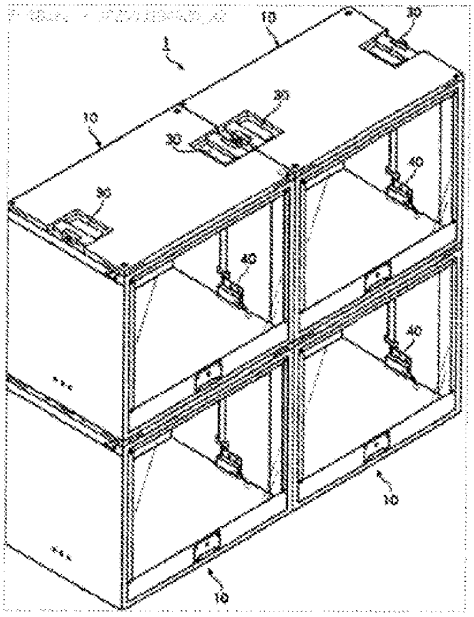
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Abstract:

PROBLEM TO BE SOLVED: To provide an interlocking latch system capable of automatic and sure connection between both boxes only by placing one box on the other and simple disconnection only by operating a hand hold. SOLUTION: The interlocking latch system for connecting the boxes 10 to each other placed in a vertical direction in a disconnectable manner comprises a latch device 40 having a latch member for engaging a latch receiving portion of the box arranged on the lower side in a disengageable manner and a trigger member for operating the latch member. The trigger member operates the latch member to engage the latch receiving member when contacting the box arranged on the lower side. The latch member can disengage the latch receiving portion of the box arranged on the lower side by turning the handle of the hand hold 30.



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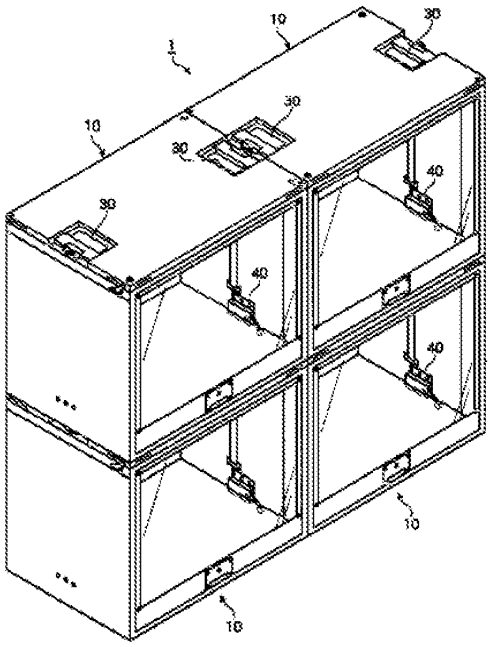
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(54)【発明の名称】　連動式ラッチシステム及びこれを用いた箱体

(57)【要約】
【課題】　箱体のうえに他の箱体を載置するだけで、両箱体を自動的かつ確実に連結することができるとともに、この連結状態を取手の操作だけで簡単に解除することができる連動式ラッチシステム及び箱体を提供する。
【解決手段】　上下方向に積載される箱体１０どうしを解除可能に連結する連動式ラッチシステムであって、ラッチ装置４０は、下方に配置された箱体のラッチ受け部に解除可能に係合するラッチ部材と、ラッチ部材を作動させるトリガー部材とを備え、トリガー部材は下方に配置された箱体に接触したときにラッチ部材を作動させてラッチ受け部に係合させるものであり、ラッチ部材は、これが設けられた箱体の取手３０のハンドルが回動すると、下方に配置された箱体のラッチ受け部との係合が解除されるように形成されたものである。



【特許請求の範囲】
【請求項１】　上下方向に積載される箱体どうしを解除可能に連結するラッチ装置と、回動可能なハンドルを含む取手とを備える連動式ラッチシステムであって、
前記ラッチ装置は、下方に配置された前記箱体のラッチ受け部に解除可能に係合するラッチ部材と、該ラッチ部材を作動させるトリガー部材とを備え、該トリガー部材は下方に配置された前記箱体に接触したときに前記ラッチ部材を作動させて前記ラッチ受け部に係合させるものであり、
前記ラッチ部材は、これが設けられた箱体の前記ハンドルが回動すると、下方に配置された前記箱体のラッチ受け部との係合が解除されるように形成されたものであることを特徴とする連動式ラッチシステム。
【請求項２】　各箱体が有する前記ラッチ部材は、ケースに回動可能に枢着されるとともに、下方に配置された前記箱体の前記ラッチ受け部に係合する位置に向かって付勢された状態で設けられ、
前記ラッチ装置は接続部材により同じ箱体の前記取手に連結され、前記ハンドルの回動により前記接続部材に張力が作用すると、該張力が、前記ラッチ部材を付勢する力に抗してこのラッチ部材を回動させ、下方に配置された前記箱体の前記ラッチ受け部との係合を解除するものであることを特徴とする請求項１記載の連動式ラッチシステム。
【請求項３】　前記トリガー部材は、下方に配置された前記箱体に接触する接触レバーと、前記ラッチ部材と係合する係合レバーまたは係合突子とが一体に形成され、ケースに回動可能に枢着されるとともに、前記係合レバーまたは前記係合突子が前記ラッチ部材に当接するように付勢された状態で設けられ、
前記係合レバーまたは前記係合突子は、前記ラッチ部材が前記ラッチ受け部から係合解除されたときにこの係合解除状態を保持するように、前記ラッチ部材と係合するものであり、
前記接触レバーは、これが下方に配置された前記箱体に接触したときに、前記係合レバーまたは前記係合突子と前記ラッチ部材との係合を解除するものであることを特徴とする請求項２に記載の連動式ラッチシステム。
【請求項４】　前記係合レバーまたは前記係合突子を前記ラッチ部材に当接するように付勢する付勢手段と、前記ラッチ部材を下方に配置された前記箱体の前記ラッチ受け部に係合する位置に向かって付勢する付勢手段とが、前記トリガー部材と前記ラッチ部材との間に設けられた一つの付勢手段により実現されるものである請求項３に記載の連動式ラッチシステム。
【請求項５】　前記取手は、基板と、取付具を介して前記基板に回動可能に設けられたハンドルと、該ハンドルを前記基板に向かい付勢してこの上に載置させる付勢手段と、前記接続部材を前記取付具に固定する固定部材とを備えたものであることを特徴とする請求項２乃至請求項４のいずれか１項に記載の連動式ラッチシステム。
【請求項６】　請求項１乃至請求項５のいずれか１項に記載の連動式ラッチシステムが設けられたことを特徴とする箱体。
【発明の詳細な説明】
【０００１】
【発明が属する技術分野】本発明は、上下方向に積載されるラック、キャビネット、文書整理箱および筐体等の箱体どうしを解除可能に連結するための連動式ラッチシステム及びこれを用いた箱体に関する。
【０００２】
【従来の技術】横方向に並べられて上下方向にも積載される文書整理箱が、例えば、特公平７－１００３９７号公報に記載されている。この公報に記載された文書整理箱では、箱上面に係合突起が設けられ、箱底面に孔が穿設され、これらの両部材が係合することにより、上下方向に積載された文書整理箱は結合されている。また文書整理箱には、側壁に回動可能な取手が取り付けられている。
【０００３】上記従来の文書整理箱では、下方に置かれた文書整理箱のうえに他の文書整理箱を載置するだけで、箱どうしの係合は容易に行えるものの、その係合状態は極めて緩やかなものであるため、ごく弱い力が横方向から作用しただけでも簡単に係合解除されてしまい、安定性に欠けるものであった。また取手が、側壁から突き出るように設けられているため、文書整理箱を横方向に並べる際には、これが障害になることも考えられる。
【０００４】
【発明が解決しようとする課題】本発明は、上記のような問題点を解決するためになされたものであり、その課題は、下方に置かれた箱体のうえに他の箱体を載置するだけで、両箱体を自動的かつ確実に連結することができるとともに、この連結状態を取手の操作だけで容易に解除することができる連動式ラッチシステム及び箱体を提供することにある。
【０００５】
【課題を解決するための手段】本発明では、上下方向に積載される箱体どうしを解除可能に連結するラッチ装置と、回動可能なハンドルを含む取手とを備える連動式ラッチシステムであって、前記ラッチ装置は、下方に配置された前記箱体のラッチ受け部に解除可能に係合するラッチ部材と、該ラッチ部材を作動させるトリガー部材とを備え、該トリガー部材は下方に配置された前記箱体に接触したときに前記ラッチ部材を作動させて前記ラッチ受け部に係合させるものであり、前記ラッチ部材は、これが設けられた箱体の前記ハンドルが回動すると、下方に配置された前記箱体のラッチ受け部との係合が解除されるように形成されたものであることを特徴とする連動式ラッチシステムが提供される。

【０００６】また本発明では、上記連動式ラッチシステムが設けられた箱体が提供される。該箱体では、例えば、取手を箱体の上面部分に設け、ラッチ装置を箱体内部の底面付近に設け、接続部材は箱体内部に通して取手とラッチ装置に接続することができる。取手は、箱体の上面部分に設ける場合、箱体の表面から突出しないように設けることが好ましい。またラッチ部材は、ラッチ受け部と係合しているときのみ、箱体底面から下方に突出するように設けることが好ましい。トリガー部材は、ラッチ部材がラッチ受け部から係合解除されているときのみ、箱体底面から下方に突出するように設けることが好ましい。

【０００７】本発明では、取手にフック受け部を設けても良く、またトリガー部材は取手の所定箇所に接触するように配置すると共に、取手にはトリガー部材接触面を設けても良い。

【０００８】

【作用】複数の箱体が上下方向に積載されているとき、上の箱体のラッチ部材は下の箱体のラッチ受け部に係合し、各取手のハンドルは基板上に載置された状態になっている。そして、最上段の箱体を持ち上げるためハンドルを把持すると、ハンドルは付勢手段の力に反して回動し、ハンドルに連結された接続部材が引張られてラッチ部材にも張力が伝わる。この張力により、ラッチ部材はこれを付勢する力に抗して回動し、下の箱体のラッチ受け部から解除されて、上の箱体は持ち上げ可能になる。したがって、本発明の連動式ラッチシステムでは、取手のハンドルを把持するだけで、ラッチ部材は自動的に係合解除される。逆に、ハンドルを把持して持ち上げた箱体を、下方に配置した箱体のうえに積載し、取手のハンドルから手を離すと、ハンドルは付勢手段により回動して基板上に載置された状態に戻る。このとき、接続部材からラッチ部材に伝わっていた張力は弱まり、ラッチ部材はこれを付勢する力により回動して、下方に配置した箱体のラッチ受け部に係合する。したがって、本発明の連動式ラッチシステムでは、取手のハンドルから手を離すだけで、ラッチ部材は自動的にラッチ受け部に係合される。

【０００９】

【実施例】以下、添付図面を参照して本発明の好適な実施形態を説明する。

【００１０】図１は連動式ラッチシステムを用いた箱体１０を複数組み合わせた斜視図であり、図２はこの箱体１０の分解図である。箱体１０は、天板１１と扉１２と壁部材１３と底板１４とレール１５と連動式ラッチシステムとを備え、この連動式ラッチシステムは、取手３０と、ラッチ装置４０と、これらを連結する接続部材としてのベルト７０とを備えている。ここで、天板１１は、表面仕上板１１ａと基板１１ｂとに取手３０等の所要部材が固定され、取手３０は表面仕上板１１ａよりも上方に突出しないように設けられる。また壁部材１３は左右の側壁１３ｂと後壁１３aとからなり、両側壁１３ｂの内面上方にはそれぞれレール１５が固定され、両側壁１３ｂの内面下方にはそれぞれラッチ装置４０が固定される。各ラッチ装置４０に取り付けられたベルト７０は、側壁１３ｂの内面に沿って上方に延設され、各レール１５と各側壁１３ｂとの隙間を通って取手３０に接続される。底板１４は、側壁１３ｂに固定されたラッチ装置４０に対向する２箇所に切欠き１４ａが形成され、各切欠き１４ａは、ここからラッチ装置４０のトリガーレバーやラッチレバーが出入りするために用いられる。扉１２は、枠材１２ｂ、１２ｂ’に透明軽量なアクリル板１２ａが取り付けられ、下側の枠材１２ｂ’にラッチ式取手５０が固定され、上側の枠材１２ｂの両端に枢軸やローラー１２ｅが設けられる。各ローラー１２ｅは各レール１５に走行可能に嵌められ、ラッチ式取手５０は、これに対向する底板１４の所定位置に設けられたラッチ受け部（図示せず）と着脱自在に係合する。扉１２を開くときには、ラッチ式取手５０に手指を入れてラッチを解除し、扉１２を押し上げれば、ローラー１２ｅはレール１５を走行して、扉１２は開放される。

【００１１】次に、連動式ラッチシステムの各構成について説明する。図３（ａ）～（ｃ）は取手３０を示す図であり、図４はハンドル３２の回動状態を示した取手３０の断面図であり、図５は取手３０の組立図である。取手３０は、カバー３１にハンドル３２が熔接で固定され、ベルト７０がベルト固定具３５によりカバー３１に固定され、このカバー３１が軸部材３３により基板３４に枢着され、軸部材３３にバネ３６が環装される。さらに詳細に説明すれば、カバー３１は、一枚の板材を折り曲げて形成されたものであり、上面部３１ａの両側が下方にほぼ直角に折り曲げられて側面部３１ｄが形成され、この側面部３１ｄに軸部材３３を貫装するための孔３１ｆが穿設されている。またカバー３１の前側には、上面部３１ａが下方にほぼ直角に折り曲げられて前面部３１ｃが形成され、前面部３１ｃの両側にはハンドル端部３２ａを挿し入れるための切欠き３１ｅが設けられ、さらに、前面部３１ｃにはベルト固定具３５を螺着するための螺子孔が設けられている。

【００１２】基板３４も、同様に一枚の板材を折り曲げて形成されたものであり、底面部３４ａの両側が折り曲げられてフランジ３４ｃが形成され、後側が折り曲げられて立上り部３４ｅが形成され、この立上り部３４ｅに対向する底面部３４ａの所定位置が切込み折り曲げられて立上り部３４ｆが形成され、これら立上り部３４ｅ，３４ｆ間に軸３４ｄが取り付けられている。この軸３４ｄはラッチ受け部３４ｄとして使用されるものである。さらに、両フランジ３４ｃの後方には、軸部材３３を貫装するための孔を有する軸挿着部３４ｇが設けられている。

【００１３】ベルト固定具３５は、図４及び図５に示したように、ウェブ３５ｃの両側にフランジ３５ａ，３５ｅが設けられたほぼコ字形状のものであり、角にベルト挿通孔３５ｂ，３５ｄが形成され、フランジ３５ａに螺子孔が穿設されている。このベルト固定具３５は、ベルト挿通孔３５ｂ，３５ｄにベルト７０を挿通し、このベルト７０の先端をフランジ３５ａとカバー３１の前面部３４ｃとで挟むように螺子３９で止められる。

【００１４】取手３０は、以上の構成を図５に示したように組み立てることにより形成される。すなわち、カバー３１には予めハンドル３２、ベルト固定具３５、ベルト７０を固定しておき、このカバー３１の両側面部３１ｄを、ワッシャー３８を介して両方の軸挿着部３４ｇの間に嵌め、カバー３１と底面部３４ａとの間にバネ３６を配置し、これら軸挿着部３４ｇ、ワッシャー３８、バネ３６、カバー３１の孔３１ｆに軸部材３３を貫装し、この軸部材３３の両端の溝にＥ形止め輪３７を嵌めると、取手３０は図３に示したように形成される。このとき、ハンドル３２はカバー３１を介してバネ３６から付勢されており、図４の実線で示した状態になっている。この状態から、手指でハンドル３２を把持して持ち上げると、ハンドル３２はバネ３６から受ける力に反し、軸部材３３を枢軸として矢印Ｒ４方向に回動し、２点鎖線で示した仮想線の位置に達し、ベルト７０は引き上げられて張力がラッチ装置４０に伝達される。逆に、手指で把持したハンドル３２を仮想線の位置で離すと、ハンドル３２はバネ３６に付勢されて矢印Ｒ３方向に回動し、実線で示した位置に達し、このとき、ベルト７０は緩んで張力は解除される。

【００１５】次に、図６（ａ）（ｂ）はラッチ装置４０の側面図であり、ラッチ受け部３４ｄから係合が解除された状態が示されている。また図７はラッチ装置４０を図６（ａ）の逆側から見た部分断面図であり、ラッチ受け部３４ｄと係合した状態が示されている。ラッチ装置４０は、ケース４２とトリガー部材４３とラッチ部材４５とを主要部として備えている。ケース４２は、内部にトリガー部材４３とラッチ部材４５を収容する隙間を備え、両部材４３，４５が自在に回動できるように、２枚の板材４２ａ，４２ｂをほぼ平行に離隔して固定し、両側面と下面は開放状態に形成されており、板材４２ｂの上部に後述の連結板４７を挿通するための貫通孔４２ｆが穿設されている。

【００１６】ラッチ部材４５は、特に限定されるものでは無いが、ここでは厚さほぼ３ｍｍ程度の板材から形成された部材であって、受動突子４５ｂと係合凹部４５ｄと接続部４５ｃとを備え、枢軸４５ａにより回動可能にケース４２に枢着されるとともに、バネ４６により矢印Ｒ２方向に付勢されている。係合凹部４５ｄは前記取手３０のラッチ受け部３４ｄに係合する部位である。また受動突子４５ｂは停止面４５ｂ’と摺動面４５ｂ”とを備え、摺動面４５ｂ”はラッチ部材４５が図７の状態から図６（ａ）の状態に回動するときに、トリガー部材４３の係合レバー４３ｅが摺動する面であり、停止面４５ｂ’は図６（ａ）のようにラッチ部材４５がラッチ受け部３４ｄから係合解除されたときに、この状態を維持するためトリガー部材４３の係合レバー４３ｅに係合するための面である。さらに、接続部４５ｃには連結板４７の下端がピン４７ｂにより枢着される。この連結板４７の上端はピン４７ａによりベルト固定板４１に枢着され、ベルト固定板４１にはベルト７０が接続される。

【００１７】トリガー部材４３は、特に限定されるものでは無いが、ここでは厚さほぼ３ｍｍ程度の板材から形成された部材であって、一体に形成された接触レバー４３ｄと係合レバー４３ｅとを備え、枢軸４３ａにより回動可能にケース４２に枢着されるとともに、バネ４４により矢印Ｒ１方向に付勢されている。接触レバー４３ｄは先端にピン４３ｂで枢着されたローラー４３ｃを有し、このローラー４３ｃが、下方に配置された箱体１０の取手３０のカバー３１に接触する。また係合レバー４３ｅは、前記したように、図６（ａ）のようにラッチ部材４５がラッチ受け部３４ｄから係合解除されたときに、この係合解除状態を維持するため停止面４５ｂ’に係合するためのものである。

【００１８】次に、図１，図６及び図７を参照してラッチ装置４０の作用を説明する。図１に示したように、箱体１０が上下方向に積載されているとき、上に配置された箱体１０のラッチ装置４０のラッチ部材４５は、下に配置された箱体１０の取手３０のラッチ受け部３４ｄに係合しており、この係合状態が図７で図示されている。図７の状態について、更に説明すれば、ラッチ部材４５はバネ４６の力を受けてＲ２方向に付勢されており、係合凹部４５ｄがラッチ受け部３４ｄに係合している。このとき、トリガー部材４３はバネ４４に付勢されて、接触レバー４３ｄの先端のローラー４３ｃは、下方に配置された箱体１０の取手３０のカバー３１に接触しており、係合レバー４３ｅはラッチ部材４５の受動突子４５ｂの摺動面４５ｂ”に当接している。また、このとき、ラッチ部材４５にはベルト７０からの張力は作用していない

【００１９】一方、上に配置された箱体１０の取手３０のハンドル３２を、図４の矢印Ｒ４方向に回動させて、手指でハンドル３２を把持して箱体１０を持ち上げると、ベルト７０に張力が作用し、この張力がベルト固定板４１から連結板４７を介してラッチ部材４５に伝達される。これにより、ラッチ部材４５は図７の状態から矢印Ｒ２の逆方向に回動し、係合凹部４５ｄとラッチ受け部３４ｄとの係合状態は解除され、ラッチ部材４５の摺動面４５ｂ”がトリガー部材４３の係合レバー４３ｅを押しながら、トリガー部材４３を矢印Ｒ１の逆方向に回動させる。そして、ラッチ部材４５が所定角度まで回動

すると、係合レバー４３ｅが受動突子４５ｂの停止面４５ｂ’に係合し、これにより、ラッチ部材４５はバネ４６の力に抗して、図６（ａ）のように係合解除された状態で停止する。このとき、トリガー部材４３自体もバネ４４の力に抗して停止しており、先端のローラー４３ｃは図７の位置よりも若干下方に位置している。

【００２０】次に、持ち上げた箱体１０を下方に配置された箱体１０の上に降ろすと、トリガー部材４３のローラー４３ｃは、下方の箱体１０の取手３０のカバー３１に接触し、トリガー部材４３はバネ４４の力に抗してＲ１の逆方向に回動される。このトリガー部材４３の回動により、係合レバー４３ｅは、ラッチ部材４５の受動突子４５ｂの停止面４５ｂ‘から係合解除され、ラッチ部材４５はバネ４６に付勢されて矢印Ｒ２方向に回動し、図７に示されたように、下に配置された箱体１０の取手３０のラッチ受け部３４ｄに係合する。

【００２１】次に、図６及び図７とは異なるラッチ装置６０について、図８及び図９を参照して説明する。ラッチ装置６０は、ケース６２とトリガー部材６３とラッチ部材６５とを主要部として備え、ラッチ装置４０と同様に箱体１０に取り付けられ、取手３０と連動して動作するものである。ケース６２は、内部にトリガー部材６３とラッチ部材６５を収容する隙間を備え、下面が開放されて両部材６３，６５が自在に回動できるように上面板６２ａと側面板６２ｂ，６２ｅとで形成されており、側面板６２ｂの下端にはフランジ６２ｃが設けられ、ここに貫通孔６２ｄが穿設されており、上面板６２ａの上部には後述のベルト固定板６１と連結材６７とを挿通するための貫通孔６２ｆが穿設されている。

【００２２】ラッチ部材６５は、受動突子６５ｂと係合凹部６５ｃと接続部６５ｅとを備え、枢軸６５ａにより回動可能にケース６２に枢着されるとともに、バネ６４により矢印Ｒ６方向に付勢されており、このバネ６４は、その一端がラッチ部材６５のバネ固定部６５ｄに固定され、他端がトリガー部材６３のピン６３ｄに固定されている。係合凹部６５ｃは前記取手３０のラッチ受け部３４ｄに係合する部位である。また受動突子６５ｂは停止面６５ｂ’と摺動面６５ｂ”とを備え、摺動面６５ｂ”はラッチ部材６５が図８（ｂ）の状態から図９の状態に回動するときに、トリガー部材４３の係合突子４３ｂが摺動する面であり、停止面６５ｂ’は図９のようにラッチ部材６５がラッチ受け部３４ｄから係合解除されたときに、この状態を維持するためトリガー部材６３の係合突子６３ｂに係合するための面である。さらに、接続部６５ｅには連結材６７の下端がピン６７ｂにより枢着される。この連結材６７には長孔６７ａが設けられており、この長孔６７ａにはベルト固定板６１のピン６１ｂが通されて枢着され、ベルト固定板６１にはベルト７０が接続される。なお、ピン６１ｂはベルト固定板６１に固定されたものである。

【００２３】トリガー部材６３は、上端付近が枢軸６３ａにより回動可能にケース６２に枢着され、この枢軸６３ａの上側に停止突子６３ｅが設けられ、下側に係合突子６３ｂが設けられ、ピン６３ｄからラッチ部材６５まで延びるバネ６４により矢印Ｒ５方向に付勢されている。またトリガー部材６３の下端にはピン６３ｄでローラー６３ｃが枢着され、このローラー６３ｃが、下方に配置された箱体１０の取手３０のカバー３１に接触する。また係合突子６３ｂは、前記したように、図９のようにラッチ部材６５がラッチ受け部３４ｄから係合解除されたときに、この係合解除状態を維持するため停止面６５ｂ’に係合するためのものである。さらに、停止突子６３ｅは、トリガー部材６３が図９の状態から図８（ｂ）の状態になるときに、上面板６２ａの下面に突き当たり、トリガー部材６３の回動を停止させるためのものである。

【００２４】次に、図８及び図９を参照してラッチ装置６０の作用を説明する。図１の箱体１０にラッチ装置６０が取り付けられた場合にも、箱体１０が上下方向に積載されたとき、上に配置された箱体１０のラッチ部材６５が、下方に配置された箱体１０のラッチ受け部３４ｄに係合し、この係合状態が図８（ｂ）で示される。図８（ｂ）では、ラッチ部材６５はバネ６４の力を受けてＲ６方向に付勢され、係合凹部６５ｃがラッチ受け部３４ｄに係合する。このとき、トリガー部材６３は同じバネ６４に付勢され、先端のローラー６３ｃは、下方に配置された箱体１０の取手３０のカバー３１に接触し、係合突子６３ｂはラッチ部材６５の受動突子６５ｂの摺動面６５ｂ”に当接している。また、このとき、ラッチ部材６５にはベルト７０から張力が作用していない

【００２５】一方、上に配置された箱体１０の取手３０のハンドル３２を回動させ、手指で把持して箱体１０を持ち上げると、ベルト７０に張力が作用し、この張力がベルト固定板６１から連結材６７を介してラッチ部材６５に伝達される。これにより、ラッチ部材６５は図８（ｂ）の状態から矢印Ｒ６の逆方向に回動し、係合凹部６５ｃとラッチ受け部３４ｄとの係合状態が解除され、ラッチ部材６５の摺動面６５ｂ”がトリガー部材６３の係合突子４３ｂを押しながら、トリガー部材６３を矢印Ｒ５の逆方向に回動させる。そして、ラッチ部材６５が所定角度まで回動すると、係合突子６３ｂが受動突子６５ｂの停止面６５ｂ’に係合し、これにより、トリガー部材６３とラッチ部材６５はバネ６４の力に抗して、図９のように係合解除された状態で停止し、このとき、トリガー部材６３先端のローラー６３ｃは図８（ｂ）の位置よりも若干下方に位置している。

【００２６】次に、持ち上げた箱体１０を下方の箱体１０の上に降ろすと、トリガー部材６３のローラー６３ｃは、下方の箱体１０の取手３０のカバー３１に接触し、トリガー部材６３はバネ４４の力に抗してＲ１の逆方向

に回動される。このトリガー部材６３の回動により、係合突子６３ｂは、ラッチ部材６５の受動突子６５ｂの停止面６５ｂ′から係合解除され、ラッチ部材６５はバネ６４に付勢されて矢印Ｒ５方向に回動し、図８（ｂ）に示されたように、下に配置された箱体１０の取手３０のラッチ受け部３４ｄに係合する。

【００２７】

【発明の効果】本発明では、上下方向に積載される箱体どうしを解除可能に連結するものであり、ラッチ装置は、下方に配置された箱体のラッチ受け部に解除可能に係合するラッチ部材と、このラッチ部材を作動させるトリガー部材とを備え、このトリガー部材は下方の箱体に接触したときにラッチ部材を作動させてラッチ受け部に係合させ、ラッチ部材は、これが設けられた箱体のハンドルが回動すると、下方の箱体のラッチ受け部との係合が解除されるように形成されている。したがって、下方に置かれた箱体のうえに他の箱体を載置するだけで、両箱体を自動的かつ確実に連結することができるとともに、この連結状態を取手のハンドルの操作だけで容易に解除することが可能になった。

【図面の簡単な説明】

【図１】本発明の連動式ラッチシステムを用いた箱体を複数組み合わせた斜視図である。

【図２】本発明の連動式ラッチシステムを用いた箱体の分解図である。

【図３】連動式ラッチシステムの取手を示す図であり、（ａ）は平面図、（ｂ）は正面図、（ｃ）は側面図である。

【図４】ハンドルの回動状態が仮想線で示された取手の断面図である。

【図５】連動式ラッチシステムの取手の組立図である。

【図６】連動式ラッチシステムのラッチ装置を示す図であり、（ａ）は側面図、（ｂ）は（ａ）における左方から見た側面図である。

【図７】図６（ａ）の逆側から見た断面図である。

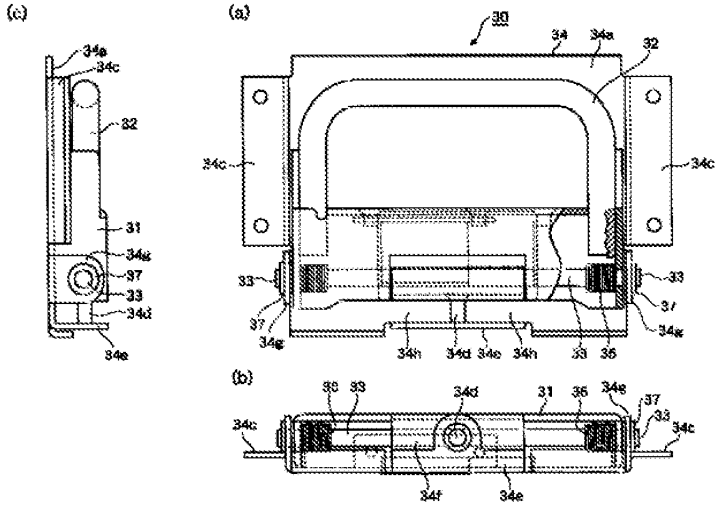
【図８】図６及び図７とは異なる態様のラッチ装置を示す図であり、（ａ）は側面図、（ｂ）は断面図、（ｃ）は（ａ）の逆側から見た側面図、（ｄ）は（ｂ）におけるVIIId－VIIId線に沿った断面図である。

【図９】図８（ｂ）の逆側から見た側面図である。

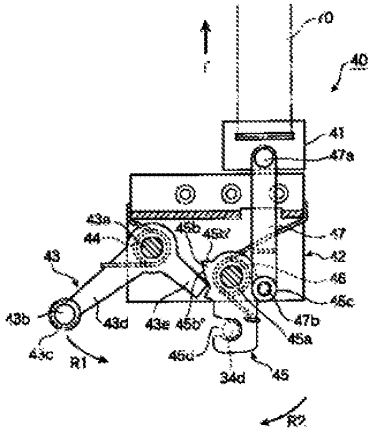
【符号の説明】

１０　箱体
３０　取手
３２　ハンドル
３４ｄ　ラッチ受け部
３６　バネ
４０　ラッチ装置
４２　ケース
４３　トリガー部材
４４，４６　バネ
４５　ラッチ部材
６０　ラッチ装置
６２　ケース
６３　トリガー部材
６４　バネ
６５　ラッチ部材
７０　ベルト

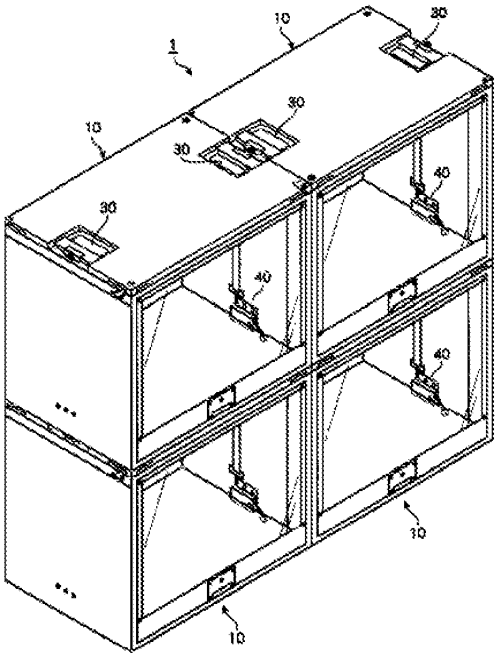
【図３】



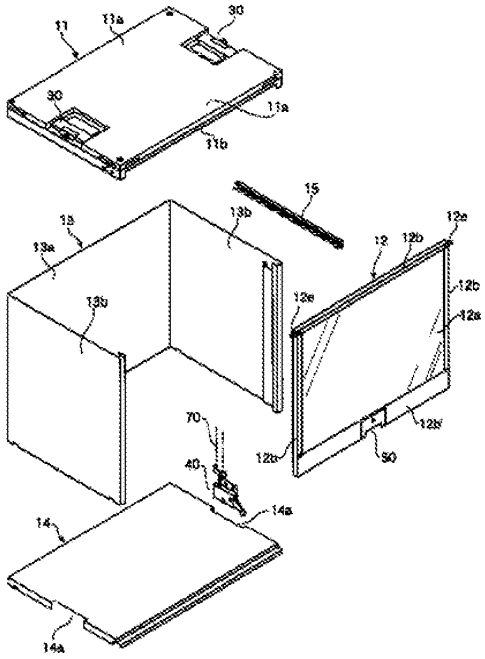
【図７】



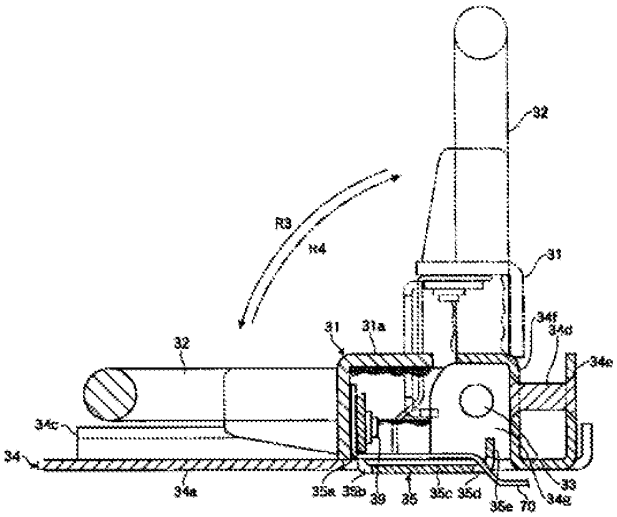
【図1】


1
10
30
40

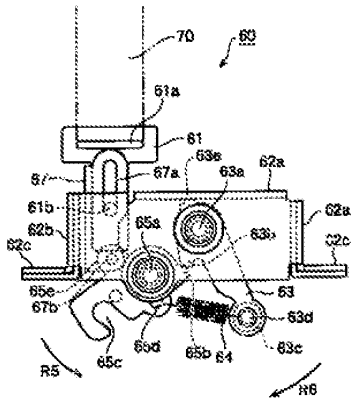
【図2】


11
11a
11b
30
15
13
13a
13b
12
12a
12b
12c
40
70
14
14a
90

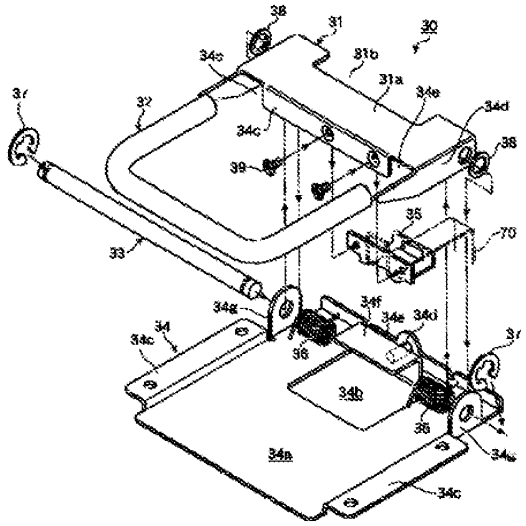
【図4】


32
31
31a
34
34a
34b
34c
34d
34e
34f
33
35a
35b
35c
35d
35e
39
85
70
R3
R4

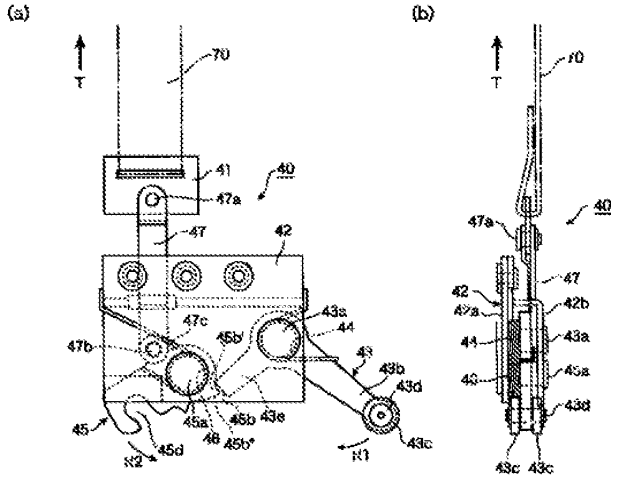
【図9】


70
60
61
61a
61b
62
62a
62b
62c
63
63a
63b
63c
63d
64
65a
65b
65c
65d
65e
67
67a
67b
R5
R6

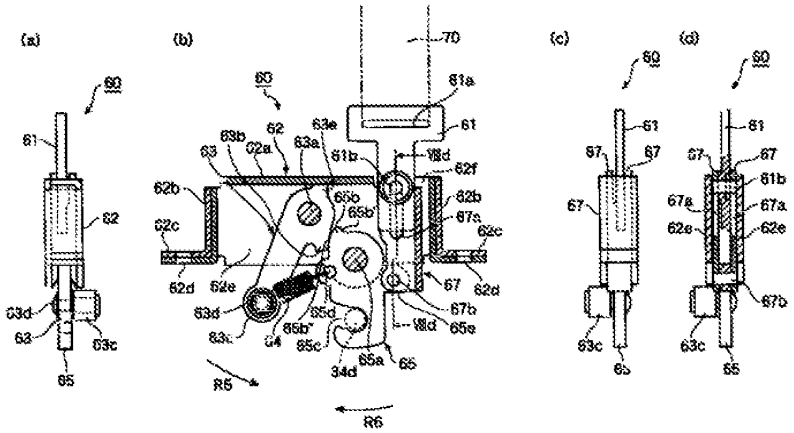
【図5】


38
31
30
34b
31b
31a
34e
34d
3r
3r
34c
38
39
35
70
33
34g
34f
34e
34d
34
34c
38
3r
34b
36
34a
34e
34c

【図6】


(a)
(b)
T
70
41
40
47a
47
42
47c
43a
44
45b
47b
43
43b
43d
45a
45b
43e
45
48
45b'
45d
N2
N1
43c
T
70
40
47a
47
42
42b
47a
43a
44
45a
43d
43c
43c

【図8】



フロントページの続き

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BE02 BF03
3J001 FA15 GA02 GA06 GB01 HA04
HA08 JD25 KA19 KB03
3J024 AA43 CA16

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Yaron Brunner et al.	Allowed: May 7, 2019
Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3736
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement, pursuant to 37 C.F.R. § 1.114(c), accompanies the Request for Continued Examination (37 C.F.R. § 1.114) submitted herewith.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted. Submitted herewith are copies of foreign patents and non-patent literature in accordance with 37 C.F.R. § 1.98(a)(2).

Summary/abstract translations of the non-English language foreign references are attached. With respect to foreign reference EP2346741A1, a copy of this reference was unavailable, and therefore WO2009140965A1, which is an equivalent thereof, is attached.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to the patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: June 18, 2019

Respectfully submitted,

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
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Espacenet

Bibliographic data: EP2346741 (A1) — 2011-07-27

STORAGE ARRANGEMENT CONSISTING OF TWO PARTS SUCH AS TWO CASES OR ONE CASE AND ONE LID

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Applicant(s): J O MADSEN APS [DK] ± (J. O. MADSEN APS, ; TTS TOOLTECHNIC SYSTEMS AG & CO. KG)

Classification: **- international:** ***B25H3/02; B65D21/032***
- cooperative: **B25H3/026**

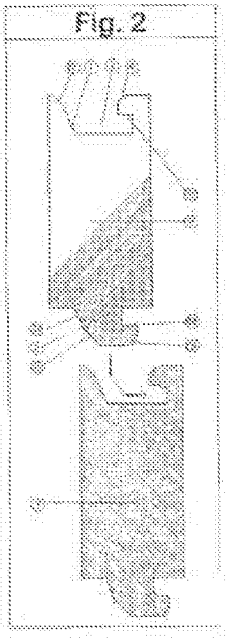
Application number: EP20090749504 20090512 Global Dossier

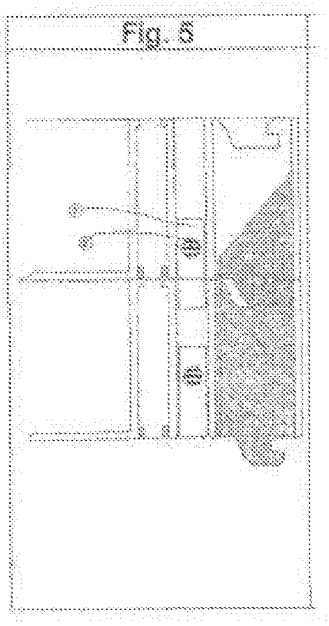
Priority number(s): WO2009DK00107 20090512 ; DKPA200800690 20080519

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Abstract not available for EP2346741 (A1)
Abstract of corresponding document: WO2009140965 (A1)

u / The storage facility for coupling of at least one box and at least one lid is comprised of coupling units as shown in Fig. 2, bottom bridge 2 on the top box and top bridge 3 on the lower box. These must be tightly engaged via the conic flanges 14 + 38 and subsequently locked in the gear via transport lock 7. The primary objective of the invention is to provide a new and functional storage system for tools, equipment and minor parts, which makes it easy to locate what you are looking for and where the objects are easy and fast accessible. Furthermore, it is possible to produce the invention in an inexpensive way and still make it robust and easy to assemble as well as disassemble in only a few seconds.





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(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **MADSEN, Jens, Ole** [DK/DK]; Hyldevænget 3, DK-5400 Bogense (DK).

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(54) **Title**: STORAGE ARRANGEMENT CONSISTING OF TWO PARTS SUCH AS TWO CASES OR ONE CASE AND ONE LID

Fig. 2

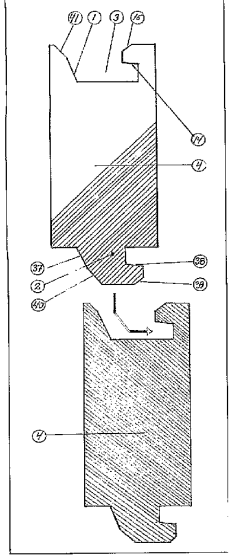
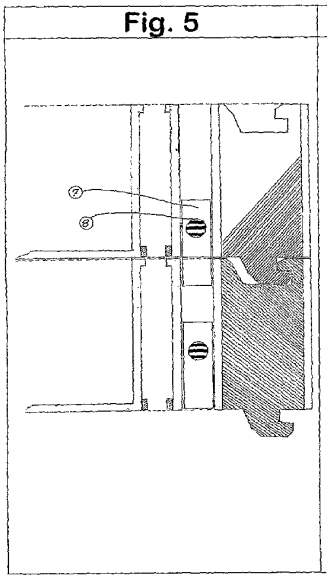


Fig. 5



(57) **Abstract**: u / The storage facility for coupling of at least one box and at least one lid is comprised of coupling units as shown in Fig. 2, bottom bridge 2 on the top box and top bridge 3 on the lower box. These must be tightly engaged via the conic flanges 14 + 38 and subsequently locked in the gear via transport lock 7. The primary objective of the invention is to provide a new and functional storage system for tools, equipment and minor parts, which makes it easy to locate what you are looking for and where the objects are easy and fast accessible. Furthermore, it is possible to produce the invention in an inexpensive way and still make it robust and easy to assemble as well as disassemble in only a few seconds.

WO 2009/140965 A1

Storage arrangement consisting of two parts such as two cases or one case and one lid.

The invention concerns a storage arrangement that includes two parts such as two cases or one case and one lid, which parts can be stacked and connected to each other and where each part has two opposite gables and by a coupling unit in each of the two gable corners for separable connection of the two parts in stacked condition, caused by the four coupling units having one in each corner, is arranged to cooperate with the coupling units of an underlying case or lid, which also are placed in the four corners.

The bottom part of each case is in each of the four corners provided with a bottom bridge and in the four corners of the top part with a top bridge. When the bottom bridges of the top case are placed above the opposite top bridges of the lower case they will easily get in gear and with a slight sidewards push be brought into a tight and compact condition. A transport lock placed in tight connection to one of the connecting bridges (bottom- and top bridges), can be activated outside the case with a little downwards push and provide a blocking for separation of the four sets of connecting bridges and as such also for separation of the two cases or case and lid.
As such cases can be connected unlimited. A craftsman f. inst. can have a set of cases (tower) existing of six – eight cases on top of each other. The value of tools and technical equipment in f. inst. six – eight cases can be extremely high and it can be desirable to lock the whole system (tower). A lock against theft can be integrated in the system with a blocking lock only operational inside the cases. A spring loaded security lock in full height of all cases can be activated with a downwards push and then be locked with a little twist. If f. inst. six cases are stacked on top of each other it will be possible with a push on the security lock on the top case to activate all the security locks of all underlying cases. On the top case a lid with a handgrip can be placed and on the lid can be placed a lock, f. inst. a digital code lock. During this, the whole case system (tower) is locked.

Cases with lids that can be connected are available in various designs and sizes and are being used in many connections. Many tool cases are available with various features.

Normally tool cases and stackable cases are designed with a hinged lid. There are stackable cases with hinged lid that in principle can be stacked and connected unlimited.

The coupling for these case systems normally takes place with snaplocks and/or locking clips. Snaplocks can be springloaded and provide automatic locking. Locking clips normally have to be operated by hand for both locking and unlocking. The disadvantages by these locking clips are that they by low temperature can be tight and difficult to operate (broken nails). They can also be worn, break into pieces and because it is a separate component it can fall off and disappear, where after the system does not work anymore. With a well known case system the coupling is made via four locking clips per case. By coupling of f. inst. six cases it means five cases with each four locking clips = in total twenty locking clips to be pressed in locking position. By separating the case system the process has to be repeated with twenty times finger releases. Furthermore it is a well known disadvantage by existing coupling systems that the coupling is not tight and compact and leaves a space in between the cases from 1,5 to 3,0 mm when lifting in the top case or top lid (accordion effect).

Coupling with snaplocks can be automatic in the locking process and as such very quick. Very often these snaplocks are separate components that can be worn, come to pieces or fall off. In addition these locks will not establish a tight and compact coupling and therefore not provide the desired breaking strength and wearing quality.

The purpose with the invention is to provide a connecting bridge for stackable cases and lids that can raise the desired and needed demand for strength and to avoid breakage in connection with daily use, wear and tear and in addition a simple and quick operational system. Other points and

functions are also a part of the invention and are described following.

The purpose with the invention is considered by a storage arrangement as described in the introduction to claim 1 that is characteristic by that in each of the four corners of the storage arrangement (case) a connecting bridge is moulded together from top to bottom of the case. The connecting bridge is constructed with a top bridge on top and in bottom a bottom bridge.

By coupling of two cases the bottom bridges of the top case will meet the top bridges of the lower case and they will easily fall in gear because of the conical catch flanges on both top- and bottom bridges. The final coupling is made by a slight sideward push on the top case. To secure this coupling, are by at least one of the four connecting bridges moulded together two vertical houses for locking (columns). In one of these is placed a vertical lock (transport lock) that can be operated from outside the case and with a slight downwards push bring the transport lock in a blocking position and secure that all four top bridges and bottom bridges are in gear.

The other vertical column for locking can be used as a security lock as described following.

Because of the special design of the conical top- and bottom bridges the coupling can happen very quick and a push on the locking knob placed outside the case will bring the transport lock in blocking position tight to the connecting bridge.

The four connecting bridges are placed in the outer corners of the cases and as such providing optimal strength and stability in the coupling. The connecting bridges including top- and bottom bridges are moulded together with the gable, sidewall and bottom of the cases and as such providing optimal strength and stability.

The connecting bridges are moulded together with the case and as such there are no loose components that can be worn, go apart, fall off and disappear.

Because of the construction where all the basic elements of the case are moulded together a very advantageous and inexpensive cost price can be obtained.

Alternatively to four connecting bridges per case it could be considered for lighter and private use only to use two connecting bridges, f. inst. one in each gable of the case. Because of the construction with the conical locking frames on top- and bottom bridges and combined with the accuracy available by plastic moulded subjects it will be possible to avoid accordion effect because the coupling will be tight and without wobble.

This also provides a robust impression in connection with the security lock and use of the system (tower) as a sack trolley.

The transport lock keeping the top- and bottom bridges in tight gear can be activated by a locking knob placed outside the cases. The process of locking and unlocking will only take one second.

The locking column for the security lock is moulded together with the case and the connecting bridge for optimal strength and stiffness. The security lock is in same height as the outer dimension of the case and is equipped with a push spring that at all time will try to position the security lock within the height of the case.

The security lock is being activated by a downward push from above and will after four to six mm's movement provide a total blocking and as such secure the coupling. The security lock has a locking arm that can be twisted, get in gear and fix the locking.

If f. inst. six cases are stacked on top of each other the six security locks will in principle be in contact with each other meaning that when the security lock of the top case is activated downwards the security locks of all underlying cases will be brought in blocking position and the final locking with the small locking arm is only needed inside the top case. The security lock can only be operated inside the cases. When the small locking arm in the vertical house for locking is turned back again the push spring will bring all six locks back to the starting point. Upon the top case will be placed a lid with an integrated lock f. inst. a digital padlock and the whole system is locked up.

As such the security lock is extremely quick to operate for unlocking the

system (tower) f. inst. consisting of six cases. Some users could choose to use the security lock as transport lock because only one action (one second) is needed for locking or unlocking the whole tower.
Both transport- and security locks are very robust and strong caused by the construction in which they are placed in the vertical houses moulded together with the gables, sidewalls and bottom of the cases.

The four bottom bridges can be provided with small rubber shoes and then be used as feet, which will protect against dust and scratches on the cases as well and on tables, shelves and floors on which the cases might be placed.

By a selection of extension walls (cases without bottom) existing height of the cases can be enlarged and the volume of the cases will also be enlarged. The extension walls also have a connecting bridge in each of the four corners and can as such be coupled and locked random with the other cases. If f. inst a case is 100 mm high and two extension frames of each 100 mm are placed on top the height of the case will be 300 mm.

With a case system, as here mentioned, with extreme tight and compact connection it is obvious to provide a rolling transport of the set (tower). A bottom box has two wheels that only will obtain contact to the foundation by a 15° backwards inclination. Because the whole set (tower) is very compact and stiff it will in principle be possible to transport it as an ordinary sack trolley.

A transparent lid (possibly disposable) means that a supplier of machines, hand tools, accessories, screws, bolts, etc. can prepare and pack "a set", place the transparent lid on top of the case and seal it. With this the end user (final customer) is secured, that "the set" is complete in the buying situation and when sealing is broken.

A small opening locked with a transparent plate in the walls of the cases provides a visual view to the contents of the cases. The transparent plate is placed in an insert frame and can easily be replaced by a not transparent plate on which can be indicated contents etc. Without any indications this plate will simply just block for view into the case.

The invention also concerns the practical use.

With the previous mentioned basic ideas and features the modern craftsmen can look forward to a more organised and structured separation, handling and transport of tools, equipment, etc.

With the quick disassembly and assembly of the cases, combined with the visual overview of the contents the craftsmen can choose and couple together exact the cases needed for today's work. The transport of the set is wheeled (sack trolley concept).

Following the invention will be described with reference to the enclosed drawings and photos.

Fig. 1 showing two connecting bridges assembled and disassembled.

Fig. 2 showing two connecting bridges disassembled and with more details inclusive conical locks and catch flanges.

Fig. 3 showing two cases in which the connecting bridges in the corner unit are moulded together with the houses for transport- and security lock.

Fig. 4 showing the same as Fig. 3 but now with the transport lock in both cases.

Fig. 5 showing the same as Fig. 4 but with the transport lock of the top case in blocking position.

Fig. 6 showing the two cases with both transport- an security lock in neutral position.

Fig. 7 showing the same as Fig. 6 but with the security lock in blocking position on both top- and bottom case.

Fig. 8 showing transport- and security lock in the four possible positions in respectively 8A – 8B – 8C – 8D. The gable of the case is marked on 8A.

Fig. 9 showing a set of stacked cases (tower) where one of the two integrated transport wheels can be seen lowest at right.

Fig. 10 showing a set of cases (tower) with lid, code lock and carrying-grip.

Fig. 11 showing an extension frame without bottom but with the four connecting bridges.

Fig. 12 showing a 100 mm high standard case.

Fig. 13 showing a 100 mm high standard case with a 100 mm high extension frame placed and the transport lock is locked.

Fig. 14 showing a standard case with two extension frames on top.

Fig. 15 showing a case with a drill and a cable reel as a packed set. Closing of the case can be done with a transparent lid that can be sealed. It means that both the retailer and the end user can be sure that the set is complete.

Fig. 16 showing a case with an inside insert frame with a transparent window for view into the contents of the case.

Fig. 17 showing a case like in Fig. 16 on which the transparent window is replaced be a plate for indication of the contents.

Following the invention will be described with reference to the enclosed drawings/photos and the reference numbers used.

On Fig. 1 is shown the basic drawing of the connecting bridge (4) on which the bottom bridge (2) is framed like a downwards positive L-profile (male) which falls in gear with the top bridge (3) of the underlying case which is framed like a negative L-profile (female).

On Fig. 2 is shown the top bridge (3) with a direct frame (1) which will meet the catch flange (40) on the bottom bridge (2). To simplify and make an easy and safe placing of the top case on the lower case are both top bridge (3) and bottom bridge (2) provided with conical catch flanges (15 + 41) and (39 + 40). To secure a right and compact coupling both top bridge (3) and bottom bridge (2) are constructed with conical locking frames (14 + 38). When top case (10) is placed on top of the lower case (11) the direct frame (1) and the conical catch flange (40) will automatically bring the coupling parts in gear. A slight sideward push will bring the connecting bridges (4) in tight gear and as shown on Fig. 5 the transport lock (7) will block for disassembly and keep the connecting bridges in tight and compact coupling. The transport lock (7) can be activated outside the case by locking knob (8). As it appears on Fin. 5 the transport lock (7) is placed very close to the connecting bridges (4) and thus the coupling is free from wobbles and slack and at the same time robust and almost impossible to break open.

On Fig. 6 is shown the security lock (9) placed in mutual connection with connecting bridge (4) and transport lock (7). Security lock (9) is assembled with a push spring (18) and the set is placed in house for security lock (12) and fixed with a press bushing (17) which at the same time controls and supports the locking tap (19).

As it appears on Fig. 6 and Fig. 7 the two security locks (9) are in contact with each other. When the security lock (9) of the top case is pushed downwards it will automatically move the security lock (9) in the lower case downwards. At the same time the locking tap (19) of the top case is positioned in blocking position with the house for security lock (12) on the lower case.

It means that the security lock (9) of all upon each other placed cases can be activated by just activating the security lock (9) of the top case. Following the final locking can be made by a little twist with locking arm (13). A fine point could be to use the security lock as transport lock. All stacked cases locked via one activation of the security lock (9) of the top

case. Spend of time: 1 second.

All shown examples only show open cases stacked and with a lid on top. If one want a case cases with lids stacked, meaning a case + a lid + a case + a lid etc., it is possible because both the transport lock (7) and security lock (9) can be integrated in the separate lid which then can be stacked and locked with the same system as in the cases, although with a hole in the lid for activating the security lock (9).

On Fig. 9 and Fig. 10 is shown a stacked set (tower 36) with the special bottom case (24) in which the two transport wheels (20) are integrated. The tower (36) is finally on top closed with a lid (21) with carrying grip (23) and a code lock (22).

Fig. 11 shows an extension frame (27) without bottom. The corner unit (5) can also be seen here.

Fig. 12 shows a standard case (28) with bottom and connecting bridge (4) and top bridge (3).

Fig. 13 shows a standard case (28) and an extension frame (27) coupled together.

Fig. 14 shows the same example but with two extension walls (27). As it can be seen it gives a great flexibility to adjust cases in different heights.

Fig. 15 shows a standard case (28) in which a drill and a cable reel is placed. This kind of "combination-pack" is often used by manufacturers as promotional idea for machines, accessories, screws, bolts, nails, plugs etc. It is highly essential for as well manufacturer, retailer and the final end user to be sure that "the set" is complete.
The innovation is here that a transparent lid (29) is placed in a

countersinked frame (32). A sealing can be made by a warm-up/melting into the frame or alternatively via one or two hot melted straps. A carrying grip (30) as well as a hole (31) for the security lock (9) is a possibility, when the transparent lid is wanted for future and continuous use. The transport lock (7) can be operated from outside with the locking knob (8).

Fig. 16 shows the case with a transparent window (33) that inside the case is pushed down in an insert frame (34). The same insert frame (34) is used on Fig. 17 but with the transparent window replaced by a plate (35) for indication of contents.

Patent Claim

1. Storage facility comprising two or more boxes or a box and a lid, all parts that can be stacked and interconnected and where the boxes or lids have opposite facing gables and where the connecting bridge (4) is placed in the four corners or with one connecting bridge (4) on each of the opposite facing gables, whereby the bottom bridge (2) of the upper box or lid interconnects with the top bridge (3) of the below box or lid characterized by the bottom bridge (2) of the top box or lid being shaped as a downward pointing L profile (male part), which interconnects with the top bridge (3) of the below box, which is shaped as an L profile (female part).

2. Storage facility according to requirement 1 characterized by having the four connecting parts in the four outer corners of the boxes or lids.

3. Storage facility according to requirements 1-2 characterized by the connecting parts being cast together with the bottom and side walls of the boxes and the top and side walls of the lids.

4. Storage facility according to requirements 1-3 characterized by the connecting parts being cast together with boxes or lids and connecting via the four cast-in connecting parts.

5. Storage facility according to requirements 1-4 characterized by a construction that allows injection moulding of box and connecting parts or lid and connecting parts in one process.

6. Storage facility according to requirements 1-5 characterized by one or more of the connecting parts being cast together with a locking column.

7. Storage facility according to requirements 1-6 characterized by a construction that creates very close contact between connected boxes and lids.

8. Storage facility according to requirements 1-7 characterized by one or more of the connecting bridge being cast together with a cavity in which a security lock is placed.

9. Storage facility according to requirements 1-8 characterized by having a plexiglass in front of the catch on the locking device.

10. Storage facility according to requirements 1-9 characterized by the security locks' proximity to the connecting bridges and the fact that the security locks will interact with the below security locks, when the boxes or lids are placed on top of each other.

11. Storage facility according to requirements 1-10 characterized by having small soft rubber buttons underneath the four bottom bridges.

12. Storage facility according to requirements 1-11 characterized by wall systems, which are boxes without bottoms and with the same connecting system as boxes and lids.

13. Storage facility according to requirements 1-12 characterized by having transparent glass or plexiglass in the box gables or sides.

14. Storage facility according to requirements 1-13 characterized by having one bottom box with two transport wheels.

Fig. 1

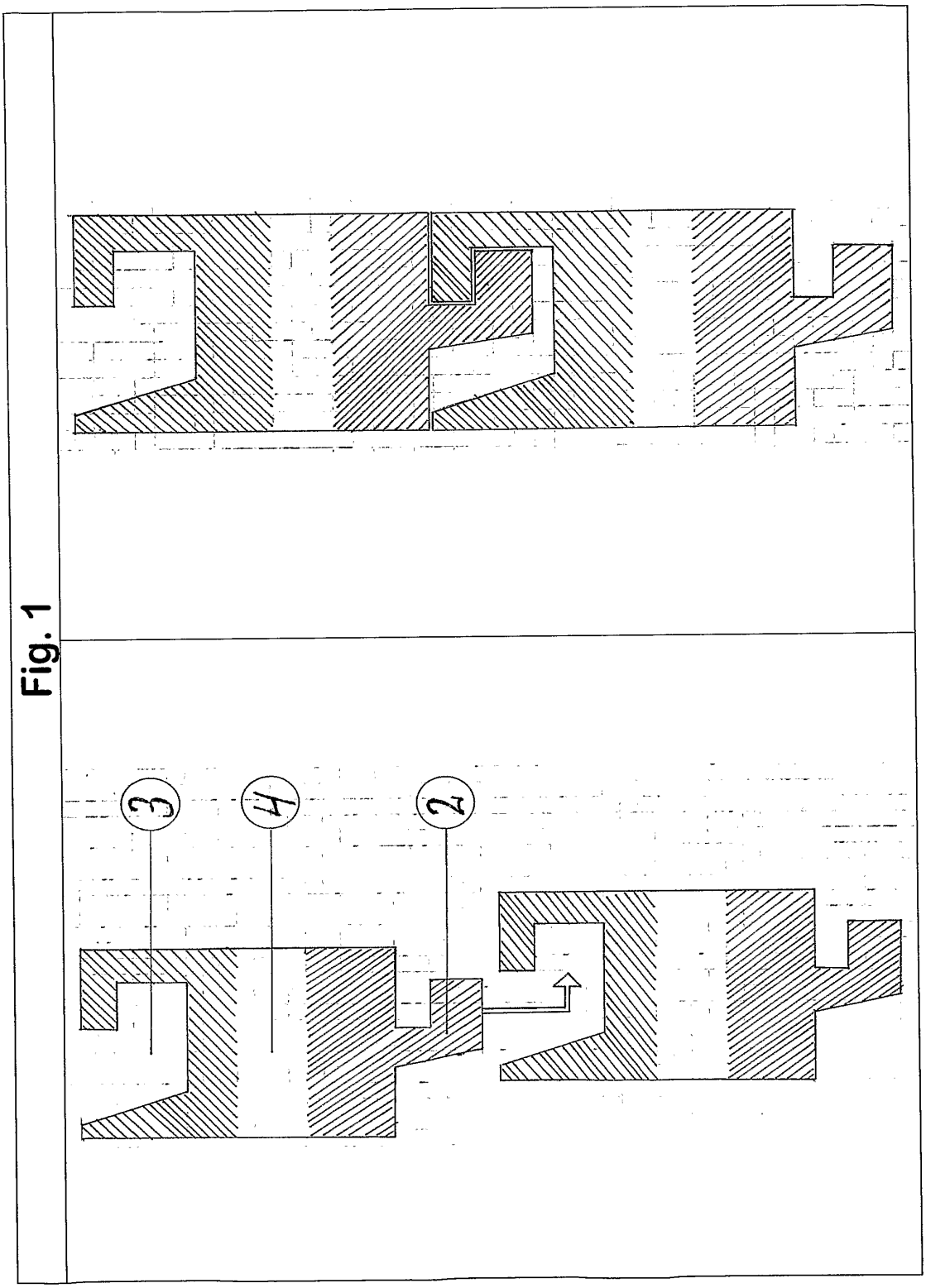


Fig. 4

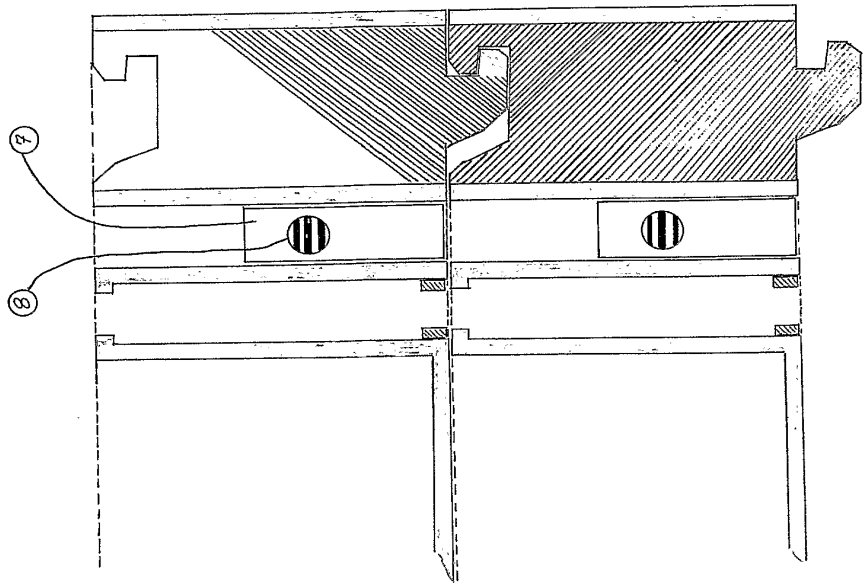


Fig. 3

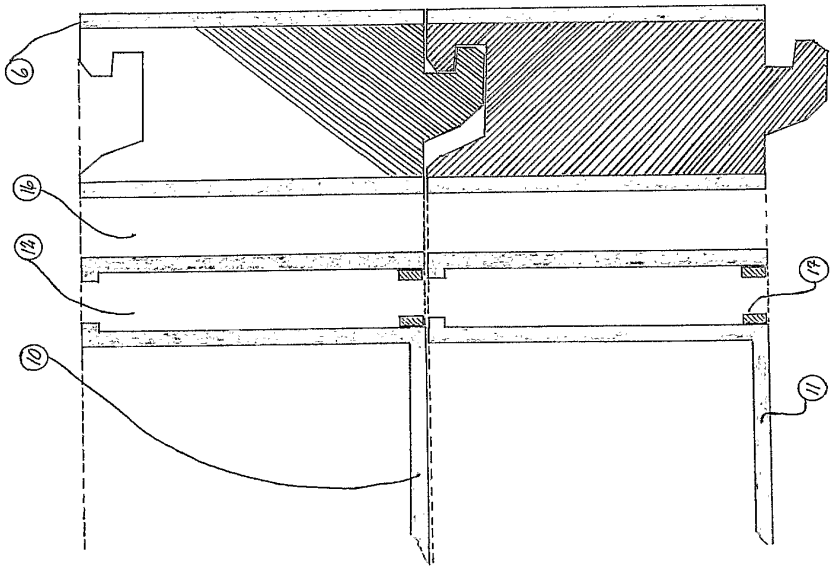


Fig. 2

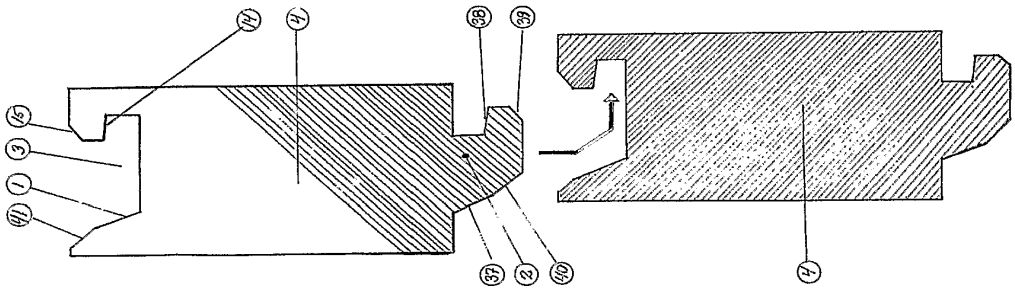


Fig. 7

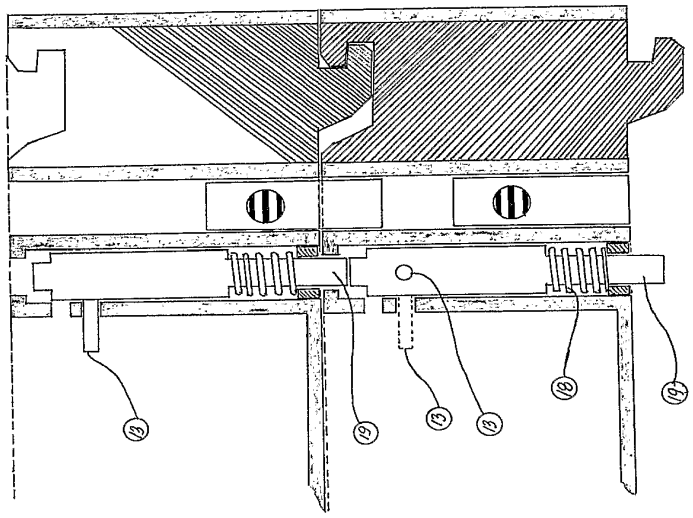


Fig. 6

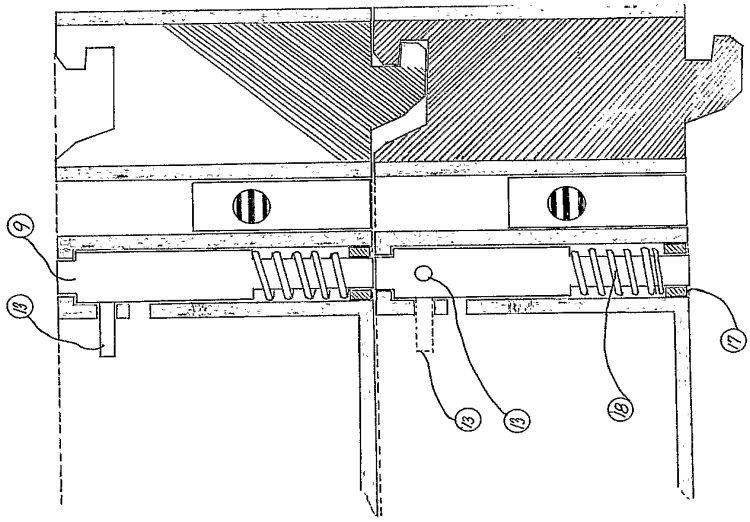
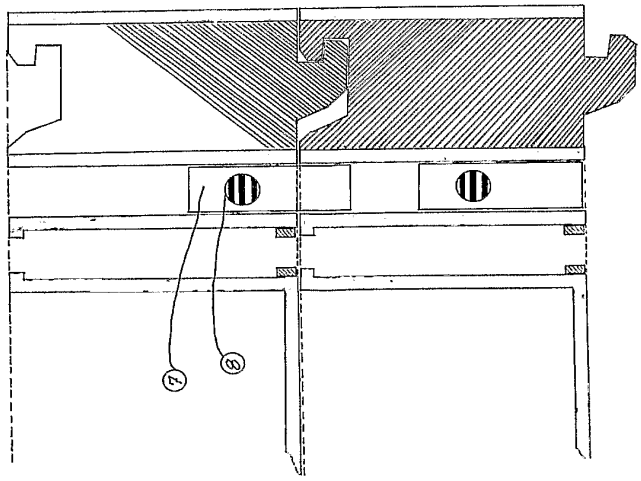


Fig. 5



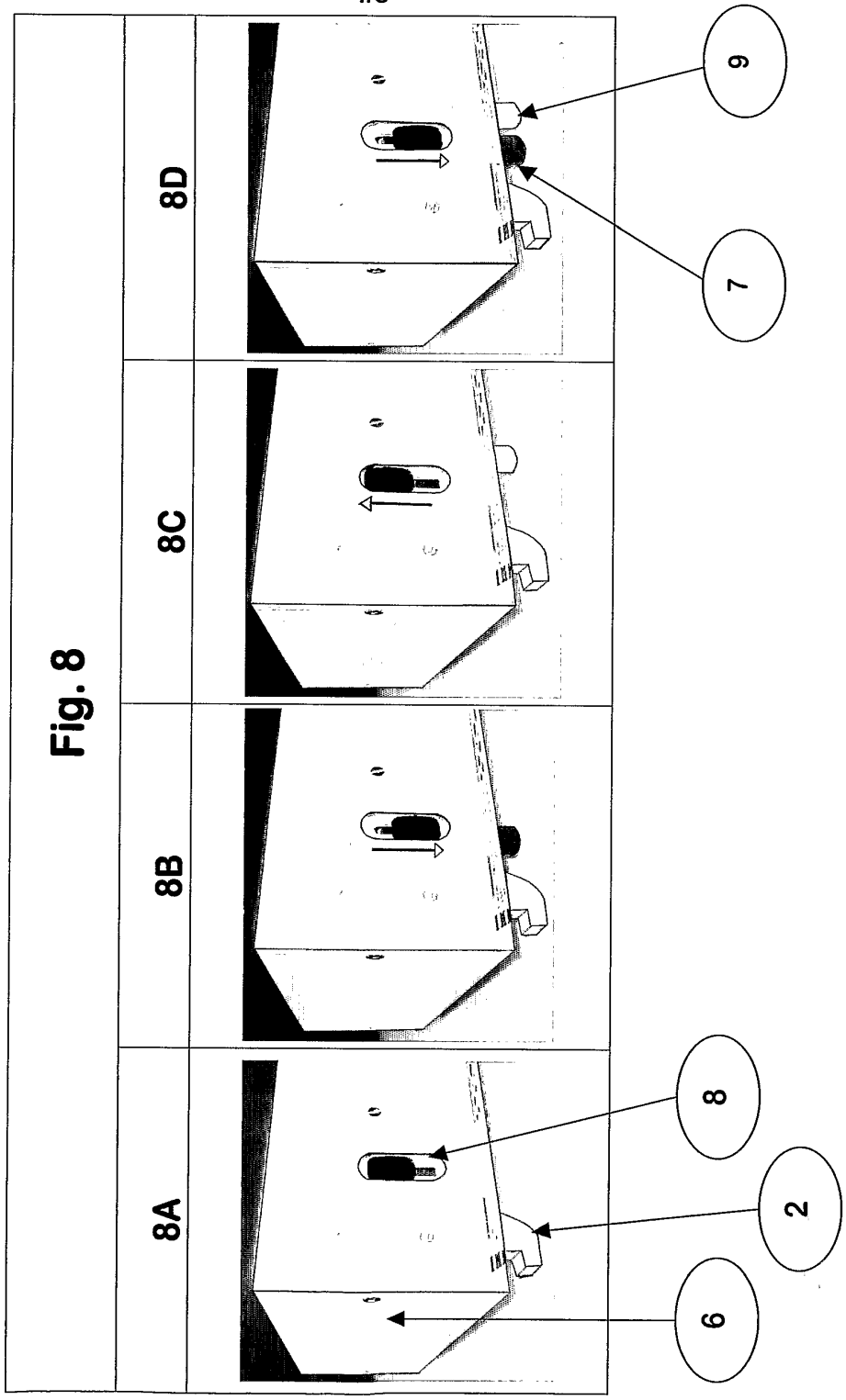

Fig. 8
8D
8C
8B
8A
9
7
8
2
6

Fig. 9

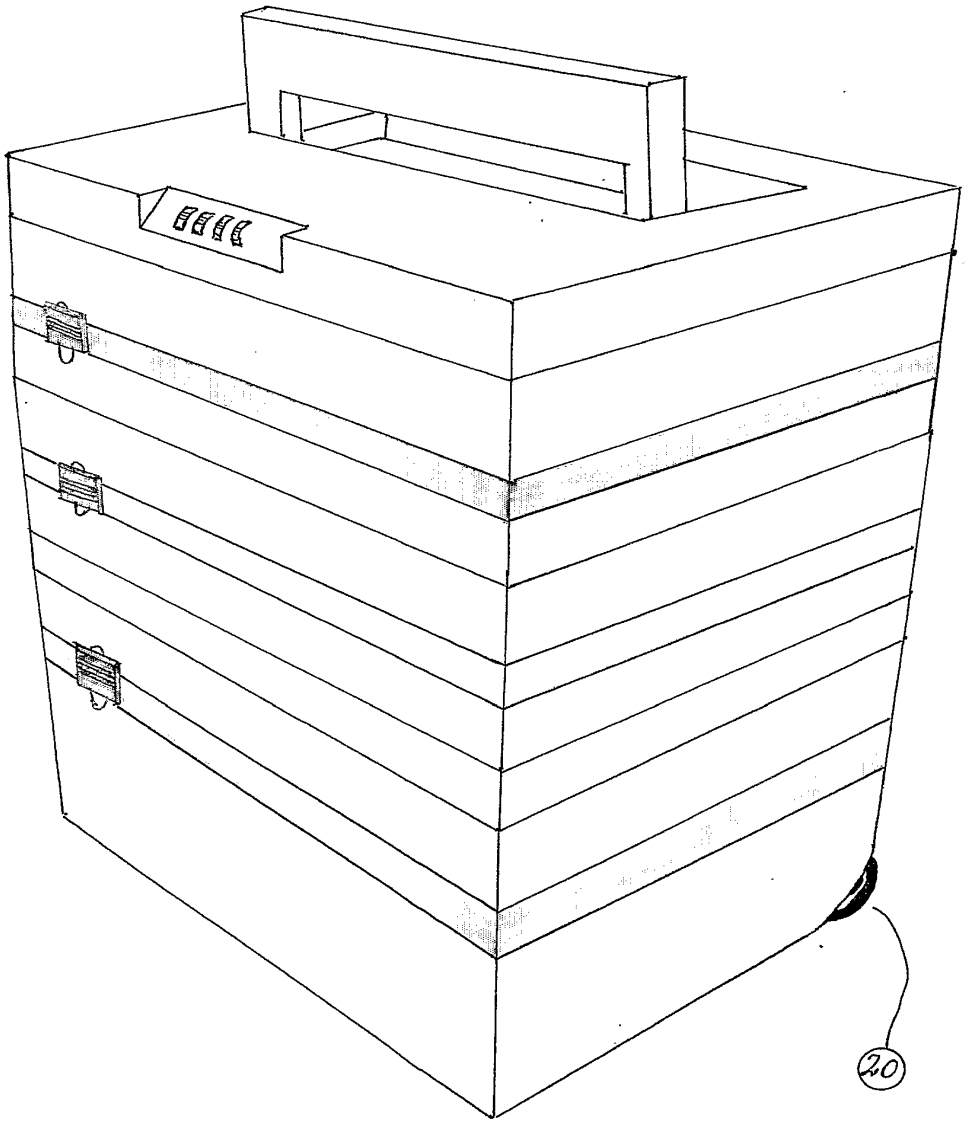


Fig. 10

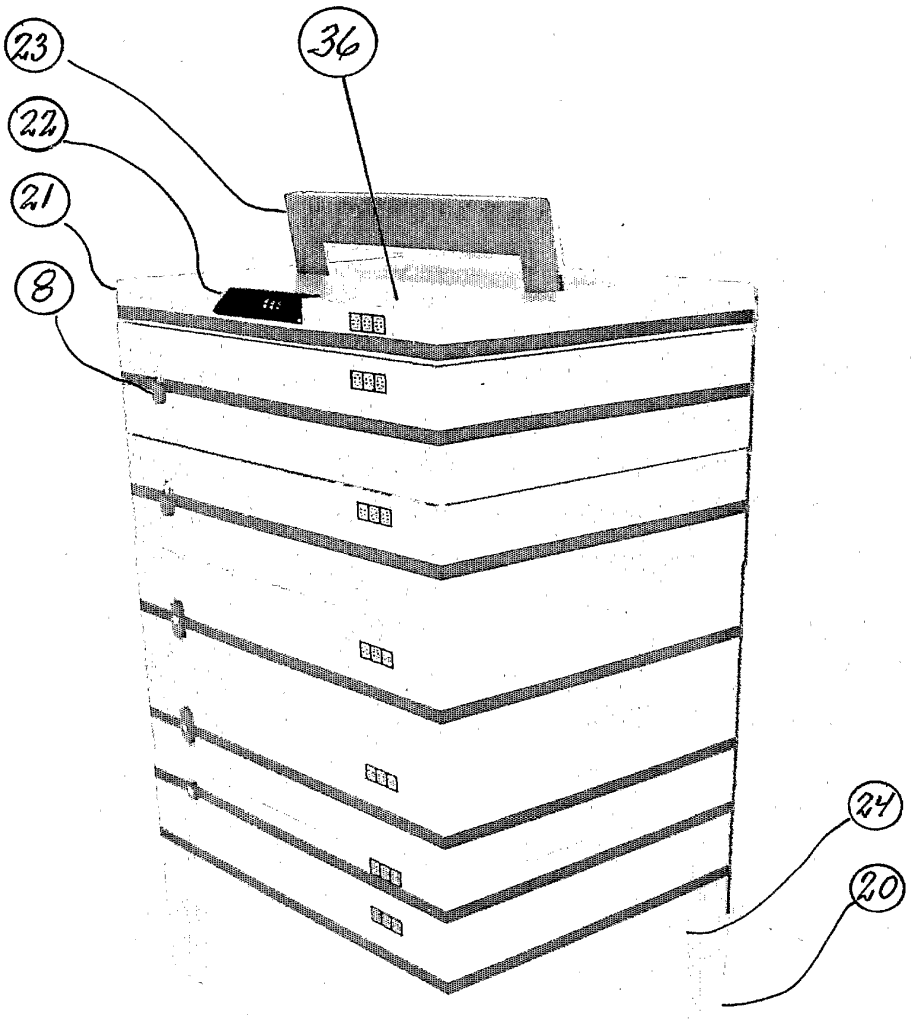


Fig. 11

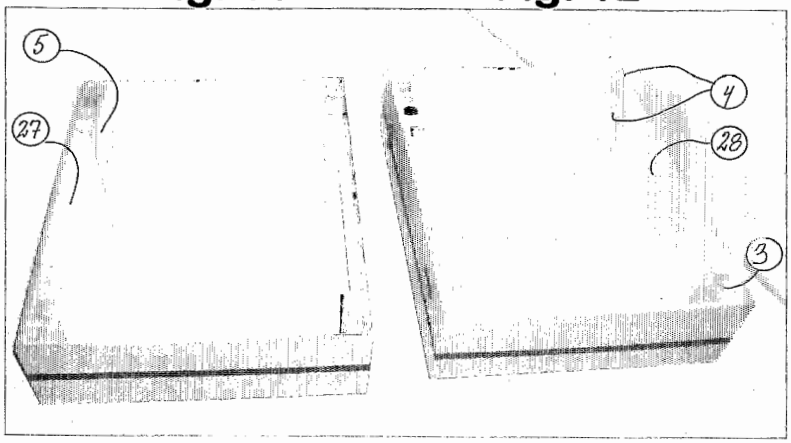


Fig. 12

Fig. 13

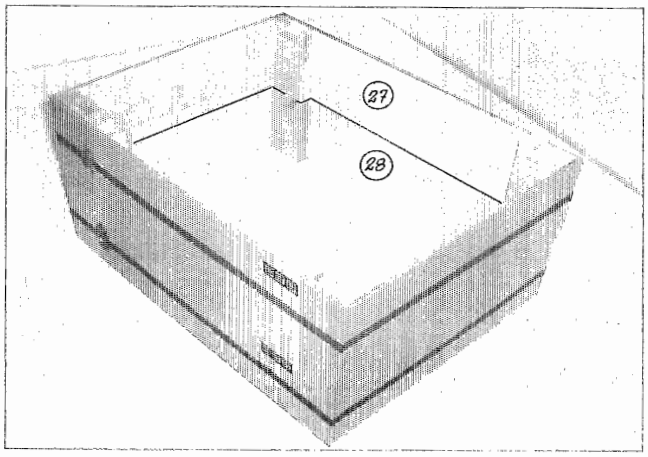


Fig. 14

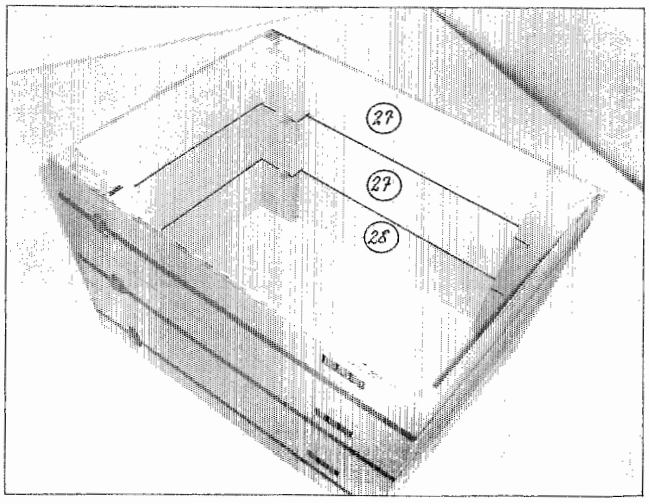


Fig. 15

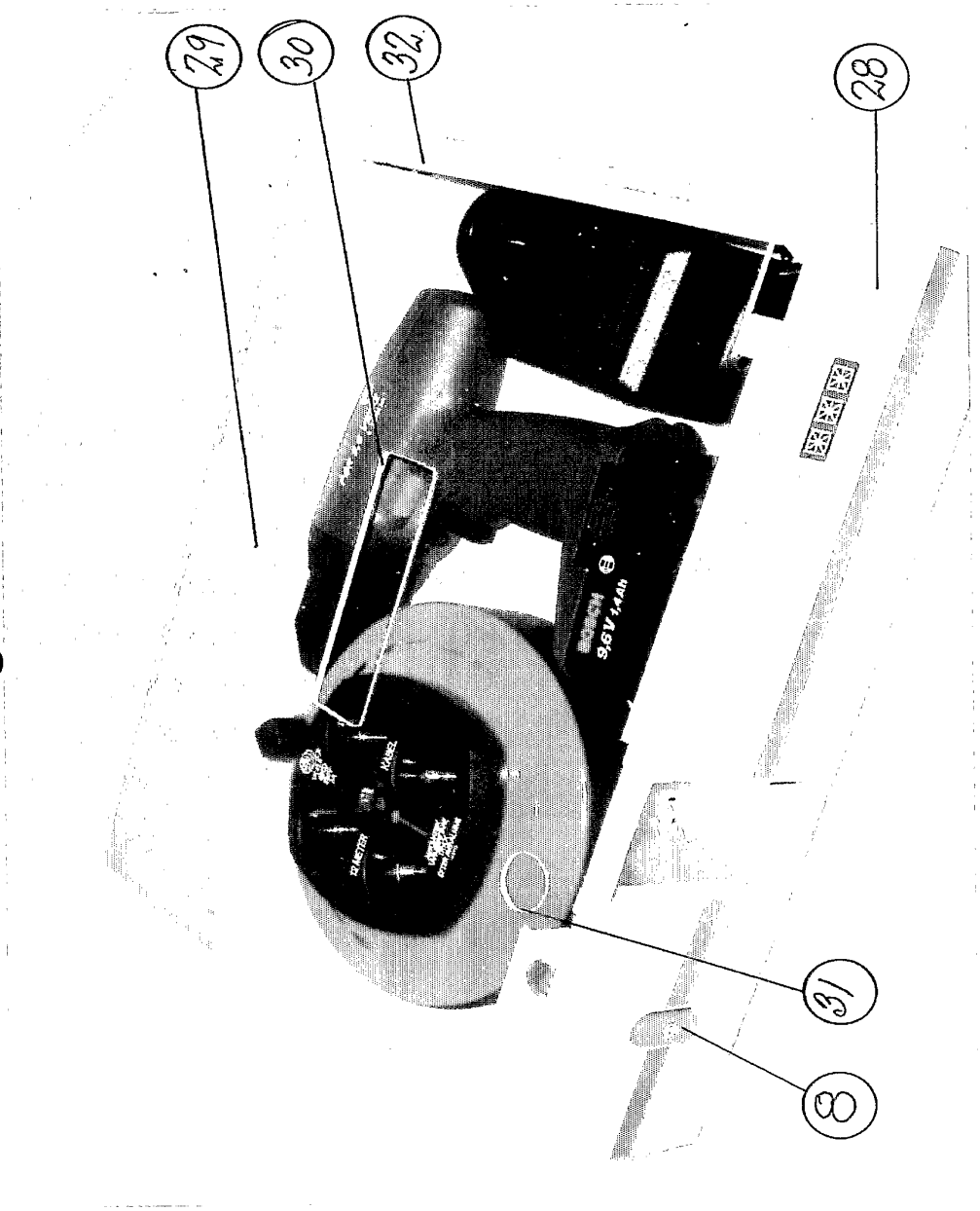


Fig. 16

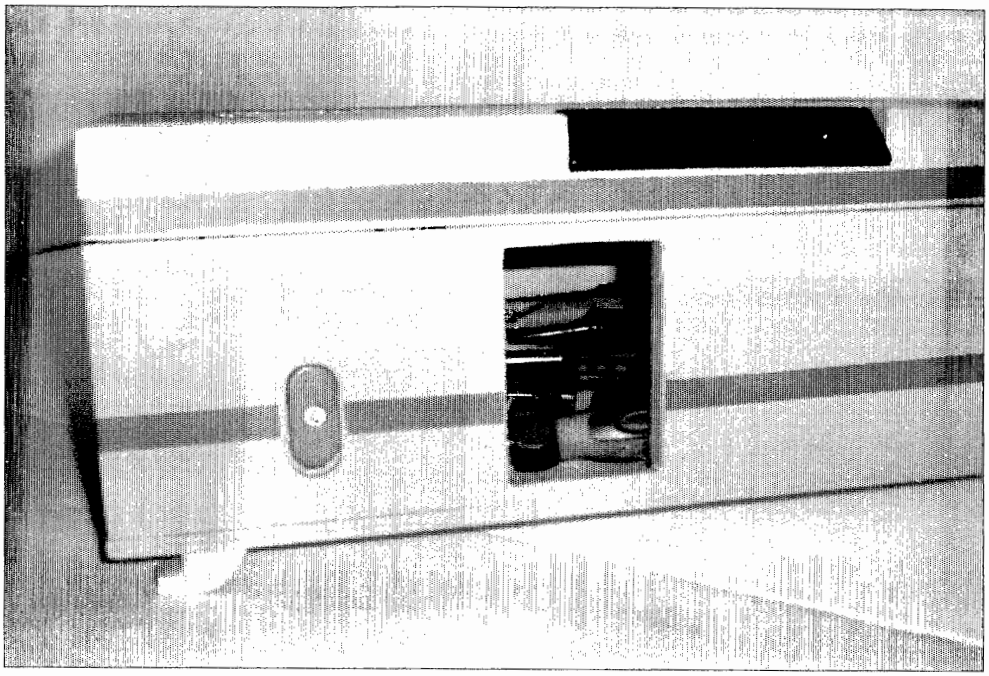
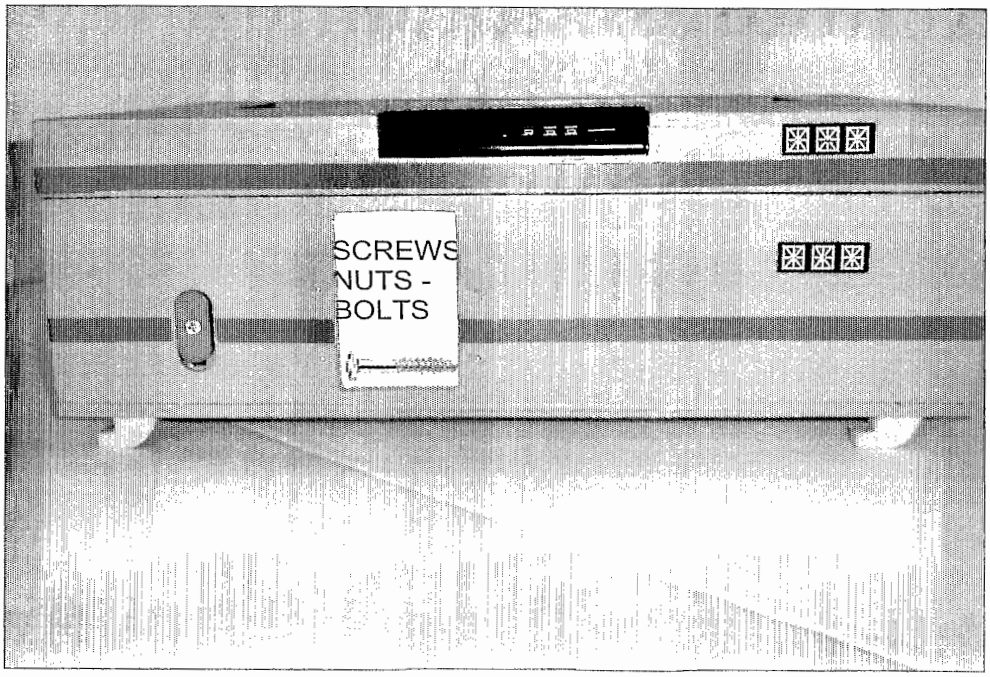


Fig. 17



INTERNATIONAL SEARCH REPORT

International application No.
PCT/DK2009/000107

A. CLASSIFICATION OF SUBJECT MATTER

B65D 21/032 (2006.01), B25H 3/02 (2006.01)
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B65D, B25H, E05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2005/021221 A1 (CARBONE) 10/March/2005	1-14
A	US 4293072 A (HILL et al.) 6/October/1981	1-14

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
06 August 2009	18 August 2009
Name and mailing address of the ISA/ Nordic Patent Institute Helgeshøj Allé 81, 2630 Taastrup, Denmark Facsimile No.	Authorized officer Lisbet Hansen Telephone No. +45 4350 8115

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known	
Application Number	15/826,232
Filing Date	November 29, 2017
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	G. R. Weinerth
Attorney Docket Number	55390-501C01US

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Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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(Based on PTO 11-07 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	15/826,232
				Filing Date	November 29, 2017
				First Named Inventor	Yaron Brunner
(Use as many sheets as necessary)				Art Unit	3736
				Examiner Name	G. R. Weinerth
Sheet	2	of	3	Attorney Docket Number	55390-501C01US

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
	A	DE-29708343-U1	07-03-1997	Fliesen Richter Gmbh		√
	B	WO-2017191628-A1	11-09-2017	Keter Plastic Ltd		
	C	WO-2007121745-A1	11-01-2007	J O Madsen Aps		
	D	WO-2007121746-A2	11-01-2007	J O Madsen Aps		
	E	WO-2009140965-A1	11-26-2009	J O Madsen Aps		
	F	WO-2011009480-A1	01-27-2011	Alfred Käercher GmbH & Co. KG		√
	G	WO-2013026084-A1	02-28-2013	Demain Technology Pty Ltd		
	H	WO-14125488-A2	08-21-2014	Keter Plastic Ltd		
	I	WO-2017212840-A1	12-14-2017	Genesis Co Ltd		√
	J	CN-102248523-A	11-23-2011	Zhejiang Prulde Electric Appliance Co., Ltd		√
	K	CN-200947356-Y	09-12-2007	Fu		√
	L	DE-102012106482-A1	01-23-2014	Sortimo Internat Ausruestungssysteme Fuer Servicefahrzeuge GmbH		√
	M	DE-102015013053-A1	04-13-2017	Plaston AG		√
	N	DE-102015112204-A1	02-16-2017	Auer Packaging GmbH		√
	O	EP-2346741-A1	07-27-2011	J O Madsen Aps		√
	P	EP-2805799-A2	11-26-2014	Festool GmbH		√
	Q	EP-3141354-A1	03-15-2017	Adolf Würth GmbH & Co KG		√
	R	GB-694707-A	07-22-1953	Chard		
	S	DE-3510307-A1	09-25-1986	Kh Wärme & Service AG		√
	T	JP-2003194020-A	07-09-2003	Takigen Mfg Co		√
	U	GB-2047181-B	02-02-1983	Ateliers Reunis		
	V	EP-1428764-B1	06-28-2006	Utz Georg Holding AG		√

Examiner Signature		Date Considered	

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Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	15/826,232
				Filing Date	November 29, 2017
				First Named Inventor	Yaron Brunner
				Art Unit	3736
(Use as many sheets as necessary)				Examiner Name	G. R. Weinerth
Sheet	3	of	3	Attorney Docket Number	55390-501C01US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	A	Sortimo Logistixx, Sortimo International GmbH, Mobile Sortimente, http://p125638.mittwaldserver.info/fileadmin/media/PDFs/Logistixx_Broschuere_DE_WEB.pdf.	
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	C	BluCave Video. https://www.youtube.com/watch?v=Sw7fQQPwOtY&feature=youtu.be&t=32.	
	D	Batavia Gmbh. BluCave Storage System. https://protect-us.mimecast.com/s/5XlGCR6KypcgJnlKi9EDoim?domain=batavia.eu.	
	E	ITS. Dewalt 171229 Dewalt TSTAK Carrier Trolley, https://www.its.co.uk/pd/171229-Dewalt-TSTAK-Carrier-Trolley-_DEW171229.htm.	
	F	Youtube. TSTAK Phase 2 Upgrades Video. https://www.youtube.com/watch?v=jb06y6J1dr4&feature=youtu.be&t=197.	
	G	Get Tools Direct. TSTAK Vac Rack (Suits DWV902M & DWV900L) DwV9500-XJ, https://www.gettoolsdirect.com.au/dewalt-tstak-vac-rack-suits-dwv902m-and-dwv900l-dwv9500-xj.html.	
	H	VERTAK. https://www.alibaba.com/product-detail/Vertak-global-patented-multi-funciton-portable_60217794260.html.	
	I	ToolGuyd. Ryobi ToolBlox Tool Cabinet System, https://toolguyd.com/ryobi-toolblox-cabinets/.	
	J	Batavia. BluCave Universal Storage System, https://batavia.eu/blucave-storage-system/.	
	K	The Greenhead. Blitz Box - Portable Storage Box/Shelf, https://www.thegreenhead.com/2013/03/blitz-box-portable-storage-box-shelf.php.	
	L	Amazon. Hopkins FloTool 91002 Thino Box with Mount, https://www.amazon.com/exec/obidos/ASIN/B003K15F3I/20140000-20.	

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88884610v.1

Electronic Patent Application Fee Transmittal

Application Number:	15826232
Filing Date:	29-Nov-2017
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Filer:	Elissa Marie Kingsland
Attorney Docket Number:	55390-501C01US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1900	1900
		Total in USD ($)		**1900**

Electronic Acknowledgement Receipt	
EFS ID:	36332333
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	18-JUN-2019
Filing Date:	29-NOV-2017
Time Stamp:	19:14:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1900
RAM confirmation Number	061919INTEFSW00006650500311
Deposit Account	500311
Authorized User	Elissa Kingsland
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	55390-501C01US_RCE.pdf	1353317 4f8d9e3a6ca937425595eb37ca93a9442d7fc666	no	3
Warnings:					
Information:					
2	Foreign Reference	DE29708343.pdf	679418 b5f1abaf673c8b1076f845b4f5e6a847ab07accf	no	14
Warnings:					
Information:					
3	Foreign Reference	WO17191628.pdf	2213497 8ad746eb245212b2134e7860d138441cc16cbba8	no	81
Warnings:					
Information:					
4	Foreign Reference	WO07121745.pdf	479390 13024e0d56199aeefa555f91dc3bf87210b9e581	no	14
Warnings:					
Information:					
5	Foreign Reference	WO07121746.pdf	483838 8e848abe6f080a2c223c9c63a83b5dea21fd50f0	no	14
Warnings:					
Information:					
6	Foreign Reference	WO09140965.pdf	1482691 9a001ccd27e4cf09c2f66426008 54cb0b08ffa0e	no	24
Warnings:					
Information:					

7	Foreign Reference	WO11009480.pdf	1464667 78338dc2d447b0f99918d65de80e38dfbc40d7f1	no	42
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8	Foreign Reference	WO13026084.pdf	749759 61587973a36e812a405d3326c3d37b830cdfdf88	no	25
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9	Foreign Reference	WO14125488.pdf	2071118 f00d665cbe63cb9c454e116205f4670d937c285c	no	72
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Information:					
10	Foreign Reference	WO17212840.pdf	310871 580ba03cb5827681c98b6b525294824 5f29dbe91	no	25
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Information:					
11	Foreign Reference	GB694707.pdf	232022 b2c6b23a587175c469e19a3d98a6c9944e63d30e	no	4
Warnings:					
Information:					
12	Foreign Reference	GB2047181B.pdf	539746 36eb90095d02c25a8aa1d9096cd593cc039d3dc6	no	9
Warnings:					
Information:					
13	Foreign Reference	EP1428764.pdf	1199132 217ab500abc5f0ae1b80a3696e72ea41cfaa56d2	no	26
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14	Non Patent Literature	Sortimo-Logistixx_Mobile_Sortimente.pdf	22989309 4d9b05bb65433747af7530537da67dc23a4fc5f8	no	17
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Information:					
15	Non Patent Literature	Systainer_Sys-Cart_Base.pdf	5068368 11370d716c3f77319ddc9bf94a7312c4c11fdd61	no	11
Warnings:					
Information:					
16	Non Patent Literature	Batavia_blucave_storage_system.pdf	8170412 d43f30fd679c5fde3d3c5d0e30e07b80461d1e84	no	7
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17	Non Patent Literature	DeWalt_171229_TSTAK_Carrier_Trolley.pdf	1223959 b3133d4788504ba2af78df22fc9d23df0ca3f929	no	3
Warnings:					
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18	Non Patent Literature	DeWalt_TSTAK_Vac_Rack_DWV9500-XJ.pdf	729162 17eee097a628125c76f961b76ba476b8f91ad292	no	4
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19	Non Patent Literature	Ryobi_ToolBlox_Tool_Cabinet_System.pdf	6687646 248022cd24f8fe79ec62b2a2b618e65d5b6ec176	no	23
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20	Non Patent Literature	Batavia__blucave_storage_system.pdf	8170412 d43f30fd679c5fde3d3c5d0e30e07b80461d1e84	no	7
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21	Non Patent Literature	Blitz_Box_Portable_Storage_Box_Shelf.pdf	4344907 6c69e7e3c175c93f330aa83d750dd07baf913cd3	no	5
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22	Non Patent Literature	Hopkins_FloTool_91002_Rhino_Box_with_Mount.pdf	1864053 0ab4bae69c4e986832defc12abf89df485d35171	no	7
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23	Non Patent Literature	Youtube_TSTAK_Phase_2_Upgrades_Screenshot.pdf	156163 5e6a75ebdc9803a73785851a9250b50941cd86e8	no	1
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Information:					
24	Foreign Reference	CN102248523.pdf	9004758 2abac95ede2328dc2295438b960fd587cee3fa82	no	14
Warnings:					
Information:					
25	Foreign Reference	CN200947356.pdf	3067622 ae06e3ec9963a01559def0fd325ed57aac1f2e22	no	7
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26	Foreign Reference	DE102012106482.pdf	4837590 55557f8813589de745222d56cc81327b23e897f0	no	8
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Information:					
27	Foreign Reference	DE102015013053.pdf	18058382 336b9e92455d3167e494bf83c839753f01c66479	no	25
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Information:					

28	Foreign Reference	DE102015112204.pdf	16641102 a8e47f51d61f005e7544a93e86e15d3ca4a21087	no	17
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Information:					
29	Foreign Reference	EP2805799.pdf	15263258 5acc5bdc49b6681a9c03f8683e1bbc762efbe664	no	14
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30	Foreign Reference	EP3141354.pdf	25897431 82791f1716f9f951a9347de1d2f205abe90c82da	no	45
Warnings:					
Information:					
31	Foreign Reference	DE3510307.pdf	7181477 9ba4a8ae24b0301160f3b0353c5ab5d29a87eb82	no	17
Warnings:					
Information:					
32	Foreign Reference	JP2003194020.pdf	7983522 3f2664328ebe75d7bd3a93f2832c233ade340e64	no	10
Warnings:					
Information:					
33	Transmittal Letter	055390-501C01US_IDS_transmittal.pdf	106384 2b4c09e4a92665a0aa2918843d119d97b7ec64d8	no	2
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34	Foreign Reference	EP2346741.pdf	1793512 3c625009aebf0a71e0e3b5abe6338a5184265ee8	no	25
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35	Information Disclosure Statement (IDS) Form (SB08)	055390-501C01US_IDS.pdf	180671 172b2b04515cfff09c1232a937d087436193 45fa	no	3
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36	Fee Worksheet (SB06)	fee-info.pdf	30333 479e52927397f06f5081607552f9d63c58fb 49a0	no	2
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		Total Files Size (in bytes):	182709899		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	D814187	S	2018-04-03	Caglar	
	2	8714355	B2	2014-05-06	Huang	
	3	D790221	S	2017-06-27	Yahav et al.	
	4	D770179	S	2016-11-01	Menirom	
	5	D765974	S	2016-09-13	Tonelli et al.	
	6	D753395	S	2016-04-12	Brunner	
	7	D753394	S	2016-04-12	Brunner	
	8	D525789	S	2006-08-01	Hosking	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

	9	D837515	S	2019-01-08	Shpitzer	
	10	D833744	S	2018-11-20	Yahav et al.	
	11	D701696	S	2014-04-01	Shitrit et al.	
	12	D674605	S	2013-01-22	Vilkomirski et al.	
	13	D630851	S	2011-01-18	Landau et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-07-02
Name/Print	Elissa M. Kingsland	Registration Number	63,259

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EFS ID:	36474671
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	02-JUL-2019
Filing Date:	29-NOV-2017
Time Stamp:	11:51:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	055390-501C01US_IDS_transmittal.pdf	101113 950a36bcdb8a7f0e9c64c13b55b826110013e7ca	no	2

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	055390-501C01US_IDS.pdf	1067937 0c20d2032d70c42ad455b3554a70ad30c3f97de4	no	5
Warnings:					
Information:					
		Total Files Size (in bytes):	1169050		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Yaron Brunner et al.	Allowed: June 7, 2019
Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3736
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114 (37 C.F.R. § 1.97(b)(4)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to the patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: July 2, 2019

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

89252166v.1

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2174
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15826232
Filing Date	2017-11-29
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	Gideon R. Weinerth
Attorney Docket Number	55390-501C01US

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	1	000705231-0001	EM		2007-04-12	Terry Store-Age S.P.A.		
	2	002419283-0001	EM		2014-03-06	Keter Plastic Ltd.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	Gideon R. Weinerth
	Attorney Docket Number	55390-501C01US

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	Gideon R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

✓ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-07-18
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

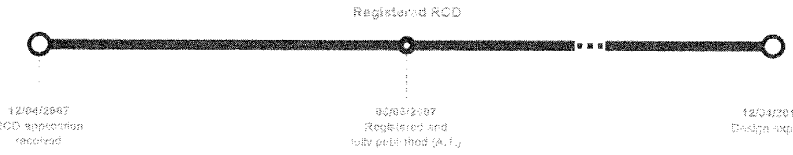
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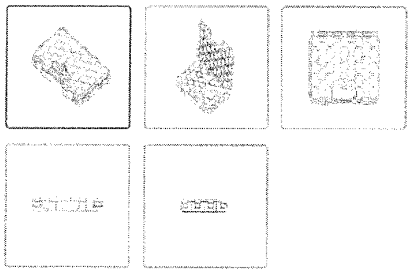
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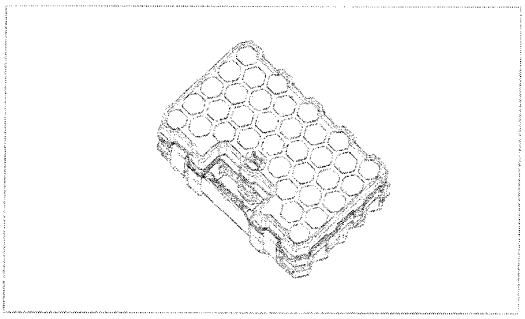
000705231-0001

Timeline



Graphic representation





Design information

Design number	000705231-0001	Filing language	ITALIAN
Name		Second language	ENGLISH
Filing date	12/04/2007	Reference	O.13537
Registration date	12/04/2007	Vienna Classification	
Expiry date	12/04/2012	Verbal element	
Design status	Design lapsed		

Indication of the product, (DesignClass)

Locarno	03.01
Values	Suitcases

English

Owners

TERRY STORE-AGE S.P.A.

ID	79885	Country	IT - Italy	Correspondence address	
Organisation	TERRY STORE-AGE S.P.A.	State/county	n/a	TERRY STORE-AGE S.P.A. Via Rembrandt, 27	Hidden. You can set your contact details to be publicly available via the User Area.
Legal status	Legal entity	Town	Milano	I-20147 Milano ITALIA	
		Post code	20147		

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2179
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

	Address	**Via Rembrandt, 27**		Hidden. You can set your contact details to be publicly available via the User Area.
				Hidden. You can set your contact details to be publicly available via the User Area.

Representatives

UFFICIO BREVETTI RAPISARDI S.R.L.

ID	**15058**	Country	**IT - Italy**	**Correspondence address**	Hidden. You can set your contact details to be publicly available via the User Area.
Organisation	**n/a**	State/county	**n/a**	UFFICIO BREVETTI RAPISARDI S.R.L. Via Serbelloni, 12 I-20122 Milano ITALIA	
Legal status	**Legal person**	Town	**Milano**		
Type	**Association**	Post code	**20122**		Hidden. You can set your contact details to be publicly available via the User Area.
		Address	**Via Serbelloni, 12**		Hidden. You can set your contact details to be publicly available via the User Area.

Designers

No data

Exhibition priority

No data

Priority

No data

Publications

Bulletin number	Date	Section	Description
2007/083	05/06/2007	A.1	Applications published under Articles 48 and 50 CDR
2013/024	04/02/2013	C.2	Expired registrations

Showing 1 to 2 of 2 entries

Recordals

No data

Appeals

No data

Decisions

No data

Renewals

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Documents

	Date	Type	Procedure	File	Portfolio	Language	Pages	Actions
	28/10/2010	certi	RCD	000705231-0001				

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Registered / Eingetragen 06/03/2014

No 002419283-0001

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This Certificate of Registration is hereby issued for the Registered Community Design identified below. The corresponding entries have been recorded in the Register of Community Designs.

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MARKEN, MUSTER UND MODELLE

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The President / Der Präsident

António Campinos

(21) 002419283-0001
(25) EN - DE
(22) 06/03/2014
(15) 06/03/2014
(45) 10/03/2014
(11) 002419283-0001
(72) Yaron BRUNNER
(73) Keter Plastic Ltd.
2 Sapir Street Industrial Zone
Herzelyia 4685206
ISRAEL
(74) MODIANO JOSIF PISANTY & STAUB LTD
Thierschstr. 11
D-80538 München
ALEMANIA
(51) 03 - 01
(54) BG - Сандъчета за инструменти

ES - Estuches de herramientas

CS - Kufříky na nářadí

DA - Værktøjskasser

DE - Taschen (Werkzeug-)

ET - Tööriistakastid

EL - Εργαλειοθήκες

EN - Tool cases

FR - Trousses à outils [contenants]

IT - Custodie per attrezzi

LV - Darbarīku somas

LT - Įrankių dėžutės dėklai

HR - Kutije za alat

HU - Szerszámtartók

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PL - Skrzynki narzędziowe

PT - Estojos de ferramentas

RO - Lăzi pentru unelte

SK - Kufríky na náradie

SL - Kovčki za orodje

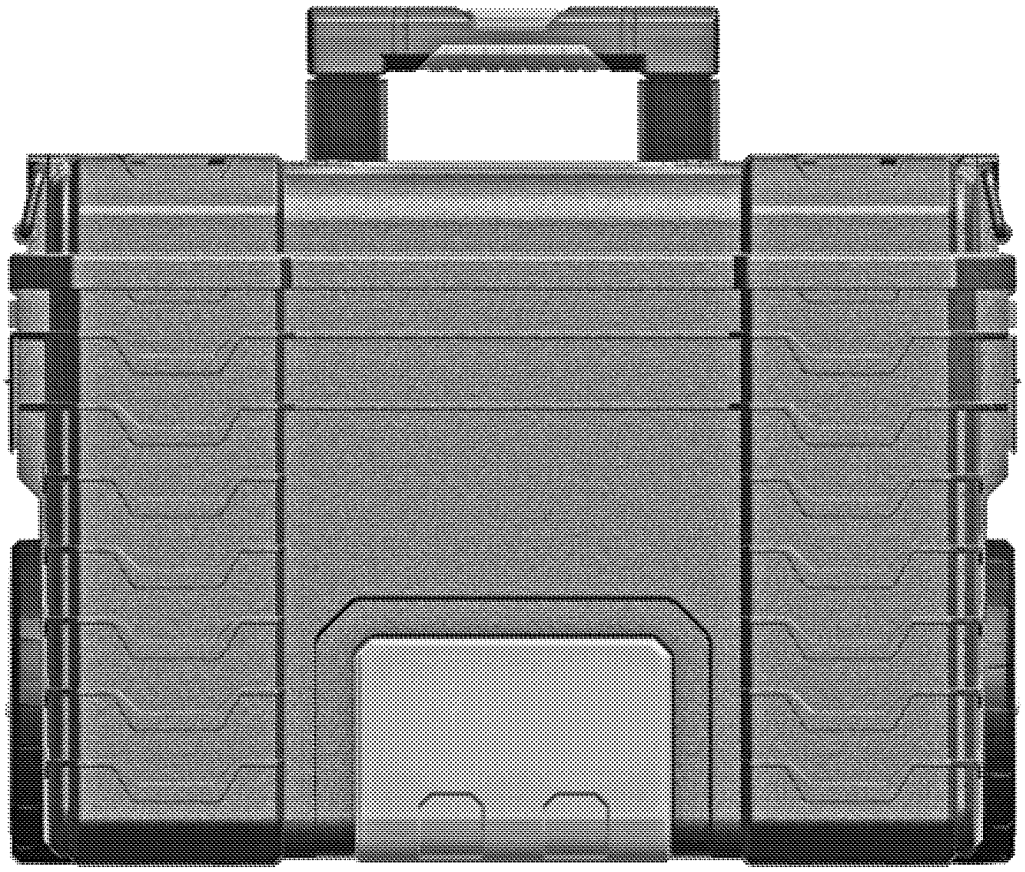
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SV - Verktygsfodral

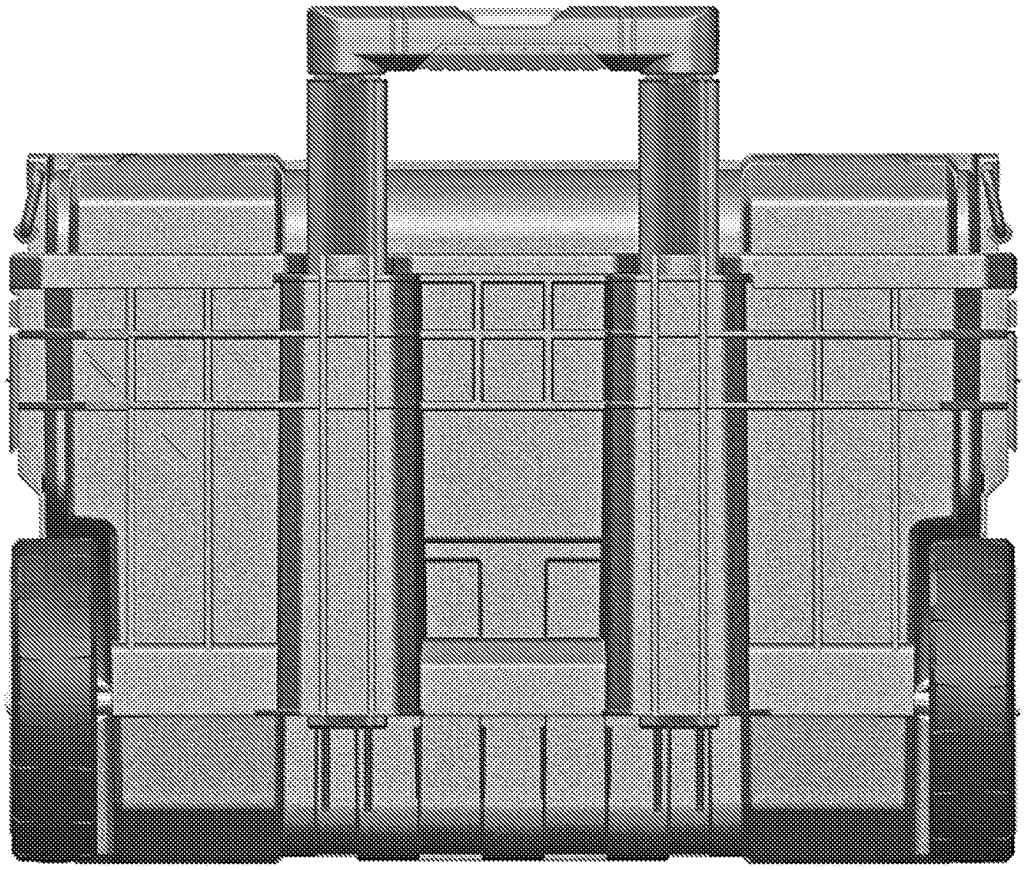
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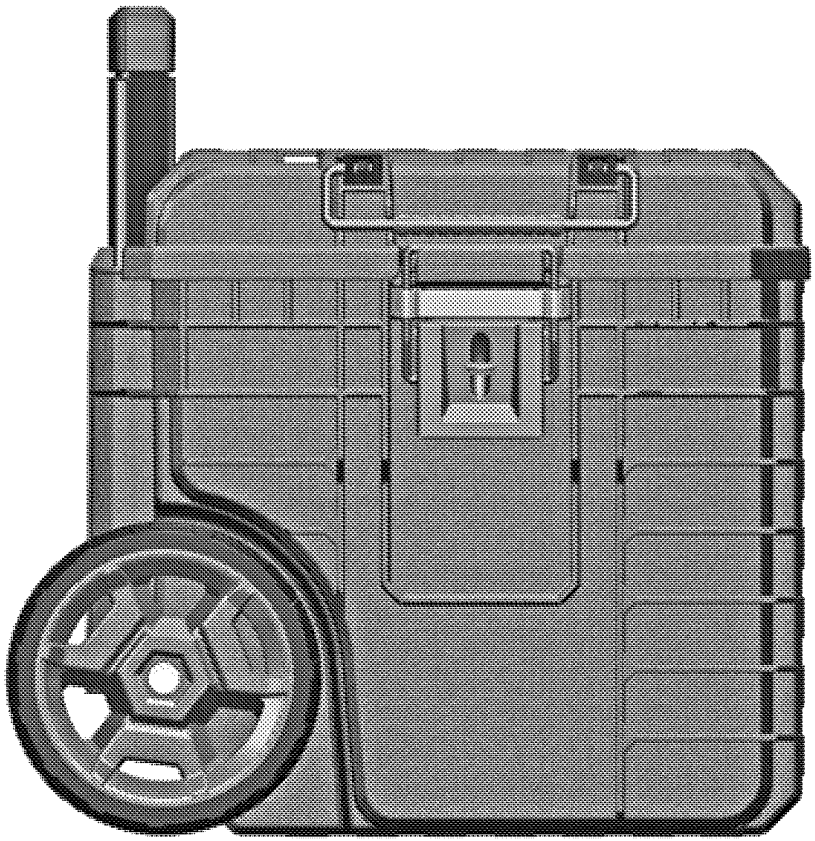
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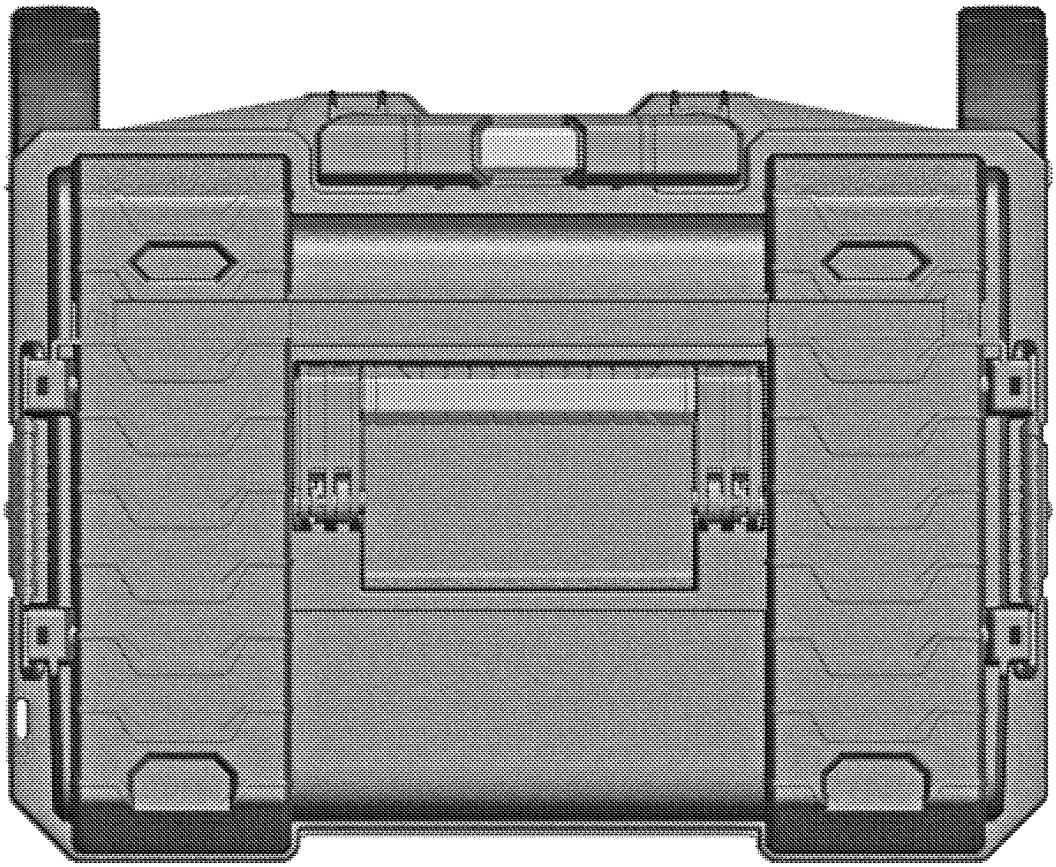
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0001.5

Electronic Acknowledgement Receipt

EFS ID:	36619679
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland/Dahlia Griffin
Filer Authorized By:	Elissa Marie Kingsland
Attorney Docket Number:	55390-501C01US
Receipt Date:	18-JUL-2019
Filing Date:	29-NOV-2017
Time Stamp:	10:40:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	055390-501C01US_SB08.pdf	1080260 d57e6c70ee4b14035cea4701100211389aa142ff	no	4
Warnings:					
Information:					
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		Total Files Size (in bytes):	12485775		

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New Applications Under 35 U.S.C. 111

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New International Application Filed with the USPTO as a Receiving Office

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Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232 | Confirmation No.: 1070

Filed: November 29, 2017 | Art Unit: 3736

For: UTILITY ASSEMBLY AND COUPLING MECHANISM | Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

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Submitted herewith are copies of foreign patents in accordance with 37 C.F.R. § 1.98(a)(2).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to the patentability as defined in 37 C.F.R. § 1.56(b).

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Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: July 18, 2019

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2192
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15826232
Filing Date	2017-11-29
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	G. R. Weinerth
Attorney Docket Number	55390-501C01US

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20090178946	A1	2009-07-16	Patstone et al.	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-08-20
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	36922934
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	20-AUG-2019
Filing Date:	29-NOV-2017
Time Stamp:	13:04:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	055390-501C01US_IDS_transmittal.pdf	105649 2ffb6aef69de585493497d60a42b8385edbdabed	no	2
Warnings:					

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	055390-501C01US_IDS.pdf	1066433 e76669698236a3db10405d89a319f51bc43102e5	no	4
Warnings:					
Information:					
		Total Files Size (in bytes):	1172082		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3736
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114 (37 C.F.R. § 1.97(b)(4)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: August 20, 2019

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2200
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

30623 7590 08/26/2019

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 08/26/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	11/26/2019

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 02/11)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2201
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

30623 7590 08/26/2019
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	11/26/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINERTH, GIDEON R	3736	206-501000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2202
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

30623 7590 08/26/2019

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 08/26/2019

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 02/11)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2203
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/826,232	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 6/18/2019.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are See Continuation Sheet . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 5/1/2019, 6/18/2019, 7/2/2019, 7/18/2019.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2205
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Continuation of 3. The allowed claim(s) is/are: 1-2,6-11,13-19 and 21-23

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: The Amended Claims of 2/12/2019 incorporate allowable subject matter indicated in the Office Action of 11/28/2018. Specifically, Amended Claim 1 recites a single depressed locking location (244) having two locking ribs (248) that form the coupling engagement as seen in Figure 8A. Claim 6 recites two locking ribs (312A and 312B – Figure 12C) in two neighboring depressions (308A and 308B). These two ribs in two neighboring depressions serve as the female coupler as discussed in Specification Page 32 Lines 6-14 to hold an item in an offset position from the depressions.

Furthermore, the newly submitted references of June 18, 2019, July 2, 2019, and July 18, 2019 do not raise any additional issues regarding the determination of patentability.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is (571)270-5121. The examiner can normally be reached on Monday-Friday 10AM-6PM EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Pickett can be reached on (571) 272-4560. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

CPC - Searched*		
Symbol	**Date**	**Examiner**
A47B47/00	6/6/2018	GW
A47B67/04	6/6/2018	GW
A47B87/02,007,0276	6/6/2018	GW
B65D21/0224,02,0223,0212,0217,0219,0222,0228,023,	6/6/2018	GW
B65D25/2823,06	6/6/2018	GW
B25H3/021,022,023,04,06	6/6/2018	GW
Y10T403/7045	6/6/2018	GW
A47B87/02	11/23/2018	GW
A47B88/90	11/23/2018	GW
B25H3/02	11/23/2018	GW
B65D21/0204	11/23/2018	GW
A45C7/0045	2/20/2019	GW
A45C5/14	2/20/2019	GW
B65D21/00	2/20/2019	GW
Update search from co-pending Applications 15826201, 16216724	02/20/2019	GW
Update Search for IDS filed 4/17/2019	04/26/2019	GW
Update Search, Include KO (US 2014/0161518)	06/04/2019	GW
Update Search, include references from IDS of 6/18/19, 7/2/19, 7/18/19	08/18/2019	GW

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**
		GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/G.W./ Examiner.Art Unit 3728

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2209
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

US Classification - Searched*			
Class	Subclass	Date	Examiner
206	508,511,504,302,501	6/6/2018	GW
280	47.18,47.19,47.26,79.2	6/6/2018	GW
312	107,111	11/23/2018	GW
280	47.26,47.28,652	11/23/2018	GW

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Update search from Application 16216724 and 15826201	02/20/2019	GW

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
A45C7	0045	2/20/2019	GW
A47B47	00	2/20/2019	GW
A47B67	04	2/20/2019	GW
A47B87	02,007,00276	2/20/2019	GW
A47B88	90	2/20/2019	GW
B65D21	0024,02,00,0223,0212,0217,0219,0222,0228,023,0204	2/20/2019	GW
B65D25	2823,06	2/20/2019	GW
B25H3	021,02,022,023,04,06	2/20/2019	GW
Y10T403	7045	2/20/2019	GW
206	508,511,504,302,501	2/20/2019	GW
280	47.18,47.19,47.26,79.2,47.28,652	2/20/2019	GW
312	107,111	2/20/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/G.W./ Examiner.Art Unit 3728

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2210
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	06/08/2018	11/23/2018	02/21/2019						
	1	✓	✓	=						
	2	✓	✓	=						
	3	✓	-	-						
	4	✓	-	-						
	5	✓	O	-						
	6	✓	O	=						
	7	✓	✓	=						
	8	✓	✓	=						
	9	✓	✓	=						
	10	✓	✓	=						
	11	✓	✓	=						
	12	✓	O	-						
	13	✓	✓	=						
	14	✓	✓	=						
	15	✓	✓	=						
	16	✓	✓	=						
	17	✓	✓	=						
	18	✓	✓	=						
	19	✓	✓	=						
	20	✓	-	-						
	21		✓	=						
	22		✓	=						
	23			=						

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2211
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

CPC						
Symbol					**Type**	**Version**
B65D	/	21	/	0223	F	2013-01-01
B25H	/	3	/	02	I	2013-01-01
A45C	/	13	/	02	I	2013-01-01
B25H	/	3	/	021	I	2013-01-01
B65D	/	21	/	0209	I	2013-01-01
A45C	/	5	/	14	I	2013-01-01
A45C	/	7	/	005	I	2013-01-01
A45F	/	3	/	10	I	2013-01-01
B62B	/	1	/	14	I	2013-01-01
B65D	/	21	/	0228	I	2013-01-01
B25H	/	1	/	04	I	2013-01-01
B65H	/	2701	/	533	A	2013-01-01
A45C	/	7	/	0045	A	2013-01-01
B25H	/	3	/	023	A	2013-01-01
B62B	/	5	/	067	A	2013-01-01
B65D	/	2255	/	00	A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

/GIDEON R WEINERTH/ Examiner, Art Unit 3736		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	19 August 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6A

U.S. Patent and Trademark Office — Part of Paper No.: 20190818

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2212
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B65D	/	21	/	02
	/		/	
B25H	/	3	/	02

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
206	501

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					
206	504	508	511			
280	47.18					

/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner)	19 August 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 6A

U.S. Patent and Trademark Office — Part of Paper No.: 20190818

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2213
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	12	10	17	19										
2	2	13	11		20										
	3		12	6	21										
	4	14	13	18	22										
	5	15	14	8	23										
7	6	3	15												
9	7	4	16												
10	8	16	17												
11	9	5	18												

/GIDEON R WEINERTH/ Examiner, Art Unit 3736		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	19 August 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6A

U.S. Patent and Trademark Office — Part of Paper No.: 20190818

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2214
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	Gideon R. Weinerth
	Attorney Docket Number	55390-501C01US

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
/G.R.W/	1	000705231-0001	EM		2007-04-12	Terry Store-Age S.P.A.		
/G.R.W/	2	002419283-0001	EM		2014-03-06	Keter Plastic Ltd.		

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	Gideon R. Weinerth
	Attorney Docket Number	55390-501C01US

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	08/18/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	Gideon R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

✓ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-07-18
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

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PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	15826232
Filing Date	2017-11-29
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	G. R. Weinerth
Attorney Docket Number	55390-501C01US

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.R.W/

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	D814187	S	2018-04-03	Caglar	
	2	8714355	B2	2014-05-06	Huang	
	3	D790221	S	2017-06-27	Yahav et al.	
	4	D770179	S	2016-11-01	Menirom	
	5	D765974	S	2016-09-13	Tonelli et al.	
	6	D753395	S	2016-04-12	Brunner	
	7	D753394	S	2016-04-12	Brunner	
/G.R.W/	8	D525789	S	2006-08-01	Hosking	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.R.W/

/G.R.W/	9	D837515	S	2019-01-08	Shpitzer	
	10	D833744	S	2018-11-20	Yahav et al.	
	11	D701696	S	2014-04-01	Shitrit et al.	
	12	D674605	S	2013-01-22	Vilkomirski et al.	
/G.R.W/	13	D630851	S	2011-01-18	Landau et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	08/18/2019

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Examiner Name	G. R. Weinerth
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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-07-02
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13	("8714355" | "D525789" | "D630851" | "D674605" | "D701696" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D833744" | "D837515").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:38
L2	46	(US-14125488-$ | US-1428764-$ | US-2970358-$ | US-20140000-$ | US-2047181-$ | US-2346741-$ | US-2805799-$ | US-29708343-$ | US-3141354-$ | US-3510307-$ | US-4168076-$ | US-5035445-$ | US-5301829-$ | US-6109627-$ | US-6347847-$ | US-6367631-$ | US-6431580-$ | US-6601930-$ | US-6945546-$ | US-6948691-$ | US-6983946-$ | US-7044484-$ | US-7066475-$ | US-7147243-$ | US-7658887-$ | US-7780026-$ | US-8028845-$ | US-8454033-$ | US-8985922-$ | US-20020171228-$ | US-20030146589-$ | US-20040103494-$ | US-20040206656-$ | US-20050062244-$ | US-20050104308-$ | US-20080121547-$ | US-20080169739-$ | US-20090145913-$ | US-20100052276-$ | US-20140161518-$ | US-20170138382-$ | US-20190106244-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:41
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L4	2	(("5984441") or ("20100224527")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:45
L5	1	("20180373126").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:56
L6	0	("2018/0373126").URPN.	USPAT	OR	OFF	2019/08/18 22:56
S1	2	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 19:40
S2	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:41
S3	1	("20100163562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:44

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S4	22	("5699925" | "6959507" | "20090139892" | "20090236255" | "5469961" | "20030155267" | "20080308641" | "3182856" | "5353948" | "3581928" | "4351448" | "20090178989" | "2634020" | "3387732" | "5755180" | "6761266" | "7246718" | "7246718" | "5606820" | "4351448" | "20090236255" | "20050224494" | "5469961").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:51
S5	134	("2733830" | "2746081" | "3077282" | "3285464" | "3315796" | "3376046" | "3381844" | "3405836" | "4109821" | "4302866" | "4401312" | "4431114" | "4844263" | "5062539" | "5096084" | "5312011").PN. OR ("5699925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:52
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S7	42	("3098686" | "4391478" | "4452003" | "4662515" | "4768651" | "4901664" | "5176281" | "5244265" | "5344339" | "5624029" | "5685421" | "5699925" | "5938023").PN. OR ("6193062").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:57
S8	165	(KETER adj PLASTIC).as.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:00
S9	38	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:01
S10	1031	206/508.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:06
S11	206	S10 and (spring resilient)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:07
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S14	66	("0353600" | "0888611" | "2111884" | "2256024" | "2670892" | "3145870" | "3341053" | "3343670" | "3353665" | "3369658" | "3419176").PN. OR ("3933268").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:12
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S16	26	("2812099" | "2980751" | "3147151" | "3167458" | "3338452" | "3341053" |	US-PGPUB;	OR	OFF	2018/04/05 20:14

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		"3745048" | "3767468" | "3933268" | "3944074" | "4113926").PN. OR ("4339049").URPN.	USPAT; USOCR			
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S18	121	206/503.ccls. and (spring)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:19
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S20	3773	280/47.18,47.19,47.26,79.2.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
S21	891	280/47.18,47.19,47.26,79.2.ccls. and (spring)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
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S24	3	(("20020014488") or ("4113214") or ("3845968")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:35
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S36	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:11
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S38	31	("2626025" | "3331529" | "3346137" | "3749273" | "3811747" | "3836043").PN. OR ("4813542").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:13
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S44	16	("3469331" | "4716666").PN. OR ("4995176").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:24
S45	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:25
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S47	46	("1849659" | "2774511" | "2916293" | "2994457" | "3053397" | "3100582" | "3113680" | "3219232" | "3282458" | "3647112" | "4000817" | "4176747" | "Re26758" | "Re27649").PN. OR ("4550837").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:30
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S49	92	B65D21/0217,0219,0222,0228,023.cpc. and spring	US-PGPUB;	OR	OFF	2018/04/05 21:33

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			USPAT; USOCR			
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S60	73	("20030029750" | "20030123965" | "20050072642" | "20050077136" | "20060119060" | "20070012694" |	US-PGPUB; USPAT;	OR	OFF	2018/04/05 21:53

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		"20070068757" | "2497173" | "3061057" | "3452846" | "3532355" | "3572253" | "3650216" | "3861703" | "3891230" | "4081061" | "4118048" | "4122925" | "4350194" | "4621716" | "4657135" | "4693345" | "4738340" | "4792025" | "4813521" | "4951818" | "5038842" | "5048649" | "5109961" | "5142445" | "5178244" | "5186290" | "5197579" | "5339934" | "5373104" | "5379870" | "5407039" | "5447216" | "5484045" | "5484046" | "5632496" | "5713439" | "5890571" | "5927361" | "6073737" | "6116390" | "6164425" | "6213266" | "6401890" | "6520327" | "6585090" | "6634496" | "6758334" | "6976566" | "7077252" | "7232018" | "7380685" | "7398868" | "7726483" | "7780002" | "7942282" | "D294775" | "D453623").PN. OR ("8561769").URPN.	USOCR			
S61	44	("20040007574" | "20050036847" | "20050199459" | "20070130731" | "20090178946" | "20120292867" | "3419184" | "3987829" | "4287997" | "4452555" | "5058746" | "5085448" | "5186330" | "5564805" | "5709008" | "5785328" | "6116390" | "6983946" | "7011214" | "7044528" | "7163122" | "7350789" | "7482928" | "7530580" | "7537119" | "7714708" | "7780026" | "7854321" | "7883096" | "7938412" | "8132819" | "8146771" | "8256242" | "8561769" | "8567796" | "D358765" | "D401412" | "D467424" | "D467425" | "D467426" | "RE44656").PN. OR ("9550605").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:59
S62	10	("20050199623" | "5765707" | "5829595" | "6024223" | "7337908").PN. OR ("8146771").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:03
S63	42	("0621601" | "2761582" | "3113690" | "3616943" | "3643993" | "3823973" | "3828964" | "3977558" | "4000704" | "4042111" | "4416374" | "4678084" | "4887731" | "5011036" | "5022546" | "5105967").PN. OR ("5186330").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:05
S64	74	("0879455" | "2849151" | "3005282" | "3371816" | "3393858" | "3481502").PN. OR ("3616943").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:08
S65	36	("1234730" | "20020145022" | "20030010799" | "20040207225" | "20090212584" | "2578238" | "2883764" | "3002650" | "3131829" | "3351228" | "3374914" | "3616943" | "4754883" | "4838745" | "4941784" | "5025964" | "5392945" | "5469999" | "5538153" | "5671511" | "5676251" | "5687895" | "5855310" | "6471278" | "7159730" | "7329451" | "7537119" | "D264014" | "D333094").PN. OR ("9738198").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:09
S66	75	("0879455" | "20040178208" | "20060254947" | "2695115" | "2849151" |	US-PGPUB;	OR	OFF	2018/04/05 22:10

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		"2939603" | "3103278" | "3117692" | "3383009" | "3391824" | "3419184" | "3481502" | "3616943" | "3754645" | "3756396" | "3759416" | "3811747" | "3968879" | "4287997" | "4655360" | "4671411" | "4765252" | "4832200" | "4848605" | "5042674" | "5203494" | "5392945" | "5454477" | "5566824" | "5641090" | "5718350" | "5769230" | "5779051" | "6021916" | "6085467" | "6186345" | "6237758" | "6308858" | "6367630" | "6371364" | "6457599" | "6585090" | "6662950" | "7163122" | "D333094" | "D361715" | "D446017" | "D500924").PN. OR ("7537119").URPN.	USPAT; USOCR			
S67	45	("0491865" | "1142932" | "1665238" | "20060016812" | "20070108080" | "20080264820" | "20100084119" | "3144016" | "3259263" | "3369691" | "3384259" | "3828964" | "4109789" | "4655360" | "4760921" | "4901380" | "5086926" | "5203494" | "5461755" | "5564583" | "5671856" | "5699925" | "5769230" | "6024223" | "6085467" | "6186345" | "6237758" | "6273258" | "6457599" | "6715627" | "6840378" | "6851566" | "7510096" | "7537119" | "8056722" | "RE37518").PN. OR ("8813960").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:11
S68	32	("4506798" | "4626155" | "4741449" | "5109985" | "5123541" | "5190179" | "5722328" | "5862917").PN. OR ("6024223").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:12
S69	4	("1665238").URPN.	USPAT	OR	OFF	2018/04/05 22:15
S70	39	("2885135" | "3376046" | "3539071" | "3568879" | "3987829" | "4174950" | "4765252" | "4844263" | "D248015").PN. OR ("D333094").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:17
S71	53	("2761582" | "3117692" | "3360162" | "3379341" | "3392875" | "3419184" | "3675815" | "3759416" | "3979016" | "4093071" | "4106624" | "4189052" | "4379508").PN. OR ("4832200").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:19
S72	79	("3117692").URPN.	USPAT	OR	OFF	2018/04/05 22:22
S73	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:24
S74	13	("20060186186" | "20070209962" | "20080202976" | "2328689" | "2828059" | "3811566" | "4279354" | "4293071" | "6315126").PN. OR ("8684222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:25
S75	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:26
S76	110	("2457842" | "2483464" | "2664219" | "2702142" | "3073466" | "3130855" | "3140007" | "3586204" | "3828964").PN. OR	US-PGPUB; USPAT;	OR	OFF	2018/04/05 22:30

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		("4287997").URPN.	USOCR			
S77	63	("2461526" | "3078484" | "3114486" | "3233803" | "3749294" | "3902640" | "3915189" | "4082208" | "4287997" | "4307826" | "4366922" | "4424841" | "4491258" | "4545414" | "4673070" | "4790432" | "4813542" | "4884731" | "5131576" | "5184763" | "5321904" | "5419473").PN. OR ("5628443").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:33
S78	151	("1409838" | "20010040080" | "20020074332" | "20020130005" | "20020185350" | "20030034215" | "20030034636" | "20040000457" | "20040004332" | "20040026199" | "20040074725" | "20040163910" | "20040211634" | "20040238303" | "20050077133" | "20050077706" | "20050098402" | "20050103590" | "20050150733" | "20050258621" | "20050285359" | "20060010644" | "20060086583" | "20060102677" | "20060163305" | "20060175170" | "20060196743" | "20060207848" | "20080060953" | "20080136133" | "20080223679" | "20080236972" | "20080308369" | "20080308370" | "20090057082" | "20090139813" | "20090160147" | "20090218187" | "20100000805" | "20100025174" | "20100095480" | "20100108452" | "20100147642" | "20100263977" | "20100307879" | "20100308563" | "20110247910" | "20120160617" | "20120261223" | "20150091264" | "20160045000" | "2454438" | "2602675" | "3131829" | "3178197" | "3317081" | "3659867" | "3842953" | "3891230" | "3974898" | "4087102" | "4314624" | "4335895" | "4575109" | "4588055" | "4673070" | "4917392" | "4953257" | "4969660" | "5072958" | "5105962" | "5127662" | "5263727" | "5310071" | "5348325" | "5533231" | "5628443" | "5630601" | "5749503" | "5803471" | "5815843" | "5873145" | "5984154" | "5984327" | "6016893" | "6042127" | "6047442" | "6141841" | "6179176" | "6182981" | "6186295" | "6196366" | "6196560" | "6213266" | "6213267" | "6237734" | "6260871" | "6279705" | "6289554" | "6305587" | "6360400" | "6367602" | "6401888" | "6401890" | "6409412" | "6454065" | "6471019" | "6474524").PN. OR ("6484362" | "6530507" | "6533086" | "6575493" | "6591950" | "6604617" | "6609271" | "6736073" | "6769701" | "6832670" | "6880685" | "6923352" | "6961976" | "6964420" | "7066311" | "7070190" | "7073694" | "7093700" | "7097181" | "7097183" | "7143912" | "7226073" | "7232018" | "7237660" | "7281616" | "7284304" | "7318507" | "7328779" | "7350648" | "7374183" | "7426985" | "7441785" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:34

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		"7478803" | "7594569" | "7597341" | "7780026" | "8607947").PN. OR ("9888752").URPN.				
S79	6	("2008/0308369").URPN.	USPAT	OR	OFF	2018/04/05 22:35
S80	45	("0672173" | "1084360" | "20020144376" | "20040084269" | "20040173427" | "20040238241" | "20050077136" | "20050092568" | "20080308369" | "20090095588" | "20090101461" | "20100059322" | "20100170761" | "20100236886" | "20100270116" | "20110168507" | "20130037364" | "20130175129" | "20130213753" | "20130220754" | "2581417" | "4836343" | "5099968" | "5355980" | "5560458" | "5671832" | "5829559" | "5927450" | "5988334" | "6347693" | "6533086" | "6536568" | "7322477" | "7322585" | "7503569" | "7909149" | "8087513" | "D516869" | "D671316").PN. OR ("9027722").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:36
S81	35	("0922567" | "1084360" | "1567461" | "2372845" | "2428906" | "2801666" | "2858957" | "3837447" | "4098312" | "4122925" | "4142563" | "4257463" | "4286639" | "4673070" | "4744446").PN. OR ("4836343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:39
S82	51	("0778785" | "1567461" | "2372845" | "2428906" | "2989998" | "3631572" | "3696850" | "4122925" | "4128194" | "4256245" | "4424841").PN. OR ("4673070").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:40
S83	33	("0842498" | "1689399" | "3114486" | "3698045" | "4231135" | "4673070" | "4799298" | "4934573" | "5205448" | "5259093" | "5465425" | "5604958" | "5632071" | "5724707" | "5815843" | "6108816" | "7080430" | "7251867").PN. OR ("7526842").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:41
S84	23	("2428906" | "2707035" | "3225951" | "3319744" | "3696850" | "3958731").PN. OR ("4122925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:43
S85	33	("1973819" | "2007696" | "3373911").PN. OR ("4142563").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:46
S86	12	("2858957").URPN.	USPAT	OR	OFF	2018/04/05 22:48
S87	12	("20060071581" | "20080060964" | "2858957" | "3346137" | "3568879" | "4258847" | "4592601" | "4685565" | "4863222" | "7311202").PN. OR ("9724820").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S88	43	("2128854" | "3743372").PN. OR ("4863222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S89	73	("2842420" | "2998128" | "3032381" |	US-	OR	OFF	2018/04/05

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		"3294463" | "3501044" | "3552817").PN. OR ("3743372").URPN.	PGPUB; USPAT; USOCR			22:51
S90	36	("2011962" | "3514170" | "3552817" | "3743372" | "3851936" | "3999818" | "4198777" | "4238032" | "4353470" | "4589546" | "4744612" | "4782619" | "4874210" | "4907703" | "5046789" | "5137340" | "5176435" | "5191983" | "5344024" | "5399004" | "5454634").PN. OR ("6050657").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:53
S91	17	("3131829" | "3429632" | "3552579" | "3707023" | "4062302" | "4239306" | "5246284").PN. OR ("5454634").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:55
S92	55	("0511617" | "1890000" | "2492697" | "2557630" | "2807387" | "3203744" | "3283915" | "3514170" | "3743372" | "3758181" | "3918781" | "3999818" | "4026615" | "4056295" | "4120549").PN. OR ("4243279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:59
S93	45	("2593998" | "2653072" | "2730423" | "3131829" | "3219400" | "3514170" | "3552817" | "3563624" | "3743372" | "3814489").PN. OR ("3999818").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:03
S94	14	("2593998").URPN.	USPAT	OR	OFF	2018/04/05 23:06
S95	52	("4081061" | "4621716" | "5316159" | "6213266" | "6213267" | "7976024" | "1084360" | "3749273" | "4570799" | "4995436" | "5779051" | "D447944" | "3103278" | "3374917" | "5000713" | "6585090" | "5098328" | "D359315" | "20030132184" | "20050199459" | "4813542" | "0480709" | "5062539" | "5186290" | "6276550" | "D346627" | "5310071" | "20040222059" | "3583590" | "3836043" | "4287997" | "4656840" | "5167336" | "5392945" | "6257381" | "20040000458" | "4573595" | "7644828" | "D483200" | "7648407" | "3811747" | "20010027902" | "5099968" | "5485920" | "5709304" | "5735422" | "3346137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:14
S96	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:16
S97	41	("2454438" | "2495132" | "3131829" | "3194426" | "3297196" | "3317081" | "3343705" | "3404805" | "3851936" | "4192422").PN. OR ("4328902").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:18
S98	43	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:29
S99	11	("0907507" | "1626482" | "2343525" | "3974898" | "4065014").PN. OR ("4423687").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:30

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S100	32	("3481502").URPN.	USPAT	OR	OFF	2018/04/05 23:38
S101	8	(("1112943") or ("2255513") or ("2849151") or ("3371816")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:41
S102	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/05 23:41
S103	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:42
S104	21	("1112943").URPN.	USPAT	OR	OFF	2018/04/05 23:43
S105	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 12:32
S106	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 12:33
S107	22	("879455").URPN.	USPAT	OR	OFF	2018/04/06 12:34
S108	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 13:10
S109	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 13:11
S110	37	("3899229" | "4431237" | "4519655" | "4828341" | "4889254" | "5191983").PN. OR ("5469961").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:11
S111	25	("20030155267" | "20050224494" | "20080308641" | "20090139892" | "20090178989" | "20090236255" | "2634020" | "3182856" | "3387732" | "3581928" | "4351448" | "5353948" | "5469961" | "5606820" | "5699925" | "5755180" | "6761266" | "6959507" | "7246718").PN. OR ("8677661").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:12
S112	24	("1226708" | "2833137" | "2834121" | "2843943" | "3139744" | "3220229" | "3545235" | "3824813" | "4507942" | "4551996" | "4663948" | "4680948" | "4821535" | "4972687" | "4989426" | "5469961" | "5653416").PN. OR ("5951130").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:13
S113	118	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:03

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		5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$).did. or (US-3117692-$ or US-2593998-$).did.				
S115	286	B65D21/0223.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:05
S116	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:05
S117	2198	B25H3/021,022,023,04,06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:07
S118	436	A47B47/00.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S119	1076	A47B87/02,007,0276.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S120	550	A47B67/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:11
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S122	9	("7451578" | "6209278" | "4599841" |	US-	OR	OFF	2018/04/06

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S135	75	(Hoppe near2 Christopher).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S136	14	B65D25/2823.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S137	351	B65D25/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S138	73	(Milwaukee adj Electric).as. and (stack box)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:01
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S140	8	(Milwaukee and tool).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02
S141	84	(Milwaukee and tool).as. and latch	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:03
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		"20150150348" | "20150173475" | "20150208774" | "2042387" | "2125856" | "2145143" | "2463713" | "2799306" | "2826426" | "2883184" | "3177023" | "3259411" | "3394955" | "3446304" | "3606372" | "3817419" | "3842953" | "3851756" | "3924844" | "3948365" | "3989128" | "3997038" | "4036336" | "4062429" | "4087102" | "4105112" | "4222580" | "4228877" | "4254850" | "4261447" | "4278187" | "4288134" | "4353182" | "4561526" | "4566616" | "4575109" | "4588055" | "4630837" | "4846493" | "4852705" | "4890414" | "4923105" | "5035523" | "5042193" | "5048649" | "5108119" | "5116289" | "5147019" | "5165148" | "5167306" | "5167354" | "5184477" | "5207440" | "5209327" | "5228609" | "5228706" | "5249438" | "5295742" | "5310079" | "5316096").PN. OR ("5323886" | "5323887" | "5330141" | "5358082" | "5368143" | "5377795" | "5379887" | "5386907" | "5394965" | "5396974" | "5429287" | "5431262" | "5435423" | "5447216" | "5447261" | "5452778" | "5469944" | "5470000" | "5474162" | "5482147" | "5498010" | "5499702" | "5501308" | "5501379" | "5511682" | "5513066" | "5518139" | "5524737" | "5524920" | "5528453" | "5529230" | "5529322" | "5542510" | "5553692" | "5560458" | "5560459" | "5562208" | "5564538" | "5564805" | "5568848" | "5570824" | "5575391" | "5579877" | "5580137" | "5588569" | "5593009" | "5595228" | "5605263" | "5609278" | "5620212" | "5630488" | "5639003" | "5641170" | "5645146" | "5653337" | "5660276" | "5667172" | "5671832" | "5672145" | "5678666" | "5685402" | "5709008" | "5715759" | "5732987" | "5755311" | "5762170" | "5762411" | "5788032" | "5788260" | "5810132" | "5819892" | "5833039" | "5833095" | "5836497" | "5862898" | "5865281" | "5890570" | "5893495" | "5915553" | "5915554" | "5924533" | "5927837" | "5934425" | "5941437" | "5943936" | "5967270" | "5971101" | "5992588" | "5997116" | "6006906" | "6015064" | "6038747" | "6050374" | "6062357" | "6073766" | "6073944" | "6076666" | "6081695" | "6082538" | "6098768" | "6102172" | "6109403" | "6129254" | "6167680" | "6167994" | "6176559" | "6179185" | "6182981" | "6186295" | "6203075" | "6206063" | "6213296" | "6227339" | "6230887" | "6244485" | "6244486" | "6289554" | "6301746" | "6305514" | "6318713" | "6328320" | "6343708" | "6343815" | "6347847" | "6357567").PN. OR ("6367603" | "6371320" | "6371346" | "6390348" | "6405864" | "6408996" |				

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		"6415924"	"6435389"	"6443274"				
		"6446988"	"6460668"	"6471019"				
		"6474665"	"6478463"	"6484362"				
		"6502882"	"6505843"	"6520514"				
		"6527309"	"6530507"	"6533138"				
		"6550651"	"6561327"	"6561402"				
		"6571998"	"6578708"	"6595334"				
		"6614337"	"6622856"	"6637562"				
		"6666363"	"6675965"	"6675967"				
		"6688614"	"6692011"	"6695142"				
		"6698609"	"6722524"	"6736265"				
		"6739150"	"6742684"	"6755302"				
		"6755448"	"6758534"	"6761366"				
		"6789670"	"6820878"	"6840359"				
		"6860059"	"6910560"	"6915902"				
		"6923352"	"6926129"	"6938740"				
		"6938741"	"6948724"	"6955381"				
		"6976566"	"6978890"	"7004481"				
		"7008031"	"7021637"	"7036641"				
		"7048133"	"7066311"	"7073694"				
		"7104555"	"7108131"	"7111853"				
		"7117991"	"7121407"	"7144020"				
		"7147089"	"7158376"	"7168713"				
		"7201243"	"7225923"	"7228983"				
		"7237673"	"7237688"	"7240909"				
		"7246704"	"7270223"	"7296808"				
		"7316309"	"7318542"	"7322470"				
		"7322583"	"7326428"	"7331454"				
		"7334680"	"7357250"	"7357268"				
		"7367451"	"7370891"	"7374183"				
		"7387304"	"7387305"	"7387350"				
		"7389997"	"7401698"	"7401700"				
		"7416066"	"7418846"	"7438084"				
		"7438308"	"7458601"	"7461730"				
		"7467695"	"7478711"	"7500547"				
		"7503439"	"7503440"	"7503569"				
		"7516502"	"7540364"	"7552560"				
		"7552950"	"7571915"	"7581736"				
		"7591627"	"7594569"	"7597341"				
		"7600618"	"7600640").PN. OR ("7631380"					
		"7661530"	"7661683"	"7780051"				
		"7823991"	"7837053"	"7837206"				
		"7845653"	"7850020"	"7854321"				
		"7874328"	"7883096"	"7938412"				
		"7946609"	"7984820"	"7997591"				
		"8037983"	"8056919"	"8056943"				
		"8061536"	"8087513"	"8123007"				
		"8123068"	"8132289"	"8132819"				
		"8152037"	"8191910"	"8210387"				
		"8256591"	"8262106"	"8267230"				
		"8267245"	"8267247"	"8272628"				
		"8282113"	"8327576"	"8328247"				
		"8328530"	"8342543"	"8365886"				
		"8376177"	"8434617"	"8439174"				
		"8469195"	"8505729"	"8517155"				
		"8517400"	"8534434"	"8567796"				
		"8657307"	"8662268"	"8695770"				
		"8708351"	"8752683"	"8844689"				
		"8851282"	"8869960"	"8888111"				
		"8919896"	"8936140"	"8936258"				
		"8960959"	"8979073"	"8979100"				
		"9060577"	"9066565"	"9067614"				
		"9095193"	"9260129"	"9295313"				
		"D258705"	"D259154"	"D272203"				

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		"D309981" | "D316485" | "D326815" | "D333215" | "D333487" | "D347731" | "D355849" | "D368159" | "D370619" | "D374772" | "D375834" | "D377118" | "D378247" | "D385110" | "D386903" | "D390358" | "D402106" | "D405956" | "D414038" | "D418977" | "D437684" | "D447340" | "D447630" | "D448162" | "D449442" | "D449738" | "D451275" | "D452071" | "D453624" | "D455263" | "D459073" | "D462168" | "D465923" | "D467070" | "D470659" | "D471360" | "D472385" | "D472774" | "D480867" | "D505548" | "D509656" | "D516310" | "D516808" | "D516812" | "D520746" | "D563669" | "D572479" | "D572480" | "D588811" | "D589703" | "D599112" | "D600015").PN. OR ("D600912" | "D601797" | "D605403" | "D608094" | "D609911" | "D609913" | "D616200" | "D618911" | "D621153" | "D621610" | "D624317" | "D625515" | "D625915" | "D627968" | "D629607" | "D630435" | "D630851" | "D635769" | "D636996" | "D637812" | "D639554" | "D641552" | "D647301" | "D648532" | "D648533" | "D649350" | "D649783" | "D661858" | "D661903" | "D664354" | "D668867" | "D668868" | "D668869" | "D670500" | "D672555" | "D673774" | "D701696" | "D744750" | "D750890").PN. OR ("9616562").URPN.				
S144	325	B65D21/0212.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:09
S145	27	("4212415" | "4664283" | "4823955" | "4896926" | "5246105").PN. OR ("5544751").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:11
S146	44	("1699130" | "2072672" | "2551814" | "2633285" | "2736487" | "3010638" | "3361322" | "3623650" | "3632037" | "3713579" | "3905478" | "3905541" | "3921896" | "4002261" | "4023617" | "4187977" | "4230233" | "4245773" | "4251006" | "4277015" | "4291830" | "4389013" | "4482074" | "4643314" | "4685610" | "4762270" | "4763833" | "4828894" | "4884739" | "4911356" | "4948039" | "4993623" | "5038998" | "5116290" | "5190213").PN. OR ("5429260").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:12
S147	0	("1140005").URPN.	USPAT	OR	OFF	2018/04/06 19:30
S148	119	("1267650" | "1999162" | "3163268" | "3379482" | "3419184" | "3425471" | "3498689" | "3642168" | "3700137" | "3979016" | "3987829" | "4161261" | "4293073" | "4303158" | "4523692" | "4664347" | "4799503" | "4804092" | "4819795" | "4915913" | "4982863" | "4984687" | "5011013" | "5024471" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 20:05

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		"5040834" | "5042674" | "5065885" | "5065887" | "5080250" | "5103994" | "5117979" | "5123564" | "5176281" | "5186330" | "5190152" | "5193706" | "5244265" | "5319937" | "D237135" | "D237611" | "D238148" | "D239695" | "D246872" | "D248280" | "D257934" | "D258721" | "D277797" | "D286937" | "D292711" | "D302774" | "D312573" | "D316516" | "D319016" | "D321090" | "D321091" | "D322164" | "D325323" | "D325324" | "D326775" | "D326815" | "D327646" | "D328425" | "D328818" | "D328819" | "D329331" | "D329747" | "D330161" | "D330162" | "D330329" | "D331317" | "D335960" | "D336366" | "D339471" | "D342364").PN. OR ("5564805").URPN.				
S149	62	("0198092" | "0564782" | "1063046" | "1268124" | "1740470" | "1987822" | "2011197" | "2094805" | "2122969" | "2504722" | "2759507" | "2786500" | "2791251" | "2799306" | "3018355" | "3615087" | "3746210" | "3851756" | "4061323" | "4239195" | "4256294" | "4278243" | "4303158" | "4378828" | "4460085" | "4909491" | "4911296" | "5011013" | "5117979" | "5193706" | "D253212" | "D263533" | "D288867").PN. OR ("5595228").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:03
S150	15	("2587829" | "2610761" | "2740517" | "4252239" | "4733703" | "5329929" | "5595228").PN. OR ("6206063").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:04
S151	6	("4466659" | "4967944" | "5207470" | "6193118" | "6554169" | "7000810").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38
S152	96	("1032326" | "1503894" | "1926162" | "2612200" | "2629644" | "2724595" | "2735597" | "2754079" | "2979190" | "3229946" | "3640423" | "3642168" | "3664704" | "3727971" | "3759416" | "3791547" | "3854621" | "3940009" | "3987829" | "4190281" | "4213539" | "4215896" | "4288011" | "4403786" | "4458570" | "4488669" | "4499998" | "4522326" | "4531774" | "4580827" | "4593816" | "4623071" | "4674665" | "D259413" | "D285673").PN. OR ("4967944").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38
S153	25	("2967080" | "2987358" | "4844305" | "4967944" | "5419476" | "5667115").PN. OR ("5988473").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:40
S154	10	("2987358").URPN.	USPAT	OR	OFF	2018/04/07 00:41
S155	4	("2009/0315285").URPN.	USPAT	OR	OFF	2018/04/07 00:46
S156	223	("5072918" | "5390943" | "5871219" | "6739605" | "0875476" | "6086073" |	US-PGPUB;	OR	OFF	2018/04/07 00:50

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		"4743040" | "6109628" | "1427388" | "20040129658" | "20050023786" | "20050057011" | "20060232033" | "20060237091" | "3472392" | "3999775" | "4699270" | "4786122" | "5072955" | "5743607" | "5876047" | "6123346" | "6545863" | "7232136" | "D396023" | "6497423" | "D153654" | "2155769" | "3313498" | "3870177" | "4391422" | "4763799" | "4923202" | "4998023" | "5509671" | "5915646" | "6073919" | "6095156" | "6170839" | "6264216" | "D188099" | "D460235" | "D461941" | "D469235" | "5921566" | "D415867" | "20030047895" | "20030218308" | "5183372" | "5275349" | "5465988" | "5913528" | "6276471" | "6752281" | "7114733" | "7134673" | "7144020" | "4743040" | "3379431" | "4457527" | "5316232" | "5566961" | "6572123" | "D153654" | "D415867" | "6497423" | "D485037" | "20060066064" | "3698735" | "3908749" | "4895068" | "6138558" | "6251113" | "6267080" | "6471010" | "6497424" | "7207449" | "4901937" | "5308012" | "6270094" | "D463646" | "D474570" | "D485410" | "5921566" | "D273242" | "D474570" | "1149639" | "2413164" | "2575661" | "2819908" | "20050001395" | "20060006621" | "20060157944" | "4099735" | "4688860" | "5048857" | "5224531" | "5452908" | "7017603" | "7156475" | "7204374" | "7296808" | "5887878" | "1126544" | "2705114" | "20050280228" | "20050284697" | "5285981" | "6116533" | "D302064" | "D361187" | "D381168" | "D424321" | "D487604" | "D504000" | "D469235" | "1200008" | "1471446" | "1562089" | "2623642" | "2845780" | "20010045718" | "20020084607" | "20020096844" | "20060076306" | "3965969" | "4138504" | "4165088" | "4373761" | "4880248" | "6539831" | "7044569" | "5154544" | "20040065989" | "20040227315" | "3212645" | "4179080" | "4759560" | "5188308" | "5362078" | "5495951" | "5687928" | "5839739" | "5971512" | "6497423" | "6669214" | "D336183" | "D471687" | "6086073" | "D302064" | "D336183" | "20020060438" | "20040056439" | "20060208440" | "4518208" | "4832355" | "5221132" | "5375860" | "5873585" | "6022088" | "6101831" | "6206385" | "D140635" | "4380293" | "6109437" | "3610431" | "4743040" | "5269545" | "5848798" | "6241181" | "6315376" | "D391032" | "D395108" | "D403826" | "D468881" | "D471688" | "D485037" | "20030122331" | "4923202" | "1487856" | "20030107195" | "3606445" | "3873114" | "5011240" | "5634649" | "5716116" | "5941229" | "6578938" | "6783563" | "6910710" | "D469235" | "4815394" | "1660521" | "3759538" |	USPAT; USOCR					

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		"4564152" | "4585130" | "5016948" | "5123666" | "5595395" | "6102497" | "6109628" | "6322061" | "6615973" | "D361188" | "D153654" | "1649065" | "20020064478" | "20030121874" | "20050127627" | "3722700" | "4019793" | "5282678" | "6857644" | "D147135").PN.				
S157	18	("1193809" | "1268124" | "1521310" | "3696850" | "4724976" | "4756394" | "4787488" | "5209279" | "5219423" | "5314046" | "5971119" | "0622263" | "0695149").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:56
S158	31	("0783059" | "2878928" | "3245528" | "3319685" | "3386607" | "3605374" | "3835992" | "3992810" | "4320846" | "4627595" | "4799590" | "4890741" | "5135823" | "5370255").PN. OR ("5676274").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:50
S159	26	("1101357" | "1149266" | "1862868" | "2702116" | "3145871" | "4154362" | "4503955" | "4705316" | "4896926" | "4998616").PN. OR ("5415255").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:53
S160	37	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" | "5060851" | "5117979").PN. OR ("5325966").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:55
S161	6	("3412888" | "4204609" | "5409126" | "5499715" | "5769229").PN. OR ("6467681").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 17:17
S162	173	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$ or US-20080104921-$ or US-20160153200-$ or US-20080134613-$ or US-20080134607-$ or US-20070193178-$ or US-20170266804-$ or US-20140075650-$ or US-20090145866-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160023349-$ or US-20140166516-$ or US-20120326406-$ or US-20110121695-$ or US-20070194543-$ or US-20070170671-$ or US-20110049824-$ or US-20130056378-$ or US-20120312812-$ or US-20120187013-$ or US-20120080432-$ or US-20120061930-$ or US-20050280228-$).did. or (US-20060027475-$ or US-20050155889-$ or US-20160168880-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:25

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		6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$ or US-7451578-$ or US-6122879-$ or US-3526420-$ or US-2740167-$ or US-9803375-$ or US-9663940-$ or US-7841144-$ or US-9616562-$ or US-5544751-$ or US-5429260-$ or US-7946609-$ or US-6578708-$ or US-6176559-$ or US-5927837-$ or US-5564805-$ or US-5595228-$ or US-6206063-$ or US-7000810-$ or US-4967944-$ or US-5988473-$).did. or (US-6641013-$ or US-2987358-$ or US-4576423-$ or US-4756394-$ or US-4896926-$ or US-5325966-$ or US-5697500-$ or US-6467681-$).did. or (US-3117692-$ or US-2593998-$).did.				
S163	3	(("20170166352") or ("20110139665") or ("5628443")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:26
S164	28	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2018/04/09 01:36

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S165	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S166	27	S164 not S165	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S167	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/21 18:13
S168	56	("1932429" | "20060016811" | "20060070906" | "20060237341" | "20070080089" | "20080110190" | "20080112782" | "20080121253" | "20080128414" | "20090178989" | "20090184021" | "20110139665" | "2178091" | "2259041" | "5271515" | "5429260" | "5531517" | "5544751" | "5549241" | "5860527" | "6062388" | "6581772" | "6880705" | "6991106" | "7044483" | "7063210" | "7516854" | "7661549" | "8342329" | "8640871" | "8973811" | "8997993" | "9056694" | "9101212" | "D277532" | "D277723" | "D277819" | "D347130" | "D385306" | "D406478" | "D470641" | "D529755" | "D538571" | "D543030" | "D589723" | "D590021" | "D645902" | "D654726" | "D664034" | "D689718" | "D709716" | "D773217" | "D781625").PN. OR ("D815471").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:13
S169	5	(("20160144500") or ("0784114") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:16
S170	4	(("20160144500") or ("7841144") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17
S171	554	("0124228" | "0213740" | "0714987" | "0753791" | "1124228" | "1194636" | "1371856" | "1407679" | "1454250" | "1468288" | "1477813" | "1510924" | "1540128" | "1575821" | "1602256" | "1602267" | "1615096" | "1622103" | "1622104" | "1637634" | "1644710" | "1660480" | "1714738" | "1718702" | "1723306" | "1734826" | "1743492" | "1764331" | "1778069" | "1787027" | "1790178" | "1809393" | "1823039" | "1859667" | "1898364" | "1902716" | "1906411" | "1925070" | "1929871" | "1940377" | "1953306" | "1986739" | "1988201" | "1995264" | "20010029720" | "20020007608" | "20020007609" | "20020014047" | "20020020127" | "20020031646" | "20020046528" | "20020056245" | "20020069611" | "20020083673" | "20020092263" | "20020100231" | "20020160610" | "20020178673" | "20020178674" | "20020178682" | "20030009971" | "20030009972" | "20030024199" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17

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		"20030033777" | "20030033784" |					
		"20030037504" | "20030041545" |					
		"20030084636" | "20030101674" |					
		"20030101681" | "20030115812" |					
		"20030115821" | "20030180091" |					
		"20030188504" | "20030196405" |					
		"20030221387" | "20030233809" |					
		"20040016196" | "20040031227" |					
		"20040035078" | "20040035079" |					
		"20040060255" | "20040068954" |					
		"20040115921" | "20040139678" |					
		"20040168392" | "20040177584" |					
		"20040182036" | "20040200175" |					
		"20040206036" | "20040211143" |					
		"20040241374" | "20040255541" |					
		"20050034404" | "20050034405" |					
		"20050097860" | "20050102937" |					
		"20050108970" | "20050138881" |					
		"20050160694" | "20050161468" |					
		"20050166516" | "20050193677" |					
		"20050208255").PN. OR ("20050210810" |					
		"20050235593" | "20050252130" |					
		"20050268570" | "20060032168" |					
		"20060048474" | "20060070333" |					
		"20060073320" | "20060075713" |					
		"20060101769" | "20060117696" |					
		"20060179773" | "20060196139" |					
		"20060236642" | "20060260254" |					
		"20060283127" | "20070006543" |					
		"20070028547" | "20070119110" |					
		"20070151189" | "20070193178" |					
		"20080000186" | "20080010931" |					
		"20080010937" | "20080028707" |					
		"20080034708" | "20080066415" |					
		"20080104921" | "20080110125" |					
		"20080134607" | "20080134613" |					
		"20080134614" | "20080295432" |					
		"20090193748" | "2015813" | "2026511" |					
		"2044216" | "2088238" | "2089075" |					
		"2204675" | "2266464" | "2276071" |					
		"2303745" | "2324628" | "2398632" |					
		"2430200" | "2495862" | "2596280" |					
		"2732706" | "2740167" | "2780253" |					
		"2851740" | "2865058" | "2894292" |					
		"2947040" | "3023681" | "3045294" |					
		"3100556" | "3120083" | "3125138" |					
		"3182769" | "3200553" | "3203149" |					
		"3247638" | "3267630" | "3282010" |					
		"3301147" | "3310919" | "3347048" |					
		"3377931" | "3378958" | "3387422" |					
		"3436888" | "3460304" | "3481810" |					
		"3508523" | "3512324" | "3517927" |					
		"3526071" | "3526420" | "3535844" |					
		"3538665" | "3548559" | "3553919" |					
		"3554850" | "3555762" | "3572224" |					
		"3579941" | "3694983" | "3714747" |					
		"3731445" | "3742669" | "3759007" |					
		"3768846" | "3786608" | "3842562" |					
		"3849235" | "3857749" | "3859000" |					
		"3902293" | "3908053" | "3919820" |					
		"3936551" | "3988187" | "4037377" |					
		"4082129" | "4084996" | "4090338" |					
		"4099358" | "4100710" | "4107892" |					
		"4113399" | "4169688").PN. OR ("4196554" |					

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		"4227430" | "4242390" | "4299070" | "4304083" | "4426820" | "4471012" | "4489115" | "4501102" | "4561233" | "4567706" | "4599841" | "4612074" | "4612745" | "4641469" | "4643237" | "4646494" | "4648165" | "4653242" | "4703597" | "4715162" | "4716700" | "4738071" | "4769963" | "4819932" | "4822440" | "4831806" | "4845907" | "4905442" | "5029425" | "5113632" | "5117603" | "5148850" | "5165816" | "5179812" | "5182892" | "5216861" | "5247773" | "5253464" | "5271564" | "5286545" | "5295341" | "5344700" | "5349796" | "5390457" | "5433806" | "5465546" | "5474831" | "5497589" | "5502939" | "5540025" | "5560569" | "5567497" | "5570554" | "5597024" | "5598682" | "5613894" | "5618602" | "5630304" | "5634309" | "5653099" | "5671575" | "5695875" | "5706621" | "5755068" | "5768850" | "5797237" | "5823240" | "5827592" | "5860267" | "5899038" | "5900099" | "5925211" | "5935668" | "5943239" | "5968625" | "5987839" | "6006486" | "6023907" | "6029416" | "6052960" | "6094882" | "6101778" | "6119423" | "6134854" | "6148884" | "6173548" | "6182410" | "6203653" | "6205639" | "6209278" | "6216403" | "6216409" | "6247285" | "6314701" | "6324803" | "6332733" | "6339908" | "6345481" | "6358842" | "6363677" | "6385936" | "6397547" | "6421970" | "6438919" | "6446405" | "6446413" | "6490836" | "6497079" | "6505452" | "6510665" | "6516579" | "6526719" | "6532709" | "6536178" | "6553724" | "6584747" | "6591568" | "6601359" | "6606834" | "6647689" | "6647690" | "6670019" | "6672030" | "6684592").PN. OR ("6715253" | "6722809" | "6763643" | "6769218" | "6769219" | "6854235" | "6862857" | "6874292" | "6933043" | "7003924" | "7003925" | "7022189" | "7040068" | "7051486" | "7275350" | "7377081" | "7568322" | "7584583" | "7614197").PN. OR ("7841144").URPN.				
S172	969	Y10S292/38,53.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:25
S173	35	E04F2201/013.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:25
S174	1351	E04F2201/0146,023,05.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:26
S175	514	B25H3/02.cpc.	USPAT	OR	OFF	2018/11/21 18:45

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S176	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S177	165	B25H3/021.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S178	0	("2018/0213934").URPN.	USPAT	OR	OFF	2018/11/21 18:46
S179	369	A47B88/90.cpc.	USPAT	OR	OFF	2018/11/21 18:46
S180	81	A47B2210/19.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:47
S181	29	("2614016" | "2676080" | "3001564" | "3079037" | "3974898" | "4040538" | "4119204" | "4239309" | "4287997" | "4293072" | "4865404" | "5190156").PN. OR ("5407074").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:50
S182	27	("0224486" | "1472676" | "2975930" | "3159436" | "3424334" | "3506321" | "3584738" | "3737031" | "4155452").PN. OR ("4293072").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:51
S183	48	("3506321").URPN.	USPAT	OR	OFF	2018/11/21 18:54
S184	46	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:56
S185	520	B65D21/0204.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:01
S186	868	A47B87/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S187	2232	312/107,111.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S188	703	A47B88/90.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:15
S189	50	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:23
S190	34	("0455883" | "0484121" | "0918297" | "20060175945" | "20100052276" | "20110279956" | "20120086319" | "20130134850" | "2341434" | "2431830" | "2441728" | "3058320" | "3135570" | "3326203" | "3712697" | "4590709" | "5011240" | "5026130" | "5048902" | "5145245" | "5673984" | "6068356" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:24

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		"6164738" | "8201900" | "D322875").PN. OR ("9872562").URPN.				
S191	45	("1223455" | "2123803" | "2704699" | "3272581" | "3316045" | "3796474" | "4155611" | "4505526" | "4577773" | "4848588" | "5205595" | "5246105" | "5299688" | "5344226" | "5358321" | "5426885").PN. OR ("5603559").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:27
S192	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" | "3758181").PN. OR ("5246105").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:28
S193	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269" | "6082539" | "6371320" | "6874634" | "6889838" | "7387350" | "7516842").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:02
S194	75	("0440957" | "1933637" | "2511949" | "2789828" | "2981549" | "3055723" | "3349924" | "3379482" | "3891230" | "3905662").PN. OR ("4118048").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:03
S195	45	("0273398" | "0325555" | "0825642" | "0953715" | "0953815" | "1143711" | "1365098" | "1495046" | "1611034" | "2055657" | "2565969" | "2714433" | "3828899" | "3891230" | "3974898" | "3987875" | "4066155" | "4118048" | "4139084" | "4202586" | "4389078" | "4693345").PN. OR ("4813521").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:04
S196	29	("2472491" | "2925283" | "3057636").PN. OR ("3891230").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05
S197	143	("0344661" | "0687619" | "1424819" | "20010052681" | "20020014488" | "20020067027" | "20020074905" | "20020113386" | "20020185831" | "20030001348" | "20030146589" | "20040265104" | "20050062244" | "20050104308" | "20050258610" | "20050275178" | "20060006619" | "20060012139" | "20060038367" | "20070080512" | "20070194543" | "20070273114" | "20080084036" | "20080121547" | "20080128305" | "20080143069" | "20090020528" | "20090026901" | "20090096181" | "20090309323" | "20100052276" | "20100290877" | "20100327562" | "20110049824" | "20110181008" | "20120160886" | "20120326406" | "20140001719" | "20140023221" | "20140375181" | "2554091" | "2588830" | "2901262" | "2964328" | "3168329" | "3393951" | "3734526" | "3804432" | "3891230" | "3990653" | "4169607" | "4363496" | "4448434" | "4619363" | "4884689" | "4936594" | "4984704" | "5104135" | "5123666" | "5207723" | "5333885" | "5362078" | "5378005" | "5464104" | "5474312" | "5595395" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05

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		"5626352" | "5634649" | "5720535" | "5799958" | "5845915" | "5906381" | "5913527" | "5931483" | "5934466" | "5938396" | "6000713" | "6050660" | "6079719" | "6082539" | "6109627" | "6113129" | "6123344" | "6131926" | "6135466" | "6176559" | "6254112" | "6347847" | "6357063" | "6371320" | "6394471" | "6398235" | "6474930" | "6561528" | "6601930" | "6616152" | "6659476" | "6666465" | "6874634" | "6889838" | "6945546" | "7063339" | "7066475" | "7108131" | "7168715" | "7188846" | "7188847" | "7210689" | "7263742" | "7328905" | "7367571" | "7500681").PN. OR ("7503569" | "7686260" | "7703776" | "7819407" | "7823893" | "7845653" | "7883096" | "7905502" | "7938412" | "8132819" | "8226092" | "8567796" | "8657307" | "8668209" | "9132543" | "D437484" | "D542496" | "D640869" | "D653832" | "D654241").PN. OR ("9566990").URPN.				
S198	18	("2042387" | "2528872" | "3401420" | "3891230" | "4989291" | "5915438" | "6230361" | "7000287").PN. OR ("7263742").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:07
S199	37	("5013055" | "5207723" | "5378005").PN. OR ("5799958").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:08
S201	2395	280/47.26,47.28,652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:09
S202	1975	280/47.26,47.28.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S203	518	280/652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S204	1	"15826201"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 00:33
S205	12	(US-0271616-$ | US-0320243-$ | US-1276744-$ | US-1477050-$ | US-15826201-$ | US-20080308369-$ | US-3616562-$ | US-3875888-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:39
S206	2	(("8875888") or ("9616562") or ("20080308369")).PN.	USPAT; USOCR	OR	OFF	2018/11/22 03:40
S207	3	(("8875888") or ("9616562") or ("20080308369")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:40
S208	64	("20020113387" | "20070194543" | "20080079227" | "20080084036" | "20110049824" | "3522955" | "4118048" |	US-PGPUB; USPAT;	OR	OFF	2018/11/22 19:37

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		"4119044" | "4281843" | "5176281" | "5193706" | "5244265" | "5378005" | "5634649" | "5641170" | "5680932" | "5799958" | "5906381" | "5938396" | "5950828" | "6131926" | "6170839" | "6176559" | "6264220" | "6347847" | "6371320" | "6601930" | "6761366" | "6817623" | "7367571" | "7467801" | "7503569" | "7628406" | "7845653" | "7883096" | "7938412" | "D404916" | "D437484" | "D462168" | "D462170").PN. OR ("8132819").URPN.	USOCR			
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		"7228983" | "7237673" | "7237688" | "7246704" | "7316309" | "7322470" | "7326428" | "7334680" | "7357250" | "7357268" | "7367451" | "7370891" | "7401698" | "7401700" | "7418846" | "7540364" | "7552560" | "7552950" | "7600640" | "7661530" | "7837053" | "7845653" | "7854321" | "7874328" | "7883096" | "7938412" | "7984820" | "8056943" | "8061536" | "8132819" | "8152037" | "8191910" | "8210387" | "8267245" | "8267247" | "8272628" | "8327576" | "8328247" | "8376177" | "8434617" | "8469195" | "8505729" | "8657307" | "D259154" | "D272203" | "D309981" | "D326815" | "D333215" | "D333487" | "D347731" | "D355849" | "D368159" | "D370619" | "D374772" | "D375834" | "D377118" | "D378247" | "D385110" | "D386903" | "D390358" | "D402106" | "D405956" | "D414038" | "D418977" | "D437684" | "D447340" | "D447630" | "D448162" | "D449442" | "D449738" | "D451275" | "D452071" | "D453624" | "D455263" | "D459073" | "D462168" | "D465923" | "D467070" | "D470659" | "D471360" | "D472774" | "D480867" | "D505548" | "D509656" | "D516310" | "D516808" | "D516812" | "D520746" | "D563669" | "D572479" | "D572480" | "D588811" | "D589703" | "D599112" | "D600015" | "D600912" | "D601797" | "D605403" | "D608094" | "D609911" | "D609913").PN. OR ("D616200" | "D618911" | "D624317" | "D627968" | "D629607" | "D630435" | "D630851" | "D635769" | "D636996" | "D637812" | "D639554" | "D641552" | "D647301" | "D648532" | "D648533" | "D649350" | "D649783" | "D661858" | "D661903" | "D664354" | "D668867" | "D668868" | "D668869" | "D670500" | "D672555" | "D673774" | "D701696" | "D744750" | "D750890").PN. OR ("9539722").URPN.				
S210	15	("2007/0194543").URPN.	USPAT	OR	OFF	2018/11/22 19:40
S211	56	("1478913" | "20010035704" | "20050159784" | "20050269792" | "20060006621" | "20060144732" | "20070194543" | "20070235959" | "20080128305" | "20090301913" | "20100289236" | "20100295430" | "20110127736" | "20120292870" | "20130118818" | "3861703" | "3874531" | "4435115" | "4726602" | "4822116" | "4846485" | "4858940" | "4976450" | "4993551" | "5174447" | "5378005" | "5452908" | "5573089" | "5743607" | "5799958" | "5893572" | "6027128" | "6170839" | "6439585" | "6446987" | "6702168" | "6935641" | "6945546" | "7044569" | "7083174" | "7314134" | "7328905" | "7431313" | "7434819" | "7503569" | "7661685" | "7905502" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:40

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		"8226092" | "8376376" | "8668209" | "D182716").PN. OR ("8915504").URPN.				
S212	2	("2012/0292870").URPN.	USPAT	OR	OFF	2018/11/22 19:41
S213	52	("6264083" | "6666362" | "7204374" | "20120247044" | "4249684" | "6264220" | "6935641" | "7048320" | "7165702" | "20040194333" | "20040251227" | "20070210021" | "20100300996" | "20120199708" | "4944416" | "7487981" | "6615973" | "6786374" | "20070137532" | "5628534" | "7017254" | "6932406" | "20040051016" | "20050006539" | "20080296245" | "7740329" | "20060021985" | "5913380" | "6736265" | "20020100396" | "20120131872" | "3610429" | "6629654" | "4535897" | "6581920" | "20110107704" | "0332360" | "5406894" | "6474245" | "20050269792" | "5582269" | "20070012636" | "5687856" | "5899544" | "6247720" | "6814362" | "20040222176" | "20110168651" | "4630739" | "4961295" | "5730414").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:46
S214	39	("2320387" | "3052484" | "3179270" | "3734526" | "4281843" | "4363496" | "4790549" | "5464104" | "5465987" | "5474312" | "5595395" | "5671933").PN. OR ("6131926").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 23:52
S215	1	"12736715"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:36
S216	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/23 01:36
S217	20	("2807387" | "20060220503" | "3219400" | "3424334" | "4293072" | "4643494" | "4782619" | "4996628" | "5184726" | "5246105" | "5427394" | "5544751" | "5699925" | "5901998" | "5924778" | "6367631" | "6983946").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:37
S218	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" | "3758181").PN. OR ("5246105").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:38
S219	13	("3379482").URPN.	USPAT	OR	OFF	2018/11/23 02:28
S220	0	("2012/0152800").URPN.	USPAT	OR	OFF	2018/11/23 02:30
S221	12	("20080060964" | "3568879" | "4592601" | "4685565" | "20060071581" | "4258847" | "4863222" | "2858957" | "7311202" | "3346137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:30
S222	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S223	140	S222 and (snap)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39

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S224	67	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20150274362-$ or US-20110073516-$ or US-20090193748-$ or US-20080134607-$ or US-20080104921-$ or US-20180313094-$ or US-20180213934-$ or US-20150102717-$ or US-20180161975-$ or US-20140305829-$).did. or (US-20120312812-$ or US-20180290288-$ or US-20180162592-$ or US-20170239808-$ or US-20170121056-$ or US-20130127129-$ or US-20060038367-$ or US-20160114822-$ or US-20080308369-$ or US-20080169739-$ or US-20120292870-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$ or US-5429260-$ or US-7841144-$ or US-5407074-$ or US-4293072-$ or US-3506321-$ or US-3974898-$ or US-6109707-$ or US-4423687-$ or US-9872562-$ or US-6547347-$ or US-4619363-$ or US-4118048-$ or US-3891230-$ or US-9566990-$).did. or (US-5799958-$ or US-9616562-$ or US-5184726-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:36
S225	3	("20080308369" | "8875888" | "9616562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
S226	28	(US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20110139665-$).did. or (US-9506489-$ or US-9132543-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5628443-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2018/11/23 14:37
S227	37	S224 not (S225 S226)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
S228	1	"20170174392".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:54
S229	14	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-20080169739-$ or US-20080134607-$ or US-20080104921-$ or US-20060038367-	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 21:07

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		$).did. or (US-9872562-$ or US-9566990-$ or US-7841144-$ or US-6547347-$ or US-5429260-$).did. or (US-2430200-$).did.				
S230	6	(("20120228074") or ("20120152800") or ("20170318927") or ("20110220531") or ("20110073516") or ("7841144")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:31
S231	5	("20040163913" | "20050199459" | "20100147642" | "20120228074" | "20120312812").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:33
S232	14	("1299291" | "1643397" | "2706036" | "3811562" | "4020930" | "4790417" | "5671830" | "0758019" | "D135357").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:35
S233	325	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:40
S234	0	("2018/0161975").URPN.	USPAT	OR	OFF	2019/02/20 19:42
S235	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:57
S236	16	("20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "20170174392" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S237	14	("20050139745" | "20080277221" | "20090145790" | "20100147642" | "20110073516" | "20110181008" | "20130121783" | "20170318927" | "20180044059" | "20190002004" | "5608603" | "6637707" | "8177463" | "9701443").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S238	33	S235 S236 S237	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S239	932	A45C5/14.cpc.	USPAT	OR	OFF	2019/02/20 20:01
S240	28	B65D21/00.cpc.	USPAT	OR	OFF	2019/02/20 20:01
S241	8	(US-20080134607-$ or US-20080104921-$ or US-20060038367-$ or US-20120228074-$).did. or (US-9872562-$ or US-7841144-$ or US-6547347-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:58
S242	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:59

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S243	1	S241 not S242	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:59
S244	8	(US-20080134607-$ or US-20080104921-$ or US-20060038367-$ or US-20120228074-$).did. or (US-9872562-$ or US-7841144-$ or US-6547347-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S245	26	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-20080169739-$ or US-20170318927-$ or US-20120152800-$ or US-20110220531-$ or US-20110073516-$ or US-20070012694-$ or US-20190039781-$ or US-20190002004-$ or US-20060006770-$ or US-20170166352-$).did. or (US-9566990-$ or US-5429260-$ or US-5890613-$ or US-5099968-$ or US-4693345-$ or US-3319744-$ or US-9108764-$ or US-9701443-$ or US-3974898-$ or US-3506321-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S246	19	S245 not S242	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S247	1	"20170166352".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:25
S248	1	"20180161975"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:28
S278	0	"20011012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:51
S279	0	"2001012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:51
S280	0	"20011012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:52
S281	0	(("20011012717") or ("20080257905")).PN.	USPAT; USOCR	OR	OFF	2019/02/21 19:52
S282	1	(("20011012717") or ("20080257905")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:52
S283	2	(("20110012717") or ("20080257905")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:52
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S285	5359	"20110602".pd.	US-	OR	OFF	2019/02/21

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S287	24	("20030115715" | "20030205877" | "20060186624" | "20080115312" | "20080271280" | "20090071990" | "20100139566" | "20120180250" | "20120207571" | "20130024468" | "20130031731" | "20130031732" | "20160023349" | "20170165828" | "20170257958" | "20180220758" | "2042387" | "5105947" | "7263742" | "8689396" | "9643629" | "D663952" | "D664354").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:31
S288	0	"201200207571".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:37
S289	1	"20120207571".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:37
S290	1	"20090071990".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:38
S291	0	"2011155613".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:46
S292	1	"20110155613".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:46
S293	24	("20030115715" | "20030205877" | "20060186624" | "20080115312" | "20080271280" | "20090071990" | "20100139566" | "20120180250" | "20120207571" | "20130024468" | "20130031731" | "20130031732" | "20160023349" | "20170165828" | "20170257958" | "20180220758" | "2042387" | "5105947" | "7263742" | "8689396" | "9643629" | "D663952" | "D664354").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 05:03
S294	1	"20140161518".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/14 19:30
S295	10	(US-15826201-$ | US-20050139745-$ | US-20080277221-$ | US-20090145790-$ | US-20100147642-$ | US-20110181008-$ | US-20130121783-$ | US-20180044059-$ | US-5608603-$ | US-6637707-$ | US-8177463-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/18 17:19
S296	1	("20140161518").PN.	US-PGPUB; USPAT;	OR	OFF	2019/06/04 15:29

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			USOCR			

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S249	139	A45C7/0045.cpc.	USPAT	OR	OFF	2019/02/20 19:41
S250	447	A47B47/00.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
S251	475	A47B67/04.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
S252	542	A47B87/02,007.00276.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
S253	849	B65D21/0024,02,00,0223,0212.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
S254	1073	B65D21/0217,0219,0222,0228,023.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:08
S255	348	B65D25/2823,06.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:08
S256	2120	B25H3/021,022,023,04,06.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:08
S257	598	Y10T403/7045.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
S258	522	A47B88/90.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
S259	916	B25H3/02.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
S260	471	B65D21/0204.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
S261	139	A45C7/0045.cpc.	USPAT	OR	OFF	2019/02/20 20:09
S263	1674	206/508,511,504,302,501.ccls.	USPAT	OR	OFF	2019/02/20 20:10
S264	2380	280/47.18,47.19,47.26,79.2.ccls.	USPAT	OR	OFF	2019/02/20 20:10
S265	554	280/47.28,652.ccls.	USPAT	OR	OFF	2019/02/20 20:11
S266	1372	312/107,111.ccls.	USPAT	OR	OFF	2019/02/20 20:11
S267	0	("9701443").URPN.	USPAT	OR	OFF	2019/02/20 20:49
S268	0	("2019/0039781").URPN.	USPAT	OR	OFF	2019/02/20 20:54
S269	0	("2019/0002004").URPN.	USPAT	OR	OFF	2019/02/20

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2262
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

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S270	0	("2009/0103279").URPN.	USPAT	OR	OFF	2019/02/20 21:06
S271	0	("2009/0103279").URPN.	USPAT	OR	OFF	2019/02/20 21:07
S272	1	("2006/0006770").URPN.	USPAT	OR	OFF	2019/02/20 21:07
S273	40	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT	OR	OFF	2019/02/20 21:55
S274	48	("3506321").URPN.	USPAT	OR	OFF	2019/02/20 21:56
S275	46	("2988412" | "3032381" | "3506321" | "3514170" | "3529878").PN. OR ("3642337").URPN.	US-PGPUB; USPAT	OR	OFF	2019/02/20 21:57
S276	24	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	OFF	2019/02/20 22:58
S277	24	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	OFF	2019/02/20 23:00

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT **(Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	8177463	B2	2012-05-15	Walker	
/G.R.W/	2	6637707	B1	2003-10-28	Gates et al.	
/G.R.W/	3	5608603	A	1997-03-04	Su	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	20180044059	A1	2018-02-15	BRUNNER	
/G.R.W/	2	20130121783	A1	2013-05-16	Kelly	
/G.R.W/	3	20110181008	A1	2011-07-28	BENSMAN et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	Yaron Brunner
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	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

/G.R.W/	4	20100147642	A1	2010-06-17	Andochick	
/G.R.W/	5	20090145790	A1	2009-06-11	Panosian et al.	
/G.R.W/	6	20080277221	A1	2008-11-13	Josefson et al.	
/G.R.W/	7	20050139745	A1	2005-06-30	Liao et al.	

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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	Attorney Docket Number	55390-501C01US

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	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-05-01
Name/Print	Elissa M. Kingsland	Registration Number	63,259

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	15/826,232
				Filing Date	November 29, 2017
				First Named Inventor	Yaron Brunner
(Use as many sheets as necessary)				Art Unit	3736
				Examiner Name	G. R. Weinerth
Sheet	1	of	3	Attorney Docket Number	55390-501C01US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.R.W/	A	US-20080169739-A1	07-17-2008	Goldenberg	
	B	US-20170138382-A1	05-18-2017	KO	
	C	US-6,109,627	08-29-2000	Be	
	D	US-6,431,580	08-13-2002	Kady	
	E	US-6,945,546	09-20-2005	Guirlinger	
	F	US-6,983,946	01-10-2006	Sullivan et al.	
	G	US-7,066,475	06-27-2006	Barnes	
	H	US-7,147,243	12-12-2006	Kady	
	I	US-20090145913-A1	06-11-2009	Panosian et al.	
	J	US-2,970,358	02-07-1961	Elsner	
	K	US-4,168,076	09-18-1979	Johnson	
	L	US-5,035,445	07-30-1991	Poulin	
	M	US-6,948,691	09-27-2005	Brock et al.	
	N	US-7,044,484	05-16-2006	Wang	
	O	US-7,658,887	02-09-2010	Hovatter	
	P	US-8,028,845	10-04-2011	Himes	
	Q	US-8,454,033	06-04-2013	Tsai	
	R	US-8,985,922	03-24-2015	Neumann	
	S	US-6,347,847	02-19-2002	Tiramani et al.	
	T	US-6,601,930	08-05-2003	Tiramani et al.	
	U	US-20020171228-A1	11-21-2002	Kady	
	V	US-20040103494-A1	06-03-2004	Valentini	
	W	US-20050062244-A1	03-24-2005	Guirlinger	
	X	US-20050104308-A1	05-19-2005	Barnes	
	Y	US-20100052276-A1	03-04-2010	Brunner	
	Z	US-7,780,026	08-24-2010	Zuckerman	
	AA	US-20080121547-A1	05-29-2008	Dur et al.	
	AB	US-20030146589-A1	08-07-2003	Jarko et al.	
	AC	US-5,301,829	04-12-1994	Chrisco	
	AD	US-20040206656-A1	10-21-2004	Dubois et al.	
	AE	US-6,367,631	04-09-2002	Steigerwald	
/G.R.W/	AF	US-20190106244-A1	04-11-2019	Brunner et al.	

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				Art Unit	3736
(Use as many sheets as necessary)				Examiner Name	G. R. Weinerth
Sheet	2	of	3	Attorney Docket Number	55390-501C01US

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
/G.R.W/	A	DE-29708343-U1	07-03-1997	Fliesen Richter Gmbh		√
	B	WO-2017191628-A1	11-09-2017	Keter Plastic Ltd		
	C	WO-2007121745-A1	11-01-2007	J O Madsen Aps		
	D	WO-2007121746-A2	11-01-2007	J O Madsen Aps		
	E	WO-2009140965-A1	11-26-2009	J O Madsen Aps		
	F	WO-2011009480-A1	01-27-2011	Alfred Käercher GmbH & Co. KG		√
	G	WO-2013026084-A1	02-28-2013	Demain Technology Pty Ltd		
	H	WO-14125488-A2	08-21-2014	Keter Plastic Ltd		
	I	WO-2017212840-A1	12-14-2017	Genesis Co Ltd		√
	J	CN-102248523-A	11-23-2011	Zhejiang Prulde Electric Appliance Co., Ltd		√
	K	CN-200947356-Y	09-12-2007	Fu		√
	L	DE-102012106482-A1	01-23-2014	Sortimo Internat Ausruestungssysteme Fuer Servicefahrzeuge GmbH		√
	M	DE-102015013053-A1	04-13-2017	Plaston AG		√
	N	DE-102015112204-A1	02-16-2017	Auer Packaging GmbH		√
	O	EP-2346741-A1	07-27-2011	J O Madsen Aps		√
	P	EP-2805799-A2	11-26-2014	Festool GmbH		√
	Q	EP-3141354-A1	03-15-2017	Adolf Würth GmbH & Co KG		√
	R	GB-694707-A	07-22-1953	Chard		
	S	DE-3510307-A1	09-25-1986	Kh Wärme & Service AG		√
	T	JP-2003194020-A	07-09-2003	Takigen Mfg Co		√
	U	GB-2047181-B	02-02-1983	Ateliers Reunis		
/G.R.W/	V	EP-1428764-B1	06-28-2006	Utz Georg Holding AG		√

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	08/18/2019

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Sheet	3	of	3	Attorney Docket Number	55390-501C01US

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Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
/G.R.W/	A	Sortimo Logistixx, Sortimo International GmbH, Mobile Sortimente, http://p125638.mittwaldserver.info/fileadmin/media/PDFs/Logistixx_Broschuere_DE_WEB.pdf.	
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	C	BluCave Video. https://www.youtube.com/watch?v=Sw7fQQPwOtY&feature=youtu.be&t=32.	
	D	Batavia Gmbh. BluCave Storage System. https://protect-us.mimecast.com/s/5XlGCR6KypcgJnlKi9EDoim?domain=batavia.eu.	
	E	ITS. Dewalt 171229 Dewalt TSTAK Carrier Trolley, https://www.its.co.uk/pd/171229-Dewalt-TSTAK-Carrier-Trolley-_DEW171229.htm.	
	F	Youtube. TSTAK Phase 2 Upgrades Video. https://www.youtube.com/watch?v=jb06y6J1dr4&feature=youtu.be&t=197.	
	G	Get Tools Direct. TSTAK Vac Rack (Suits DWV902M & DWV900L) DwV9500-XJ, https://www.gettoolsdirect.com.au/dewalt-tstak-vac-rack-suits-dwv902m-and-dwv900l-dwv9500-xj.html.	
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	I	ToolGuyd. Ryobi ToolBlox Tool Cabinet System, https://toolguyd.com/ryobi-toolblox-cabinets/.	
	J	Batavia. BluCave Universal Storage System, https://batavia.eu/blucave-storage-system/.	
	K	The Greenhead. Blitz Box - Portable Storage Box/Shelf, https://www.thegreenhead.com/2013/03/blitz-box-portable-storage-box-shelf.php.	
/G.R.W/	L	Amazon. Hopkins FloTool 91002 Thino Box with Mount, https://www.amazon.com/exec/obidos/ASIN/B003K15F3I/20140000-20.	

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

30623 7590 09/03/2019

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WEINERTH, GIDEON R	

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3736	

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15/826,232	11/29/2017	Brunner et al.	55390-501C01US

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		3736	20190828

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Examiner Name	G. R. Weinerth
Attorney Docket Number	55390-501C01US

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	08/28/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-08-20
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2277
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232 | Confirmation No.: 1070

Filed: November 29, 2017 | Art Unit: 3736

For: UTILITY ASSEMBLY AND COUPLING MECHANISM | Examiner: G. R. Weinerth

COMMENTS ON EXAMINER'S REASONS FOR ALLOWANCE

Dear Commissioner:

Applicant has received the Examiner's Statement of Reasons for Allowance with the August 26, 2019, Notice of Allowance and Allowability regarding the above-identified application. Entry of the Statement into the record should not be construed as any agreement with or acquiescence in the reasoning stated by the Examiner. Each of the claims stands on its own merits and is patentable because of the combination it recites and not because of the presence or absence of any one particular element.

The Examiner's Statement was not prepared by Applicant and only contains the Examiner's possible positions in one or more reasons for allowability. Thus, any interpretation with respect to the Examiner's Statement of Reasons for Allowance should not be imputed to the Applicant.

Further, Applicant does not agree that the provisions of 35 U.S.C. §112(f) / §112(6) apply with respect to claim interpretation.

Date: September 5, 2019

Respectfully submitted,
Electronic Signature: /Elissa M. Kingsland/
Elissa M. Kingsland – Reg. No. 63,259
Attorney for Applicant(s)
MINTZ LEVIN COHN FERRIS
GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000

87614133v.1

Electronic Acknowledgement Receipt

EFS ID:	37074307
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	05-SEP-2019
Filing Date:	29-NOV-2017
Time Stamp:	15:25:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Post Allowance Communication - Incoming	Comments_501C01.pdf	15742 40ae92b2b0793f86f67f3809c8fd1459e6d703cf	no	1

Warnings:

Information:	
Total Files Size (in bytes):	15742

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date
15/826,232	November 29, 2017

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 30623

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Milwaukee Electric Tool Corporation

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	
Name	TY STAVISKI		
Title	SVP & CFO		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt	
EFS ID:	37561672
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	25-OCT-2019
Filing Date:	29-NOV-2017
Time Stamp:	16:56:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	501C01US.pdf	408303 e26e2cce1ad35fea9fd0e5a121e168ad2d380670	no	1
Warnings:					

Information:	
Total Files Size (in bytes):	408303

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US

CONFIRMATION NO. 1070

30623
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

POA ACCEPTANCE LETTER

OC000000112229785

Date Mailed: 10/30/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/25/2019.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/byemane/

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	15/826,232	Filing Date	2017-11-29	Docket Number (if applicable)	55390-501C01US	Art Unit	3736
First Named Inventor	Yaron Brunner			Examiner Name	Weinerth, Gideon R.		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☐ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☒ Other Cited References

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 50-0311

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

X Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-11-25
Name	Elissa M. Kingsland	Registration Number	63259

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Yaron Brunner et al.	Allowed: August 26, 2019
Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3736
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement, pursuant to 37 C.F.R. § 1.114(c), accompanies the Request for Continued Examination (37 C.F.R. § 1.114) submitted herewith.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted. Submitted herewith are copies of foreign patents and non-patent literature in accordance with 37 C.F.R. § 1.98(a)(2).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: November 25, 2019

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

93785825v.1

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2289
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 2 289 671 A2

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
02.03.2011 Bulletin 2011/09

(51) Int Cl.:
B25H 3/02 *(2006.01)*

(21) Application number: **10174339.1**

(22) Date of filing: **27.08.2010**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR
Designated Extension States:
BA ME RS

(30) Priority: **17.08.2010 US 858376**
01.09.2009 US 238937 P

(71) Applicant: **The Stanley Works Israel Ltd.**
48091 Rosh Ha'Ayin (IL)

(72) Inventors:
- **Bar-Erez, Sharon**
  Kefar Sirkin (IL)
- **Vilkomirski, Gil**
  Petach Tiqwa (IL)

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Black & Decker
Patent Department
210 Bath Road
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(54) Rolling container assembly with adjustable storage units

(57) An apparatus for transporting articles between working locations. The apparatus includes wheels mounted towards the bottom of the apparatus for rotation about an axis to provide rolling support for the apparatus and a manually engageable pulling handle. The pulling handle and the ground engaging wheels are arranged to enable a user to manually pull the pulling handle generally rearwardly so as to tilt the apparatus rearwardly to a tilted rolling movement position, thereby enabling the user to roll the apparatus to a desired location by pushing or pulling the pulling handle in a desired direction. The apparatus also includes a frame and at least one or more mount structures adjustably connected to the frame. The apparatus further includes a plurality of containers connected to the mount structures, where at least one of the containers are of a different configuration from another one of the containers.

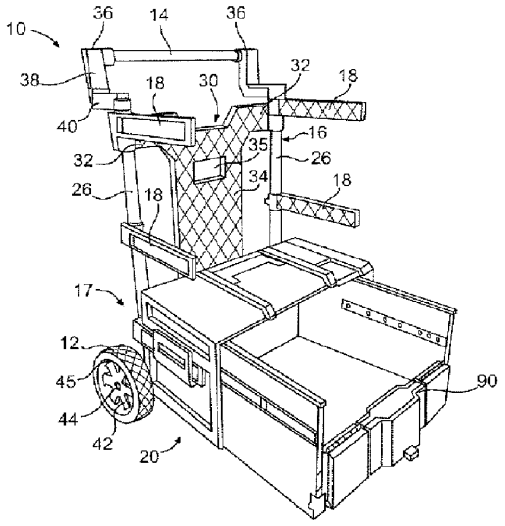


FIG. 1

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Description

[0001] The present invention relates to a rolling container assembly.

[0002] Rolling tool container assemblies are commonly used to carry a plurality of working tools to the working location. However, such tool container assemblies typically do not have adjustable mount structures that enable containers to be releasably mounted to the assembly. There is a need in the art for an improved storage system.

[0003] One aspect of the invention provides an apparatus for transporting articles between working locations. The apparatus includes one or more rotatable ground engaging wheels mounted towards the bottom of the apparatus for rotation about an axis to provide rolling support for the apparatus and a manually engageable pulling handle. The pulling handle and the one or more ground engaging wheels are arranged to enable a user to manually pull the pulling handle generally rearwardly so as to tilt the apparatus rearwardly to a tilted rolling movement position, thereby enabling a user to roll the apparatus to a desired location by pushing or pulling the pulling handle in a desired direction. The apparatus also includes a frame and at least one or more mount structures adjustably connected to the frame. The apparatus further includes a plurality of containers connected to the one or more mount structures, where at least one of the containers are of a different configuration from another one of the containers.

[0004] Another aspect provides an apparatus for transporting articles between working locations. The apparatus includes one or more rotatable ground engaging wheels mounted towards the bottom of the apparatus for rotation about an axis to provide rolling support for the apparatus. The apparatus also includes a manually engageable pulling handle. The pulling handle and the one or more ground engaging wheels are arranged to enable a user to manually pull the pulling handle generally rearwardly so as to tilt the apparatus rearwardly to a tilted rolling movement position, thereby enabling the user to roll the apparatus to a desired location by pushing or pulling the pulling handle in a desired direction. The apparatus further includes a frame and a plurality of containers releasably connected to the frame, wherein each of the containers is independently mounted on the frame to enable removal of one of the containers without removal of any of the other containers.

[0005] These and other aspects of the present invention, as well as the methods of operation and functions of the related elements of structure and the combination of parts and economies of manufacture, will become more apparent upon consideration of the following description and the appended claims with reference to the accompanying drawings, all of which form a part of this specification, wherein like reference numerals designate corresponding parts in the various figures. In one embodiment, the structural components illustrated herein can be considered drawn to scale. It is to be expressly understood, however, that the drawings are for the purpose of illustration and description only and are not a limitation of the invention. In addition, it should be appreciated that structural features shown or described in any one embodiment herein can be used in other embodiments as well. As used in the specification and in the claims, the singular form of "a", "an", and "the" include plural referents unless the context clearly dictates otherwise.

Figure 1 is a perspective front view of a rolling storage assembly in accordance with an embodiment of the present invention;

Figure 2 is a perspective view of the rolling storage assembly with containers mounted thereto in accordance with an embodiment of the present invention;

Figure 3 is a perspective view of a container being mounted to the rolling storage assembly in accordance with an embodiment of the present invention;

Figure 4 is a perspective bottom view of a side handle of a container in accordance with an embodiment of the present invention;

Figure 5 is a perspective view of a chassis of the rolling container assembly in accordance with an embodiment of the present invention;

Figure 6 is a perspective view of the chassis of the rolling container assembly with mount structures folded in the storage position in accordance with an embodiment of the present invention;

Figure 7 is a perspective rear view of the rolling storage assembly with containers mounted thereto in accordance with an embodiment of the present invention;

Figure 8 is a perspective view of a mount structure and attachment structure in accordance with an embodiment of the present invention;

Figure 9a-9b are partial cross sectional views of a mount structure, mounting bar, and attachment structure in accordance with an embodiment of the present invention;

Figure 10a-10b are perspective views of a large container of the rolling storage assembly in accordance with an embodiment of the present invention;

Figure 11a-11b are perspective views of a small container of the rolling storage assembly in accordance with an embodiment of the present invention;

Figure 12a-12b are perspective views of a toolbox container of the rolling storage assembly in accordance with an embodiment of the present invention;

Fig. 13 shows a front perspective view of the rolling container assembly in accordance with another embodiment;

Fig. 14 shows a rear perspective view of the rolling container assembly of the embodiment of Fig. 13;

Fig. 15 shows the front perspective view of the chassis of the rolling container assembly of the embodiment of Fig. 13;

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Fig. 16 shows a detailed view of the mount structure attached to the mounting bar in accordance with an embodiment;
Figs. 17A-17B show detailed perspective and partial cross-sectional views, respectively, of the mount structure in accordance with an embodiment;
Figs. 18A-18B show detailed perspective and partial cross-sectional views, respectively, of the mount structure in accordance with an embodiment;
Fig. 19 shows a front perspective view of the chassis with folded mount structures in accordance with an embodiment;
Figs. 20A-20B show detailed views of a rear latching structure of the rolling container assembly in the unlatched and latched positions, respectively, in accordance with an embodiment;
Figs. 21A-21B show a first container of the rolling container assembly in accordance with an embodiment;
Figs. 22A-22B show a second container of the rolling container assembly in accordance with an embodiment;
Figs. 23A-23B show a third container of the rolling container assembly in accordance with an embodiment;
Fig. 24 is a perspective view of the first, second, and third containers latched directly together in accordance with an embodiment;
Fig. 25A-25C are detailed views of side latch structures of the first container in accordance with an embodiment;
Fig. 26 is a detailed view of a rear latching assembly in accordance with an embodiment;
Figs. 27A-27B are detailed views of the rear latching assembly attached to the chassis in accordance with an embodiment;
Fig. 28A-28C are detailed views of a docking assembly in accordance with an embodiment; and
Figs. 29A-29B are partial cross sectional views of a mount structure, mounting bar, and attachment structure in accordance with an embodiment of the present invention.

[0006] Figure 1 shows an apparatus 10 for transporting articles between working locations. The apparatus 10 includes one or more rotatable ground engaging wheels 12 mounted towards the bottom of the apparatus 10 for rotation about an axis to provide rolling support for the apparatus 10 and a manually engageable pulling handle 14. The pulling handle 14 and the one or more ground engaging wheels 12 are arranged to enable a user to manually pull the pulling handle 14 generally rearwardly so as to tilt the apparatus 10 rearwardly to a tilted rolling movement position, thereby enabling a user to roll the apparatus 10 to a desired location by pushing or pulling the pulling handle 14 in a desired direction. The apparatus 10 may also include a chassis 17, which may comprise a frame 16 and at least one or more mount structures 18 adjustably connected to the frame 16. The apparatus 10 further includes a plurality of containers 20, 22, and 24 (see Figure 3) releasably connected to the mount structures 18. In one embodiment, at least two of the containers 20, 22, and 24 are of a different configuration from one another. The plurality of containers 20, 22, 24 may be releasably connected to the mount structures 18 such that each of the plurality of containers 20, 22, 24 may be independently removable from the mount structures 18 and the chassis 17. That is, each of the plurality of containers 20, 22, and 24 may be released and removed from their respective mount structures 18 and from the chassis 17 without releasing any of the other containers of the plurality of containers 20, 22, and 24. The plurality of containers 20, 22, 24 may also be releasably connected to the mount structures 18 and arranged such that the containers 20, 22, 24 are spaced from one another. In other words, the containers 20, 22, and 24 may be connected to the mount structures 18 and arranged on the chassis 17 such that each container 20, 22, 24 does not contact or rest on another container 20, 22, and 24. As such, a lower container 20, 22, 24 may be removed from the chassis 17 without having to remove a container 20, 22, 24 located above the lower container 20, 22, 24.

[0007] It is contemplated that the mount structures 18 are not limited to the configuration shown in the illustrated embodiment. The mount structures 18 may have any configuration that enables the containers 20, 22, 24 to be mounted thereon. The mount structures 18 may be, just for example, trays or hooks connected to the frame 16. In some embodiments, the mount structures 18 may be removed from the frame 16. Alternatively or additionally, in some embodiments, the mount structures 18 may also be optionally fixed to the frame 16.

[0008] As shown in Figure 1, the frame may comprise two vertically extending mounting bars 26. The mounting bars 26 may be configured and arranged to attach the mount structures 18 to the frame 16 using attachment structures 28 (see Figure 7). The attachment structures 28 may also be configured and arranged to enable the mount structures 18 to be adjusted on or removed from the frame 16. The attachment structures 28 will be described in detail later. The apparatus 10 may optionally have a rear member 30 secured to the frame 16. The rear member 30 may be made from suitably molded plastic, although it is contemplated that other materials known in the art may be used, such as, for example, metal or wood. The rear member 30 may be formed with ribs 29 (see Figure 5) that are deployed crosswise with respect to one another such that diamond and triangular shapes are formed. In this embodiment, the rear member 30 includes legs 32 (four are shown in Figure 6) and a base portion 34. The legs 32 may be constructed and arranged to extend from the base portion 34 and attach to the mounting bars 26 of the frame 16. The base portion 34 may have recesses 35 (see Figure 6) formed on the upper and lower halves of the base portion 34. The legs 32 may

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have recesses which may hold the mounting bars 26 therein. It is contemplated that the legs 32 may be attached to the mounting bars 26 using other attachment mechanisms, such as adhesive bonding, pins, clamps, screws, fasteners, or other attachment mechanisms known in the art. In this embodiment, the mount structures 18 extend forwardly of the mounting bars 26 to enable the containers 20, 22, or 24 to be mounted to the chassis 17. The mounting bars 26 may be made of metal, plastic, wood, or other materials known in the art. The containers 20, 22, and 24 may be made from plastic, although it is contemplated that other materials known in the art may be used, such as, for example, metal or wood, or a combination thereof.

[0009] As shown in Figure 1, the handle 14 may be a cylindrical rod extending between handle attachment members 36 on each side. The handle attachment members 36 are used to attach the handle 14 to the frame 16 of the chassis 17. In the embodiment shown in Figure 1, the L-shaped handle attachment members 36 has a main portion 38 and a ledge 40, and the handle 14 is horizontally displaced from the mounting bars 14 at a distance equal to the length of the ledge 40. This placement of the handle 14 relative to the rest of the chassis 17 facilitates access to the handle 14 and facilitates the pushing and pulling of the handle 14. The handle attachment members 36 may be hollow, thus enabling the handle attachment members 36 to receive the mounting bars 26 on one end (near the ledge 40) and the handle 14 on the other end (near the main portion 38). The handle 14 may be made of metal, plastic, wood, or other materials known in the art. In some embodiments, rubber or other anti-slip material may be provided on the surface of the handle 14 to facilitate the grasping of the handle 14. Although the handle 14 shown in Figure 1 is fixed relative to the chassis 17, it is contemplated that in some embodiments, the handle 14 may be constructed and arranged to be extendable. It is also contemplated that the handle 14 may have other configurations, shapes, and arrangements. For example, in the embodiment shown in Figure 7, the handle 14 may be pivotally attached to the chassis 17 via pivot pins 41. The handle 14 may be pivoted to a position wherein the handle 14 is generally perpendicular to the mounting bars 26 to facilitate the pulling and pushing of the apparatus 10. Alternatively, the handle 14 may be pivoted to the upright position for storage.

[0010] As shown in Figure 1, the ground engaging wheels 12 may be attached to the chassis 17. In other embodiments, the ground engaging wheels 12 may be attached to the container 20, 22, or 24 mounted towards the bottom of the apparatus 10. In one embodiment, each of the wheels 12 is a molded structure reinforced by a plurality of wheel ribs 42 and each wheel 12 is mounted on an end of an elongated axle 44 by two hubs 45 or other appropriate structure. The axle 44 may be an elongated cylindrical shaft that is snap fit into rotational engagement with a receiving structure of the container 20, 22, or 24 or the chassis 17 in conventional fashion. Alternatively, the axle 44 can be mounted to the apparatus 10 through a pair of axially aligned through-holes (not shown) formed in the container 20, 22, 24 or the chassis 17. The wheels 12 may have rubber treads or other anti-slip material provided on the surface to provide friction with the ground when the apparatus 10 is to be rolled from one location to another.

[0011] Figure 2 is a perspective view of the apparatus 10 with three containers 20, 22, and 24 mounted to the chassis 17. The containers 20, 22, and 24 may have coupling elements that provide releasable connection with the mount structures 18. In this embodiment, the coupling elements take the form of pairs of side handles 98, 100, or 102 on each side of the containers 20, 22, and 24. The side handles 98, 100, and 102 are constructed and arranged to clamp or otherwise engage or couple or latch or connect onto the mount structures 18 to enable the containers 20, 22, and 24 to be releasably or removably connected to the chassis 17. This embodiment is not intended to be limiting, and it is contemplated that the coupling elements may have a variety of configurations, locations, and arrangements in other embodiments. Just for example, in some embodiments, the coupling elements may be separate from the side handles 98, 100, and 102. Referring back to the embodiment shown in Fig. 2 the toolbox container 24 is mounted to the mount structures 18 via side handles 98. The small container 22 is releasably connected to the structures 18 via side handles 100. The large container 20 is releasably connected to the mount structures 18 via side handles 102. The words "small" and "large" are used here to relatively differentiate among the different containers shown in this embodiment and are not intended to be limiting. Thus, the small container 22 may be equal or larger in size than the large container 20 in some embodiments. The arrangement and location of the containers on the chassis 17 may vary and may be customized according to user preferences. The toolbox container 24, the small container 22, and the large container 20 will be described in detail later. It is contemplated that the number of mount structures 18 may vary, depending on the number of containers that the user would like to place on the chassis 17. It is also contemplated that different combinations of containers may be used. Just for example, there may be four toolbox containers 24 mounted to the chassis 17 or three large containers 20 mounted to the chassis 17. The apparatus 10 and the containers 20, 22, and 24 are generally rectangular in shape. However, any convenient shape may be used. In some embodiments, the containers 20, 22, 24 may be constructed and arranged such that the containers 20, 22, 24 may be placed in a stacked relation directly on top of one another without the use of the chassis 17.

[0012] In other embodiments, a structure different from (or in addition to) the handles 98, 100, and 102 may be used to latch the containers onto the mount structures 26. In one embodiment, a clamp separate from the handles 98, 100, and 102 may be used to latch the containers

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20, 22, and 24 to the mount structures 18. In one embodiment, the mount structures 18 may include attachment members constructed and arranged to clamp or otherwise engage or couple or latch or connect onto mount structure engaging members on the containers 20, 22, and 24. For example, in one embodiment, the mount structures 18 may include a latching structure in the form of a clamp that engages with a portion of the containers 20, 22, and 24 to latch the containers 20, 22, and 24 to the mount structures 18. In one embodiment, the containers 20, 22, and 24 may include hooks to engage with the mount structures 18. In another embodiment, multiple mount structure engaging members may be provided on each of the containers 20, 22, and 24 at various locations such that the position of the containers 20, 22, 24 on the chassis 17 may be changed by engaging the mount structures 18 with different mount structure engaging members on each of the containers 20, 22, or 24. In yet another embodiment, the mount structures 18 may be integrally formed with the handles 98, 100, and 102 of the containers 20, 22, and 24 such that the position of the containers 20, 22, 24 on the chassis 17 may be changed by adjusting the mount structures 18 on the frame 16. The mount structures 18 may optionally be integrally formed with other parts of the containers 20, 22, and 24.

[0013] Figure 3 is a perspective view of the side handle member 100 of the small container 22. The small container 20 may have an upper depression 92 and a lower depression 94 on each of opposing side walls 60. The side handles 100 may be pivotally attached to each of the side walls 60 between the upper depression 92 and the lower depression 94. As shown in Figure 4, the side handle 100 may be attached to the container portion 52 using hinges 99 and pins 101, although it is contemplated that snap-fit connections, fasteners, and other attachment mechanisms may be used. The side handle 100 may include springs 109 (one is shown in Figure 4) that biases the side handle 100 in the retaining position such that the side handle 100 is generally parallel with the side wall 60, as shown in Figure 2. The side handle 100 may be pivoted in a counterclockwise direction to a release position wherein the container 22 may be connected to or removed from the mount structures 18, as shown in Figure 3. In the release position, the side handle 100 may be generally perpendicular to the side wall 60. The side handle 100 may include a gripping portion 104 on an end opposite the end connected to the side wall 60. The gripping portion 104 may be constructed and arranged such that the gripping portion 104 contacts the surface of the lower depression 94 when the side handle 100 is in the retaining position. In this embodiment, the gripping portion 104 is made of rubber material with grooves formed therein to facilitate the grasping of the side handle 100. It is contemplated that the side handle 100 may be made of other materials, or may have other shapes or arrangements provided on the surface thereof. A recess 106 may be formed in the side handle 100 to facilitate grasping of the side handle 100. As shown in Figure 3, the lower depression 94 may create a ledge 96 that surrounds the depression 94. The ledge 96 may include a cutout 103 (see Figure 11a) formed near the rear wall 60 of the container portion 52. The cutout 103 may be sized and arranged so that the mount structures 18 may slide through the cutout 103 to be received in the depression 94 when the container 22 is mounted to the chassis 17.

[0014] As shown in Figure 3, when the container 22 is to be mounted to or removed from the chassis 17, the user may lift the container 22 by grasping the side handle members 100 of the container 22 so that the side handle members 100 are in the release position. The container 22 is then positioned such that the mount structures 18 may slide through the cutouts 103 to be received in the lower depressions 94. In this embodiment, when the container 22 is mounted to the chassis 17, the container 22 is supported by the mount structures 18, and an upper surface 108 of each mount structure 18 is disposed against an upper portion 110 of the ledge 96 of the container 22. The side handles 100 may then be released, whereby the spring 109 snaps the side handles 100 pivotally to the retaining position. The mount structures 18 may then be retained between the upper portion 110 of the ledge 96 and the gripping portion 104 of the side handles 100. The other containers, such as the toolbox container 24 and the large container 20, may be mounted to the chassis 17 in a similar manner. The side handles 98 of the toolbox container 24 and the side handles 102 of the large container 20 may be constructed and arranged in a similar manner as side handles 100.

[0015] As shown in Figures 5 and 6, the chassis 17 may also include a chassis support structure or frame 46 providing a generally downwardly facing fixed ground engaging surface, the ground engaging surface being located forwardly of said one or more rotatable ground engaging wheels 12 and being constructed and arranged to engage the ground. The chassis support structure 46 may comprise a middle portion 48 that extends from one mount structure, in this embodiment taking the form of the mounting bar 26, to another mount structure; two side portions 50 (one is shown in Figure 5) that extend generally perpendicularly from the middle portion 48; and a front portion 49 (see Figure 2) constructed and arranged to attach to the two side portions 50 and extend generally parallel to the middle portion 48. In some embodiments, the supporting frame 46 may have feet (not shown) attached to the bottom of the support structure 46 and constructed and arranged to engage the ground. The feet may be made of rubber or other anti-slip material to provide friction when engaged with the ground. The chassis support structure 46 may generally be made of plastic, although it is contemplated that other materials known in the art may be used. It is contemplated that in one embodiment, the chassis support structure 46 may be a frame including a platform 51 (as shown in Figure 7). The platform 51 may be used to carry a container 20, 22, 24 thereon.

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[0016] As shown in Figure 5, the mount structures 18 may be in an extended position wherein the mount structures 18 extend generally perpendicularly from a plane defined by the mounting bars 26 and the rear member 30. When the mount structures 18 are in the extended position, containers 20, 22, and 24 may be releasably connected to the mount structures 18. Alternatively, the mount structures 18 may be folded towards the support structure 26 to a folded position for storage and portability, as shown in Figure 6. The attachment structures 28 for the mount structures 18 may be constructed and arranged to allow the mount structures 18 to be rotated to the folded position.

[0017] Figure 7 is a rear perspective view of the apparatus 10. In this embodiment, the apparatus 10 includes the attachment structures 28 for adjustably connecting the two pairs of mount structures 18b, and 18c to the frame. In this embodiment, the pair of mount structures 18a are not releasably connected to the mounting bars 26 via the attachment structures 28, although the mount structures 18a may be rotated around the mounting bars 26 for storage. In other embodiments, the mount structures 18a may be releasably connected to the mounting bars 26 using the attachment structures 28. Although wheels 12 are not shown in Figure 7, it is contemplated that the wheels 12 may be attached to the bottom portion of the chassis 17, as shown in Figures 1 and 2. In one embodiment, there may be side support structures 53 extending perpendicularly from the rear member 30. The side support structures 53 may be constructed and arranged to support the container 20, 22, or 24 that is disposed on the platform 51.

[0018] Figure 8 is a detailed view of the mount structure 18 and attachment structure 28 in accordance with the embodiment shown in Figure 7. In this embodiment, the mount structure 18 has strengthening ribs 112 deployed crosswise relative to one another across the inner surface to provide extra support for the mount structures 18 when the containers 20, 22, and 24 are releasably connected to the mount structures 18. The attachment portion 114 of the mount structure 18 may include a rotatable connection that enables the mount structure 18 to be rotated between the folded position and the extended position. In this embodiment, the rotatable connection takes the form of a groove 116 profile formed in the attachment portion 114 and an insertion ring 118. The groove 116 is constructed and arranged to receive the insertion ring 118 such that the groove 116 and the insertion ring 118 may be rotatably connected to one another. The insertion ring 118 may be constructed and arranged to remain stationary while the mount structure 18 is rotated between the extended and folded positions. In this embodiment, a recess 122 is formed in the insertion ring 116 and attachment portion 114 of the mount structure 18, and the recess 122 is constructed and arranged to receive the mounting bar 26.

[0019] As shown in Figure 8, the attachment structure 28 includes a pull member 112 that is constructed and arranged to release the attachment structure 28 from the mounting bar 26. The pull member 112 may be connected to an engaging member 124, in this embodiment taking the form of a finger 124, that is constructed and arranged to extend into the recess 122 when the pull member 112 is in a locked position (as shown in Figure 9a) wherein the position of the mount structure 28 on the mounting bar 26 may not be adjusted. The pull member may be pulled to an unlocked position (as shown in Figure 9b) wherein the position of the mount structure 28 on the mounting bar 26 may be adjusted. The attachment structure 28 may include a tension spring (not shown) that biases the pull member 112 in the locked position. Bolt nuts 126 may be used to attach the pull member 112 to the finger 124.

[0020] Figures 9a and 9b show the operation of the attachment structure 28 in accordance with the embodiment shown in Figures 7 and 8. Openings 128 may be provided along the length of the mounting bars 26 for the placement of the attachment structures 28. The openings 128 may be constructed and arranged to receive the finger 124 when the attachment structure 28 is in the locked position, as shown in Figure 9a. To move the attachment structure 28 to the unlocked position so that the finger 124 is no longer in the opening 128, the user may simply pull the pull member 112 in a direction away from the mounting bar 26, as shown in Figure 9b. When the finger 124 is outside of the opening 128, as shown in Figure 9b, the attachment structure 28 may be removed from the mounting bar 26 or adjusted to another position on the mounting bar 26. In this embodiment, the pulling of the pull member 112 away from the mounting bar 26 compresses the tension spring within the attachment structure 28. The tension spring is constructed and arranged to snap the finger 124 through the opening 128 when the finger 124 is aligned with the opening 128 and the pull member 112 is released. Thus, to lock the mount structure 18 to a position on the mounting bar 26, the user may simply align the finger 124 with an opening 128 and then release the pull member 112 so that the finger 124 may snap into the opening 128. The attachment structure 28 may have any construction or configuration, and the illustrated embodiment is not intended to be limiting.

[0021] In one embodiment, the containers 20, 22, and 24 may be constructed such that there is a common denominator among the vertical dimensions of the containers 20, 22, and 24. In other words, the containers 20, 22, 24 may be constructed with vertical dimensions having a common denominator. In one embodiment, the common denominator may be dependent on the spacing between the openings 128 on the mounting bar 26. For example, the spacing between each openings 128 may be a selected distance (X), and each of the containers 20, 22, 24 may have a vertical dimension a certain number (A, B, C) of times more than X, where A, B, C may represent different values. Thus, container 20 may have a vertical dimension of AX, container 22 may have a vertical dimension of BX, and container 24 may have

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a vertical dimension of CX. Just for example, in one embodiment, the mounting bar 26 has thirty-two openings 128 that are spaced at a distance of 25 mm (where X=25 mm) apart from one another. In this embodiment, the container 20 has a vertical distance of 150 mm (where A=6), the container 22 has a vertical dimension of 175 mm (where B=7), and the container 24 has a vertical dimension of 200 mm (where C=8). This example is not intended to be limiting and it is contemplated that the values of X, A, B, and C may vary in other embodiments. The configuration of the containers 20, 22, and 24 having a common denominator described above enables optimal arrangement of the containers 20, 22, 24 on the chassis. In other words, this configuration enables the user to arrange the containers 20, 22, 24 on the chassis 17a efficiently and with optimal use of space on the mounting bars 26.

[0022] As shown in Figure 10a, the large container 20 comprises a container portion 52 and a drawer portion 54 that is constructed and arranged so that it may be received within the container portion 52. In this embodiment, the container portion 52 has a top wall or side 56, two opposing side walls or sides 58, a rear wall or side 140, and a bottom wall or side 62 defining an interior space 63. The drawer portion 54 may be held inside the interior space 63. The container portion 52 has a forward facing front opening 64 into the interior space 63 that allows access to the drawer portion 54. The top wall 56 of the container portion 52 may have strengthening ribs (not shown) deployed across the inner surface of the top wall 56 facing the interior space 63. The strengthening ribs help support the top wall 56 so that the top wall 56 may provide a top working surface for placing and sorting tools or objects. A container handle 71 may be attached to the top wall 56 to facilitate the lifting of the container 26. The handle 71 may be pivotally attached to the top wall 56 of the container portion 52 using pivot pins (not shown), although it is contemplated that other attachment mechanisms, such as rivets, fasteners, and other attachment mechanisms known in the art may be used. The container handle 71 may be disposed within a recess 69 (see Figure 10b) formed in the top wall 56 when the handle 71 is not in use and may be pivoted to an upright position when the handle 71 is in use. Grooves may be formed on the surface of the container handle 71 or rubber material or other anti-slip material may be provided on at least a portion of the container handle 71 to facilitate the grasping of the handle 71. It is contemplated that in some embodiments, the container handle 71 may be fixed such that the container handle 71 may not be movable from one position to another. The container portion 52 may generally be made of suitably molded plastic. It is contemplated that other materials may be used, such as, for example, wood, metal, or other materials known in the art.

[0023] Each of the two opposing side walls 140 of the container portion 52 may include an upper depression 61 and a lower depression 65. A cutout 67 may be formed in each of the lower depressions 65. As described previously with respect to the small container 22, the cutouts 67 and the side handles 100 of the large container 20 may be used to releasably connect the large container 20 to the mount structures 18 in a similar manner. The side handles 102 of the large container 20 may be constructed and arranged in a similar manner as the side handles 100 of the small container 22 to enable the large container 20 to be releasably connected to the mount structures 18.

[0024] In the embodiment shown in Figure 10a, the drawer portion 54 has a front wall or side 66, two opposing side walls 68, a rear wall (not shown), and a bottom wall or side 72 defining an upwardly facing opening 73 (see Figure 10b) into an interior space 75 (see Figure 10b). The drawer portion 54 may slide into and out of the container portion 52 between an open position wherein the contents of the drawer portion 54 may be accessed through the upwardly facing opening 73 and a closed position wherein the contents of the drawer may not be accessed through the upwardly facing opening 73. The drawer portion 54 may be locked to the container portion 52 using latches 77 when the drawer portion 54 is in the closed position. Details of the latches 77 will be described later.

[0025] At least portions of the large container 20, such as for example, the side handles 102 and latch 77, may be made of both metal and plastic. As shown in Figure 10b, the drawer portion 54 may slide into and out of the container portion 52 through the front opening 64 of the container portion 52. The large container 20 may have ball bearing slides 74 that enable the drawer portion 54 to be slideable relative to the container portion 52 so that the drawer portion 54 can slide between the closed position and the open position. When the drawer portion 54 is in the closed position, the opening 73 is disposed below the top wall 56 of the container portion 52. Each opposing side walls 68 of the drawer portion 54 has sliding members 76 of the ball bearing slides 74 located thereon. Their associated sliding members (not shown) are located on inner surfaces of the opposing side walls 58 of the container portion 52. The ball bearing slides 74 may have stop members (not shown) that limit the distance the drawer portion 54 may be pulled from the container portion 52, thus preventing the sliding members 76 from being dislocated from the sliding members attached to the container portion 52. It is contemplated that in other embodiments, other sliding mechanisms may be used instead of the ball bearing slides, such as guides or slide rails. The ball bearing slides may be attached to the drawer portion 54 and the container portion 52 using pins, screws, adhesive bonding, or other attachment mechanisms known in the art.

[0026] In the embodiment shown in Figure 10a, the front wall 66 comprises an upper section 78 and a lower section 80, the upper section 78 being pivotally connected to the lower section 80 using hinges 82. It is contemplated that other forms of connections may be used, such

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as pins, fasteners, or other connection mechanisms known in the art. The upper section 78 and the lower section 80 may be approximately the same size, although it is contemplated that the sizes of the upper section 78 and the lower section 80 may vary. In this embodiment, the lower section 80 remains fixed to the opposing side walls 68 and the bottom wall 72 of the drawer portion 54, while the upper section 78 is pivotally connected to the drawer portion 54 by the hinges 82. The upper section 78 may be pivoted in a downward direction and towards the lower section 80 so that the upper section 78 may be "folded down", as shown in Figure 10b. As such, a side facing opening 81 (see Figure 10b) in the drawer portion 54 is exposed and the contents of the drawer portion 54 may be accessed through the side facing opening 81 even when the drawer portion 54 is in the closed position relative to the container portion 52.

[0027] The hinges 82 may be located in a connection region 84 defined by a portion of the upper section 78 and a portion of the lower section 80. In this embodiment, a depression 86 (see Figure 10a) is formed in the proximate area where the upper section 78 and the lower section 80 are connected to each other. As shown in Figure 10b, when the lower section is "folded down", the depression 86 formed in the upper section 78 of the front wall 66 and in the lower section 80 of the front wall 66 define a recess 90 that provides a handgrip such that the user can insert fingers into the recess 90 and use the handgrip to pull the drawer portion 54 away from the container portion 52 to move the drawer portion 54 to the open position. The user may pull the drawer portion 54 away from the container portion 52 by placing fingers into the recess 90 and by pulling against the upper section 78 (see Figure 10b) near the recess 90 to slide the drawer portion 54 to the open position. Alternatively, the user may pull the drawer portion 54 to the open position by pulling against the lower section 80 without having to place fingers into the recess 90. Dividers and/or inserts (not shown) may optionally be placed into the drawer portion 54 to customize and divide the interior space 75 of the drawer portion 54.

[0028] The top portion 78 of the drawer portion 54 may include a latch handle 79. As shown in Figure 10a, the latch 77 used to latch the drawer portion 54 to the container portion 52 may include a latch protrusion 81 disposed on top of the latch handle 79. The latch protrusion 81 may be constructed and arranged to engage a latch engaging portion (not shown) disposed on the container portion 52 when the drawer portion 54 is locked to the container portion 52. The latch engaging portion may also be a protrusion or may be an aperture in which the protrusion 81 is received. The latch engaging portion may engage a portion of the protrusion 81 so that the drawer portion 54 is prevented from being pulled out of the container portion 52.

[0029] When the drawer portion 54 is being unlatched, the latch handle 79 is pulled so as to be pivoted in an upwards direction against the bias of an internal spring (not shown). The handle 79 may be attached via various mechanisms, such as, for example, screws, pins, bolts, fasteners, or any other mechanism or hinges as appreciated by one skilled in the art. In one embodiment, when the latch handle 79 is pulled upwards against the spring bias, the latch handle 79 pivots and the latch protrusion 81 of the handle 79 is disengaged from the latch engaging portion. The drawer portion 54 is thus able to be slid to the open position, as shown in Figure 10a. To once again close and lock drawer portion 54, drawer portion 54 is simply manually slid back towards the closed position. During this movement, the latch engaging portion may engage a cam surface on the protrusion 81. The latch engaging portion may engage and move the cam surface on the latch protrusion 81 against the bias of the internal handle spring so as to move the handle 79 in a pivotal direction (clockwise in Figures 10a) until the protrusion 81 engages with the latch engaging portion, whereupon the handle 62 springs back to the locked configuration with the latch protrusion 81 engaged to the latch engaging portion.

[0030] Figure 11a shows an embodiment of the small container 22 of the present invention. The small container 22 may comprise a container portion 120, a drawer housing portion 130 (see Figure 11 b), and drawers 132a, 132b (two are shown in this embodiment). The container portion may include a top wall or side 138, two opposing side walls 60, a rear wall or side 142, and a bottom wall or side 144 defining an interior space 143 (see Figure 11b). As shown in Figure 11b, the drawer housing portion 130 may slide in and out of the interior space 143 through a front opening 144 to the interior space 143. The drawer housing portion may include two opposing side walls 146, a rear wall (not shown), and a bottom wall 148 defining an interior space 150. It is contemplated that in other embodiments, the number and arrangement of the drawers may vary. For example, in one embodiment, there may be three drawers arranged in a stacked relation. In another embodiment, there may be three drawers arranged in a horizontal row.

[0031] A container handle 121 may be attached to the top wall 138 to facilitate the lifting of the container 26. The handle 121 may be pivotally attached to the top wall 138 of the container portion 120 using pivot pins (not shown), although it is contemplated that other attachment mechanisms, such as rivets, fasteners, and other attachment mechanisms known in the art may be used. The container handle 121 may be disposed within a recess 123 formed in the top wall 138 when the handle 121 is not in use and may be pivoted to an upright position when the handle 121 is in use. Grooves may be formed on the surface of the container handle 121 or rubber material or other anti-slip material may be provided on at least a portion of the container handle 121 to facilitate the grasping of the handle 121.

[0032] The top wall 138 of the container portion 120 may have strengthening ribs (not shown) deployed across the inner surface of the top wall 138 facing the

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interior space 143. The strengthening ribs help support the top wall 120 so that the top wall 138 may provide a top working surface for placing and sorting tools or objects. As previously described, the cutouts 103 and the side handles 100 may be used to mount the small container 22 to the mount structures 18.

[0033] As shown in Figure 11b, ball bearing slides 134 may be disposed on the drawer housing portion 130 and the inner surface of the container portion 120 to enable the drawer housing portion 130 to slide in and out of the container portion 120. Ball bearing slides 136 may also be disposed on the lower drawers 132b to enable the drawers to slide in and out of the drawer housing portion 130. The ball bearing slides 134, 136 may have stop members (not shown) that limit the distance the drawer housing portion 130 and the lower drawer 132b may be pulled from the container portion 52 and the drawer housing portion 130, respectively. It is contemplated that in other embodiments, other sliding mechanisms may be used instead of the ball bearing slides, such as guides or slide rails. The ball bearing slides 134, 136 may be attached to the drawer housing portion 130 and the lower drawer 132b using pins, screws, adhesive bonding, or other attachment mechanisms known in the art.

[0034] The upper drawer 132a may disposed within the drawer housing portion 130 such that the contents of the upper drawer 132a may be accessed when the drawer housing portion 130 is pulled out of the container portion 120 via the ball bearing slides 134, as shown in Figure 11b. In this embodiment, to access the contents of the lower drawer 132b, the lower drawer 132 must be pulled out of the drawer housing portion 130 via the ball bearing slides 136, as shown in Figure 11 b. However, the lower drawer 132b may optionally be pulled to the open position wherein the contents of the lower drawer 132b may be accessed even when the drawer housing portion 130 is not pulled out of the container portion 120. None, one, or both of the drawers 132a, 132b may optionally be in the open position at the same time.

[0035] Each of the drawers 132a, 132b may include a latch handle 152a, 152b. The latch handles 152a, 152b may include latch protrusions 154a, 154b that may be used to latch the drawer housing portion 130 to the container portion 120 and the lower drawer 152b to the drawer housing portion 130, respectively. The drawers 132a, 132b may be latched to latch engaging portions (not shown) in the same manner as described previously with respect to the drawer portion 54 of the large container 20. Inserts 156 may optionally be placed into the drawers 132a, 132b, and the inserts 156 may optionally be divided into various compartments.

[0036] As shown in Figure 12a, the toolbox container 24 may have a lid 158 and a handle 160 located on the lid 158. The handle 160 may be pivotally attached to the lid 158 using pivot pins (not shown), although it is contemplated that other attachment mechanisms, such as rivets, fasteners, and other attachment mechanisms known in the art may be used. The container handle 160 may be disposed within a recess (not shown) formed in the lid 158 when the handle 160 is not in use and may be pivoted to an upright position when the handle 160 is in use. Grooves may be formed on the surface of the container handle 160 or rubber material or other anti-slip material may be provided on at least a portion of the container handle 160 to facilitate the grasping of the handle 160. It is contemplated that in some embodiments, the container handle 160 may be fixed such that the container handle 160 may not be movable from one position to another.

[0037] As shown in Figure 12a, the lid 158 may be pivotally connected to a container portion 162. The lid 158 can be latched onto the container portion 162 of the toolbox container 24 via latches 164. The container latches 164 may vary in numbers (there may be one or more) and may be pivotable latches, buckles, or any other latching mechanism as would be appreciated by one skilled in the art. The lid 158 may be pivotally connected to the container portion 162 using hinges, pins, screws, fastenings, bolts, or any other connection mechanism as would be appreciated by one skilled in the art. The lid 158 may also be a slide-on lid which is slid on to container portion 162 or a snap-on lid that is snapped on to the container portion 162. It is contemplated that the methods of mounting the lid 158 on to the container portion 162 may vary and the number of lids 158 may vary. For example, there may be two lids 158 pivotally connected to the container portion 162 wherein each lid 158 may be opened or closed independently of the other. The container portion may include two opposing side walls or sides 168, a front wall or side 170, a rear wall or side 172, and a bottom wall or side 174 defining an interior space 175 (see Figure 12b). A cutout 176 may be formed in each opposing side wall 168. The cutouts 176 and the side handles 98 may be used to releasably connect the toolbox container 24 to the mount structures 18 in the same manner described previously with respect to the small container 22. The side handles 98 of the toolbox container 24 may be constructed and arranged in a similar manner as the side handles 100 of the small container 22 to enable the toolbox container 24 to be releasably connected to the mount structures 18.

[0038] The latches 164 (or a single latch) of the toolbox container 24 may comprise latch members 166 that are constructed and arranged to engage with latch receiving portions (not shown) located on the lid 158. The latch members 166 may be pulled to disengage from latch engaging portions of the lid 158 so that the lid 158 may be opened to allow access to the contents of the toolbox container 24. In the embodiment shown in Figure 12b, the latch members 166 may be pulled upwards in the counterclockwise direction to engage the latch members 166 with the latch receiving portions.

[0039] As shown in Figure 12b, a removable tray 178 having a handle 180 may be carried within the toolbox container 24. The removable tray 178 may be held within the interior space 175 of the toolbox container 24 and

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may optionally be removed therefrom to be carried separately. A removable container 182 with partitions may also be held in the toolbox container 24. The removable container 182 with partitions may be constructed and arranged to hold various kinds of screwdrivers and other tools. In one embodiment, the width of the removable tray 178 may be two-thirds the width of the toolbox container 24. The removable tray 178 and the removable container 182 may be made of plastic, wood, metal, or other materials known in the art, or combinations thereof.

[0040] Fig. 13 shows another embodiment of the apparatus 10a for transporting articles between working locations. The apparatus 10a of Fig. 13 has similar components as apparatus 10 shown in and described with respect to Fig. 1, and the similar components of apparatus 10a will be labeled similarly as those of apparatus 10, but with an "a" appended thereto.

[0041] As shown in Fig. 13, the apparatus 10a includes the chassis 17a and the one or more rotatable ground engaging wheels 12a mounted toward the bottom of the apparatus 10a for rotation about an axis to provide rolling support for the apparatus 10. The wheels 12a may be molded structure reinforced by a plurality of wheel ribs 42a and each wheel 12a is mounted on an end of the elongated axle 44a of the chassis 17a by two hubs 45a or other appropriate structure. The chassis 17a also includes the manually engagable handle 14a that, when used with the ground engaging wheels 14, enable the user to manually pull the pulling handle 14a generally rearwardly so as to tilt the apparatus 10a rearwardly to a tilted rolling movement position. The handle 14a may be considered to be part of the chassis 17a or may be a separate component from the chassis 17a. The chassis 17a comprises the frame 16a and the at least one or more mount structures 18a adjustably connected to the frame 16a. The frame 16a also includes the vertically extending mounting bars 26 that are configured and arranged to attach the mount structures 18a to the frame 16a using the attachment structures 28a.

[0042] The handle 14a of the embodiment of the apparatus 10a shown in Fig. 13 is connected to the rest of the chassis 17a via an extending portion 198 that extends from a connecting portion 200, which may be connected to at least a portion of the mounting bar 26a of the chassis 17a. The handle 14a, the extending portion 198, and the connecting portion 200 may form a handle structure 201 of the apparatus 10a. The handle structure 201 may also include a rear portion 208 (see Fig. 14). Any combination of the extending portion 198, the connecting portion 200, and the handle 14a may be integrally formed. It should be appreciated, however, that any combination of the extending portion 198, connecting portion 200, and the handle 14a may be separate pieces.

[0043] The chassis 17a may optionally be provided with a docking assembly 404 (see Fig. 28a). The docking assembly 404 may be used to receive at least a portion of the handle 14a of the apparatus 10a. The base structure 406 of the docking assembly 404 may be attached to a surface, such as, just for example, a wall of a vehicle. The docking assembly 404 may be attached to the surface using bolts, screws, pins, clamps, or other attachment mechanisms. In one embodiment, the bolts or other attachments may be received in openings 405 provided on the base structure 406 to attach the docking assembly 404 to the vehicle or other surfaces. The docking assembly 404 may thus facilitate the transport or storage of the apparatus 10a.

[0044] In the embodiment shown in Fig. 28a, the docking assembly 404 includes a base structure 406 and a movable structure 408. The base structure 406 includes a receiving space 407 constructed and arranged to receive at least a portion of the movable structure 408. The movable structure 408 may be pivotally attached to the base structure 406 using pins, screws, or any other attachment mechanism. The base structure 406 also includes a recess 409 constructed and arranged to receive at least a portion of the handle 14a to retain the handle 14a therein. The movable structure 408 includes a handle portion 410 and a retaining portion 412 (see Fig. 28b). The movable structure 408 may be moved between a closed position wherein the handle 14a is prevented from being removed or inserted into the recess 409 and an open position wherein the handle is permitted to be removed or inserted into the recess 409. Thus, in the closed position, the retaining portion 412 of the movable structure 408 blocks the recess 409, as shown in Fig. 28b. In the open position, the retaining portion 412 is removed from the recess 409 and thus does not block the recess 409. The docking assembly 404 may be moved between the open and closed positions via the handle portion 410.

[0045] It is contemplated that the docking assembly 404 may also include an internal spring (not shown) constructed and arranged to bias the movable structure 408 either in the closed position or in the open position. For example, in one embodiment where the docking assembly 404 is biased in the closed position, the user may move the docking assembly 404 to the open position by pushing or pulling the handle portion 410 upwards until the retaining portion 412 is no longer blocking the recess 409, as shown in Fig. 28c. In such embodiment, the docking assembly 404 may be moved to the closed position by releasing the handle portion 412 such that the bias of the spring moves the movable structure 408 to the closed position and the retaining portion 412 blocks the recess 409, as shown in Fig. 28b. In embodiments without the internal spring that biases the docking assembly 404 in either the closed or open position, the user may simply push the handle portion 412 downwards to move the docking assembly 404 to the closed position (shown in Fig. 28b) or pull the handle portion 412 upwards to move the docking assembly 404 to the open position (shown in Fig. 28c). The docking assembly 404 may also optionally be provided with a lock (not shown) that locks the movable structure 408 either in the closed position or in the open position.

[0046] First, second, and third containers 113, 115,

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and 117 may be releasably mounted to the chassis 17a. Each of the containers 113, 115, and 117 has a pair of side handles 125, 127, 129 that are constructed and arranged to clamp or otherwise engage or couple or latch or connect onto the mount structures 18a to enable the containers 113, 115, and 117 to be releasably connected to the chassis 17a. The plurality of containers 113, 115, and 117 may be releasably connected to the mount structures 18a such that each of the plurality of containers 113, 115, and 117 may be independently removable from the mount structures 18a and the chassis 17a. That is, each of the plurality of containers 113, 115, and 117 may be released and removed from their respective mount structures 18a and from the chassis 17a without releasing any of the other containers of the plurality of containers 113, 115, and 117. The plurality of containers 113, 115, and 117 may also be releasably connected to the mount structures 18a and arranged such that the containers 113, 115, and 117 are spaced from one another. In other words, the containers 113, 115, and 117 may be connected to the mount structures 18a and arranged on the chassis 17a such each of the containers 20, 22, 24 does not contact or rest on another container 113, 115, and 117.

[0047] It is contemplated that the mount structures 18a are not limited to the configuration shown in the illustrated embodiment. The mount structures 18a may have any configuration that enables the containers 113, 115, and 117 to be mounted thereon. The mount structures 18a may be, just for example, trays or hooks connected to the frame 16a. In some embodiments, the mount structures 18a may be removed from the frame 16a. Alternatively or additionally, in some embodiments, the mount structures 18a may also be optionally fixed to the frame 16a.

[0048] In this embodiment, the third container 117 is mounted to the mount structures 115 via the side handles 129. The second container 115 is releasably connected to the structures 18a via the side handles 127. The first container 113 is releasably connected to the mount structures 18a via the side handles 125. However, as mentioned above, it is contemplated that the arrangement and location of the containers on the chassis 17a may vary and may be customized according to user preferences. The number and size of containers may also vary, and are not limited to the containers 113, 115, and 117 shown in Fig. 13. The handles 125, 127, and 129 may have similar configurations as handles 98, 100, and 102, and may be clamped to the mount structures 18a in a similar manner.

[0049] Fig. 14 shows a rear perspective view of the apparatus 10a. The apparatus 10a may optionally have the rear member 30a secured to the frame 16a and constructed and arranged to support the frame 16a. The rear member 30a is configured to be connected to the rear portions 208 of the handle structure 201. The apparatus 10a may also include a lower rear portion 210, which may also be constructed and arranged to support the frame 16a. The lower rear portion 210 may be operatively connected to the mounting bars 26a of the chassis 17a. The lower rear portion 210 may also be constructed and arranged to receive the elongated axle 44a on which the wheels 12a are attached. The lower rear portion 210 may be constructed and arranged to receive supporting bars 202 (two are shown in this embodiment). The supporting bars 202 may be connected to a rear extending portion 212 of the chassis 17a. The mounting bars 26a and the supporting bars 202 may be arranged to extend parallel to one another.

[0050] In the illustrated embodiment, the apparatus 10a may also include a rear latching assembly 203 having a latch bar 204 constructed and arranged to latch the containers 113, 115, and 117 to the chassis 17a when the containers 113, 115, 117 are mounted on the mount structures 18a. The latch bar 204 may be configured to extend parallel to the supporting bars 202. The rear latching assembly 203 may include a latch member 206. The latch bar 204 may be connected to the latch member 206 that is constructed and arranged to move the latch bar 204 from a latched position wherein the latch bar 204 is latched to the containers 113, 115, and/or 117 and an unlatched position wherein the latch bar 204 is not latched to the containers 113, 115, and/or 117. When the latch bar 204 is in the latched position, the containers 113, 115, and/or 117 are prevented from moving forward in the direction of A (away from latch bar 204). When the latch bar 204 is in the unlatched position, the containers 113, 115, and/or 117 are permitted to be moved forward away from the latch bar 204 to be removed from the chassis 17a.

[0051] Fig. 15 shows a front perspective view of the chassis 17a of the apparatus 10a with the containers 113, 115, and 117 removed. In this embodiment, the chassis 17a includes the support structure or platform 51a. The support structure or platform 51a may be connected to the rear extending portion 212 of the chassis 17a via screws. However, it is contemplated that the support structure 51a may be connected via pins, snap-fit connections, adhesives, welding, or other attachment mechanisms. The support structure or platform 51a may be used to support at least one of the containers 113, 115, and 117. It is contemplated that the support structure or platform 51 may be used with the chassis 17 to enable the chassis 17 to function as a trolley or a handcart. It is also contemplated that the support structure or platform 51a may be used with the chassis 17 to support and transport the stacked and connected containers 113, 115, and 117 shown in Fig. 24.

[0052] Fig. 16 shows a detailed view of the mount structures 18a attached to the mounting bars 26a of the apparatus 10a via the attachment structures 28a. The mounting bars 26a include the openings 128a provided along the length thereof. In this embodiment, each attachment structure 28a includes a pivoting portion 214, a receiving portion 216, and an attachment portion 218. The attachment portion 218 is constructed and arranged

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to attach the attachment structure 28a to the mounting bar 26a. The pivoting portion 214 and the receiving portion 216 are constructed and arranged to be attached to an opening 128a in the mounting bars 26a. The pivoting portion 214 and the receiving portion 216 may be generally curved, thus enabling a mounting bar 26a to be received therebetween. In one embodiment, the receiving portion 216 includes a screw 220 configured to be received in a receiving region 222 of the pivoting portion 214 so as to connect the receiving portion 216 and the pivoting portion 214 to retain the mount structure 18a at a selected location on the mounting bar 26a. However, it is contemplated that the receiving portion 216 and the pivoting portion 214 may be connected via other connecting mechanisms, such as, just for example, pins, rivets, or fasteners. In this embodiment, the pivoting portion 214 is provided with an insertion receiving structure 219 having an opening 217 that is constructed and arranged to receive an insertion structure 224 (see Fig. 17A), such as a pin, screw, or other attachment mechanisms. The insertion structure 224 is constructed and arranged to be inserted into one of the openings 128 of the mounting bar 26a to retain the mount structure 18a at a selected position on the mounting bar 26a.

[0053] As shown in Fig. 16, each of the mount structures 18a includes an elongated protrusion 207 provided thereon. The protrusion 207 may have a stop surface 209 provided on an end near the mounting bar 26a and may have a slanted surface 211 on the opposite end. The protrusion 207 may be constructed and arranged to retain the containers 113, 115, 117 and prevent the containers 113, 115, 117 from being moved forward or in the direction of A (see Fig. 14) when the side handles 125, 127, 129 of the containers 113, 115, 117 are clamped onto the mount structures 18a. For example, the side handles 125, 127, 129 of containers 113, 115, and 117 may have a similar construction and arrangement as the side handle 100 described above. Thus, the side handles 125, 127, 129 may each have a recess 106a (see Fig. 13) formed therein. When the containers 113, 115, 117 are mounted on the mount structures 18a, the elongated protrusion 207 may be received in the recesses 106a of the side handles 125, 127, 129, as shown in Fig. 13. Accordingly, in this embodiment, when the side handles 125, 127, 129 of the containers 113, 115, and 117 are clamped onto the mount structures 18a, abutment between the stop surface 209 and at least a portion of the side handles 125, 127, 129 prevents the movement of the containers 113, 115, 117 in the direction of A, thus preventing the containers 113, 115, 117 from sliding off of the mount structures 18a. In contrast, the slanted surface 211 of the protrusion 207 enables the side handles 125, 127, 129 of the containers 113, 115, 117 to slide onto the mount structures 18a without requiring movement of the side handles 125, 127, 129 to the release position. Accordingly, the containers 113, 115, 117 may be pushed onto the mount structures 18a such that the protrusion 207 is retained in the recesses 106a of the side handles 125, 127, 129.

[0054] Fig. 17A illustrates details of an embodiment of the mount structure 18a and the attachment structure 28a. In this embodiment, the mount structure 18a may have an inner surface 221 (see Fig. 17A) and an outer surface 223 (see Fig. 18A). The inner surface 221 of the mount structure 18a may be provided with a plurality of strengthening ribs 225 deployed crosswise relative to one another.

[0055] In the illustrated embodiment, the attachment structure 28a includes the insertion structure 224 constructed and arranged to be inserted into one of the openings 128 of the mounting bar 26a to retain the mount structure 18a at a selected position on the mounting bar 26a. The pivoting portion 214 and the receiving portion 216 may be pivotally connected to each other via a pivot pin 228. The pivoting portion 214 and the receiving portion 216 may thus be pivoted between an open position wherein the mounting bar 26a may be inserted or removed from between the pivoting portion 214 and the receiving portion 216 and a closed position wherein the mounting bar 26a may not be inserted or removed from between the pivoting portion 214 and the receiving portion 216. The receiving portion 216 may be pivotally attached to the mount structure 18a via a pivot pin 230, although it is contemplated that other structures that enable pivotal or rotational movement may be used. The receiving portion 216 may have a front surface 226 configured to face in a direction away from the rear member 30a when the receiving portion 216 is attached to the mounting bar 26a. The attachment portion 218 may be configured to attach the receiving portion 216 to the mount structure 18a. The attachment portion 218 may be integral with the receiving portion 216 or may be separately attached to the receiving portion 216.

[0056] Fig. 17B illustrates a cross sectional view of the mount structure 18a. The attachment portion 218 of the attachment structure 28a may include an internal pin 232, or other structure, that is received in a receiving portion 234 of the mount structure 18a. The internal pin 232 may optionally extend or retract relative to the attachment portion 218 when the mount structure 18a is pivoted between an extended position (see Fig. 17A) and a folded position (see Fig. 18A). In one embodiment, when the mount structures 18a are in the extended position, the containers 113, 115, or 117 may be mounted on the mount structures 18a. In such embodiment, when the mount structures 18a are in the folded position, the containers 113, 115, or 117 may not be mounted thereon. However, moving the mount structures 18a to the folded position, as shown in Fig. 19, enables easy carrying and storage of the chassis 17a.

[0057] Fig. 18A shows a detailed view of the mount structure 18a and the attachment structure 28a in the folded position. In the illustrated embodiment, when the mount structure 18a is in the folded position, a portion of the inner surface 221 of the mount structure 18a is in front of or disposed against the front surface 226 of the

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receiving portion 216 of the attachment structure 28a. In this embodiment, when the mount structure 18a is moved to the folded position, an extension portion 236 of the attachment portion 218 of the attachment structure 28a is constructed and arranged to stay in place. That is, the extension portion 236 of the attachment portion 218 does not move with the attachment structure 28a. Accordingly, in one embodiment, the extension portion 236 may extend in a direction generally perpendicular to the direction that the mount structure 18a is extending when the mount structure 18a is in the folded position, as shown in Fig. 18A. In one embodiment, the extension portion 236 may act as a stop structure that limits the further movement of the mount structure 18a when the mount structure 18a is being moved to the extended position.

[0058] Fig. 18B shows a cross sectional view of the mount structure 18a when the mount structure 18a is in the folded position. In this embodiment, the inner surface 221 of the mount structure 18a is disposed against the front surface 226 of the receiving portion 216 of the attachment structure 28a, and the internal pin 232 is received in the receiving region 234 of the mount structure 18a. The mount structure 18a may be attached to the mounting bar 26a as follows in accordance with an embodiment. The user may select an opening 128 on the mounting bar 26a corresponding to a desired height of the mount structure 18a. The receiving portion 216 and the pivoting portion 214 may be in the open position wherein the mounting bar 26a may be inserted therebetween. The receiving portion 216 may be placed against the mounting bar 26a at the desired height, as shown in Fig. 16. After the insertion structure 224 has been aligned with an opening 128, the pivoting structure 214 may then be pivoted towards the closed position relative to the receiving portion 216. Accordingly, when the pivoting structure 214 is pivoted towards the receiving portion 216, the insertion structure 224 is inserted into the insertion receiving structure 219 and into the selected opening 128, as shown in Fig. 29A. In one embodiment, when the receiving portion 216 and the pivoting portion 214 are in the closed position, the screw 220 of the receiving portion 216 is received in the receiving region 222 of the pivoting portion 214. The screw 220 may be tightened to retain the attachment structure 28a at the selected position on the mounting bar 26a.

[0059] To detach the mount structure 18a to the mounting bar 26a, the screw 220 of the receiving portion 216 may be unscrewed from the receiving region 222 of the pivoting portion 214. The insertion structure 224 may also be removed from the opening 128 and the insertion receiving structure 219, as shown in Fig. 29B. After the screw 220 has been unscrewed, the pivoting portion 214 may be pivoted towards the open position relative to the receiving portion 216. Once the receiving portion 216 and the pivoting portion 214 are in the open position, for example as shown in Fig. 16, the attachment structure 28a may be removed from the mounting bar 26a.

[0060] In one embodiment, to move the mount structure 18a to the folded position from the extended position, the mount structure 18a may be rotated in the direction of B (see Fig. 17A) along the pin 230 until the mount structure 18a is in the position shown in Fig. 18A. In one embodiment, the direction that the mount structure 18a extends when the mount structure 18a is in the folded position (see Fig. 18A) is generally perpendicular to the direction in which the mount structure 18a extends when the mount structure 18a is in the extended position (see Fig. 17A). When the mount structure 18a is in the folded position, the front surface 226 of the receiving portion 216 of the attachment structure 28a prevents further movement of the mount structure 28a in the direction B. To move the mount structure 18a to the extended position from the folded position, the mount structure 18a may be rotated in the direction opposite of B along the pin 230 until the mount structure 18a is in the position shown in Fig. 17A. The extension portion 236 may prevent the further rotation of the mount structure 18a in the direction opposite of B. Thus, the extension portion 236 may help position the mount structure 28a in the extended position.

[0061] Fig. 20A shows the rear latching structure 203 of the apparatus 10 in accordance with an embodiment. The rear latching structure 203 includes the rear latch bar 204 and the latch member 206. The rear latch member 206 is constructed and arranged to be rotatable along point 238 to rotate the latch bar 204 between an unlatched position (see Fig. 20A) and a latched position (see Fig. 20B). Thus, when the latch member 206 is rotated, the latch bar 204 is also rotated. When the latch structure 203 is in the unlatched position, the containers 113, 115, and/or 117 are permitted to be moved forward in the direction of A (see Fig. 14). When the latch structure 203 is in the latched position, the containers 113, 115, and/or 117 are prevented from being moved forward in the direction of A. In other words, the latch structure 203 in the latched position locks the containers 113, 115, and 117 to the chassis 17a.

[0062] As shown in Fig. 20A, the latch member 206 may include an opening 244. A locking structure 246 may be attached to the chassis 17a, and an opening 248 may be provided in the locking structure 246. In one embodiment, the opening 244 of the latch member 206 is constructed and arranged to be aligned with the opening 248 of the locking structure 246 when the latch member 206 is in the latched position, as shown in Fig. 20B. A padlock, combination lock, a rod, or other locking mechanisms or structures may be inserted into the aligned openings 248 and 244 to lock the latch structure 203 in the latched position, thereby preventing removal of the containers 113, 115, 117 from the chassis 17a.

[0063] In the embodiment shown in Fig. 20A, the rear latching structure 203 includes a retaining portion 240. The retaining portion 240 may be generally arcuate and may be formed near one end of the latch member 206, opposite that of an actuating end 245 of the latch member 206. The opening 244 may be formed on or near the actuating end 245 of the latch member 206. In one em-

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bodiment, the pivot point 238 may be provided between the retaining portion 240 and the actuating end 245. The retaining portion 240 may be constructed and arranged to be latched with a rear receiving structure of the containers 113, 115, and 117, taking the form of a rear extension structure 242 in this embodiment. In one embodiment, the rear extension structure 242 may be generally L- shaped so as to be engageable with the retaining portion 240. Accordingly, when the rear extension structure 242 of the container 113, 115, or 117 is engaged with the retaining portion 240 of the rear latching structure 203, the rear latching structure 203 is in the latched position and the container 113, 115, or 117 is latched to the latch structure 203. In contrast, when the rear extension structure 242 of the container 113, 115, or 117 is not engaged with the retaining portion 240, the rear latching structure 203 is in the unlatched position and container 113, 115, or 117 is not latched to the latch structure 203.

[0064] In the embodiment shown in Fig. 20B, the latch bar 204 and the latch member 206 are integrally formed. It is contemplated that in other embodiments, the latch bar 204 and the latch member 206 may be separate components that are operatively connected to one another. In the illustrated embodiment, the latch bar 204 has a retaining side 250 and a third side 252 opposite the retaining side 250. A middle side 254 (see Fig. 20A) may also be provided and may be constructed and arranged to connect the retaining side 250 and the third side 252. The retaining side 250, the third side 252, and the middle side 254 may form a generally U-shaped configuration with an interior space 247 and an opening 249 thereto. The retaining side 250 is constructed and arranged to engage with the rear extension structure 242 of the container 113, 115, or 117 when the latch structure 203 is in the latched position (see Fig. 20B). When the latch structure 203 is in the unlatched position, the opening 247 is forward facing (e.g., in the direction of A of Fig. 14, towards the rear extension structure 242 of the container 113, 115, or 117). In such position, the retaining side 250 of the latch bar 204 and the retaining portion 240 are not engaged with the rear extension structures 242 of the containers 113, 115, or 117. In some embodiments, the retaining side 250 of the latch bar 204 and the retaining portion 240 are integrally formed and may be formed from one piece of material. In one embodiment, the retaining portion 240 may be separated from the retaining side 250 of the latch bar 204 by a recess 205, as shown in Fig. 15. In this embodiment, the recess 205 provided between the retaining portion 240 and the retaining side 250 is constructed and arranged to receive a portion of the rear portion 208 of the handle structure 201.

[0065] An embodiment of the rear latch assembly 203 can be seen in more detail in Fig. 26. As shown in the illustrated embodiment, the retaining side 250 may be provided along the length of the latch bar 204. Thus, the latch bar 204 may be used to retain a plurality of containers 113, 115, and 117 simultaneously.

[0066] As shown in Fig. 27a, the latch member 206 is connected to the latch bar 204 via a first pin 400. A second pin 402 may be provided on the opposite end of latch bar 204. In some embodiments, the first pin 400 and the second pin 402 may either be separate or integral. The first pin 400 may be attached to the latch member 206 and the latch bar 204 via welding, riveting, adhesives, screws, or any other attachment mechanisms. Similarly, the second pin 402 may be attached to the latch bar 204 via welding, riveting, adhesives, screws, or any other attachment mechanisms.

[0067] As shown in Fig. 27a, the pin 402 may be received in a portion of the latch member 206, in a portion of the handle 14a, and in a portion of the latch bar 204. This configuration enables the latch bar 204 and the latch member 206 to be pivotally retained on the chassis 17a. Fig. 27b shows the pin 402 also pivotally retaining the latch bar 204 on the chassis 17a. The pin 402 is received in another portion of the latch bar 204 and in the rear extending portion 212 of the chassis 17a.

[0068] An operation of latching the containers 113, 115, and/or 117 to the latch structure 203 in accordance with an embodiment will be described as follows. The latch structure 203 may initially be in the unlatched position, as shown in Fig. 20A. The containers 113, 115, and/or 117 may be mounted on the mount structures 18a. Each of the containers 113, 115, and/or 117 may have the rear extension structure 242. The user may push the actuating end 245 of the latch member 206 in the counterclockwise direction. The latch member 206 may then be rotated in the counterclockwise direction along the point 238. Accordingly, the latch bar 204, which is operatively attached to the latch member 206, is also rotated in the counterclockwise direction. Thus, the retaining portion 240 and the retaining side 250 of the latch bar 204 are rotated in the counterclockwise direction towards the rear extension structures 242 of the containers 113, 115, and/or 117 until the latch structure 203 is in the latched position, as shown in Fig. 20B. In such a position, the retaining portion 240 and the retaining side 250 of the latch bar 204 are engaged with the rear extension structures 242 of the containers 113, 115, and/or 117. Thus, the movement of the containers 113, 22, and/or 117 in the direction of A is prevented. As mentioned above, a padlock or rod may be inserted through the aligned openings 244 and 248 to retain the latch structure 203 in the latched position.

[0069] To unlatch the latch structure 203, the user may push the actuating end 245 of the latch member 136 in the clockwise direction away from the locking structure 246. The retaining portion 240 and the retaining side 250 of the latch bar 204 may thus be disengaged from the rear extension structures 242 of the containers 113, 115, and/or 117. The latch structure 203 may then be in the unlatched position. In such a position, the opening 247 of the latch bar 204 of the latch structure 203 may be facing generally in the direction of A. The containers 113, 115, and/or 117 may then be moved in the direction of A to be removed from the chassis 17a.

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[0070] It is contemplated that the examples described are not limiting, and other structures or any combination of structures may be used to latch the containers 113, 115, and/or 117 to the latch bar 204. It is also contemplated that the number, location, and configuration of the latch bar(s) 204 may vary.

[0071] It is contemplated that the containers 113, 115, and 117 may be constructed with vertical dimensions having a common denominator as described above with respect to containers 20, 22, and 24. The mounting bar 26a may also be constructed similarly as mounting bar 26, described above. Thus, the containers 113, 115, and 117 may be constructed with vertical dimensions having a common denominator that is dependent on the spacing between the openings 128a.

[0072] Figs. 21A-21B, 22A-22B, and 23A-23B illustrate various embodiments of the containers 113, 115, and 117. As shown in Figs. 21A-21B, the container 117 may have a lid 258 and a container portion 260. The container portion may include a left side or wall 262, a right side or wall 264, a front side or wall 266, a rear side or wall 268, and a bottom side or wall 270 that define a storage space 270 (see Fig. 21 B) for storing items. The lid 258 may be pivotally connected to the container portion 260 and may be moved between a closed position preventing access to the storage space 270 and an open position permitting access to the storage space 270. The lid 258 can be latched onto the container portion 260 of the container 117 via latches 272. The container latches 272 may vary in numbers (there may be one or more) and may be pivotable latches, buckles, or any other latching mechanism as would be appreciated by one skilled in the art. The latches 272 (or a single latch) of the container 117 may comprise latch members 276 that are constructed and arranged to engage with latch receiving portions 278 (see Fig. 21 B) located on the lid 258. The latch members 276 may be pulled to disengage from latch engaging portions 278 of the lid 258 so that the lid 258 may be opened to allow access to the contents of the container 117. In the illustrated embodiment, the lid 258 is provided with a left side latching structure 263 and a right side latching structure 265 constructed and arranged to enable the containers 117 to be latched directly to other containers (see Fig. 24). The container 117 may also be provided with a left side receiving structure 267 and a right side receiving structure 269 (see Fig. 21 B) on the container portion 260. The side receiving structures 267, 269 are constructed and arranged to receive side latches of other containers. The side latches 263, 265 and the operation of latching the container 117 directly to other containers will be described in more detail later. It is contemplated that the number and location of the side latches 263, 265 and side receiving structures 267, 269 may vary.

[0073] The lid 258 may be pivotally connected to the container portion 260 using hinges, pins, screws, fastenings, bolts, or any other connection mechanism as would be appreciated by one skilled in the art. The lid 258 may also be a slide-on lid which is slid on to container portion 260 or a snap-on lid that is snapped on to the container portion 260. It is contemplated that the methods of mounting the lid 258 on to the container portion 260 may vary and the number of lids 258 may vary. A handle 261 may be pivotally attached to the container portion 260 using pivot pins (not shown), although it is contemplated that other attachment mechanisms, such as rivets, fasteners, and other attachment mechanisms known in the art may be used. It is also contemplated that the handle 261 may be attached to the lid 258 of the container 117 in other embodiments. It is also contemplated that in some embodiments, the container handle 261 may be fixed such that the container handle 260 may not be movable from one position to another.

[0074] In the illustrated embodiment, the container 117 is provided with the side handles 129 on the left side 262 and the right side 264. The handles 129 may be used to releasably connect the container 117 to the mount structures 18a in the same manner as the side handles 98, 100, 102 of the containers 20, 22, and 24, which are described above. That is, the side handles 129 of the container 117 may be constructed and arranged in a similar manner as the side handles 100 of the small container 22 described above to enable the container 117 to be releasably connected to the mount structures 18a.

[0075] In the illustrated embodiment, the storage space 270 of the container 117 has a removable tray 280 disposed therein. The removable tray 280 is divided into a plurality of compartments 282. An upper tray 284 may also be provided and may be pivotally attached to the container portion 260 via attachment structures 286. The attachment structures 286 may pivot to enable the upper tray 284 to move upwards and to the right (as shown in Fig. 21 B) to enable access to the compartments 282 of the removable tray 280. The attachment structures 286 may also pivot to enable the upper tray 284 to be disposed on top of the removable tray 280 so as to prevent access to the compartments 282 thereof.

[0076] Figs. 22A-22B illustrate an embodiment of the container 115. In this embodiment, the container 115 includes a lid 288 and a handle 290 located on the lid 288. The handle 290 may be pivotally attached to the lid 288 using pivot pins (not shown), although it is contemplated that other attachment mechanisms, such as rivets, fasteners, and other attachment mechanisms known in the art may be used. The container handle 290 may be disposed within a recess (not shown) formed in the lid 288 when the handle 290 is not in use and may be pivoted to an upright position when the handle 290 is in use. It is contemplated that in some embodiments, the container handle 290 may be fixed such that the container handle 290 may not be movable from one position to another.

[0077] As shown in Figure 22A, the lid 288 may be pivotally connected to a container portion 292. The lid 288 can be latched onto the container portion 292 of the container 115 via latches 294. The container latches 294 may vary in numbers (there may be one or more) and

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may be pivotable latches, buckles, or any other latching mechanism as would be appreciated by one skilled in the art. The lid 288 may be pivotally connected to the container portion 292 using hinges, pins, screws, fastenings, bolts, or any other connection mechanism as would be appreciated by one skilled in the art. The lid 288 may also be a slide-on lid which is slid on to container portion 162 or a snap-on lid that is snapped on to the container portion 292. It is contemplated that the methods of mounting the lid 288 on to the container portion 292 may vary and the number of lids 288 may vary. The container portion 292 may include two opposing side walls or sides 296, 298, a front wall or side 300, a rear wall or side 302, and a bottom wall or side 304 defining an interior space 306 (see Figure 12b). The side handles 127 may be used to releasably connect the container 115 to the mount structures 18a in the same manner as the side handles 98, 100, 102 of the containers 20, 22, and 24 described above. That is, the side handles 127 of the container 115 may be constructed and arranged in a similar manner as the side handles 100 of the small container 22 described above with respect to Figs. 3-4 to enable the container 115 to be releasably connected to the mount structures 18a. The container 115 may also be provided with a left side latching structure 287 and a right side latching structure 289 constructed and arranged to enable the container 115 to be latched directly to other containers (see Fig. 24). The container 115 may also be provided with a left side receiving structure 291 and a right side receiving structure 293 (see Fig. 22B) on the container portion 292. The side receiving structures 291, 293 are constructed and arranged to receive side latches of other containers. The side latches 287, 289 and the operation of latching the container 115 directly to other containers will be described in more detail later. It is contemplated that the number and location of the side latches 287, 289 and side receiving structures 291, 293 may vary.

[0078] The latches 294 (or a single latch) of the container 115 may comprise latch members 308 that are constructed and arranged to engage with latch receiving portions 310 (see Fig. 22B) located on the lid 288. The latch members 308 may be pulled to disengage from latch engaging portions of the lid 288 so that the lid 288 may be opened to allow access to the contents of the container 115.

[0079] As shown in Figure 22B, a removable tray 312 having a handle 314 may be carried within the container 115. The removable tray 312 may be held within the interior space 306 of the container 115 and may optionally be removed therefrom to be carried separately. An inner container 316 with a plurality of partitions 318 may also be held in the container 115. The inner container 316 with partitions 318 may be constructed and arranged to hold various kinds of screwdrivers and other tools. In one embodiment, the partitions 318 may be provided with rubber or other memory retention material that facilitates the positioning and retention of screwdrivers and/or other tools in the partitions 318. The removable tray 312 and the inner container 316 may be made of plastic, wood, metal, or other materials known in the art, or combinations thereof.

[0080] Figs. 23A-23B show an embodiment of the first container 113. In this embodiment, the container 113 may have a similar configuration as container 115 described with respect to Figs. 22A-22B. However, the container 113 may be larger than the container 115. For example, the container 113 may include a lid 320 latched to a container portion 322 with latches 324. A handle 326 may be provided on the lid 320. In this embodiment, a left side latch 325 and a right side latch 327 are provided on the container 113 and are constructed and arranged to enable the container 113 to be latched directly to other containers (see Fig. 24). The container 113 may also be provided with a left side receiving structure 329 and a right side receiving structure 331 (see Fig. 23B) on the container portion 322. The side receiving structures 329, 331 are constructed and arranged to receive side latches of other containers. The side latches 325, 327 and the operation of latching the container 113 directly to other containers will be described in more detail later. It is contemplated that the number and location of the side latches 325, 327 and the side receiving structures 329, 331 may vary.

[0081] The container portion 322 may include two opposing side walls 326, 328, a front wall 330, a back wall 332, and a bottom wall 334 defining an interior space 335 (see Fig. 23B) for storing items. As shown in Fig. 23B, a removable tray 336 may be provided in the interior space 335. An inner container 338 with partitions 340 may also be provided in the interior space 335. The removable tray 336 and the inner container 338 may have similar configurations as the removable tray 312 and the inner container 316 of the container 115 shown in Figs. 22A-22B. The container 113 may also be provided with the side handles 125 that may be used to releasably connect the container 113 to the mount structures 18a in the same manner as the side handles 98, 100, 102 of the containers 20, 22, and 24 described above. That is, the side handles 125 of the container 115 may be constructed and arranged in a similar manner as the side handles 100 of the container 22 described above with respect to Figs. 3-4 to enable the container 113 to be releasably connected to the mount structures 18a.

[0082] In the embodiment of Fig. 24, the side latches 325 (obstructed from view in this embodiment) and side latch 327 can be moved between a latched position wherein the container 115 is prevented from being removed from the container 113 and an unlatched position wherein the container 115 is permitted to be removed from the container 113. Similarly, the side latch 287 (obstructed from view in this embodiment) and side latch 289 can be moved between a latched position wherein the container 117 is prevented from being removed from container 115 and an unlatched position wherein the container 117 is permitted to be removed from the container 115. In this embodiment, for the container 115 to be re-

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movable from container 113, both side latches 327, 329 should be in the unlatched position. For the container 117 to be removable from container 115, both side latches 325, 327 should be in the unlatched position. The latching of the containers 113, 115, and 117 shown in this embodiment is not intended to be limiting. For example, any combination and number of containers 113, 115, and 117 may be latched, and the containers 113, 115, and 117 may be latched in any order and are not limited to the configuration shown in Fig. 24.

[0083] The configuration and operation of the side latch 327 of the container 113 will be described with respect to Figs. 25A-25C. It is contemplated that the side latches 263, 265 of the container 117, the side latches 287, 289 of the container 115, and the side latch 325 of the container 113 may have similar configurations as the side latch 327 and may operate in a similar manner.

[0084] As shown in Fig. 25A, the latch 327 may include a middle portion 348 and two upper portions 350, 352 extending from the middle portion 348. The upper portions 350, 352 may facilitate the latching and unlatching of the latch structure 327. Grooves may be provided on the upper portions 350, 352 to facilitate the grasping of the upper portions 350, 352. An elongated protrusion 354 may be provided on the middle portion 348. The elongated protrusion 354 may have an elongated groove 353 disposed underneath thereof. In the illustrated embodiment, the elongated protrusion 354 is provided on the middle portion 348 near the upper portions 350, 352. The elongated protrusion 354 may be constructed and arranged to engage with the right side receiving structure 293 of the container 115. The container 113 may include a depression 349 formed on the lid 320. A bottom surface 351 may be formed in the depression 351. In one embodiment, the side latch structure 327 may be pivotally connected to the lid 320 near or in the depression 351. When the side latch structure 327 is not being used to latch container 113 to another container, the side latch structure 327 may be pivoted to a stored position (see Fig. 23A) in the depression 349 wherein the elongated protrusion 354 is facing or disposed against the bottom surface 351. It is contemplated that a biasing member, such as a spring, may be used to bias the side latch structure 327 towards the depression 349, or in any position.

[0085] In this embodiment, the right side receiving structure 293 is an elongated ridge provided in a depression 356 formed near the right wall 298 of the container 115. The right side receiving structure 293 may extend upwards from a bottom surface 358 of the depression 356. In one embodiment, the bottom surface 358 of the depression may be situated lower than the bottom wall 304 of the container 115. The containers 117 and 113 may also have a similar configuration. The side latch 327 may optionally be provided with a second elongated protrusion 360 disposed beneath the elongated protrusion 354.

[0086] The latch 327 of container 113 may be latched to the side receiving structure 293 of container 115 to latch container 113 and 115 in accordance with an embodiment as follows. Before the container 115 is stacked on container 113, the side latch 327 may be pivoted away from the stored position (see Fig. 23A) wherein the side latch 327 is disposed in the depression 349 to a position outside of the depression 349 (see Fig. 25A). As shown in Fig. 20A, the container 115 may then be stacked on top of container 113 such that the side latch 327 of container 113 is disposed beneath the side receiving structure 293 of container 115. The latch structure 327 may be pivoted upwards in the counterclockwise direction, as shown in Fig. 25B. The elongated protrusion 354 of the side latch 327 may be pushed against the side receiving structure 293 until the side receiving structure 293 is disposed in the groove 353 underneath the elongated protrusion 353 and a portion of the elongated protrusion 353 is disposed to the left of the side receiving structure 293, as shown in Fig. 25C. The elongated protrusion 354 and the side receiving structure 293 may have resilient properties that enable the elongated protrusion 354 to move over the side receiving structure 293 so that the side receiving structure 293 may be received in the groove 353. In this position, the latch 327 and the side receiving structure 293 are in the latched position that prevents container 115 from being removed from container 113.

[0087] To unlatch the side latch 327 from the side receiving structure 293, the user may pull on the upper portions 305, 352 of the latch 327 to move the latch 327 downward in the clockwise direction. The resilient properties of the elongated protrusion 354 and the side receiving structure 293 enables the side receiving structure 293 to move out of the groove 354 when sufficient force has been applied. The side latch 327 may then be pivoted downwards to the position shown in Fig. 25A so that the container 115 may be unlatched and removed from container 113. As mentioned above, for container 115 to be removed from container 113, the side latch 325 (see Fig. 23A) of container 113 should also be unlatched from the side receiving structure 291 of container 115. As also mentioned above, the side latches 263, 265 of the container 117, the side latches 287, 289 of the container 115, and the side latch 325 of the container 113 may have similar configurations as the side latch 327 and may operate in a similar manner. It should be appreciated that the configuration, location, and number of side latches and side receiving structures may vary in other embodiments.

[0088] Although the invention has been described in detail for the purpose of illustration based on what is currently considered to be the most practical and preferred embodiments, it is to be understood that such detail is solely for that purpose and that the invention is not limited to the disclosed embodiments, but, on the contrary, is intended to cover modifications and equivalent arrangements that are within the spirit and scope of the appended claims. For example, it is to be understood that the present invention contemplates that, to the extent possi-

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ble, one or more features of any embodiment may be combined with one or more features of any other embodiment.

Claims

1. An apparatus for transporting articles between working locations, comprising:

   one or more rotatable ground engaging wheels mounted towards the bottom of the apparatus for rotation about an axis to provide rolling support for the apparatus;
   a manually engageable pulling handle, the pulling handle and the one or more ground engaging wheels being arranged to enable a user to manually pull the pulling handle generally rearwardly so as to tilt the apparatus rearwardly to a tilted rolling movement position, thereby enabling the user to roll the apparatus to a desired location by pushing or pulling the pulling handle in a desired direction;
   a frame;
   one or more mount structures adjustably connected to the frame; and
   a plurality of containers releasably connected to the one or more mount structures.

2. The apparatus of claim 1, wherein the plurality of containers comprise one or more coupling elements, which provide releasable connections with the one or more mount structures and the one or more coupling elements are formed as part of respective handles on at least one of the plurality of containers.

3. The apparatus of claim 1, wherein the apparatus comprises a support structure providing a ground engaging surface, the ground engaging surface being located forwardly of said one or more rotatable ground engaging wheels and being constructed and arranged to engage the ground when the apparatus is in an upright position.

4. The apparatus of claim 1, wherein the one or more mount structures are rotatable on the frame between a folded position and an extended position.

5. The apparatus of claim 2, wherein the one or more coupling elements comprise a latch mechanism to latch the containers to the one or more mount structures and each of the plurality of containers comprise side handles, the side handles comprising the latch mechanism to latch the containers to the one or more mount structures.

6. The apparatus of claim 1, wherein the apparatus further comprises one or more attachment structures to connect the one or more mount structures to the frame and wherein the attachment structures enable the one or more mount structures to be adjusted on and/or removed from the frame.

7. The apparatus of claim 1, wherein at least one of the containers comprises a container portion, a drawer housing portion that is slideable relative to the container portion, and a drawer portion that is slideable relative to the drawer housing portion.

8. The apparatus of claim 1, wherein at least one of the containers comprises a drawer portion and a container portion, the drawer portion having an upwardly facing opening, and the drawer portion being movable to an open position wherein access to contents of the drawer portion is permitted when the container is connected to the one or more mount structures.

9. The apparatus of claim 8, wherein the drawer portion is slideable relative to the container portion between an open position to permit access to the contents of the drawer portion through the upwardly facing opening and a closed position to prevent access to the contents of the drawer portion through the upwardly facing opening.

10. The apparatus of claim 8, wherein a front portion of the drawer is pivotally movable to allow access to the contents of the drawer.

11. The apparatus of claim 9, wherein in the closed position, the upwardly facing opening of the drawer portion is disposed beneath the container portion.

12. The apparatus of claim 1, wherein one of the plurality of containers comprises latches constructed and arranged to latch the one of the plurality of containers directly to another one of the plurality of containers.

13. The apparatus of claim 1, wherein the frame comprises a rear latching assembly constructed and arranged to latch the plurality of containers to the frame so as to prevent the removal of the plurality of containers therefrom.

14. The apparatus of claim 13, wherein the rear latching assembly comprises a pivotable latch bar and one of the plurality of containers comprises a receiving structure constructed and arranged to receive at least a portion of the latch bar.

15. The apparatus of claim 1, wherein each of the containers is independently mounted on the frame to enable removal of one of the containers without removal of any of the other containers.

16. The apparatus of claim 15, wherein each of the con-

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tainers is independently mounted on the frame via one or more mount structures connected to the frame and wherein the one or more mount structures are adjustable on the frame.

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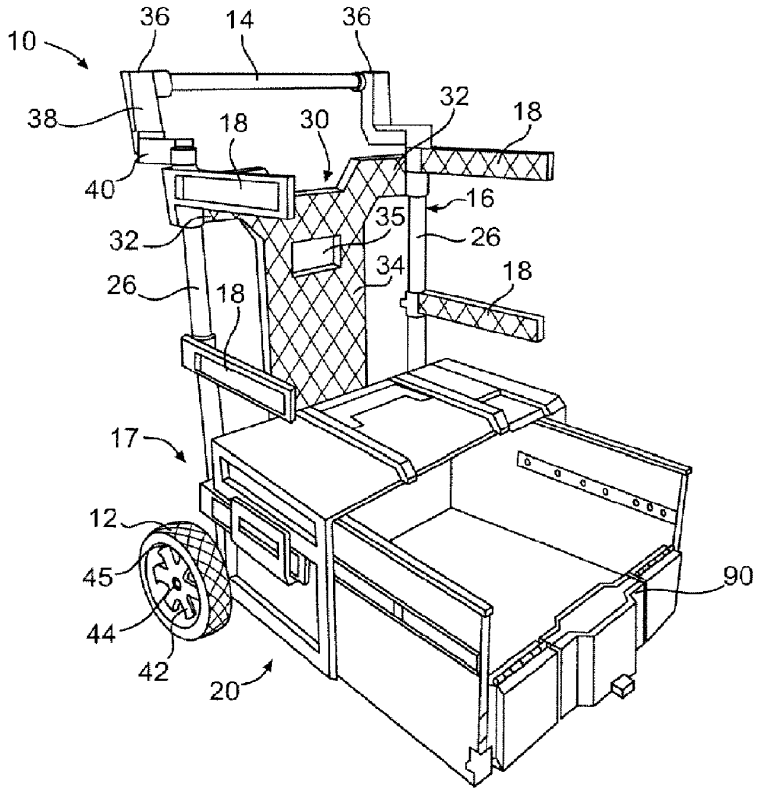


FIG. 1

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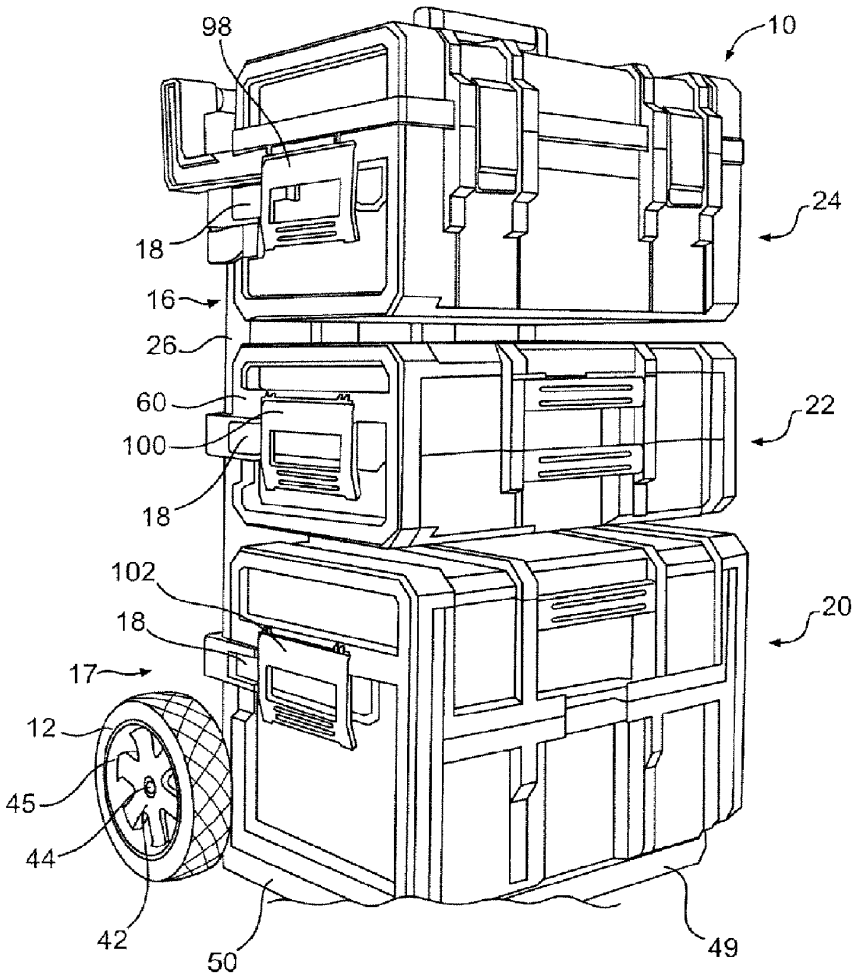


FIG. 2

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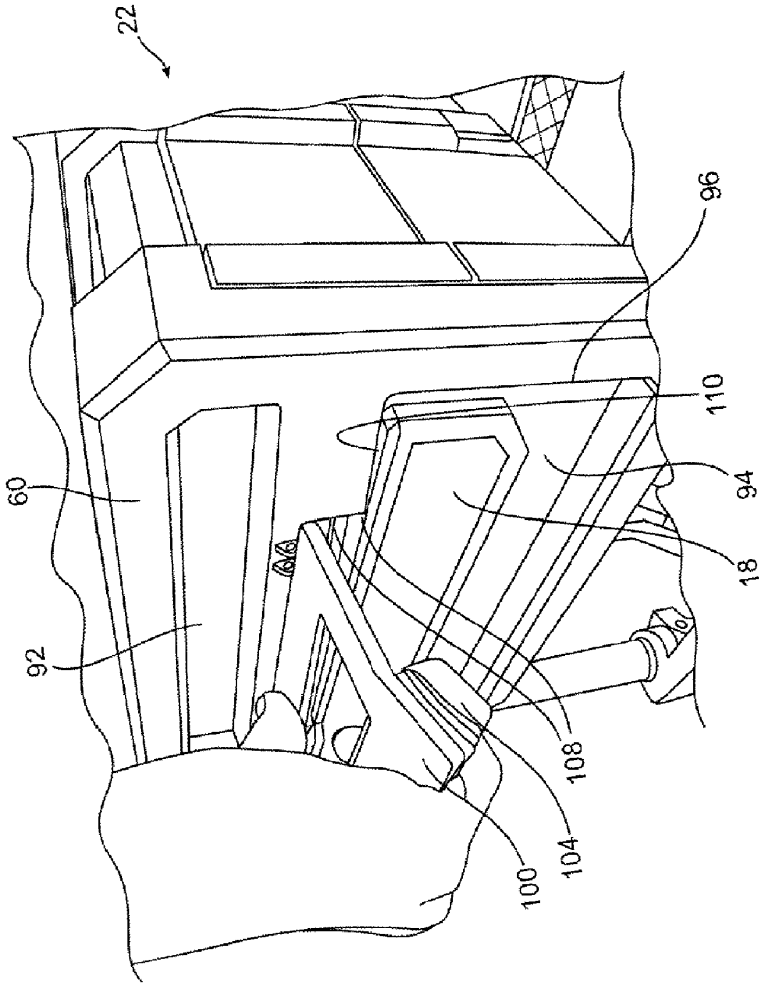


FIG. 3

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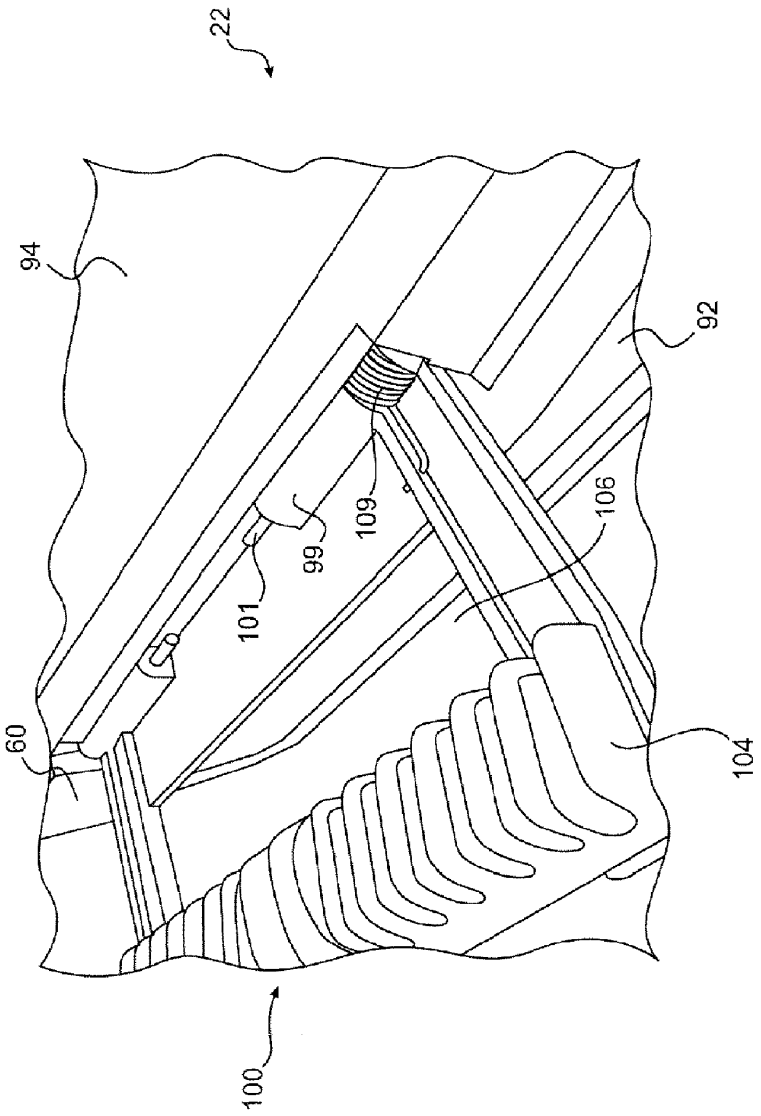


FIG. 4

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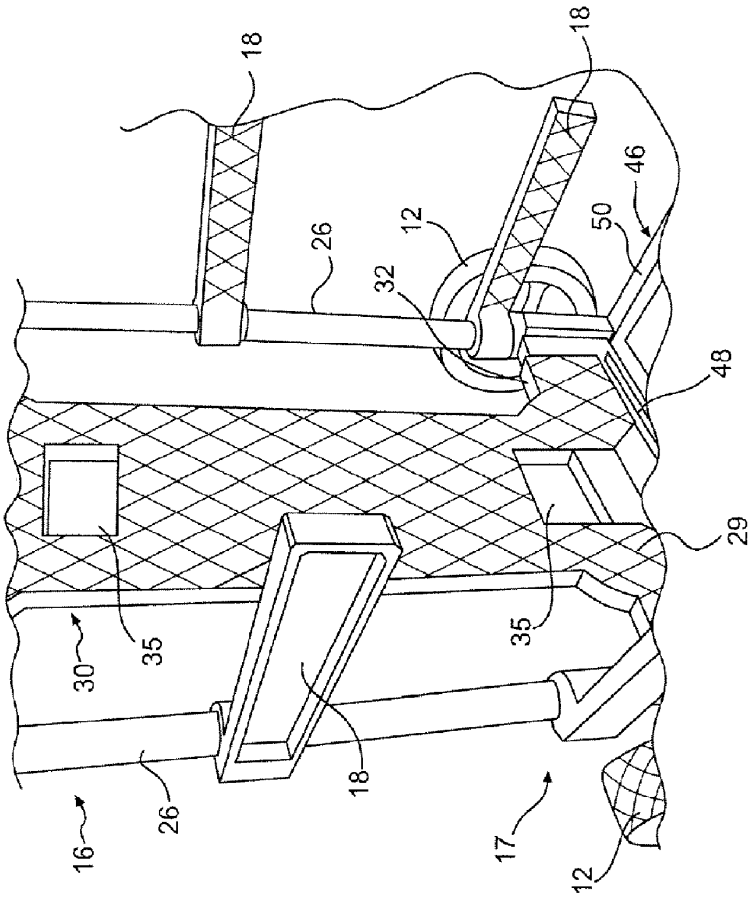


FIG. 5

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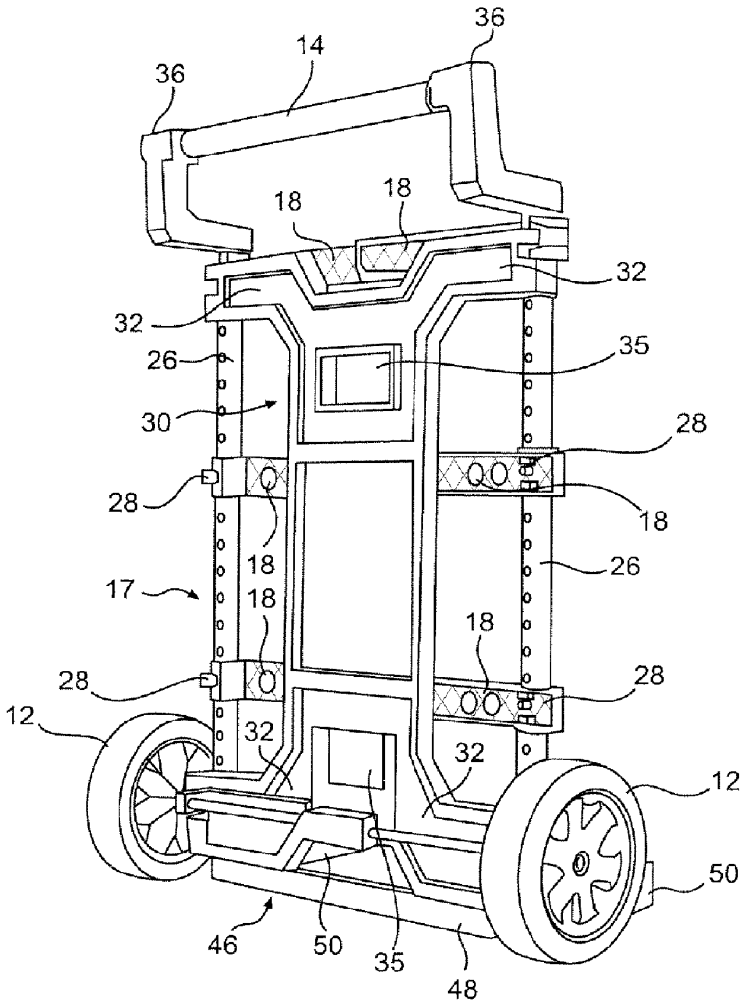


FIG. 6

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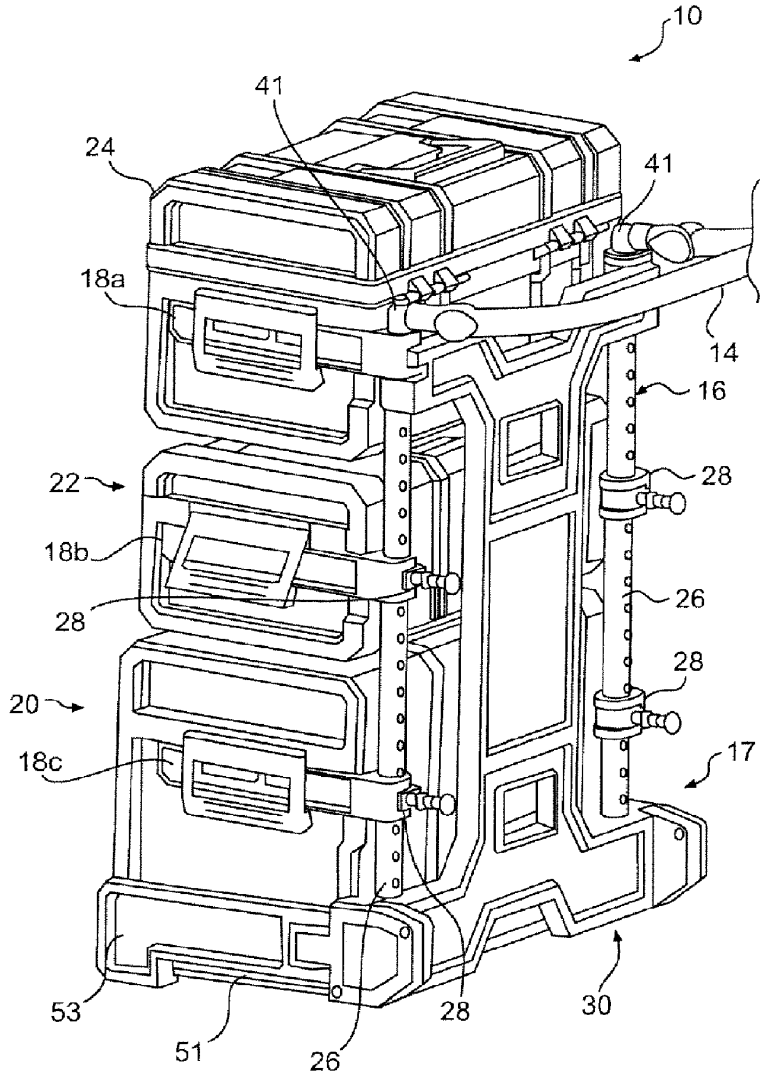


FIG. 7

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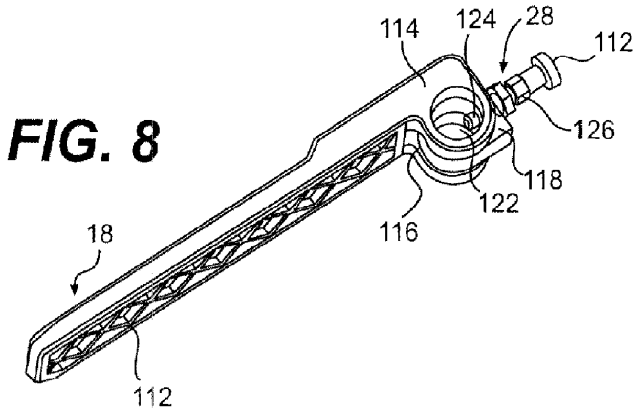


FIG. 8

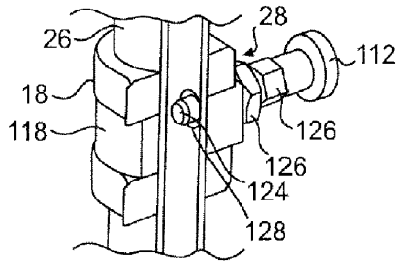


FIG. 9A

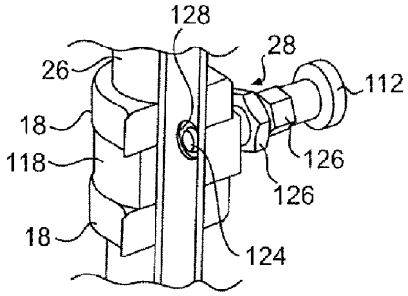


FIG. 9B

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2316
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

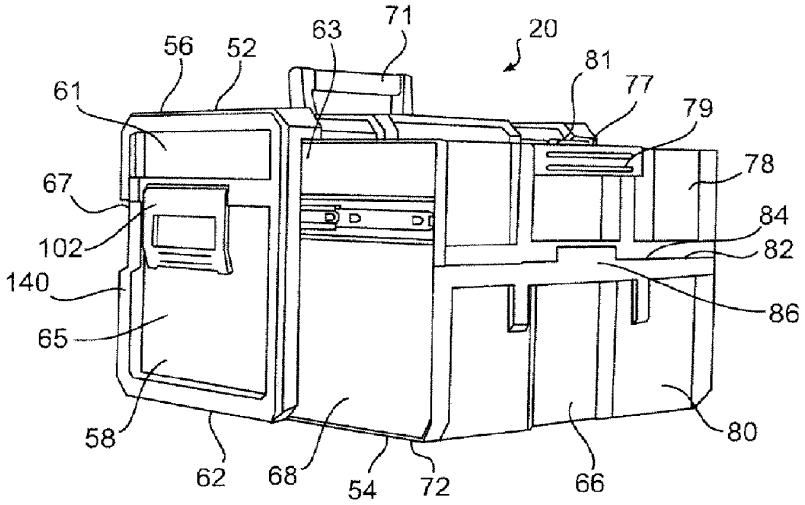


FIG. 10A

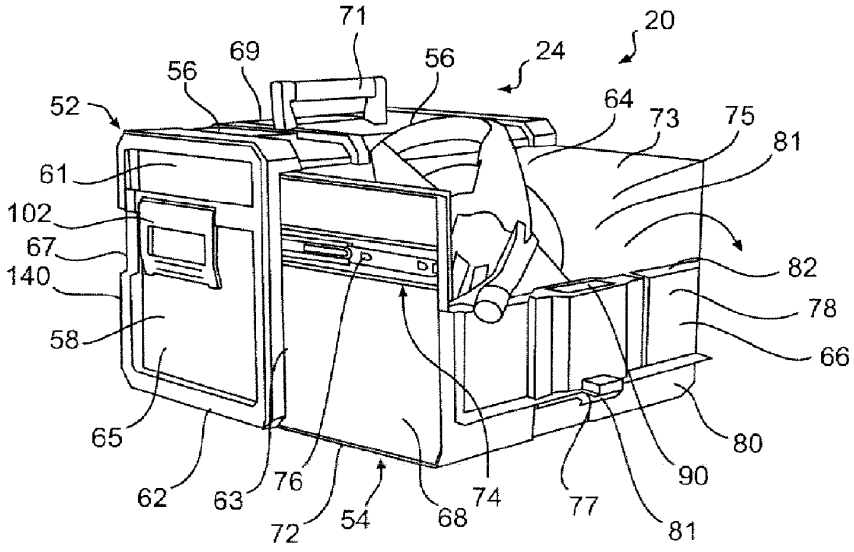


FIG. 10B

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2317
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

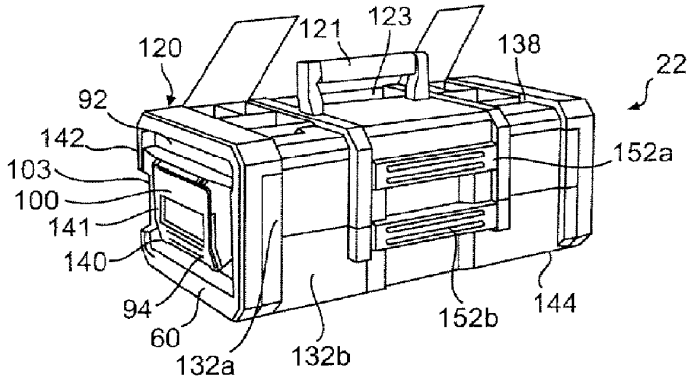


FIG. 11A

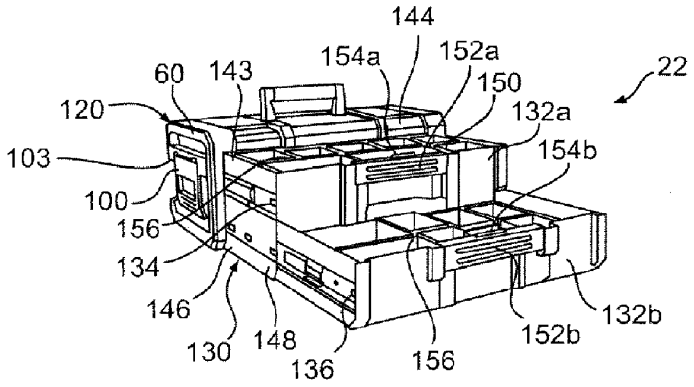


FIG. 11B

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2318
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

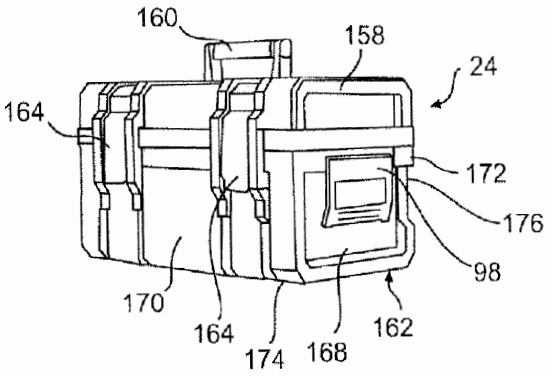


FIG. 12A

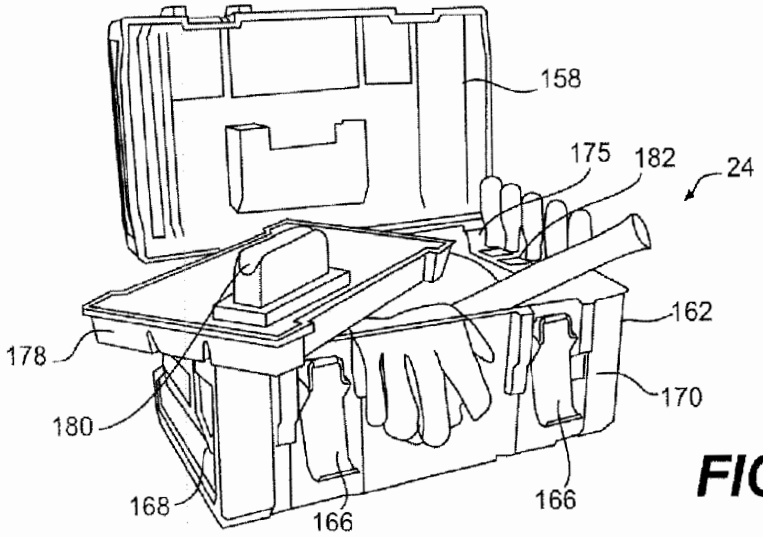


FIG. 12B

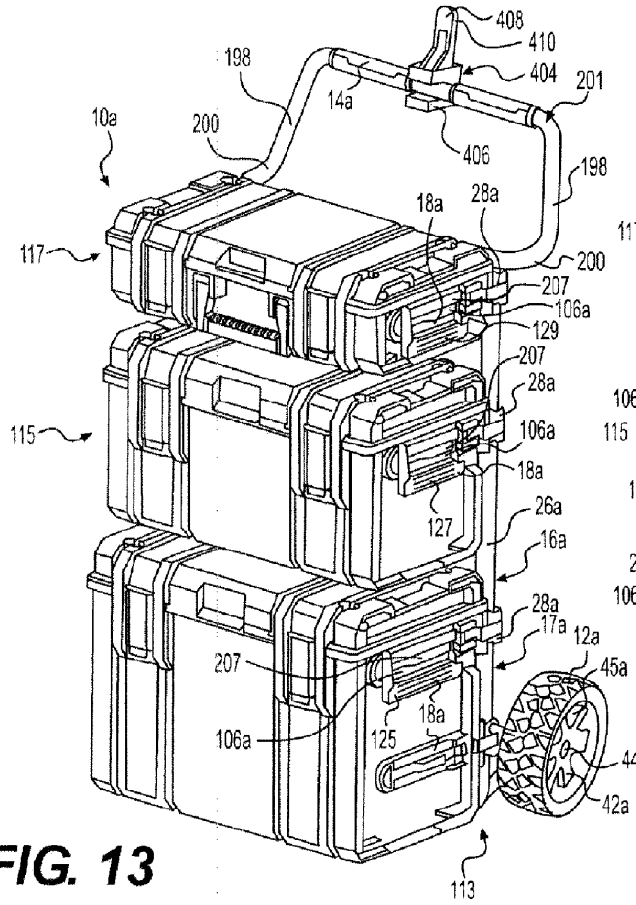


FIG. 13

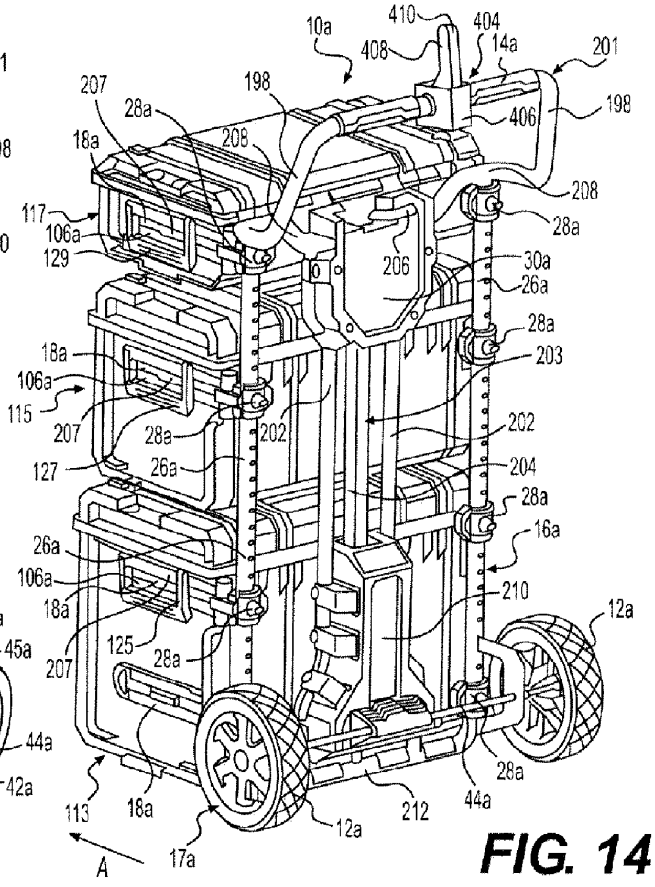


FIG. 14

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2320
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

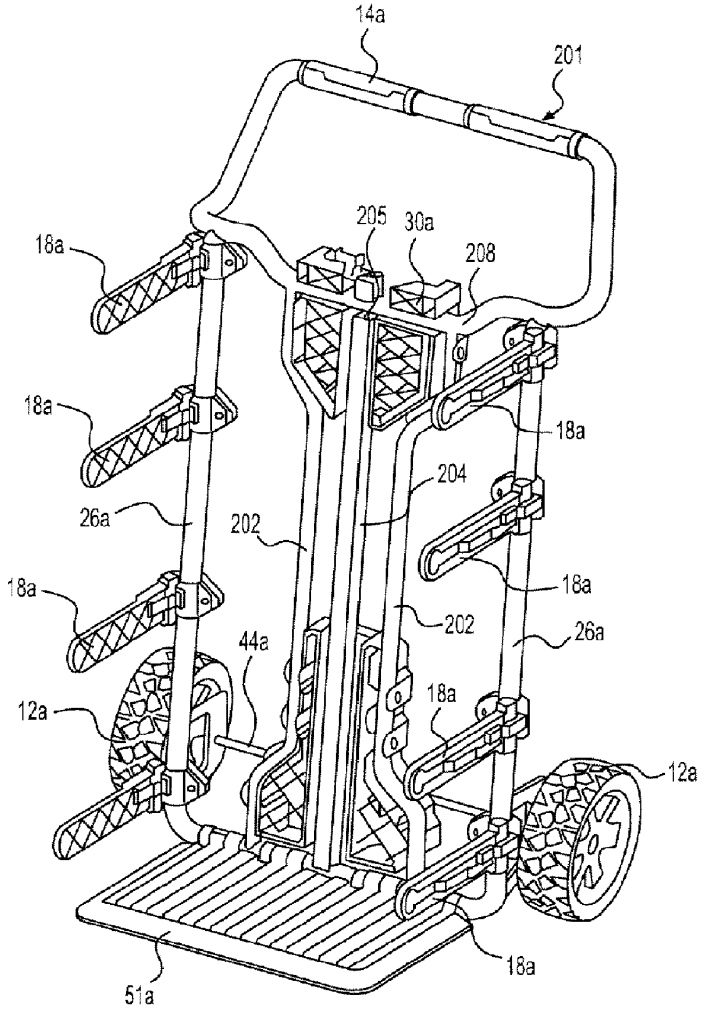


FIG. 15

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2321
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

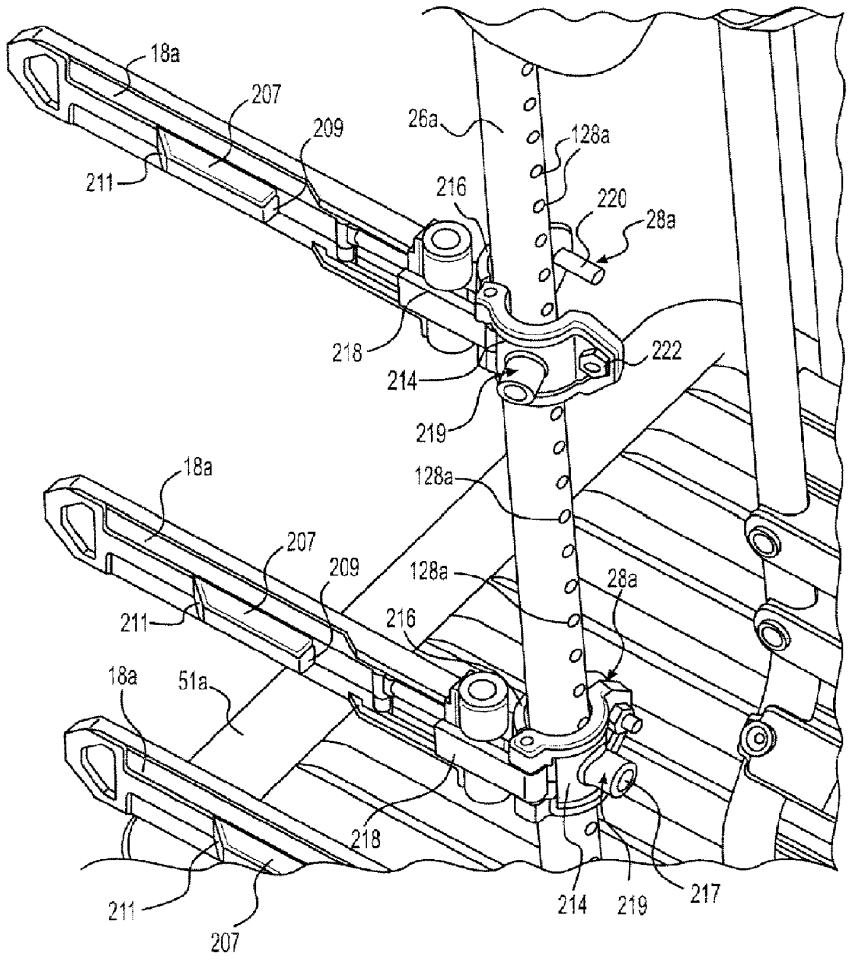


FIG. 16

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2322
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

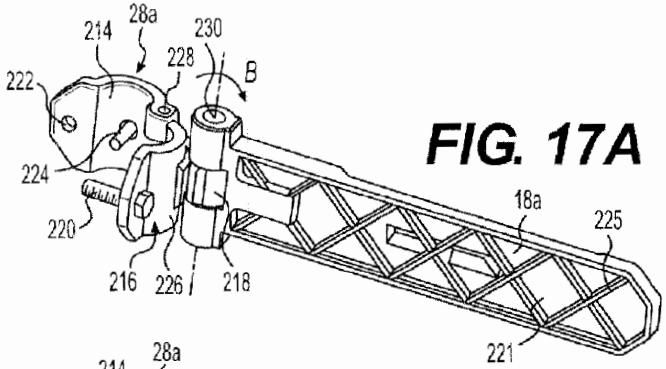


FIG. 17A

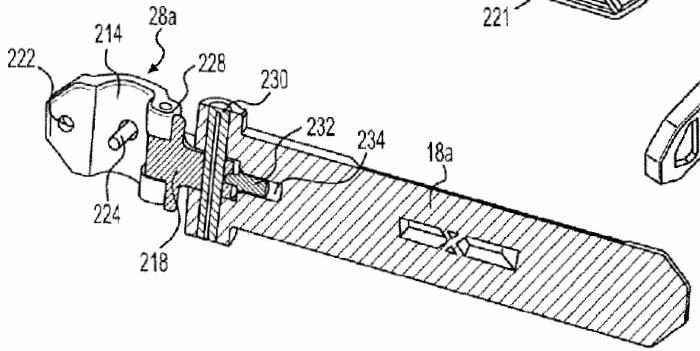


FIG. 17B

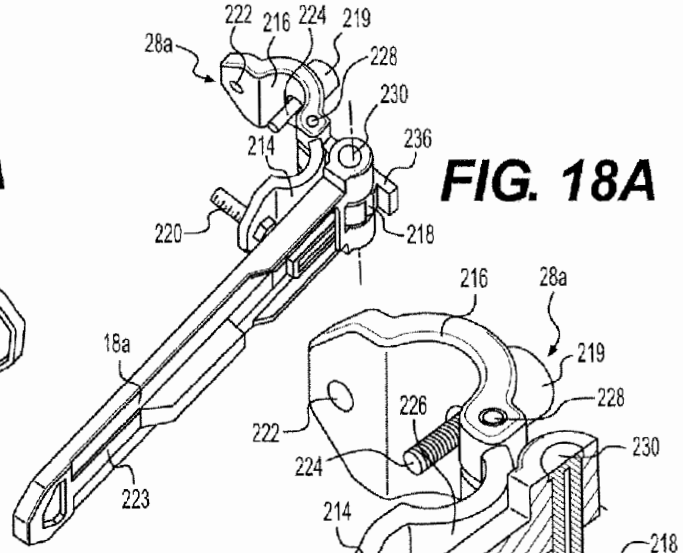


FIG. 18A

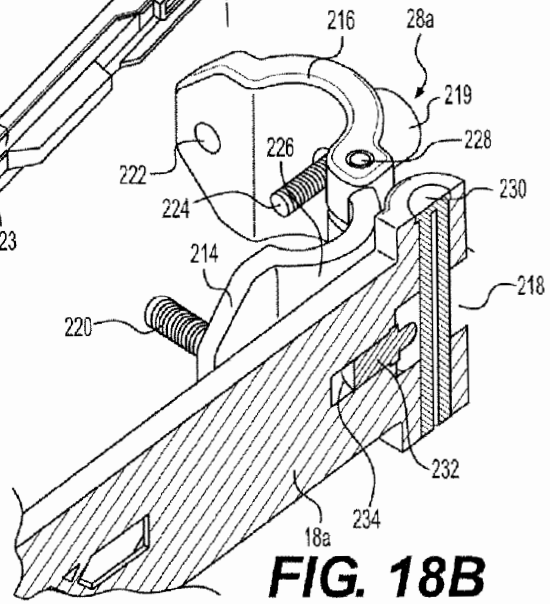


FIG. 18B

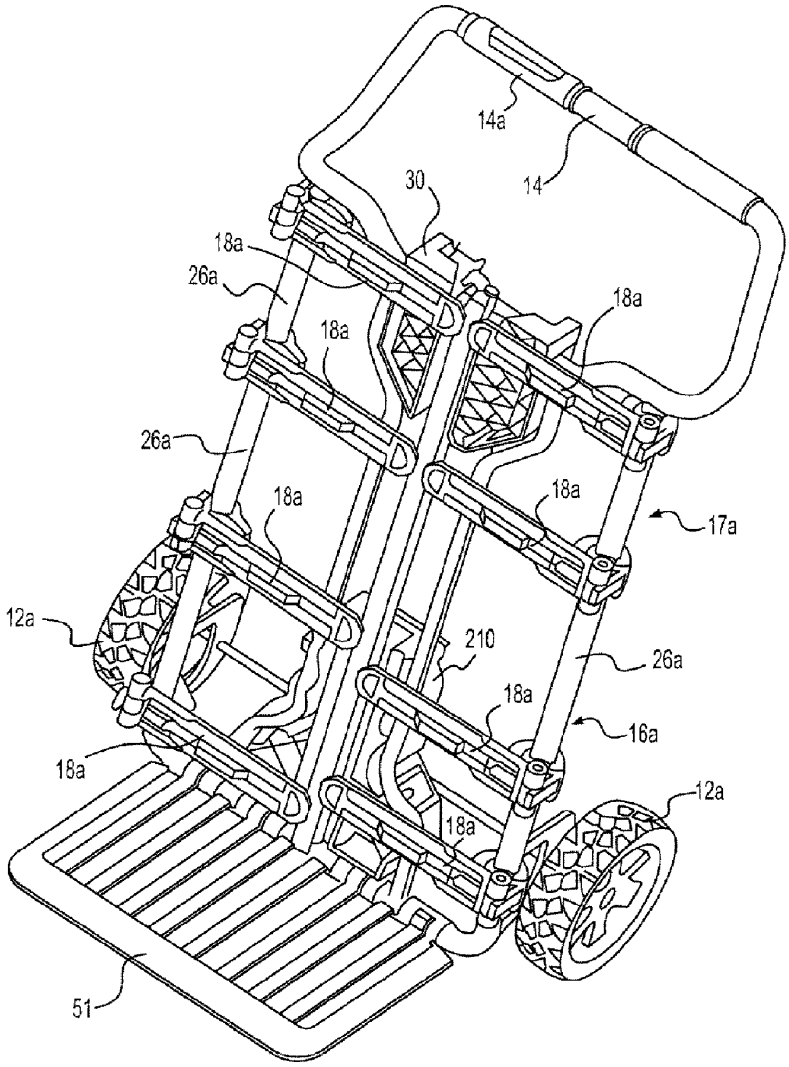


FIG. 19

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2324
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

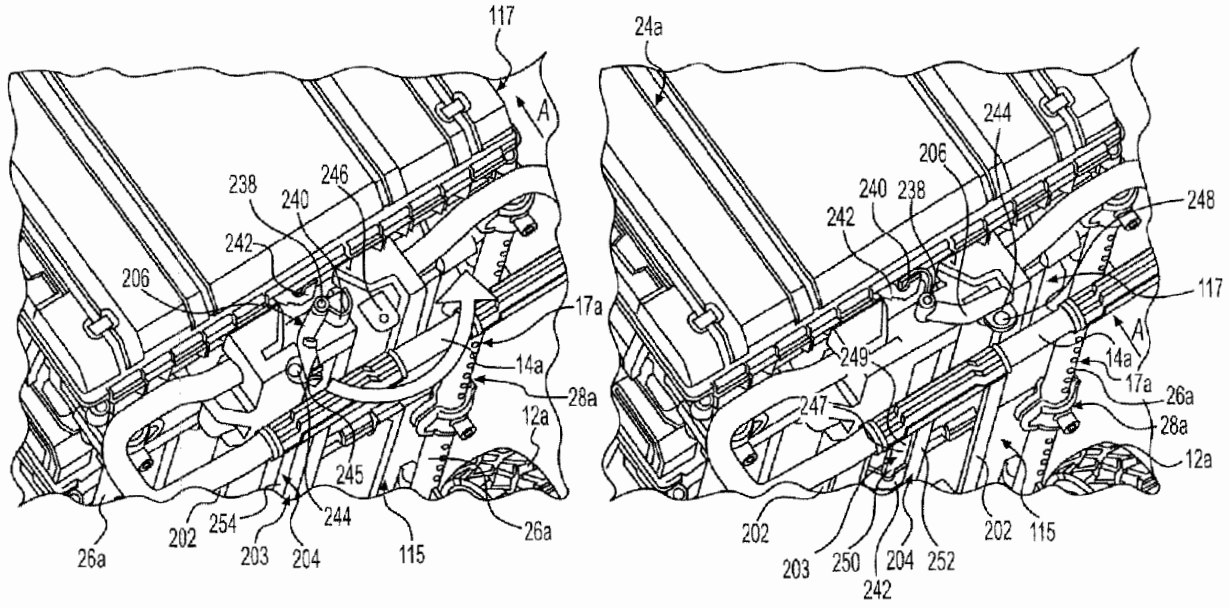


FIG. 20A

FIG. 20B

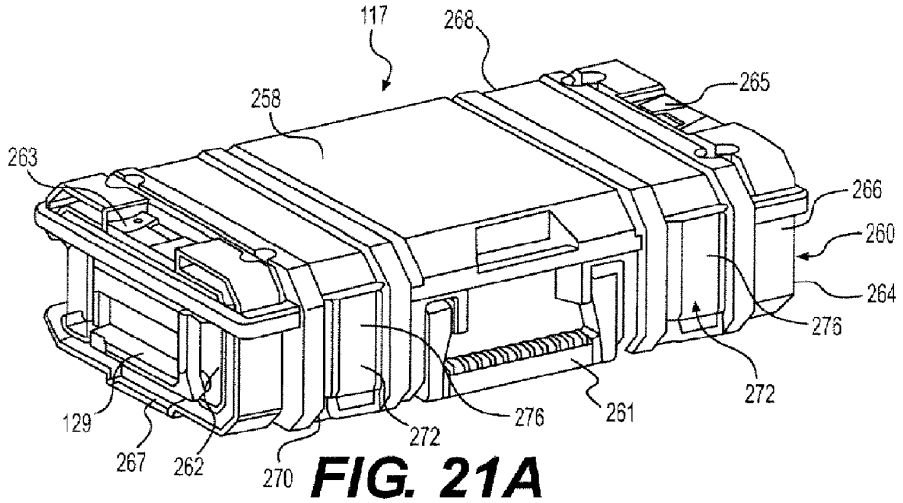


FIG. 21A

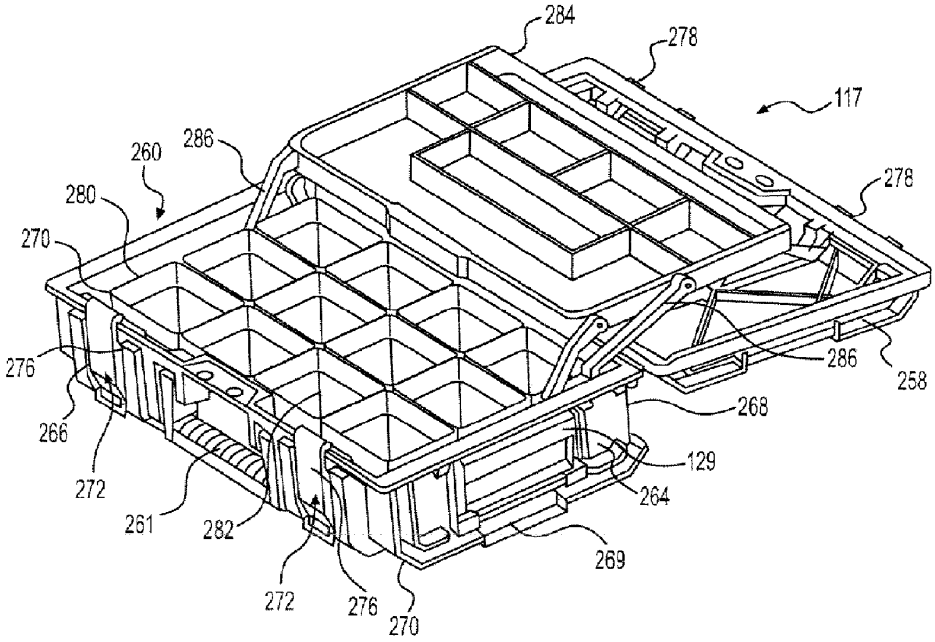


FIG. 21B

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2326
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

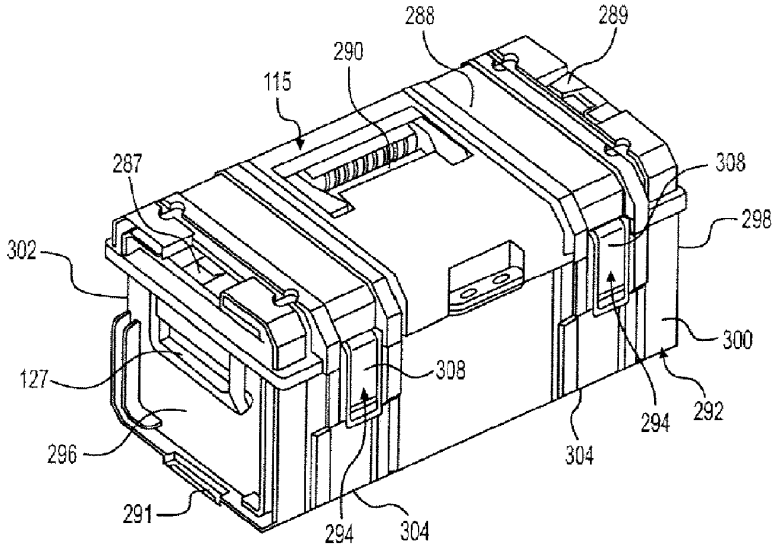


FIG. 22A

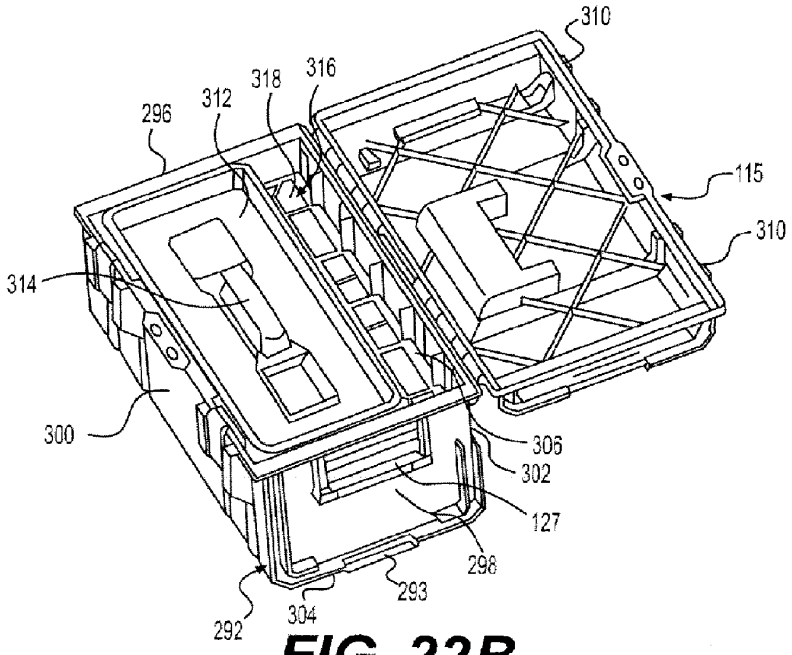


FIG. 22B

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2327
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

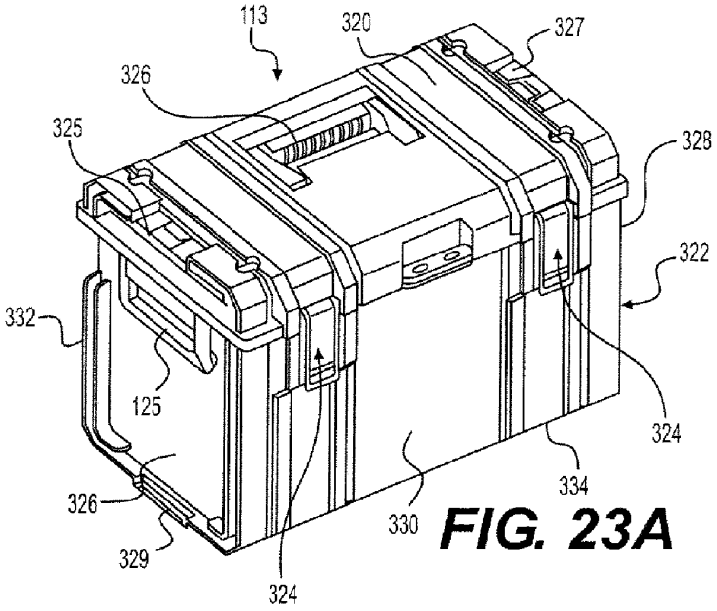


FIG. 23A

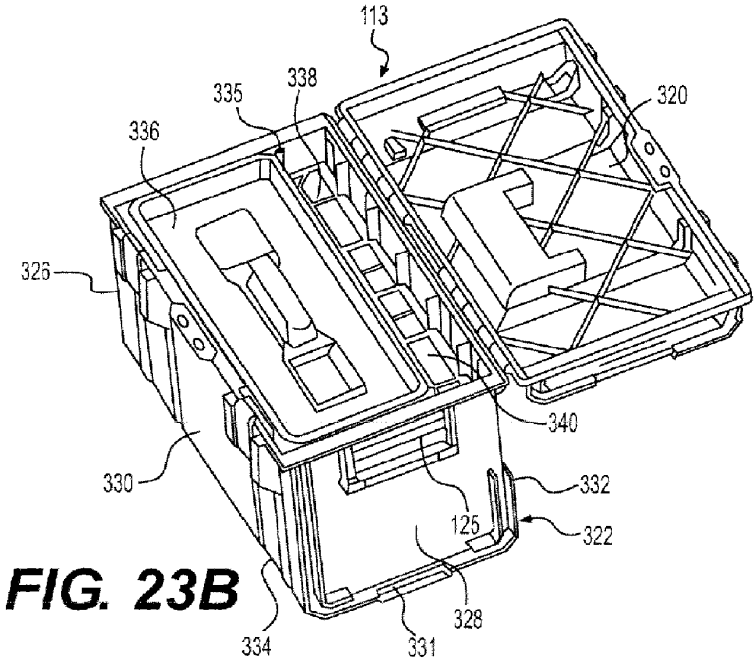


FIG. 23B

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2328
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

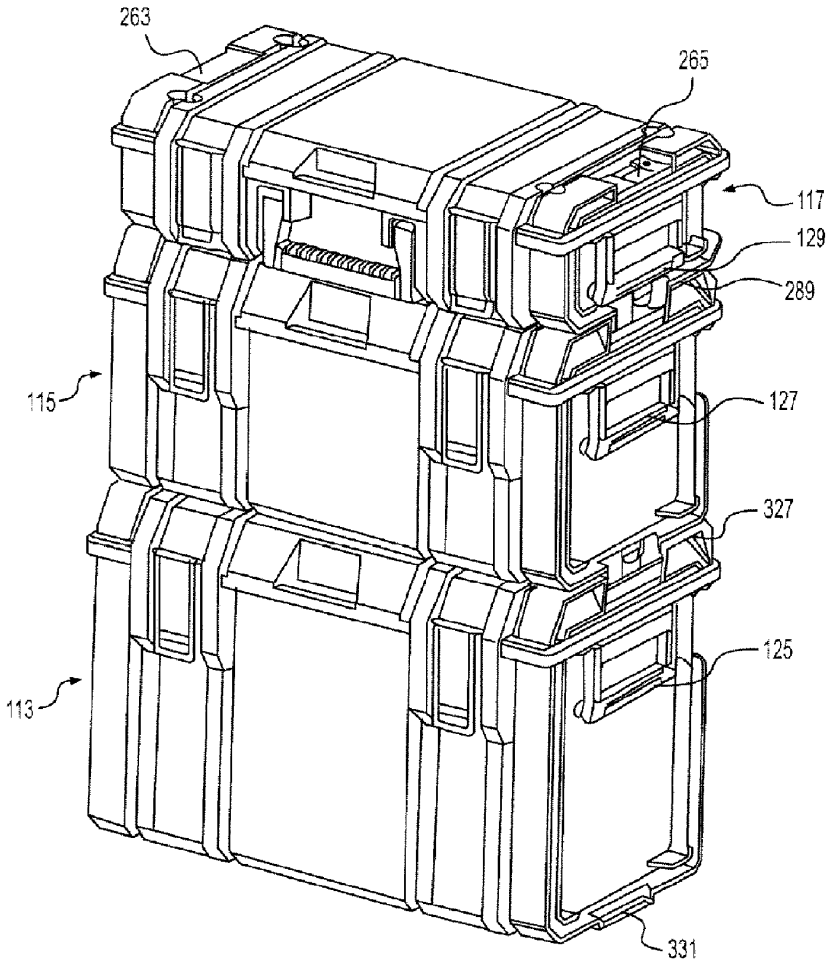


FIG. 24

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2329
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

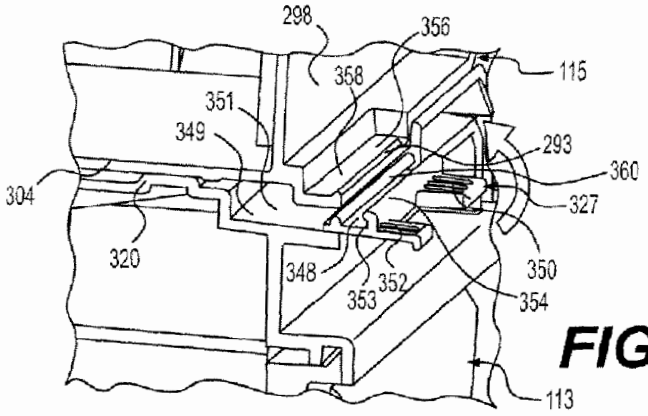


FIG. 25A

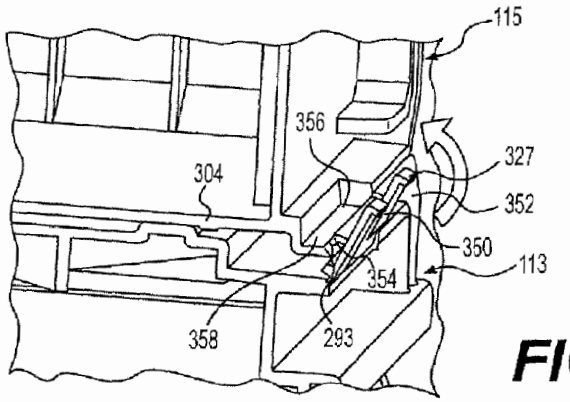


FIG. 25B

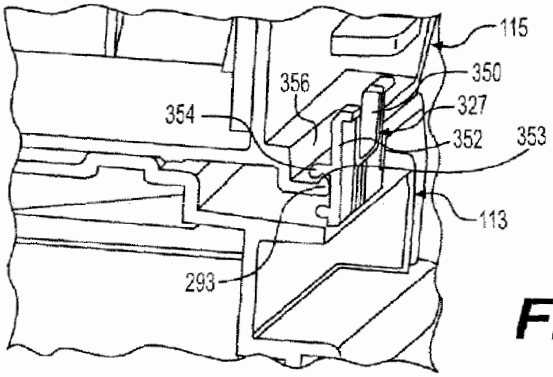


FIG. 25C

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2330
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

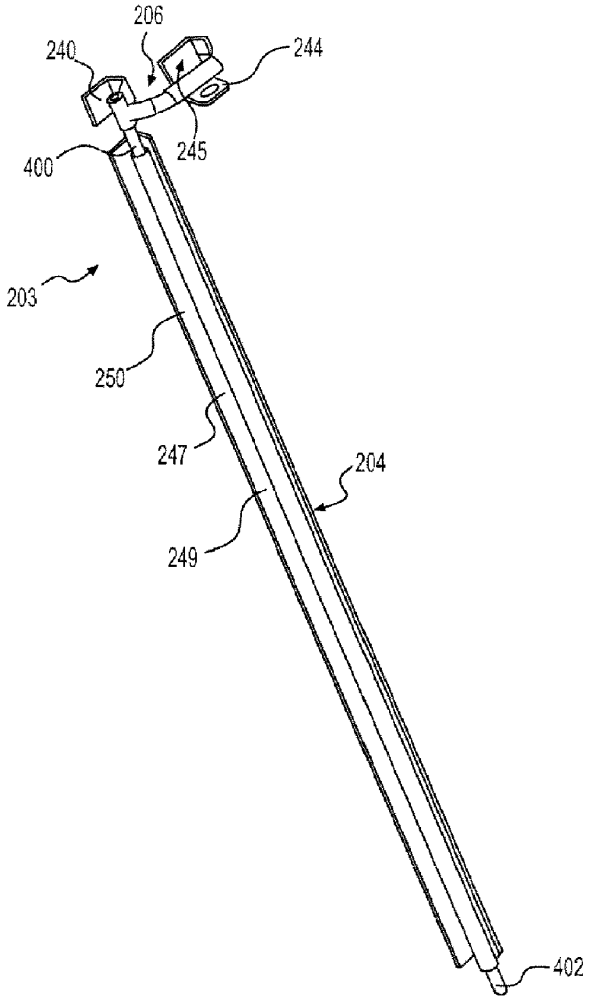


FIG. 26

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2331
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

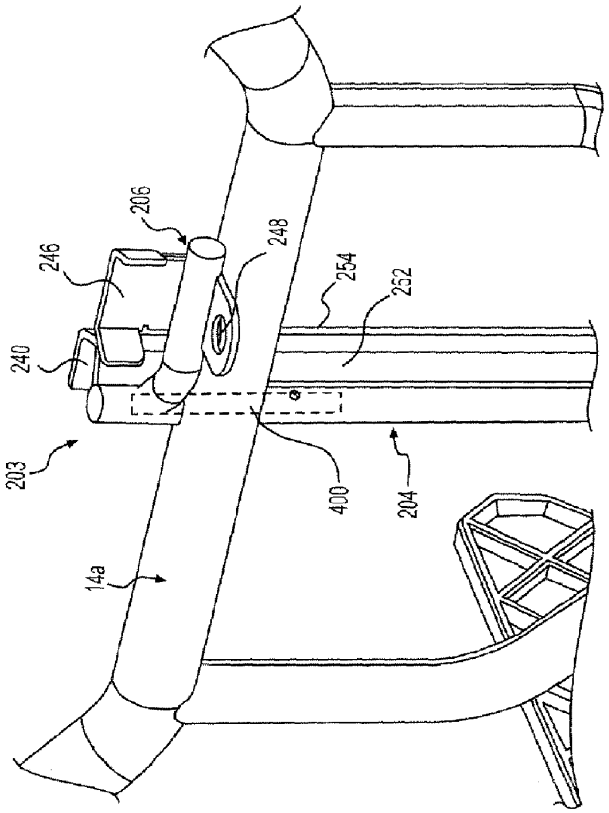


FIG. 27A

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2332
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

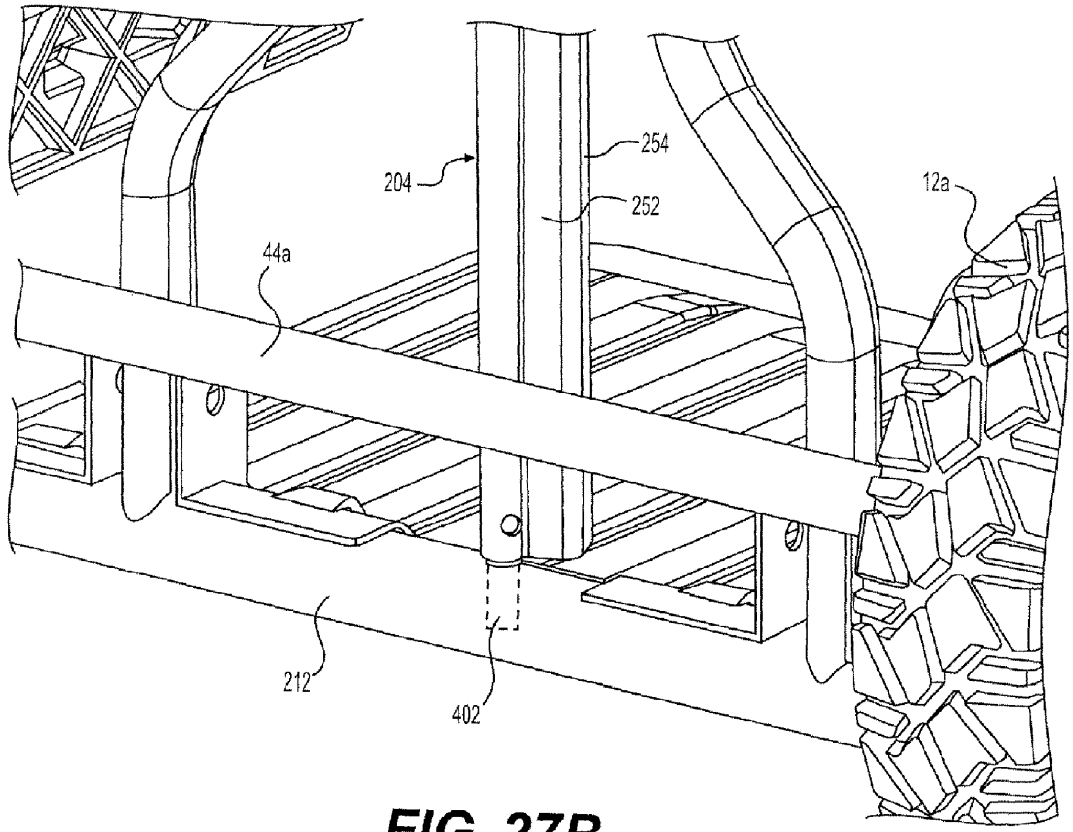


FIG. 27B

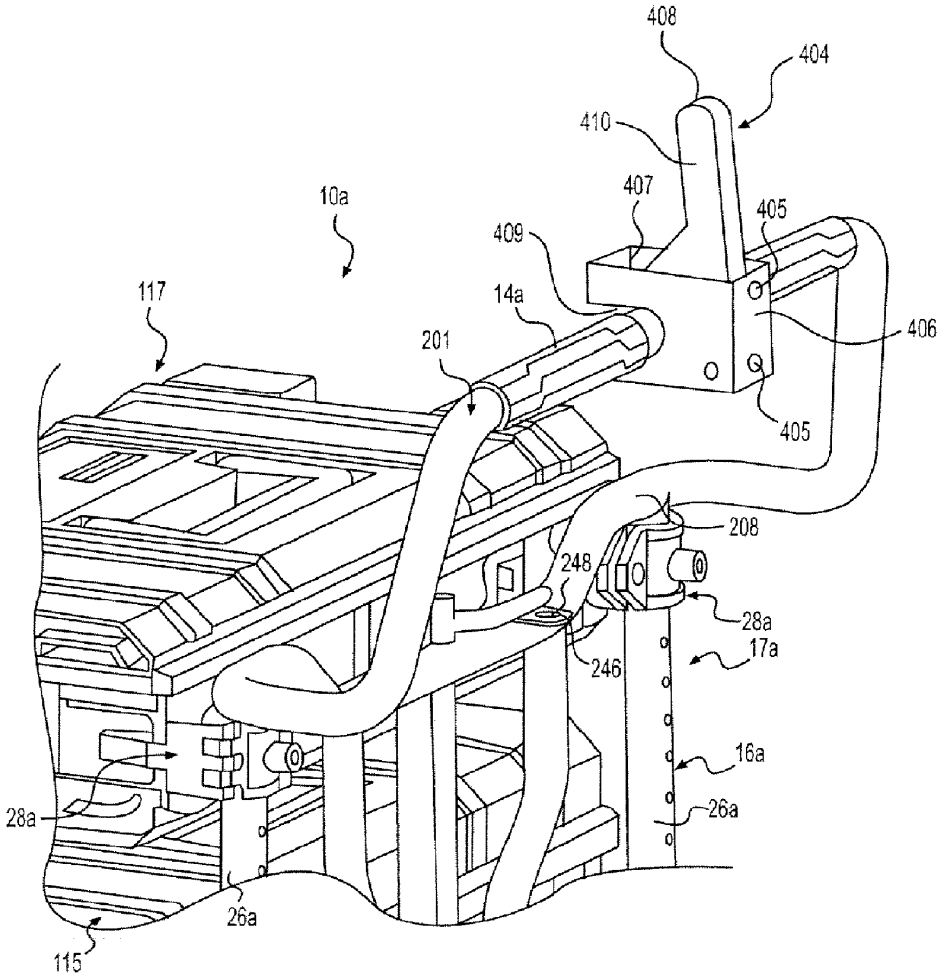


FIG. 28A

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2334
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

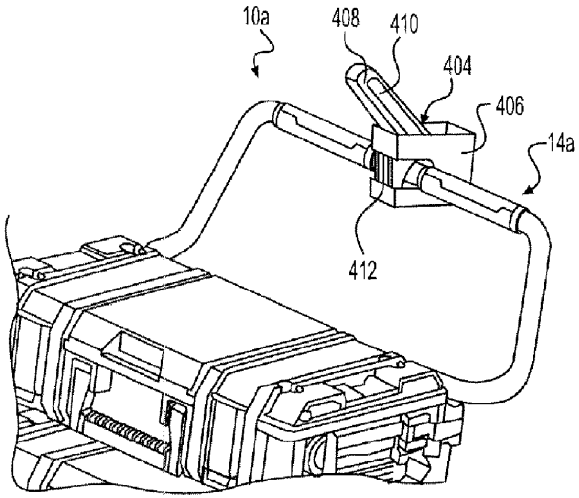


FIG. 28B

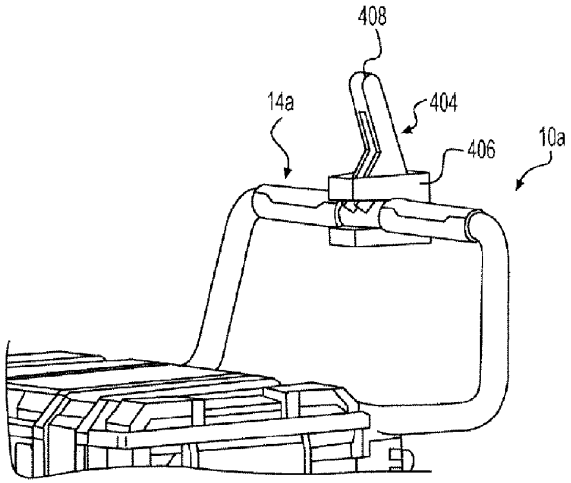


FIG. 28C

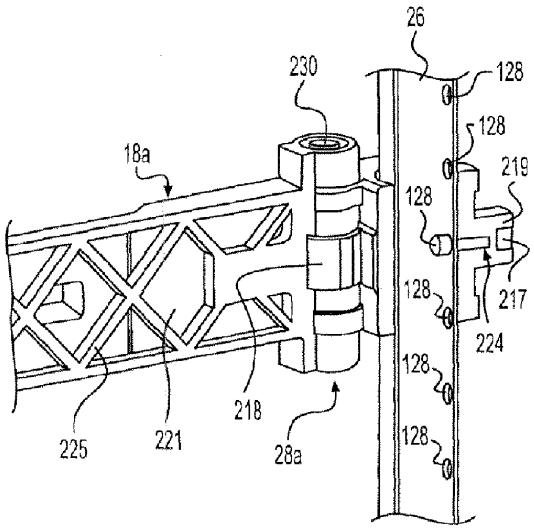


FIG. 29A

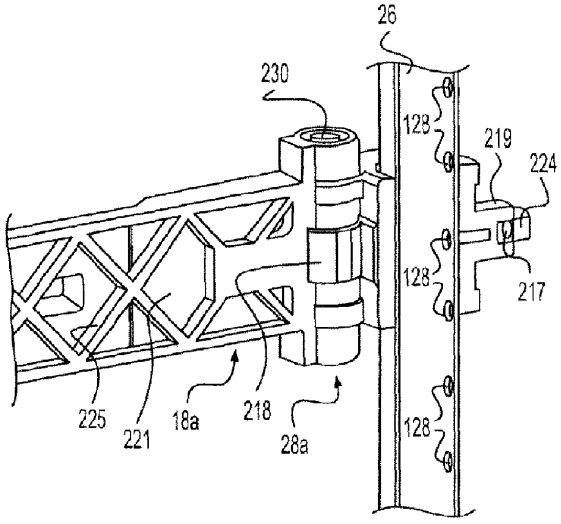


FIG. 29B

INTERNATIONAL SEARCH REPORT

International application No
PCT/IL2019/050689

A. CLASSIFICATION OF SUBJECT MATTER
INV. B62B1/14 B62B3/04
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
B62B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 2 289 671 A2 (STANLEY WORKS ISRAEL [IL]) 2 March 2011 (2011-03-02) paragraph [0006] - paragraph [0017]; figures 1-7,11A paragraph [0061] - paragraph [0064]; figures 13-16,19,20A,20B -----	1,3-13, 15-17 2,14
X	WO 2017/191628 A1 (KETER PLASTIC LTD [IL]) 9 November 2017 (2017-11-09) cited in the application page 23, line 12 - page 26, line 28; figures 1A-1D, 2A-2C,3A-3D-4A-4D-6A-6D6A-6D page 26, line 29 - page 30, line 13; figures 7A,7B,8A,8B,9A-9D,10A,10B,11A,11B,16A, 16B ----- -/--	1-17

[X] Further documents are listed in the continuation of Box C. [X] See patent family annex.

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"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
2 August 2019	23/08/2019

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Jung, Wolfgang

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IPR2024-01400

INTERNATIONAL SEARCH REPORT

International application No
PCT/IL2019/050689

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 5 951 037 A (HSIEH HUNG-CHING [TW] ET AL) 14 September 1999 (1999-09-14) column 2, line 13 - column 5, line 10; figures 1-11	1-3,6, 10-17 4,7,9 5,8

X Y A	US 5 797 617 A (LIN SHIOU CHANG [US]) 25 August 1998 (1998-08-25) column 3, line 32 - column 6, line 46; figures 1-7	1,3,4, 6-13, 15-17 4,7,9 2,5,14

X A	US 2013/223971 A1 (GRACE IV ROBERT W [US]) 29 August 2013 (2013-08-29) paragraph [0037] - paragraph [0052]; figures 1-5,6,7,11,12,13A-13C	1,3, 10-13, 15-17 2,4-9,14

X A	US 2012/160886 A1 (HENNY PAUL [US] ET AL) 28 June 2012 (2012-06-28) paragraph [0023] - paragraph [0029]; figures 1,2,4,5	1-3, 11-13,15 4-10,14, 16,17

X A	US 2007/090616 A1 (TOMPKINS MARY [US]) 26 April 2007 (2007-04-26) paragraph [0027] - paragraph [0037]; figures 1-4,8	1-3, 11-13,15 4-10,14, 16,17

X A	US 2003/184034 A1 (PFEIFFER MICHAEL [DE]) 2 October 2003 (2003-10-02) paragraph [0040] - paragraph [0046]; figures 1-9	1-3,11, 13,16 4-10,12, 14,15,17

1

Form PCT/ISA/210 (continuation of second sheet) (April 2005)

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IPR2024-01400

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/IL2019/050689

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5951037		1999-09-14	Hsieh et al.	
	2	5797617		1998-08-25	Lin	
	3	6176559		2001-01-23	Tiramani et al.	
	4	6371320		2002-04-16	Sagol	
	5	8191910		2012-06-05	Landau et al.	
	6	7367571		2008-05-06	Nichols	
	7	6050660		2000-04-18	Gurley	
	8	6619772		2003-09-16	Dierbeck	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20120160886	A1	2012-06-28	Henny et al.	
	2	20070090616	A1	2007-04-26	Tompkins	
	3	20030184034	A1	2003-10-02	Pfeiffer	
	4	20130223971	A1	2013-08-29	Grace, IV	
	5	20060119060	A1	2006-06-08	Sullivan et al.	
	6	20060006770	A1	2006-01-12	Valentini	
	7	20070145700	A1	2007-06-28	Ambrose et al.	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	2289671	EP	A2	2011-03-02	Stanley Works Israel		

EFS Web 2.1.18

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

If you wish to add additional Foreign Patent Document citation information please click the Add button			Add
NON-PATENT LITERATURE DOCUMENTS			Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	International Search Report for International Application No. PCT/IL2019/050689, dated August 23, 2019 (3 pages).	
If you wish to add additional non-patent literature document citation information please click the Add button			Add

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-11-25
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	15826232
Filing Date:	29-Nov-2017
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Filer:	Elissa Marie Kingsland/Heather Doney
Attorney Docket Number:	55390-501C01US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1900	1900
		Total in USD ($)		**1900**

Electronic Acknowledgement Receipt	
EFS ID:	37844645
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	25-NOV-2019
Filing Date:	29-NOV-2017
Time Stamp:	16:04:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1900
RAM confirmation Number	E2019AOG05137912
Deposit Account	500311
Authorized User	Elissa Kingsland
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	055390-501C01US_RCE.pdf	1365966 5389e8176bff730f17bdfb3ad8eb01b23961dd2c	no	3
Warnings:					
Information:					
2	Transmittal Letter	055390-501C01US_IDS_transmittal.pdf	105624 670edcaa5170dae88e315cc96e95f829c4fe3dab	no	2
Warnings:					
Information:					
3	Foreign Reference	EP2289671.pdf	2446841 74e81d566e017199e939fce4ac1de69f58cb597f	no	47
Warnings:					
Information:					
4	Non Patent Literature	PCTIL2019050689_SR.pdf	483085 a9667f5e52e41c1debf299e534577584f97d5970	no	3
Warnings:					
Information:					
5	Information Disclosure Statement (IDS) Form (SB08)	055390-501C01US_IDS.pdf	1125485 64c1eb47970471ee5651318b388261dd7124c006	no	5
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	30427 de260fbe446cc958afb05da13814b3918452fa37	no	2
Warnings:					
Information:					

Total Files Size (in bytes):	5557428

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20190225371	A1	2019-07-25	Hoppe et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

EFS Web 2.1.18

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
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	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

	1		

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

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OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-12-12
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	38011202
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	12-DEC-2019
Filing Date:	29-NOV-2017
Time Stamp:	14:13:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	055390-501C01US_IDS_transmittal.pdf	105520 a32be6faf717fd347526ce8640fd5bb359fe439e	no	2
Warnings:					

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	055390-501C01US_IDS.pdf	1054974 957602df30dc963c45b2a3ee144bcbdc10fded56	no	4
Warnings:					
Information:					
		Total Files Size (in bytes):	1160494		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3736
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the reference listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the reference be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114 (37 C.F.R. § 1.97(b)(4)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: December 12, 2019

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

94652065v.1

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2357
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
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	Attorney Docket Number	55390-501C01US

	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-01-09
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	38253922
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	09-JAN-2020
Filing Date:	29-NOV-2017
Time Stamp:	16:39:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	055390-501C01US_IDS_transmittal.pdf	105789 f58df842c048f3174562fe63d9e5265aa418cd87	no	2
Warnings:					

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	055390-501C01US_IDS.pdf	1054911 4dde4d8543c730cb0eb746c4c417529f7f0f7471	no	4
Warnings:					
Information:					
		Total Files Size (in bytes):	1160700		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3736
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the reference listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the reference be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114 (37 C.F.R. § 1.97(b)(4)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed reference.

Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: January 9, 2020

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

95350855v.1

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2365
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

30623 7590 01/10/2020

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 01/10/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	04/10/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 02/11)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2366
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

30623 7590 01/10/2020
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	04/10/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINERTH, GIDEON R	3736	206-501000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2367
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

30623 7590 01/10/2020

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 01/10/2020

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 02/11)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2368
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/826,232	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 12/25/2019.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are See Continuation Sheet . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 12/12/2019, 11/25/2019.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

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Continuation of 3. The allowed claim(s) is/are: 1-2,6-11,13-19 and 21-23

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: The Amended Claims of 2/12/2019 incorporate allowable subject matter indicated in the Office Action of 11/28/2018. Specifically, Amended Claim 1 recites a single depressed locking location (244) having two locking ribs (248) that form the coupling engagement as seen in Figure 8A. Claim 6 recites two locking ribs (312A and 312B – Figure 12C) in two neighboring depressions (308A and 308B). These two ribs in two neighboring depressions serve as the female coupler as discussed in Specification Page 32 Lines 6-14 to hold an item in an offset position from the depressions.

Furthermore, the newly submitted references of June 18, 2019, July 2, 2019, and July 18, 2019 do not raise any additional issues regarding the determination of patentability. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

Additional references submitted on December 12, 2019 and 11/25/2019 also have been considered along with references submitted in corresponding applications 15/826201 and 16/216724.

Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is

(571)270-5121. The examiner can normally be reached on Monday-Friday 10AM-6PM EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Pickett can be reached on (571) 272-4560. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Notice of References Cited	Application/Control No. 15/826,232	Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20190106244-A1	04-2019	Brunner; Yaron	A45F3/10	1/1
*	B	US-20170138382-A1	05-2017	KO; Kenneth H.	F16B12/24	1/1
*	C	US-10434638-B1	10-2019	Tsai; Chung-Yu	B25H3/023	1/1
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	06/08/2018	11/23/2018	02/21/2019						
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	2	✓	✓	=						
	3	✓	-	-						
	4	✓	-	-						
	5	✓	O	-						
	6	✓	O	=						
	7	✓	✓	=						
	8	✓	✓	=						
	9	✓	✓	=						
	10	✓	✓	=						
	11	✓	✓	=						
	12	✓	O	-						
	13	✓	✓	=						
	14	✓	✓	=						
	15	✓	✓	=						
	16	✓	✓	=						
	17	✓	✓	=						
	18	✓	✓	=						
	19	✓	✓	=						
	20	✓	-	-						
	21		✓	=						
	22		✓	=						
	23			=						

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

CPC						
Symbol					**Type**	**Version**
B65D	/	21	/	0223	F	2013-01-01
B25H	/	3	/	02	I	2013-01-01
A45C	/	5	/	14	I	2013-01-01
A45C	/	7	/	005	I	2013-01-01
A45F	/	3	/	10	I	2013-01-01
B25H	/	1	/	04	I	2013-01-01
A45C	/	13	/	02	I	2013-01-01
B25H	/	3	/	021	I	2013-01-01
B65D	/	21	/	0209	I	2013-01-01
B62B	/	1	/	14	I	2013-01-01
B65D	/	21	/	0228	I	2013-01-01
B65H	/	2701	/	533	A	2013-01-01
A45C	/	7	/	0045	A	2013-01-01
B25H	/	3	/	023	A	2013-01-01
B62B	/	5	/	067	A	2013-01-01
B65D	/	2255	/	00	A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

/GIDEON R WEINERTH/ Examiner, Art Unit 3736		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	22 December 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6A

U.S. Patent and Trademark Office — Part of Paper No.: 20191222

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
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INTERNATIONAL CLASSIFICATION				
CLAIMED				
B65D	/	21	/	02
	/		/	
B25H	/	3	/	02

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
206	501

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					
206	504	508	511			
280	47.18					

/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner)	22 December 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 6A

U.S. Patent and Trademark Office — Part of Paper No.: 20191222

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	12	10	17	19										
2	2	13	11		20										
	3		12	6	21										
	4	14	13	18	22										
	5	15	14	8	23										
7	6	3	15												
9	7	4	16												
10	8	16	17												
11	9	5	18												

/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner)	22 December 2019 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 6A

U.S. Patent and Trademark Office Part of Paper No.: 20191222

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
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CPC - Searched*		
Symbol	**Date**	**Examiner**
A47B47/00	6/6/2018	GW
A47B67/04	6/6/2018	GW
A47B87/02,007,0276	6/6/2018	GW
B65D21/0224,02,0223,0212,0217,0219,0222,0228,023,	6/6/2018	GW
B65D25/2823,06	6/6/2018	GW
B25H3/021,022,023,04,06	6/6/2018	GW
Y10T403/7045	6/6/2018	GW
A47B87/02	11/23/2018	GW
A47B88/90	11/23/2018	GW
B25H3/02	11/23/2018	GW
B65D21/0204	11/23/2018	GW
A45C7/0045	2/20/2019	GW
A45C5/14	2/20/2019	GW
B65D21/00	2/20/2019	GW
Update search from co-pending Applications 15826201, 16216724	02/20/2019	GW
Update Search for IDS filed 4/17/2019	04/26/2019	GW
Update Search, Include KO (US 2014/0161518)	06/04/2019	GW
Update Search, include references from IDS of 6/18/19, 7/2/19, 7/18/19	08/18/2019	GW
Update search, include references from IDS of 12/12/2019 and 11/25/2019	12/22/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/G.W./ Examiner.Art Unit 3728

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**
		GW

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
206	508,511,504,302,501	6/6/2018	GW
280	47.18,47.19,47.26,79.2	6/6/2018	GW
312	107,111	11/23/2018	GW
280	47.26,47.28,652	11/23/2018	GW

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
Update search from Application 16216724 and 15826201	02/20/2019	GW
Consider additional references from 16/216724	12/22/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/G.W./ Examiner.Art Unit 3728

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	Art Unit
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Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
A45C7	0045	2/20/2019	GW
A47B47	00	2/20/2019	GW
A47B67	04	2/20/2019	GW
A47B87	02,007,00276	2/20/2019	GW
A47B88	90	2/20/2019	GW
B65D21	0024,02,00,0223,0212,0217,0219,0222,0228,023,0204	2/20/2019	GW
B65D25	2823,06	2/20/2019	GW
B25H3	021,02,022,023,04,06	2/20/2019	GW
Y10T403	7045	2/20/2019	GW
206	508,511,504,302,501	2/20/2019	GW
280	47.18,47.19,47.26,79.2,47.28,652	2/20/2019	GW
312	107,111	2/20/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/G.W./ Examiner.Art Unit 3728

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L6	1	("RE47022").PN.	USPAT	OR	OFF	2019/12/22 20:05
L7	185	("0344661" | "0687619" | "1424819" | "1933894" | "20010052681" | "20020014488" | "20020067027" | "20020074905" | "20020113386" | "20020185831" | "20030001348" | "20030146589" | "20040069668" | "20040265104" | "20050062244" | "20050104308" | "20050161357" | "20050224384" | "20050258610" | "20050275178" | "20060006619" | "20060012139" | "20060037964" | "20060038367" | "20070080512" | "20070103039" | "20070194024" | "20070194543" | "20070273114" | "20080084036" | "20080121547" | "20080128305" | "20080143069" | "20090020528" | "20090026901" | "20090096181" | "20090223853" | "20090236255" | "20090309323" | "20100052276" | "20100290877" | "20100327562" | "20110049824" | "20110181008" | "20120160886" | "20120326406" | "20140001719" | "20140023221" | "20140375181" | "2554091" | "2588830" | "2901262" | "2964328" | "3168329" | "3310905" | "3327841" | "3393951" | "3734526" | "3804432" | "3891230" | "3990653" | "4169607" | "4202459" | "4363496" | "4448434" | "4619363" | "4836374" | "4884689" | "4927021" | "4936594" | "4984704" | "5022546" | "5104135" | "5123666" | "5207723" | "5325966" | "5333885" | "5362078" | "5378005" | "5464104" | "5474312" | "5595395" | "5626352" | "5634649" | "5699925" | "5720535" | "5799958" | "5803254" | "5845915" | "5882097" | "5887715" | "5906381" | "5913527" | "5915554" | "5931483" | "5934466" | "5938396" | "6000713" | "6015064" | "6050660" | "6079719" | "6082539" | "6105767" | "6109627" | "6113129" | "6123344" | "6131926" | "6135466" | "6176559" | "6254112").PN. OR ("6347847" | "6357063" | "6371320" | "6394471" | "6398235" | "6474930" | "6523687" | "6561528" | "6601930" | "6616152" | "6626295" | "6648166" | "6648390" | "6659476" | "6666465" | "6874634" | "6889838" | "6945546" | "6971517" | "6994214" | "7063339" | "7066475" | "7108131" | "7168715" | "7188846" | "7188847" | "7210689" | "7219969" | "7246704" | "7255229" | "7263742" |	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/22 20:06

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		"7328905" | "7334680" | "7357268" | "7367571" | "7472730" | "7500681" | "7503569" | "7523827" | "7686260" | "7703776" | "7819407" | "7823893" | "7845653" | "7883096" | "7905353" | "7905502" | "7938412" | "8132819" | "8226092" | "8505729" | "8567796" | "8657307" | "8668209" | "9132543" | "9566990" | "D417338" | "D437484" | "D536525" | "D542496" | "D640869" | "D653832" | "D654241").PN. OR ("RE47022").URPN.				
L8	28	(US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20110139665-$).did. or (US-9506489-$ or US-9132543-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5628443-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2019/12/22 20:08
L9	14	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-20080169739-$ or US-20080134607-$ or US-20080104921-$ or US-20060038367-$).did. or (US-9872562-$ or US-9566990-$ or US-7841144-$ or US-6547347-$ or US-5429260-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/22 20:08
L10	7	(US-20170318927-$ or US-20170166352-$ or US-20110220531-$ or US-20110073516-$).did. or (US-9701443-$ or US-3974898-$ or US-3506321-$).did.	US-PGPUB; USPAT	OR	OFF	2019/12/22 20:08
L12	1	(US-20140161518-$).did.	US-PGPUB	OR	OFF	2019/12/22 20:08
L13	49	L8 L9 L10 L12	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/22 20:08
L14	0	("2018/0290288").URPN.	USPAT	OR	OFF	2019/12/22 20:09
L15	0	("2017/0166352").URPN.	USPAT	OR	OFF	2019/12/22 20:09
L16	36	("0455883" | "0484121" | "0918297" | "20060175945" | "20100052276" | "20110279956" | "20120086319" | "20130134850" | "2341434" | "2431830" | "2441728" | "3058320" | "3135570" | "3326203" | "3712697" | "4590709" | "5011240" | "5026130" | "5048902" | "5145245" | "5673984" | "6068356" | "6164738" | "8201900" | "D322875").PN. OR ("9872562").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/22 20:09
L17	11	(US-20170318927-$ or US-20170166352-$ or US-20110220531-$ or US-20110073516-$ or US-20190106244-$ or US-20170138382-$ or US-20180290288-$).did. or (US-9701443-$ or	US-PGPUB; USPAT	OR	OFF	2019/12/22 20:18

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		US-3974898-$ or US-3506321-$ or US-10434638-$).did.				
L19	79	("20080308369" | "20080134607" | "9566990" | "9872562" | "20110073516" | "20080115312" | "2042387" | "5105947" | "D701696" | "D814187" | "20190225371" | "20170121056" | "20110220531" | "20170166352" | "20170318927" | "3506321" | "20100139566" | "20120207571" | "20130031731" | "20130031732" | "20180220758" | "D663952" | "20070090616" | "20130223971" | "3974898" | "9701443" | "20030115715" | "20030205877" | "D833744" | "D837515" | "20060006770" | "6050660" | "7367571" | "20170239808" | "5429260" | "7841144" | "20130024468" | "D630851" | "D753395" | "D790221" | "20090178946" | "6371320" | "20080169739" | "6547347" | "20170165828" | "8689396" | "8714355" | "D674605" | "D770179" | "20030184034" | "20070145700" | "6619772" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "20190002004" | "20160023349" | "20170257958" | "7263742" | "9643629" | "D664354" | "20060119060" | "5951037" | "8875888" | "20180290288" | "20190039781" | "20120180250" | "D525789" | "D765974" | "8191910" | "20060186624" | "20080271280" | "20090071990" | "D753394" | "20120160886" | "5797617" | "6176559").PN.	US-PGPUB; USPAT	OR	OFF	2019/12/22 20:19
L20	3	L17 not L19	US-PGPUB; USPAT	OR	OFF	2019/12/22 20:19
L21	81	("20080134607" | "9566990" | "9872562" | "20110073516" | "20080115312" | "2042387" | "5105947" | "D701696" | "D814187" | "20190225371" | "20170121056" | "20110220531" | "20170166352" | "20170318927" | "3506321" | "20100139566" | "20120207571" | "20130031731" | "20130031732" | "20180220758" | "D663952" | "20070090616" | "20130223971" | "3974898" | "9701443" | "20030115715" | "20030205877" | "D833744" | "D837515" | "20060006770" | "6050660" | "7367571" | "20170239808" | "5429260" | "7841144" | "20130024468" | "D630851" | "D753395" | "D790221" | "20090178946" | "6371320" | "20080169739" | "6547347" | "20170165828" | "8689396" | "8714355" | "D674605" | "D770179" | "20030184034" | "20070145700" | "6619772" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "20190002004" | "20160023349" | "20170257958" | "7263742" | "9643629" | "D664354" | "20140161518" | "20060119060" | "5951037" | "20170174392" | "20180290288" | "20190039781" | "20120180250" | "D525789" | "D765974" | "8191910" |	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/22 20:31

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		"20060186624" | "20080271280" | "20090071990" | "D753394" | "20120160886" | "5797617" | "6176559").PN.				
L22	3	L17 not L21	US-PGPUB; USPAT	OR	OFF	2019/12/22 20:32
S1	2	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 19:40
S2	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:41
S3	1	("20100163562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:44
S4	22	("5699925" | "6959507" | "20090139892" | "20090236255" | "5469961" | "20030155267" | "20080308641" | "3182856" | "5353948" | "3581928" | "4351448" | "20090178989" | "2634020" | "3387732" | "5755180" | "6761266" | "7246718" | "7246718" | "5606820" | "4351448" | "20090236255" | "20050224494" | "5469961").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:51
S5	134	("2733830" | "2746081" | "3077282" | "3285464" | "3315796" | "3376046" | "3381844" | "3405836" | "4109821" | "4302866" | "4401312" | "4431114" | "4844263" | "5062539" | "5096084" | "5312011").PN. OR ("5699925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:52
S6	23	("20030155267" | "20050224494" | "20080308641" | "20090139892" | "20090178989" | "20090236255" | "2634020" | "3182856" | "3387732" | "3581928" | "4351448" | "5353948" | "5469961" | "5606820" | "5699925" | "5755180" | "6761266" | "6959507" | "7246718").PN. OR ("8590704").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:54
S7	42	("3098686" | "4391478" | "4452003" | "4662515" | "4768651" | "4901664" | "5176281" | "5244265" | "5344339" | "5624029" | "5685421" | "5699925" | "5938023").PN. OR ("6193062").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:57
S8	165	(KETER adj PLASTIC).as.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:00
S9	38	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:01
S10	1031	206/508.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:06
S11	206	S10 and (spring resilient)	US-PGPUB;	OR	OFF	2018/04/05 20:07

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			USPAT; USOCR			
S12	121	S10 and (spring bias biasing biased)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:08
S13	33	("3145870").URPN.	USPAT	OR	OFF	2018/04/05 20:11
S14	66	("0353600" | "0888611" | "2111884" | "2256024" | "2670892" | "3145870" | "3341053" | "3343670" | "3353665" | "3369658" | "3419176").PN. OR ("3933268").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:12
S15	41	("3933268" | "4303158" | "4383721" | "4592601" | "4733703" | "4768651" | "4782619" | "5203618" | "5244265").PN. OR ("5482162").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:13
S16	26	("2812099" | "2980751" | "3147151" | "3167458" | "3338452" | "3341053" | "3745048" | "3767468" | "3933268" | "3944074" | "4113926").PN. OR ("4339049").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:14
S17	2166	206/508,511,504.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:18
S18	121	206/503.ccls. and (spring)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:19
S19	22	("2807387" | "3182856" | "4724756" | "5083664" | "5375709" | "5445269").PN. OR ("5934466").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:21
S20	3773	280/47.18,47.19,47.26,79.2.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
S21	891	280/47.18,47.19,47.26,79.2.ccls. and (spring)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
S22	1	("2004/0183266").URPN.	USPAT	OR	OFF	2018/04/05 20:34
S23	2	(("20020014488") or ("4113214") or ("3845968")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 20:35
S24	3	(("20020014488") or ("4113214") or ("3845968")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:35
S25	8	("2002/0014488").URPN.	USPAT	OR	OFF	2018/04/05 20:36
S32	138	S21 and (stack stacked stacking)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:01
S33	29	("1014475" | "1408400" | "1636682" | "1815825" | "4717168" | "5139278").PN. OR	US-PGPUB;	OR	OFF	2018/04/05 21:03

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		("5294137").URPN.	USPAT; USOCR			
S34	23	("2606652" | "2677483" | "2736452" | "3258091" | "3308911" | "3376046" | "3401933" | "4066156").PN. OR ("4220343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:08
S35	39	("20020175172" | "20040112906" | "20050051549" | "20090308883" | "20100108556" | "20100140890" | "20110139805" | "20110248458" | "20110278879" | "20120012596" | "20130181419" | "20150040606" | "3117692" | "3376046" | "3999775" | "4091953" | "4093070" | "4220343" | "4828112" | "5011240" | "5069466" | "5287966" | "5427394" | "6520514" | "6964348" | "7086551" | "7134552" | "7544915" | "7950679" | "8322530" | "8360447" | "8465030" | "8596655" | "8690170" | "8777043" | "8936260" | "9205951").PN. OR ("9669930").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:08
S36	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:11
S37	20	B65D21/02.cpc. and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:12
S38	31	("2626025" | "3331529" | "3346137" | "3749273" | "3811747" | "3836043").PN. OR ("4813542").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:13
S39	43	("4545487" | "4813542" | "5617953" | "5864467" | "5949653").PN. OR ("6085925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:14
S40	60	(french adj cleat)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:16
S41	25	("3361293").URPN.	USPAT	OR	OFF	2018/04/05 21:21
S42	32	("2483269" | "3219400" | "3361293" | "3512696" | "3565624" | "3763980" | "4190172" | "4322118" | "4389078" | "4624383" | "4660725" | "5016946" | "5038937" | "5105962" | "5310071" | "6047827" | "6056377" | "6276550" | "D330128" | "D332745").PN. OR ("7152752").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:22
S43	11	("20070145864" | "20100254757" | "20110085853" | "3944282" | "4900090" | "4995176" | "6612078" | "6830236" | "6877824" | "7152752" | "8464408").PN. OR ("9506489").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:23
S44	16	("3469331" | "4716666").PN. OR ("4995176").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:24

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S45	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:25
S46	7	("1849659").URPN.	USPAT	OR	OFF	2018/04/05 21:29
S47	46	("1849659" | "2774511" | "2916293" | "2994457" | "3053397" | "3100582" | "3113680" | "3219232" | "3282458" | "3647112" | "4000817" | "4176747" | "Re26758" | "Re27649").PN. OR ("4550837").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:30
S48	1066	B65D21/0217,0219,0222,0228,023.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:33
S49	92	B65D21/0217,0219,0222,0228,023.cpc. and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:33
S50	0	("2017/0121056").URPN.	USPAT	OR	OFF	2018/04/05 21:37
S51	4	("20110139777" | "5301829" | "5427265" | "8602217").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:37
S52	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269" | "6082539" | "6371320" | "6874634" | "6889838" | "7387350" | "7516842").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:39
S53	2	("2012/0024739").URPN.	USPAT	OR	OFF	2018/04/05 21:43
S54	4	("2011/0168599").URPN.	USPAT	OR	OFF	2018/04/05 21:44
S55	22	("5699925" | "6959507" | "20090139892" | "3182856" | "20030155267" | "20080308641" | "3182856" | "5353948" | "3581928" | "4351448" | "20090178989" | "2634020" | "3387732" | "5755180" | "6761266" | "20050224494" | "7246718" | "5606820" | "20090236255" | "5469961").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:45
S56	237	206/501.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:46
S57	2	("2010/0219193").URPN.	USPAT	OR	OFF	2018/04/05 21:50
S58	72	("0879455" | "20040134390" | "20040178208" | "20060254946" | "20060254947" | "20080017650" | "20100219193" | "2695115" | "2849151" | "3103278" | "3117692" | "3383009" | "3391824" | "3407758" | "3419184" | "3481502" | "3616943" | "3754645" | "3756396" | "3759416" | "3811747" | "3916803" | "3926321" | "3968879" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:50

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		"4287997" | "4618059" | "4655360" | "4765252" | "4832200" | "4848605" | "4889235" | "5054617" | "5203494" | "5392945" | "5404829" | "5454477" | "5641090" | "5718350" | "5769230" | "5779051" | "5974981" | "6021916" | "6085467" | "6186345" | "6237758" | "6308858" | "6371364" | "6446563" | "6457599" | "6585090" | "6622642" | "6662950" | "6698362" | "7163122" | "D236326" | "D333094" | "D361715" | "D446017" | "D500924").PN. OR ("8851287").URPN.				
S59	36	("20020096844" | "4066155" | "4813542" | "5099968" | "5564805" | "5906291" | "D439739").PN. OR ("6585090").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:52
S60	73	("20030029750" | "20030123965" | "20050072642" | "20050077136" | "20060119060" | "20070012694" | "20070068757" | "2497173" | "3061057" | "3452846" | "3532355" | "3572253" | "3650216" | "3861703" | "3891230" | "4081061" | "4118048" | "4122925" | "4350194" | "4621716" | "4657135" | "4693345" | "4738340" | "4792025" | "4813521" | "4951818" | "5038842" | "5048649" | "5109961" | "5142445" | "5178244" | "5186290" | "5197579" | "5339934" | "5373104" | "5379870" | "5407039" | "5447216" | "5484045" | "5484046" | "5632496" | "5713439" | "5890571" | "5927361" | "6073737" | "6116390" | "6164425" | "6213266" | "6401890" | "6520327" | "6585090" | "6634496" | "6758334" | "6976566" | "7077252" | "7232018" | "7380685" | "7398868" | "7726483" | "7780002" | "7942282" | "D294775" | "D453623").PN. OR ("8561769").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:53
S61	44	("20040007574" | "20050036847" | "20050199459" | "20070130731" | "20090178946" | "20120292867" | "3419184" | "3987829" | "4287997" | "4452555" | "5058746" | "5085448" | "5186330" | "5564805" | "5709008" | "5785328" | "6116390" | "6983946" | "7011214" | "7044528" | "7163122" | "7350789" | "7482928" | "7530580" | "7537119" | "7714708" | "7780026" | "7854321" | "7883096" | "7938412" | "8132819" | "8146771" | "8256242" | "8561769" | "8567796" | "D358765" | "D401412" | "D467424" | "D467425" | "D467426" | "RE44656").PN. OR ("9550605").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:59
S62	10	("20050199623" | "5765707" | "5829595" | "6024223" | "7337908").PN. OR ("8146771").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:03
S63	42	("0621601" | "2761582" | "3113690" | "3616943" | "3643993" | "3823973" | "3828964" | "3977558" | "4000704" |	US-PGPUB; USPAT;	OR	OFF	2018/04/05 22:05

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		"4042111" | "4416374" | "4678084" | "4887731" | "5011036" | "5022546" | "5105967").PN. OR ("5186330").URPN.	USOCR			
S64	74	("0879455" | "2849151" | "3005282" | "3371816" | "3393858" | "3481502").PN. OR ("3616943").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:08
S65	36	("1234730" | "20020145022" | "20030010799" | "20040207225" | "20090212584" | "2578238" | "2883764" | "3002650" | "3131829" | "3351228" | "3374914" | "3616943" | "4754883" | "4838745" | "4941784" | "5025964" | "5392945" | "5469999" | "5538153" | "5671511" | "5676251" | "5687895" | "5855310" | "6471278" | "7159730" | "7329451" | "7537119" | "D264014" | "D333094").PN. OR ("9738198").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:09
S66	75	("0879455" | "20040178208" | "20060254947" | "2695115" | "2849151" | "2939603" | "3103278" | "3117692" | "3383009" | "3391824" | "3419184" | "3481502" | "3616943" | "3754645" | "3756396" | "3759416" | "3811747" | "3968879" | "4287997" | "4655360" | "4671411" | "4765252" | "4832200" | "4848605" | "5042674" | "5203494" | "5392945" | "5454477" | "5566824" | "5641090" | "5718350" | "5769230" | "5779051" | "6021916" | "6085467" | "6186345" | "6237758" | "6308858" | "6367630" | "6371364" | "6457599" | "6585090" | "6662950" | "7163122" | "D333094" | "D361715" | "D446017" | "D500924").PN. OR ("7537119").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:10
S67	45	("0491865" | "1142932" | "1665238" | "20060016812" | "20070108080" | "20080264820" | "20100084119" | "3144016" | "3259263" | "3369691" | "3384259" | "3828964" | "4109789" | "4655360" | "4760921" | "4901380" | "5086926" | "5203494" | "5461755" | "5564583" | "5671856" | "5699925" | "5769230" | "6024223" | "6085467" | "6186345" | "6237758" | "6273258" | "6457599" | "6715627" | "6840378" | "6851566" | "7510096" | "7537119" | "8056722" | "RE37518").PN. OR ("8813960").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:11
S68	32	("4506798" | "4626155" | "4741449" | "5109985" | "5123541" | "5190179" | "5722328" | "5862917").PN. OR ("6024223").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:12
S69	4	("1665238").URPN.	USPAT	OR	OFF	2018/04/05 22:15
S70	39	("2885135" | "3376046" | "3539071" | "3568879" | "3987829" | "4174950" | "4765252" | "4844263" | "D248015").PN. OR ("D333094").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:17
S71	53	("2761582" | "3117692" | "3360162" | "3379341" | "3392875" | "3419184" | "3675815" | "3759416" | "3979016" |	US-PGPUB; USPAT;	OR	OFF	2018/04/05 22:19

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		"4093071" | "4106624" | "4189052" | "4379508").PN. OR ("4832200").URPN.	USOCR			
S72	79	("3117692").URPN.	USPAT	OR	OFF	2018/04/05 22:22
S73	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:24
S74	13	("20060186186" | "20070209962" | "20080202976" | "2328689" | "2828059" | "3811566" | "4279354" | "4293071" | "6315126").PN. OR ("8684222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:25
S75	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:26
S76	110	("2457842" | "2483464" | "2664219" | "2702142" | "3073466" | "3130855" | "3140007" | "3586204" | "3828964").PN. OR ("4287997").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:30
S77	63	("2461526" | "3078484" | "3114486" | "3233803" | "3749294" | "3902640" | "3915189" | "4082208" | "4287997" | "4307826" | "4366922" | "4424841" | "4491258" | "4545414" | "4673070" | "4790432" | "4813542" | "4884731" | "5131576" | "5184763" | "5321904" | "5419473").PN. OR ("5628443").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:33
S78	151	("1409838" | "20010040080" | "20020074332" | "20020130005" | "20020185350" | "20030034215" | "20030034636" | "20040000457" | "20040004332" | "20040026199" | "20040074725" | "20040163910" | "20040211634" | "20040238303" | "20050077133" | "20050077706" | "20050098402" | "20050103590" | "20050150733" | "20050258621" | "20050285359" | "20060010644" | "20060086583" | "20060102677" | "20060163305" | "20060175170" | "20060196743" | "20060207848" | "20080060953" | "20080136133" | "20080223679" | "20080236972" | "20080308369" | "20080308370" | "20090057082" | "20090139813" | "20090160147" | "20090218187" | "20100000805" | "20100025174" | "20100095480" | "20100108452" | "20100147642" | "20100263977" | "20100307879" | "20100308563" | "20110247910" | "20120160617" | "20120261223" | "20150091264" | "20160045000" | "2454438" | "2602675" | "3131829" | "3178197" | "3317081" | "3659867" | "3842953" | "3891230" | "3974898" | "4087102" | "4314624" | "4335895" | "4575109" | "4588055" | "4673070" | "4917392" | "4953257" | "4969660" | "5072958" | "5105962" | "5127662" | "5263727" | "5310071" | "5348325" | "5533231" | "5628443" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:34

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		"5630601" | "5749503" | "5803471" | "5815843" | "5873145" | "5984154" | "5984327" | "6016893" | "6042127" | "6047442" | "6141841" | "6179176" | "6182981" | "6186295" | "6196366" | "6196560" | "6213266" | "6213267" | "6237734" | "6260871" | "6279705" | "6289554" | "6305587" | "6360400" | "6367602" | "6401888" | "6401890" | "6409412" | "6454065" | "6471019" | "6474524").PN. OR ("6484362" | "6530507" | "6533086" | "6575493" | "6591950" | "6604617" | "6609271" | "6736073" | "6769701" | "6832670" | "6880685" | "6923352" | "6961976" | "6964420" | "7066311" | "7070190" | "7073694" | "7093700" | "7097181" | "7097183" | "7143912" | "7226073" | "7232018" | "7237660" | "7281616" | "7284304" | "7318507" | "7328779" | "7350648" | "7374183" | "7426985" | "7441785" | "7478803" | "7594569" | "7597341" | "7780026" | "8607947").PN. OR ("9888752").URPN.				
S79	6	("2008/0308369").URPN.	USPAT	OR	OFF	2018/04/05 22:35
S80	45	("0672173" | "1084360" | "20020144376" | "20040084269" | "20040173427" | "20040238241" | "20050077136" | "20050092568" | "20080308369" | "20090095588" | "20090101461" | "20100059322" | "20100170761" | "20100236886" | "20100270116" | "20110168507" | "20130037364" | "20130175129" | "20130213753" | "20130220754" | "2581417" | "4836343" | "5099968" | "5355980" | "5560458" | "5671832" | "5829559" | "5927450" | "5988334" | "6347693" | "6533086" | "6536568" | "7322477" | "7322585" | "7503569" | "7909149" | "8087513" | "D516869" | "D671316").PN. OR ("9027722").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:36
S81	35	("0922567" | "1084360" | "1567461" | "2372845" | "2428906" | "2801666" | "2858957" | "3837447" | "4098312" | "4122925" | "4142563" | "4257463" | "4286639" | "4673070" | "4744446").PN. OR ("4836343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:39
S82	51	("0778785" | "1567461" | "2372845" | "2428906" | "2989998" | "3631572" | "3696850" | "4122925" | "4128194" | "4256245" | "4424841").PN. OR ("4673070").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:40
S83	33	("0842498" | "1689399" | "3114486" | "3698045" | "4231135" | "4673070" | "4799298" | "4934573" | "5205448" | "5259093" | "5465425" | "5604958" | "5632071" | "5724707" | "5815843" | "6108816" | "7080430" | "7251867").PN. OR ("7526842").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:41
S84	23	("2428906" | "2707035" | "3225951" |	US-	OR	OFF	2018/04/05

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		"3319744" | "3696850" | "3958731").PN. OR ("4122925").URPN.	PGPUB; USPAT; USOCR			22:43
S85	33	("1973819" | "2007696" | "3373911").PN. OR ("4142563").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:46
S86	12	("2858957").URPN.	USPAT	OR	OFF	2018/04/05 22:48
S87	12	("20060071581" | "20080060964" | "2858957" | "3346137" | "3568879" | "4258847" | "4592601" | "4685565" | "4863222" | "7311202").PN. OR ("9724820").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S88	43	("2128854" | "3743372").PN. OR ("4863222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S89	73	("2842420" | "2998128" | "3032381" | "3294463" | "3501044" | "3552817").PN. OR ("3743372").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:51
S90	36	("2011962" | "3514170" | "3552817" | "3743372" | "3851936" | "3999818" | "4198777" | "4238032" | "4353470" | "4589546" | "4744612" | "4782619" | "4874210" | "4907703" | "5046789" | "5137340" | "5176435" | "5191983" | "5344024" | "5399004" | "5454634").PN. OR ("6050657").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:53
S91	17	("3131829" | "3429632" | "3552579" | "3707023" | "4062302" | "4239306" | "5246284").PN. OR ("5454634").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:55
S92	55	("0511617" | "1890000" | "2492697" | "2557630" | "2807387" | "3203744" | "3283915" | "3514170" | "3743372" | "3758181" | "3918781" | "3999818" | "4026615" | "4056295" | "4120549").PN. OR ("4243279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:59
S93	45	("2593998" | "2653072" | "2730423" | "3131829" | "3219400" | "3514170" | "3552817" | "3563624" | "3743372" | "3814489").PN. OR ("3999818").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:03
S94	14	("2593998").URPN.	USPAT	OR	OFF	2018/04/05 23:06
S95	52	("4081061" | "4621716" | "5316159" | "6213266" | "6213267" | "7976024" | "1084360" | "3749273" | "4570799" | "4995436" | "5779051" | "D447944" | "3103278" | "3374917" | "5000713" | "6585090" | "5098328" | "D359315" | "20030132184" | "20050199459" | "4813542" | "0480709" | "5062539" | "5186290" | "6276550" | "D346627" | "5310071" | "20040222059" | "3583590" | "3836043" | "4287997" | "4656840" | "5167336" | "5392945" | "6257381" | "20040000458" | "4573595" | "7644828" | "D483200" | "7648407" | "3811747" | "20010027902" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:14

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		"5099968" | "5485920" | "5709304" | "5735422" | "3346137").PN.				
S96	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:16
S97	41	("2454438" | "2495132" | "3131829" | "3194426" | "3297196" | "3317081" | "3343705" | "3404805" | "3851936" | "4192422").PN. OR ("4328902").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:18
S98	43	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:29
S99	11	("0907507" | "1626482" | "2343525" | "3974898" | "4065014").PN. OR ("4423687").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:30
S100	32	("3481502").URPN.	USPAT	OR	OFF	2018/04/05 23:38
S101	8	(("1112943") or ("2255513") or ("2849151") or ("3371816")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:41
S102	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/05 23:41
S103	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:42
S104	21	("1112943").URPN.	USPAT	OR	OFF	2018/04/05 23:43
S105	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 12:32
S106	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 12:33
S107	22	("879455").URPN.	USPAT	OR	OFF	2018/04/06 12:34
S108	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 13:10
S109	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 13:11
S110	37	("3899229" | "4431237" | "4519655" | "4828341" | "4889254" | "5191983").PN. OR ("5469961").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:11
S111	25	("20030155267" | "20050224494" | "20080308641" | "20090139892" | "20090178989" | "20090236255" | "2634020" | "3182856" | "3387732" | "3581928" | "4351448" | "5353948" | "5469961" | "5606820" | "5699925" | "5755180" | "6761266" | "6959507" | "7246718").PN. OR ("8677661").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:12
S112	24	("1226708" | "2833137" | "2834121" | "2843943" | "3139744" | "3220229" | "3545235" | "3824813" | "4507942" | "4551996" | "4663948" | "4680948" | "4821535" | "4972687" | "4989426" | "5469961" | "5653416").PN. OR ("5951130").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:13

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S113	118	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$).did. or (US-3117692-$ or US-2593998-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:03
S115	286	B65D21/0223.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:05
S116	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:05
S117	2198	B25H3/021,022,023,04,06.cpc.	US-PGPUB; USPAT;	OR	OFF	2018/04/06 18:07

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			USOCR			
S118	436	A47B47/00.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S119	1076	A47B87/02,007,0276.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S120	550	A47B67/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:11
S121	770	Y10T403/7045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:12
S122	9	("7451578" | "6209278" | "4599841" | "6363677" | "6955020" | "7040068" | "6588166" | "6804926" | "6658808").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:14
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S128	6	(("0935402") or ("1925070") or ("2453918")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 18:23
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S134	6	(matthew near3 vargo).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S135	75	(Hoppe near2 Christopher).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S136	14	B65D25/2823.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S137	351	B65D25/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S138	73	(Milwaukee adj Electric).as. and (stack box)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:01
S139	8	(Milwaukee adj Electric).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02
S140	8	(Milwaukee and tool).as. and ("220" "206" "215").clas.	US-PGPUB;	OR	OFF	2018/04/06 19:02

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			USPAT; USOCR			
S141	84	(Milwaukee and tool).as. and latch	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:03
S142	37	(Milwaukee and tool).as. and (stack stacked stacking)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:04
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		"6073944" | "6076666" | "6081695" |					
		"6082538" | "6098768" | "6102172" |					
		"6109403" | "6129254" | "6167680" |					
		"6167994" | "6176559" | "6179185" |					
		"6182981" | "6186295" | "6203075" |					
		"6206063" | "6213296" | "6227339" |					
		"6230887" | "6244485" | "6244486" |					
		"6289554" | "6301746" | "6305514" |					
		"6318713" | "6328320" | "6343708" |					
		"6343815" | "6347847" | "6357567").PN. OR					
		("6367603" | "6371320" | "6371346" |					
		"6390348" | "6405864" | "6408996" |					
		"6415924" | "6435389" | "6443274" |					
		"6446988" | "6460668" | "6471019" |					
		"6474665" | "6478463" | "6484362" |					
		"6502882" | "6505843" | "6520514" |					
		"6527309" | "6530507" | "6533138" |					
		"6550651" | "6561327" | "6561402" |					
		"6571998" | "6578708" | "6595334" |					
		"6614337" | "6622856" | "6637562" |					
		"6666363" | "6675965" | "6675967" |					
		"6688614" | "6692011" | "6695142" |					
		"6698609" | "6722524" | "6736265" |					
		"6739150" | "6742684" | "6755302" |					
		"6755448" | "6758534" | "6761366" |					
		"6789670" | "6820878" | "6840359" |					
		"6860059" | "6910560" | "6915902" |					
		"6923352" | "6926129" | "6938740" |					
		"6938741" | "6948724" | "6955381" |					
		"6976566" | "6978890" | "7004481" |					
		"7008031" | "7021637" | "7036641" |					
		"7048133" | "7066311" | "7073694" |					
		"7104555" | "7108131" | "7111853" |					
		"7117991" | "7121407" | "7144020" |					
		"7147089" | "7158376" | "7168713" |					
		"7201243" | "7225923" | "7228983" |					
		"7237673" | "7237688" | "7240909" |					
		"7246704" | "7270223" | "7296808" |					
		"7316309" | "7318542" | "7322470" |					
		"7322583" | "7326428" | "7331454" |					
		"7334680" | "7357250" | "7357268" |					
		"7367451" | "7370891" | "7374183" |					
		"7387304" | "7387305" | "7387350" |					
		"7389997" | "7401698" | "7401700" |					
		"7416066" | "7418846" | "7438084" |					
		"7438308" | "7458601" | "7461730" |					
		"7467695" | "7478711" | "7500547" |					
		"7503439" | "7503440" | "7503569" |					
		"7516502" | "7540364" | "7552560" |					
		"7552950" | "7571915" | "7581736" |					
		"7591627" | "7594569" | "7597341" |					
		"7600618" | "7600640").PN. OR ("7631380" |					
		"7661530" | "7661683" | "7780051" |					
		"7823991" | "7837053" | "7837206" |					
		"7845653" | "7850020" | "7854321" |					
		"7874328" | "7883096" | "7938412" |					
		"7946609" | "7984820" | "7997591" |					
		"8037983" | "8056919" | "8056943" |					

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		"8061536" | "8087513" | "8123007" | "8123068" | "8132289" | "8132819" | "8152037" | "8191910" | "8210387" | "8256591" | "8262106" | "8267230" | "8267245" | "8267247" | "8272628" | "8282113" | "8327576" | "8328247" | "8328530" | "8342543" | "8365886" | "8376177" | "8434617" | "8439174" | "8469195" | "8505729" | "8517155" | "8517400" | "8534434" | "8567796" | "8657307" | "8662268" | "8695770" | "8708351" | "8752683" | "8844689" | "8851282" | "8869960" | "8888111" | "8919896" | "8936140" | "8936258" | "8960959" | "8979073" | "8979100" | "9060577" | "9066565" | "9067614" | "9095193" | "9260129" | "9295313" | "D258705" | "D259154" | "D272203" | "D309981" | "D316485" | "D326815" | "D333215" | "D333487" | "D347731" | "D355849" | "D368159" | "D370619" | "D374772" | "D375834" | "D377118" | "D378247" | "D385110" | "D386903" | "D390358" | "D402106" | "D405956" | "D414038" | "D418977" | "D437684" | "D447340" | "D447630" | "D448162" | "D449442" | "D449738" | "D451275" | "D452071" | "D453624" | "D455263" | "D459073" | "D462168" | "D465923" | "D467070" | "D470659" | "D471360" | "D472385" | "D472774" | "D480867" | "D505548" | "D509656" | "D516310" | "D516808" | "D516812" | "D520746" | "D563669" | "D572479" | "D572480" | "D588811" | "D589703" | "D599112" | "D600015").PN. OR ("D600912" | "D601797" | "D605403" | "D608094" | "D609911" | "D609913" | "D616200" | "D618911" | "D621153" | "D621610" | "D624317" | "D625515" | "D625915" | "D627968" | "D629607" | "D630435" | "D630851" | "D635769" | "D636996" | "D637812" | "D639554" | "D641552" | "D647301" | "D648532" | "D648533" | "D649350" | "D649783" | "D661858" | "D661903" | "D664354" | "D668867" | "D668868" | "D668869" | "D670500" | "D672555" | "D673774" | "D701696" | "D744750" | "D750890").PN. OR ("9616562").URPN.				
S144	325	B65D21/0212.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:09
S145	27	("4212415" | "4664283" | "4823955" | "4896926" | "5246105").PN. OR ("5544751").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:11
S146	44	("1699130" | "2072672" | "2551814" | "2633285" | "2736487" | "3010638" | "3361322" | "3623650" | "3632037" | "3713579" | "3905478" | "3905541" | "3921896" | "4002261" | "4023617" | "4187977" | "4230233" | "4245773" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:12

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		"4251006" | "4277015" | "4291830" | "4389013" | "4482074" | "4643314" | "4685610" | "4762270" | "4763833" | "4828894" | "4884739" | "4911356" | "4948039" | "4993623" | "5038998" | "5116290" | "5190213").PN. OR ("5429260").URPN.				
S147	0	("1140005").URPN.	USPAT	OR	OFF	2018/04/06 19:30
S148	119	("1267650" | "1999162" | "3163268" | "3379482" | "3419184" | "3425471" | "3498689" | "3642168" | "3700137" | "3979016" | "3987829" | "4161261" | "4293073" | "4303158" | "4523692" | "4664347" | "4799503" | "4804092" | "4819795" | "4915913" | "4982863" | "4984687" | "5011013" | "5024471" | "5040834" | "5042674" | "5065885" | "5065887" | "5080250" | "5103994" | "5117979" | "5123564" | "5176281" | "5186330" | "5190152" | "5193706" | "5244265" | "5319937" | "D237135" | "D237611" | "D238148" | "D239695" | "D246872" | "D248280" | "D257934" | "D258721" | "D277797" | "D286937" | "D292711" | "D302774" | "D312573" | "D316516" | "D319016" | "D321090" | "D321091" | "D322164" | "D325323" | "D325324" | "D326775" | "D326815" | "D327646" | "D328425" | "D328818" | "D328819" | "D329331" | "D329747" | "D330161" | "D330162" | "D330329" | "D331317" | "D335960" | "D336366" | "D339471" | "D342364").PN. OR ("5564805").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 20:05
S149	62	("0198092" | "0564782" | "1063046" | "1268124" | "1740470" | "1987822" | "2011197" | "2094805" | "2122969" | "2504722" | "2759507" | "2786500" | "2791251" | "2799306" | "3018355" | "3615087" | "3746210" | "3851756" | "4061323" | "4239195" | "4256294" | "4278243" | "4303158" | "4378828" | "4460085" | "4909491" | "4911296" | "5011013" | "5117979" | "5193706" | "D253212" | "D263533" | "D288867").PN. OR ("5595228").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:03
S150	15	("2587829" | "2610761" | "2740517" | "4252239" | "4733703" | "5329929" | "5595228").PN. OR ("6206063").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:04
S151	6	("4466659" | "4967944" | "5207470" | "6193118" | "6554169" | "7000810").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38
S152	96	("1032326" | "1503894" | "1926162" | "2612200" | "2629644" | "2724595" | "2735597" | "2754079" | "2979190" | "3229946" | "3640423" | "3642168" | "3664704" | "3727971" | "3759416" | "3791547" | "3854621" | "3940009" | "3987829" | "4190281" | "4213539" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38

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		"4215896" | "4288011" | "4403786" | "4458570" | "4488669" | "4499998" | "4522326" | "4531774" | "4580827" | "4593816" | "4623071" | "4674665" | "D259413" | "D285673").PN. OR ("4967944").URPN.				
S153	25	("2967080" | "2987358" | "4844305" | "4967944" | "5419476" | "5667115").PN. OR ("5988473").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:40
S154	10	("2987358").URPN.	USPAT	OR	OFF	2018/04/07 00:41
S155	4	("2009/0315285").URPN.	USPAT	OR	OFF	2018/04/07 00:46
S156	223	("5072918" | "5390943" | "5871219" | "6739605" | "0875476" | "6086073" | "4743040" | "6109628" | "1427388" | "20040129658" | "20050023786" | "20050057011" | "20060232033" | "20060237091" | "3472392" | "3999775" | "4699270" | "4786122" | "5072955" | "5743607" | "5876047" | "6123346" | "6545863" | "7232136" | "D396023" | "6497423" | "D153654" | "2155769" | "3313498" | "3870177" | "4391422" | "4763799" | "4923202" | "4998023" | "5509671" | "5915646" | "6073919" | "6095156" | "6170839" | "6264216" | "D188099" | "D460235" | "D461941" | "D469235" | "5921566" | "D415867" | "20030047895" | "20030218308" | "5183372" | "5275349" | "5465988" | "5913528" | "6276471" | "6752281" | "7114733" | "7134673" | "7144020" | "4743040" | "3379431" | "4457527" | "5316232" | "5566961" | "6572123" | "D153654" | "D415867" | "6497423" | "D485037" | "20060066064" | "3698735" | "3908749" | "4895068" | "6138558" | "6251113" | "6267080" | "6471010" | "6497424" | "7207449" | "4901937" | "5308012" | "6270094" | "D463646" | "D474570" | "D485410" | "5921566" | "D273242" | "D474570" | "1149639" | "2413164" | "2575661" | "2819908" | "20050001395" | "20060006621" | "20060157944" | "4099735" | "4688860" | "5048857" | "5224531" | "5452908" | "7017603" | "7156475" | "7204374" | "7296808" | "5887878" | "1126544" | "2705114" | "20050280228" | "20050284697" | "5285981" | "6116533" | "D302064" | "D361187" | "D381168" | "D424321" | "D487604" | "D504000" | "D469235" | "1200008" | "1471446" | "1562089" | "2623642" | "2845780" | "20010045718" | "20020084607" | "20020096844" | "20060076306" | "3965969" | "4138504" | "4165088" | "4373761" | "4880248" | "6539831" | "7044569" | "5154544" | "20040065989" | "20040227315" | "3212645" | "4179080" | "4759560" | "5188308" | "5362078" | "5495951" | "5687928" | "5839739" | "5971512" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:50

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		"6497423" | "6669214" | "D336183" | "D471687" | "6086073" | "D302064" | "D336183" | "20020060438" | "20040056439" | "20060208440" | "4518208" | "4832355" | "5221132" | "5375860" | "5873585" | "6022088" | "6101831" | "6206385" | "D140635" | "4380293" | "6109437" | "3610431" | "4743040" | "5269545" | "5848798" | "6241181" | "6315376" | "D391032" | "D395108" | "D403826" | "D468881" | "D471688" | "D485037" | "20030122331" | "4923202" | "1487856" | "20030107195" | "3606445" | "3873114" | "5011240" | "5634649" | "5716116" | "5941229" | "6578938" | "6783563" | "6910710" | "D469235" | "4815394" | "1660521" | "3759538" | "4564152" | "4585130" | "5016948" | "5123666" | "5595395" | "6102497" | "6109628" | "6322061" | "6615973" | "D361188" | "D153654" | "1649065" | "20020064478" | "20030121874" | "20050127627" | "3722700" | "4019793" | "5282678" | "6857644" | "D147135").PN.				
S157	18	("1193809" | "1268124" | "1521310" | "3696850" | "4724976" | "4756394" | "4787488" | "5209279" | "5219423" | "5314046" | "5971119" | "0622263" | "0695149").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:56
S158	31	("0783059" | "2878928" | "3245528" | "3319685" | "3386607" | "3605374" | "3835992" | "3992810" | "4320846" | "4627595" | "4799590" | "4890741" | "5135823" | "5370255").PN. OR ("5676274").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:50
S159	26	("1101357" | "1149266" | "1862868" | "2702116" | "3145871" | "4154362" | "4503955" | "4705316" | "4896926" | "4998616").PN. OR ("5415255").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:53
S160	37	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" | "5060851" | "5117979").PN. OR ("5325966").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:55
S161	6	("3412888" | "4204609" | "5409126" | "5499715" | "5769229").PN. OR ("6467681").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 17:17
S162	173	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:25

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		20080104921-$ or US-20160153200-$ or US-20080134613-$ or US-20080134607-$ or US-20070193178-$ or US-20170266804-$ or US-20140075650-$ or US-20090145866-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160023349-$ or US-20140166516-$ or US-20120326406-$ or US-20110121695-$ or US-20070194543-$ or US-20070170671-$ or US-20110049824-$ or US-20130056378-$ or US-20120312812-$ or US-20120187013-$ or US-20120080432-$ or US-20120061930-$ or US-20050280228-$).did. or (US-20060027475-$ or US-20050155889-$ or US-20160168880-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$ or US-7451578-$ or US-6122879-$ or US-3526420-$ or US-2740167-$ or US-9803375-$ or US-9663940-$ or US-7841144-$ or US-9616562-$ or US-5544751-$ or US-5429260-$ or US-7946609-$ or US-6578708-$ or US-6176559-$ or US-5927837-$ or US-5564805-$ or US-5595228-$ or US-6206063-$ or US-7000810-$ or US-4967944-$ or US-5988473-$).did. or (US-6641013-$ or US-2987358-$ or US-4576423-$ or US-4756394-$ or US-4896926-$ or US-5325966-$ or US-5697500-$ or US-6467681-$).did. or (US-3117692-$ or US-2593998-$).did.				
S163	3	(("20170166352") or ("20110139665") or ("5628443")).PN.	US-PGPUB;	OR	OFF	2018/04/09 01:26

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			USPAT; USOCR			
S164	28	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2018/04/09 01:36
S165	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S166	27	S164 not S165	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S167	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/21 18:13
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S169	5	(("20160144500") or ("0784114") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:16
S170	4	(("20160144500") or ("7841144") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17
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		"7584583" | "7614197").PN. OR ("7841144").URPN.				
S172	969	Y10S292/38,53.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:25
S173	35	E04F2201/013.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:25
S174	1351	E04F2201/0146,023,05.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:26
S175	514	B25H3/02.cpc.	USPAT	OR	OFF	2018/11/21 18:45
S176	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S177	165	B25H3/021.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S178	0	("2018/0213934").URPN.	USPAT	OR	OFF	2018/11/21 18:46
S179	369	A47B88/90.cpc.	USPAT	OR	OFF	2018/11/21 18:46
S180	81	A47B2210/19.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:47
S181	29	("2614016" | "2676080" | "3001564" | "3079037" | "3974898" | "4040538" | "4119204" | "4239309" | "4287997" | "4293072" | "4865404" | "5190156").PN. OR ("5407074").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:50
S182	27	("0224486" | "1472676" | "2975930" | "3159436" | "3424334" | "3506321" | "3584738" | "3737031" | "4155452").PN. OR ("4293072").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:51
S183	48	("3506321").URPN.	USPAT	OR	OFF	2018/11/21 18:54
S184	46	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:56
S185	520	B65D21/0204.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:01
S186	868	A47B87/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S187	2232	312/107,111.ccls.	US-PGPUB; USPAT;	OR	OFF	2018/11/21 19:02

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			USOCR			
S188	703	A47B88/90.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:15
S189	50	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:23
S190	34	("0455883" | "0484121" | "0918297" | "20060175945" | "20100052276" | "20110279956" | "20120086319" | "20130134850" | "2341434" | "2431830" | "2441728" | "3058320" | "3135570" | "3326203" | "3712697" | "4590709" | "5011240" | "5026130" | "5048902" | "5145245" | "5673984" | "6068356" | "6164738" | "8201900" | "D322875").PN. OR ("9872562").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:24
S191	45	("1223455" | "2123803" | "2704699" | "3272581" | "3316045" | "3796474" | "4155611" | "4505526" | "4577773" | "4848588" | "5205595" | "5246105" | "5299688" | "5344226" | "5358321" | "5426885").PN. OR ("5603559").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:27
S192	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" | "3758181").PN. OR ("5246105").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:28
S193	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269" | "6082539" | "6371320" | "6874634" | "6889838" | "7387350" | "7516842").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:02
S194	75	("0440957" | "1933637" | "2511949" | "2789828" | "2981549" | "3055723" | "3349924" | "3379482" | "3891230" | "3905662").PN. OR ("4118048").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:03
S195	45	("0273398" | "0325555" | "0825642" | "0953715" | "0953815" | "1143711" | "1365098" | "1495046" | "1611034" | "2055657" | "2565969" | "2714433" | "3828899" | "3891230" | "3974898" | "3987875" | "4066155" | "4118048" | "4139084" | "4202586" | "4389078" | "4693345").PN. OR ("4813521").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:04
S196	29	("2472491" | "2925283" | "3057636").PN. OR ("3891230").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05
S197	143	("0344661" | "0687619" | "1424819" | "20010052681" | "20020014488" | "20020067027" | "20020074905" | "20020113386" | "20020185831" | "20030001348" | "20030146589" | "20040265104" | "20050062244" | "20050104308" | "20050258610" | "20050275178" | "20060006619" | "20060012139" | "20060038367" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05

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		"20070080512" | "20070194543" | "20070273114" | "20080084036" | "20080121547" | "20080128305" | "20080143069" | "20090020528" | "20090026901" | "20090096181" | "20090309323" | "20100052276" | "20100290877" | "20100327562" | "20110049824" | "20110181008" | "20120160886" | "20120326406" | "20140001719" | "20140023221" | "20140375181" | "2554091" | "2588830" | "2901262" | "2964328" | "3168329" | "3393951" | "3734526" | "3804432" | "3891230" | "3990653" | "4169607" | "4363496" | "4448434" | "4619363" | "4884689" | "4936594" | "4984704" | "5104135" | "5123666" | "5207723" | "5333885" | "5362078" | "5378005" | "5464104" | "5474312" | "5595395" | "5626352" | "5634649" | "5720535" | "5799958" | "5845915" | "5906381" | "5913527" | "5931483" | "5934466" | "5938396" | "6000713" | "6050660" | "6079719" | "6082539" | "6109627" | "6113129" | "6123344" | "6131926" | "6135466" | "6176559" | "6254112" | "6347847" | "6357063" | "6371320" | "6394471" | "6398235" | "6474930" | "6561528" | "6601930" | "6616152" | "6659476" | "6666465" | "6874634" | "6889838" | "6945546" | "7063339" | "7066475" | "7108131" | "7168715" | "7188846" | "7188847" | "7210689" | "7263742" | "7328905" | "7367571" | "7500681").PN. OR ("7503569" | "7686260" | "7703776" | "7819407" | "7823893" | "7845653" | "7883096" | "7905502" | "7938412" | "8132819" | "8226092" | "8567796" | "8657307" | "8668209" | "9132543" | "D437484" | "D542496" | "D640869" | "D653832" | "D654241").PN. OR ("9566990").URPN.				
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S199	37	("5013055" | "5207723" | "5378005").PN. OR ("5799958").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:08
S201	2395	280/47.26,47.28,652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:09
S202	1975	280/47.26,47.28.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S203	518	280/652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10

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S204	1	"15826201"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 00:33
S205	12	(US-0271616-$ | US-0320243-$ | US-1276744-$ | US-1477050-$ | US-15826201-$ | US-20080308369-$ | US-3616562-$ | US-3875888-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:39
S206	2	(("8875888") or ("9616562") or ("20080308369")).PN.	USPAT; USOCR	OR	OFF	2018/11/22 03:40
S207	3	(("8875888") or ("9616562") or ("20080308369")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:40
S208	64	("20020113387" | "20070194543" | "20080079227" | "20080084036" | "20110049824" | "3522955" | "4118048" | "4119044" | "4281843" | "5176281" | "5193706" | "5244265" | "5378005" | "5634649" | "5641170" | "5680932" | "5799958" | "5906381" | "5938396" | "5950828" | "6131926" | "6170839" | "6176559" | "6264220" | "6347847" | "6371320" | "6601930" | "6761366" | "6817623" | "7367571" | "7467801" | "7503569" | "7628406" | "7845653" | "7883096" | "7938412" | "D404916" | "D437484" | "D462168" | "D462170").PN. OR ("8132819").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:37
S209	269	("20020014507" | "20020043534" | "20020074332" | "20020125160" | "20030075468" | "20040112777" | "20050109650" | "20060017293" | "20060124505" | "20060144732" | "20060201834" | "20070137960" | "20070194543" | "20070241113" | "20080017537" | "20080035508" | "20080035510" | "20080067206" | "20080152944" | "20080164842" | "20080169739" | "20080230416" | "20090080809" | "20090211932" | "20090236810" | "20090250365" | "20100012538" | "20100012655" | "20100033325" | "20100224527" | "20100258465" | "20110084075" | "20110094910" | "20110132046" | "20110174648" | "20110268374" | "20120018330" | "20120152944" | "20120206907" | "20120257379" | "20120267374" | "20120292213" | "20120312708" | "20120317933" | "20120318792" | "20120326406" | "20120326669" | "20130007979" | "20130186795" | "20140102928" | "2125856" | "2145143" | "2799306" | "2883184" | "3177023" | "3259411" | "3394955" | "3817419" | "3851756" | "3924844" | "4105112" | "4278187" | "4353182" | "4890414" | "5042193" | "5165148" | "5295742" | "5379887" | "5386907" | "5429287" | "5470000" | "5501379" | "5518139" | "5562208" | "5580137" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:39

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		"5595228" | "5620212" | "5660276" | "5672145" | "5732987" | "5755311" | "5762411" | "5915553" | "5915554" | "5924533" | "6006906" | "6015064" | "6038747" | "6073766" | "6081695" | "6082538" | "6167680" | "6176559" | "6203075" | "6206063" | "6213296" | "6230887" | "6244485" | "6244486" | "6343708" | "6343815" | "6347847" | "6371320" | "6405864" | "6415924" | "6478463" | "6502882" | "6527309").PN. OR ("6533138" | "6561402" | "6614337" | "6622856" | "6675965" | "6675967" | "6695142" | "6698609" | "6722524" | "6755302" | "6755448" | "6761366" | "6789670" | "6860059" | "6915902" | "6955381" | "6978890" | "7008031" | "7021637" | "7048133" | "7108131" | "7121407" | "7158376" | "7225923" | "7228983" | "7237673" | "7237688" | "7246704" | "7316309" | "7322470" | "7326428" | "7334680" | "7357250" | "7357268" | "7367451" | "7370891" | "7401698" | "7401700" | "7418846" | "7540364" | "7552560" | "7552950" | "7600640" | "7661530" | "7837053" | "7845653" | "7854321" | "7874328" | "7883096" | "7938412" | "7984820" | "8056943" | "8061536" | "8132819" | "8152037" | "8191910" | "8210387" | "8267245" | "8267247" | "8272628" | "8327576" | "8328247" | "8376177" | "8434617" | "8469195" | "8505729" | "8657307" | "D259154" | "D272203" | "D309981" | "D326815" | "D333215" | "D333487" | "D347731" | "D355849" | "D368159" | "D370619" | "D374772" | "D375834" | "D377118" | "D378247" | "D385110" | "D386903" | "D390358" | "D402106" | "D405956" | "D414038" | "D418977" | "D437684" | "D447340" | "D447630" | "D448162" | "D449442" | "D449738" | "D451275" | "D452071" | "D453624" | "D455263" | "D459073" | "D462168" | "D465923" | "D467070" | "D470659" | "D471360" | "D472774" | "D480867" | "D505548" | "D509656" | "D516310" | "D516808" | "D516812" | "D520746" | "D563669" | "D572479" | "D572480" | "D588811" | "D589703" | "D599112" | "D600015" | "D600912" | "D601797" | "D605403" | "D608094" | "D609911" | "D609913").PN. OR ("D616200" | "D618911" | "D624317" | "D627968" | "D629607" | "D630435" | "D630851" | "D635769" | "D636996" | "D637812" | "D639554" | "D641552" | "D647301" | "D648532" | "D648533" | "D649350" | "D649783" | "D661858" | "D661903" | "D664354" | "D668867" | "D668868" | "D668869" | "D670500" | "D672555" | "D673774" | "D701696" | "D744750" | "D750890").PN. OR ("9539722").URPN.				
S210	15	("2007/0194543").URPN.	USPAT	OR	OFF	2018/11/22

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						19:40
S211	56	("1478913" | "20010035704" | "20050159784" | "20050269792" | "20060006621" | "20060144732" | "20070194543" | "20070235959" | "20080128305" | "20090301913" | "20100289236" | "20100295430" | "20110127736" | "20120292870" | "20130118818" | "3861703" | "3874531" | "4435115" | "4726602" | "4822116" | "4846485" | "4858940" | "4976450" | "4993551" | "5174447" | "5378005" | "5452908" | "5573089" | "5743607" | "5799958" | "5893572" | "6027128" | "6170839" | "6439585" | "6446987" | "6702168" | "6935641" | "6945546" | "7044569" | "7083174" | "7314134" | "7328905" | "7431313" | "7434819" | "7503569" | "7661685" | "7905502" | "8226092" | "8376376" | "8668209" | "D182716").PN. OR ("8915504").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:40
S212	2	("2012/0292870").URPN.	USPAT	OR	OFF	2018/11/22 19:41
S213	52	("6264083" | "6666362" | "7204374" | "20120247044" | "4249684" | "6264220" | "6935641" | "7048320" | "7165702" | "20040194333" | "20040251227" | "20070210021" | "20100300996" | "20120199708" | "4944416" | "7487981" | "6615973" | "6786374" | "20070137532" | "5628534" | "7017254" | "6932406" | "20040051016" | "20050006539" | "20080296245" | "7740329" | "20060021985" | "5913380" | "6736265" | "20020100396" | "20120131872" | "3610429" | "6629654" | "4535897" | "6581920" | "20110107704" | "0332360" | "5406894" | "6474245" | "20050269792" | "5582269" | "20070012636" | "5687856" | "5899544" | "6247720" | "6814362" | "20040222176" | "20110168651" | "4630739" | "4961295" | "5730414").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:46
S214	39	("2320387" | "3052484" | "3179270" | "3734526" | "4281843" | "4363496" | "4790549" | "5464104" | "5465987" | "5474312" | "5595395" | "5671933").PN. OR ("6131926").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 23:52
S215	1	"12736715"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:36
S216	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/23 01:36
S217	20	("2807387" | "20060220503" | "3219400" | "3424334" | "4293072" | "4643494" | "4782619" | "4996628" | "5184726" | "5246105" | "5427394" | "5544751" | "5699925" | "5901998" | "5924778" | "6367631" | "6983946").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:37
S218	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" |	US-PGPUB; USPAT;	OR	OFF	2018/11/23 01:38

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		"3758181").PN. OR ("5246105").URPN.	USOCR			
S219	13	("3379482").URPN.	USPAT	OR	OFF	2018/11/23 02:28
S220	0	("2012/0152800").URPN.	USPAT	OR	OFF	2018/11/23 02:30
S221	12	("20080060964" | "3568879" | "4592601" | "4685565" | "20060071581" | "4258847" | "4863222" | "2858957" | "7311202" | "3346137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:30
S222	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S223	140	S222 and (snap)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S224	67	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20150274362-$ or US-20110073516-$ or US-20090193748-$ or US-20080134607-$ or US-20080104921-$ or US-20180313094-$ or US-20180213934-$ or US-20150102717-$ or US-20180161975-$ or US-20140305829-$).did. or (US-20120312812-$ or US-20180290288-$ or US-20180162592-$ or US-20170239808-$ or US-20170121056-$ or US-20130127129-$ or US-20060038367-$ or US-20160114822-$ or US-20080308369-$ or US-20080169739-$ or US-20120292870-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$ or US-5429260-$ or US-7841144-$ or US-5407074-$ or US-4293072-$ or US-3506321-$ or US-3974898-$ or US-6109707-$ or US-4423687-$ or US-9872562-$ or US-6547347-$ or US-4619363-$ or US-4118048-$ or US-3891230-$ or US-9566990-$).did. or (US-5799958-$ or US-9616562-$ or US-5184726-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:36
S225	3	("20080308369" | "8875888" | "9616562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
S226	28	(US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20110139665-	US-PGPUB; USPAT	OR	OFF	2018/11/23 14:37

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		$).did. or (US-9506489-$ or US-9132543-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5628443-$ or US-5595228-$ or US-3117692-$).did.				
S227	37	S224 not (S225 S226)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
S228	1	"20170174392".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:54
S229	14	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-20080169739-$ or US-20080134607-$ or US-20080104921-$ or US-20060038367-$).did. or (US-9872562-$ or US-9566990-$ or US-7841144-$ or US-6547347-$ or US-5429260-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 21:07
S230	6	(("20120228074") or ("20120152800") or ("20170318927") or ("20110220531") or ("20110073516") or ("7841144")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:31
S231	5	("20040163913" | "20050199459" | "20100147642" | "20120228074" | "20120312812").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:33
S232	14	("1299291" | "1643397" | "2706036" | "3811562" | "4020930" | "4790417" | "5671830" | "0758019" | "D135357").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:35
S233	325	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:40
S234	0	("2018/0161975").URPN.	USPAT	OR	OFF	2019/02/20 19:42
S235	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:57
S236	16	("20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "20170174392" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S237	14	("20050139745" | "20080277221" | "20090145790" | "20100147642" | "20110073516" | "20110181008" | "20130121783" | "20170318927" | "20180044059" | "20190002004" | "5608603" | "6637707" | "8177463" | "9701443").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S238	33	S235 S236 S237	US-PGPUB;	OR	OFF	2019/02/20 19:58

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			USPAT; USOCR			
S239	932	A45C5/14.cpc.	USPAT	OR	OFF	2019/02/20 20:01
S240	28	B65D21/00.cpc.	USPAT	OR	OFF	2019/02/20 20:01
S241	8	(US-20080134607-$ or US-20080104921-$ or US-20060038367-$ or US-20120228074-$).did. or (US-9872562-$ or US-7841144-$ or US-6547347-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:58
S242	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:59
S243	1	S241 not S242	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:59
S244	8	(US-20080134607-$ or US-20080104921-$ or US-20060038367-$ or US-20120228074-$).did. or (US-9872562-$ or US-7841144-$ or US-6547347-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S245	26	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-20080169739-$ or US-20170318927-$ or US-20120152800-$ or US-20110220531-$ or US-20110073516-$ or US-20070012694-$ or US-20190039781-$ or US-20190002004-$ or US-20060006770-$ or US-20170166352-$).did. or (US-9566990-$ or US-5429260-$ or US-5890613-$ or US-5099968-$ or US-4693345-$ or US-3319744-$ or US-9108764-$ or US-9701443-$ or US-3974898-$ or US-3506321-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S246	19	S245 not S242	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S247	1	"20170166352".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:25
S248	1	"20180161975"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:28
S278	0	"20011012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:51
S279	0	"2001012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:51
S280	0	"20011012717".pn.	US-PGPUB;	OR	OFF	2019/02/21 19:52

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			USPAT; USOCR			
S281	0	(("20011012717") or ("20080257905")).PN.	USPAT; USOCR	OR	OFF	2019/02/21 19:52
S282	1	(("20011012717") or ("20080257905")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:52
S283	2	(("20110012717") or ("20080257905")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:52
S284	1	"20110012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:53
S285	5359	"20110602".pd.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:54
S286	32	"20110602".pd. and chan.inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:54
S287	24	("20030115715" | "20030205877" | "20060186624" | "20080115312" | "20080271280" | "20090071990" | "20100139566" | "20120180250" | "20120207571" | "20130024468" | "20130031731" | "20130031732" | "20160023349" | "20170165828" | "20170257958" | "20180220758" | "2042387" | "5105947" | "7263742" | "8689396" | "9643629" | "D663952" | "D664354").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:31
S288	0	"201200207571".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:37
S289	1	"20120207571".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:37
S290	1	"20090071990".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:38
S291	0	"2011155613".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:46
S292	1	"20110155613".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:46
S293	24	("20030115715" | "20030205877" | "20060186624" | "20080115312" | "20080271280" | "20090071990" | "20100139566" | "20120180250" | "20120207571" | "20130024468" |	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 05:03

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		"20130031731" | "20130031732" | "20160023349" | "20170165828" | "20170257958" | "20180220758" | "2042387" | "5105947" | "7263742" | "8689396" | "9643629" | "D663952" | "D664354").PN.				
S294	1	"20140161518".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/14 19:30
S295	10	(US-15826201-$ | US-20050139745-$ | US-20080277221-$ | US-20090145790-$ | US-20100147642-$ | US-20110181008-$ | US-20130121783-$ | US-20180044059-$ | US-5608603-$ | US-6637707-$ | US-8177463-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/18 17:19
S296	1	("20140161518").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/04 15:29
S297	13	("8714355" | "D525789" | "D630851" | "D674605" | "D701696" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D833744" | "D837515").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:38
S298	46	(US-14125488-$ | US-1428764-$ | US-2970358-$ | US-20140000-$ | US-2047181-$ | US-2346741-$ | US-2805799-$ | US-29708343-$ | US-3141354-$ | US-3510307-$ | US-4168076-$ | US-5035445-$ | US-5301829-$ | US-6109627-$ | US-6347847-$ | US-6367631-$ | US-6431580-$ | US-6601930-$ | US-6945546-$ | US-6948691-$ | US-6983946-$ | US-7044484-$ | US-7066475-$ | US-7147243-$ | US-7658887-$ | US-7780026-$ | US-8028845-$ | US-8454033-$ | US-8985922-$ | US-20020171228-$ | US-20030146589-$ | US-20040103494-$ | US-20040206656-$ | US-20050062244-$ | US-20050104308-$ | US-20080121547-$ | US-20080169739-$ | US-20090145913-$ | US-20100052276-$ | US-20140161518-$ | US-20170138382-$ | US-20190106244-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:41
S299	1	(("5984441") or ("201000224527")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:45
S300	2	(("5984441") or ("20100224527")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:45
S301	1	("20180373126").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:56
S302	0	("2018/0373126").URPN.	USPAT	OR	OFF	2019/08/18 22:56

EAST Search History (Interference)

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L11	2	"Term Removed"	US-PGPUB	OR	OFF	2019/12/22 20:08
L18	2	"Term Removed"	US-PGPUB	OR	OFF	2019/12/22 20:18
S249	139	A45C7/0045.cpc.	USPAT	OR	OFF	2019/02/20 19:41
S250	447	A47B47/00.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
S251	475	A47B67/04.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
S252	542	A47B87/02,007.00276.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
S253	849	B65D21/0024,02,00,0223,0212.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:07
S254	1073	B65D21/0217,0219,0222,0228,023.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:08
S255	348	B65D25/2823,06.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:08
S256	2120	B25H3/021,022,023,04,06.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:08
S257	598	Y10T403/7045.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
S258	522	A47B88/90.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
S259	916	B25H3/02.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
S260	471	B65D21/0204.cpc.	US-PGPUB; USPAT	OR	OFF	2019/02/20 20:09
S261	139	A45C7/0045.cpc.	USPAT	OR	OFF	2019/02/20 20:09
S263	1674	206/508,511,504,302,501.ccls.	USPAT	OR	OFF	2019/02/20 20:10
S264	2380	280/47.18,47.19,47.26,79.2.ccls.	USPAT	OR	OFF	2019/02/20 20:10
S265	554	280/47.28,652.ccls.	USPAT	OR	OFF	2019/02/20 20:11
S266	1372	312/107,111.ccls.	USPAT	OR	OFF	2019/02/20 20:11
S267	0	("9701443").URPN.	USPAT	OR	OFF	2019/02/20 20:49
S268	0	("2019/0039781").URPN.	USPAT	OR	OFF	2019/02/20 20:54
S269	0	("2019/0002004").URPN.	USPAT	OR	OFF	2019/02/20

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

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S270	0	("2009/0103279").URPN.	USPAT	OR	OFF	2019/02/20 21:06
S271	0	("2009/0103279").URPN.	USPAT	OR	OFF	2019/02/20 21:07
S272	1	("2006/0006770").URPN.	USPAT	OR	OFF	2019/02/20 21:07
S273	40	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT	OR	OFF	2019/02/20 21:55
S274	48	("3506321").URPN.	USPAT	OR	OFF	2019/02/20 21:56
S275	46	("2988412" | "3032381" | "3506321" | "3514170" | "3529878").PN. OR ("3642337").URPN.	US-PGPUB; USPAT	OR	OFF	2019/02/20 21:57
S276	24	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	OFF	2019/02/20 22:58
S277	24	"Term Removed" or "Term Removed"	US-PGPUB; USPAT	OR	OFF	2019/02/20 23:00

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2425
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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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(Not for submission under 37 CFR 1.99)

Application Number	15826232
Filing Date	2017-11-29
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	G. R. Weinerth
Attorney Docket Number	55390-501C01US

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	5951037		1999-09-14	Hsieh et al.	
	2	5797617		1998-08-25	Lin	
	3	6176559		2001-01-23	Tiramani et al.	
	4	6371320		2002-04-16	Sagol	
	5	8191910		2012-06-05	Landau et al.	
	6	7367571		2008-05-06	Nichols	
	7	6050660		2000-04-18	Gurley	
/G.R.W/	8	6619772		2003-09-16	Dierbeck	

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/G.R.W/	1	20120160886	A1	2012-06-28	Henny et al.	
	2	20070090616	A1	2007-04-26	Tompkins	
	3	20030184034	A1	2003-10-02	Pfeiffer	
	4	20130223971	A1	2013-08-29	Grace, IV	
	5	20060119060	A1	2006-06-08	Sullivan et al.	
	6	20060006770	A1	2006-01-12	Valentini	
/G.R.W/	7	20070145700	A1	2007-06-28	Ambrose et al.	

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	1	2289671	EP	A2	2011-03-02	Stanley Works Israel		

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/G.R.W/	1	International Search Report for International Application No. PCT/IL2019/050689, dated August 23, 2019 (3 pages).	

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The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2019-11-25
Name/Print	Elissa M. Kingsland	Registration Number	63,259

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Doc code: IDS
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Name/Print	Elissa M. Kingsland	Registration Number	63,259

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Bibliographic Data

Application No: 15/826,232

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /GIDEON R WEINERTH/ (Examiner's Signature) G.R.W (Initials)

Title: UTILITY ASSEMBLY AND COUPLING MECHANISM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/29/2017	206	3736	55390-501C01US
RULE			

APPLICANTS

KETER PLASTIC LTD., Herzeliya, ISRAEL

Milwaukee Electric Tool Corporation, Brookfield, WI, UNITED STATES

INVENTORS

Yaron Brunner Kibbutz Gvat, ISRAEL

Grant T. Squiers Cudahy, WI, UNITED STATES

Christopher S. Hoppe Milwaukee, WI, UNITED STATES

Steven W. Hyma Milwaukee, WI, UNITED STATES

CONTINUING DATA

This application is a CON of PCT/IL2017/050481 04/30/2017

PCT/IL2017/050481 has PRO of 62459076 02/15/2017

PCT/IL2017/050481 has PRO of 62330334 05/02/2016

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Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-01-09
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	15826232	Filing Date	2017-11-29	Docket Number (if applicable)	55390-501C01US	Art Unit	3736
First Named Inventor	Yaron Brunner			Examiner Name	G. R. Weinerth		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☐ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☒ Other Cited Foreign Patent Documents

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 50-0311

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-03-31
Name	Elissa M. Kingsland	Registration Number	63259

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Yaron Brunner et al.	Allowed: January 10, 2020
Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3736
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement, pursuant to 37 C.F.R. § 1.114(c), accompanies the Request for Continued Examination (37 C.F.R. § 1.114) submitted herewith.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted.

Submitted herewith are copies of foreign patents in accordance with 37 C.F.R. § 1.98(a)(2). Further, a machine-generated English translation of the abstract of CN 302371147, and machine-generated English translations of DE402018201520, JPD1395115, and

JPD1503434 are submitted herein. With respect to non-English foreign reference TW I324578, its U.S. equivalent, i.e., U.S. Patent No. 7,779,764, is listed on the attached PTO/SB/08.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: March 31, 2020

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2444
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

CN302371147S

English Abstract:

The product design is conveying pallets. Its purpose is: The product is the use of forklifts and other handling When used for loading cargo handling pallets. Design elements of this design is that the shape of the design. Front view is the best show design elements of the picture. Rear view with the main view of symmetry, after the omission of the view; the left and right views symmetry, omitting the left view; a bottom view and a top view of symmetry, omitting bottom view.

(19)中华人民共和国国家知识产权局

(12)外观设计专利

(10)授权公告号 CN 302371147 S
(45)授权公告日 2013.03.27

(21)申请号 201230529536.4

(22)申请日 2012.11.02

(73)专利权人 京洛株式会社
地址 日本京都府

(72)设计人 吉田攻一郎

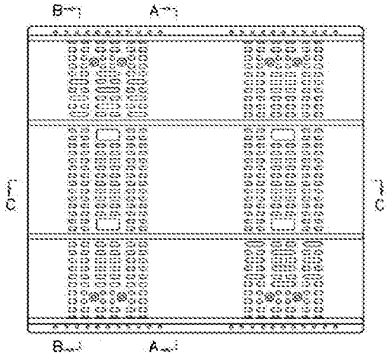
(74)专利代理机构 北京林达刘知识产权代理事务所（普通合伙） 11277
代理人 刘新宇 张会华

(51)LOC(9)CI.
09-08

图片或照片6幅 简要说明1页

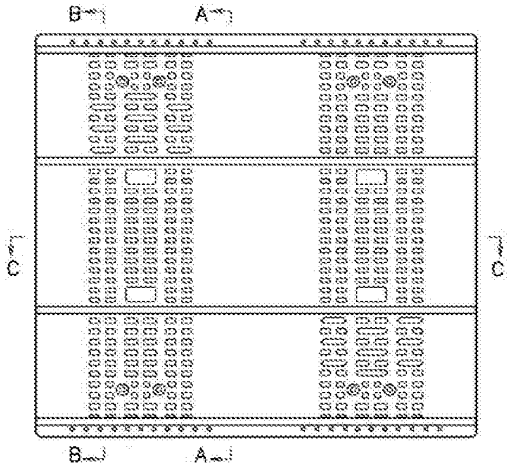
(54)使用外观设计的产品名称

输送用托板



主视图

CN 302371147 S



主视图



A-A 剖视图



右视图



B-B 剖视图



俯视图



C-C 剖视图

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2447
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

本外观设计产品是输送用托板。其用途为：本产品是使用叉车等进行搬运时用于装载货物的搬运用托板。

本外观设计的设计要点在于形状的设计。

主视图是最能表明设计要点的图片。

后视图与主视图对称，省略后视图；左视图与右视图对称，省略左视图；仰视图与俯视图对称，省略仰视图。

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2448
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

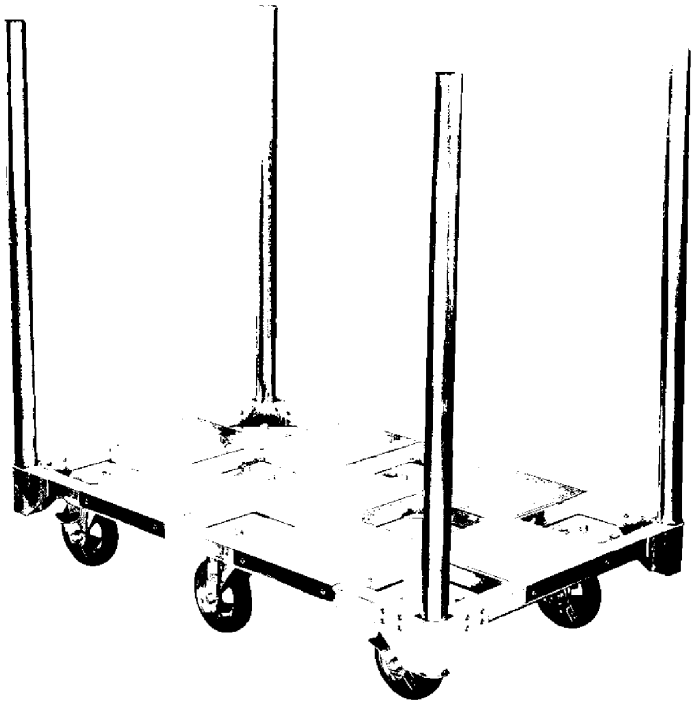
(19)[Publication country/region]
Japan Patent Office (JP)
(45)[Publication date]
Heisei 22(2010) August 16 (2010.8.16)
(12)[Kind of official gazette]
Design Gazette (S)
(11)[Registration number]
D1395115
(24)[Registration date]
Heisei 22(2010) July 16 (2010.7.16)
(54)[Article to the design]
Transport carriage
[Registration number of principal design]
D1372623
[Registration number of the other related design in the group]
D1372945 , D1395117
(52)[Japanese design classification]
G2-500
(51)[International design classification (reference)]
12-01 、 12-02 、 12-08 、 12-11 、 21-03
(21)[Application number]
D2008-11587
(22)[Filing date]
Heisei 20(2008) May 9 (2008.5.9)
(72)[Creator]
[Full name]
Toyoharu Senda
(73)[Owner of a design right]
[Identification number]
597144484
[Name]
G OP, Inc.
(74)[Representative]
[Identification number]
100078695
[Patent attorney]
[Name]
KUBO, Tsukasa

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2449
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

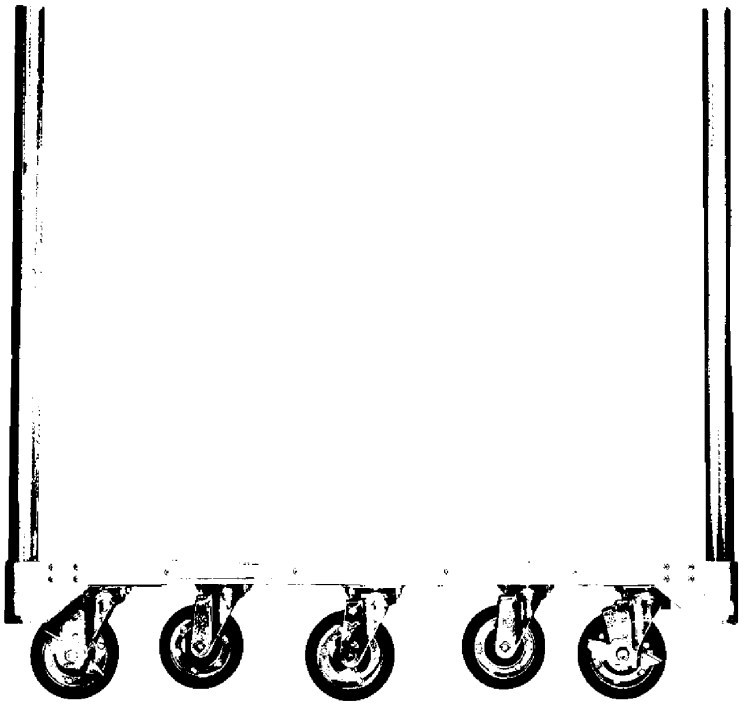
[Examiner]
HONDA, Seiichi
(56)[Reference]
Design registration No. 1372623 Design registration No. 1372945
(55)[Description of article to the design]

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2450
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

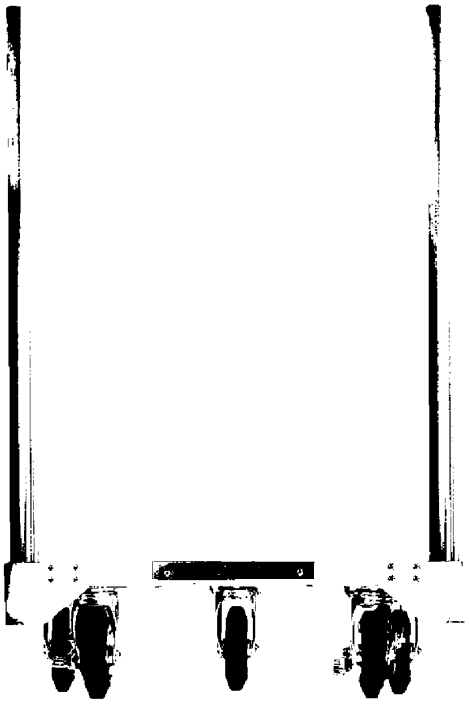
（１９）【発行国・地域】日本国特許庁（ＪＰ）
（４５）【発行日】平成２２年８月１６日（２０１０．８．１６）
（１２）【公報種別】意匠公報（Ｓ）
（１１）【登録番号】意匠登録第１３９５１１５号（Ｄ１３９５１１５）
（２４）【登録日】平成２２年７月１６日（２０１０．７．１６）
（５４）【意匠に係る物品】運搬台車
【本意匠の意匠登録番号】意匠登録第１３７２６２３号（Ｄ１３７２６２３）
【本意匠に係る他の関連意匠の意匠登録番号】意匠登録第１３７２９４５号（Ｄ１３７２９４５）、意匠登録第１３９５１１７号（Ｄ１３９５１１７）
（５２）【意匠分類】Ｇ２－５００
（５１）【国際意匠分類（参考）】１２－０１、１２－０２、１２－０８、１２－１１、２１－０３
（２１）【出願番号】意願２００８－１１５８７（Ｄ２００８－１１５８７）
（２２）【出願日】平成２０年５月９日（２００８．５．９）
（７２）【創作者】
【氏名】千田　豊治
【住所又は居所】東京都渋谷区恵比寿１丁目８番５－７号　ジーオーピー株式会社内
（７３）【意匠権者】
【識別番号】５９７１４４４８４
【氏名又は名称】ジーオーピー株式会社
【住所又は居所】東京都渋谷区恵比寿１－８－５東洋ビル７Ａ
（７４）【代理人】
【識別番号】１０００７８６９５
【弁理士】
【氏名又は名称】久保　司
【審査官】本多　誠一
（５６）【参考文献】意登１３７２６２３　意登１３７２９４５
（５５）【意匠に係る物品の説明】本願意匠に係る物品は荷物を載置して手押し等で運搬する運搬台車に関するもので、フレーム上にベースを取付けた平面長方形の台車本体の長手方向の左右両側にそれぞれ縦列に３輪ずつキャスターを独自の並び方で設け、さらに、その間に２輪を配設し、全部で３列、計８個のものとした。また、台車本体の四隅のコーナー部に手押し棒が挿着される挿入孔を形成し、この挿入孔に手押し棒を着脱自在に立設した。
【図面】
【斜視図】



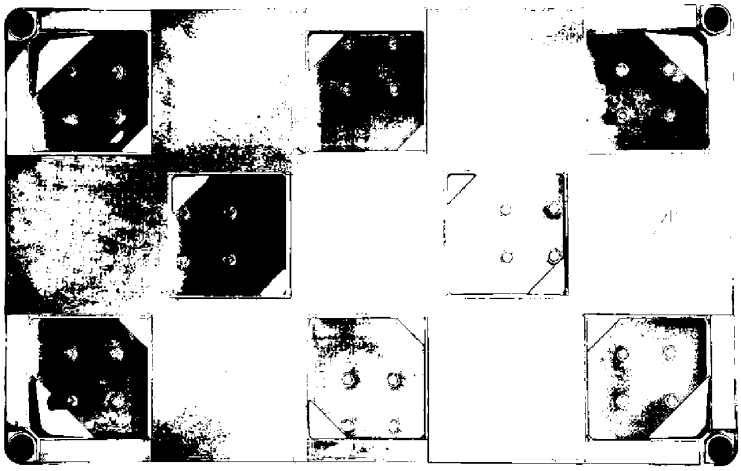
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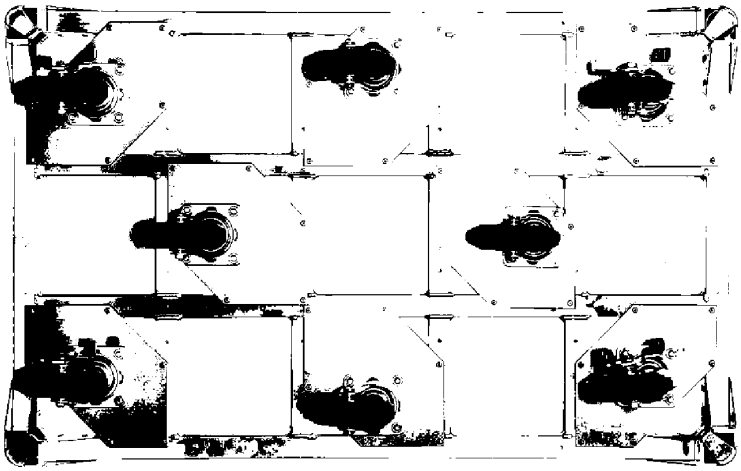
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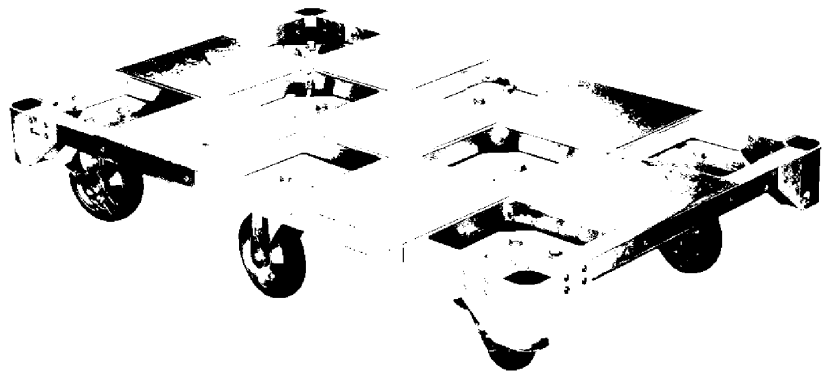
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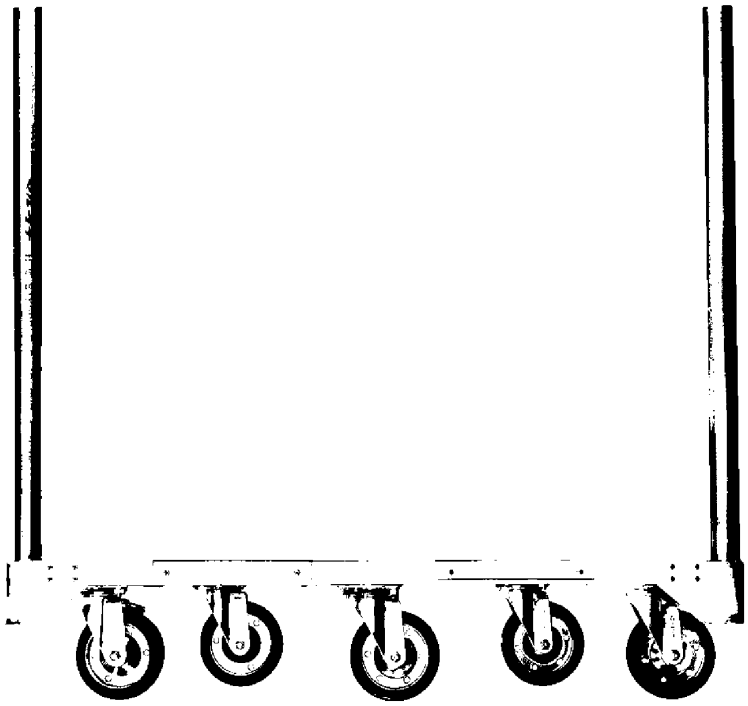
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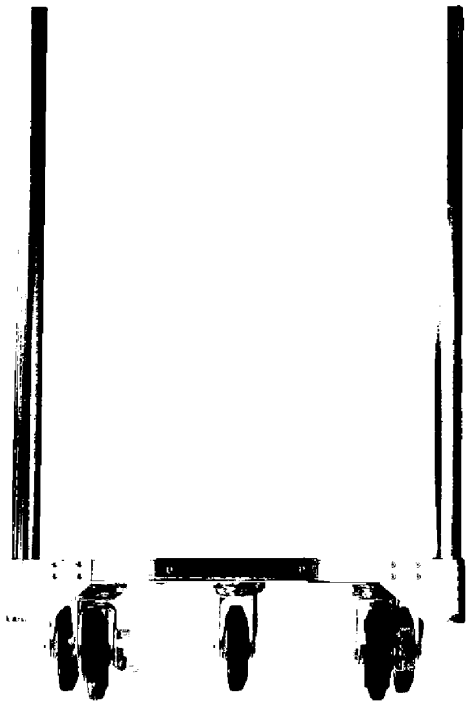
【手押し棒を外した状態の参考図】



【背面図】



【左側面図】



發明專利說明書

公告本

（本說明書格式、順序及粗體字，請勿任意更動，※記號部分請勿填寫）

※ 申請案號：96113014

※ 申請日期：96.4.13　　※IPC 分類：B65D 19/24 (2006.01)

一、發明名稱：（中文/英文）

耐久托板及托板塊

DURABLE PALLET AND PALLET BLOCK

二、申請人：（共 1 人）

姓名或名稱：（中文/英文）

奇普科技私人有限公司 / CHEP TECHNOLOGY PTY LIMITED

代表人：（中文/英文）

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2. 沙拉德　羅伯特 N. / SERRARD, ROBERT NIES

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四、聲明事項：

☐ 主張專利法第二十二條第二項☐第一款或☐第二款規定之事實，其事實發生日期為：。

☑ 申請前已向下列國家（地區）申請專利：

【格式請依：受理國家（地區）、申請日、申請案號　順序註記】

☑ 有主張專利法第二十七條第一項國際優先權：

1. 美國、　2006/05/08、　11/382,148

☐ 無主張專利法第二十七條第一項國際優先權：

☐ 主張專利法第二十九條第一項國內優先權：

【格式請依：申請日、申請案號　順序註記】

☐ 主張專利法第三十條生物材料：

☐ 須寄存生物材料者：

國內生物材料　【格式請依：寄存機構、日期、號碼　順序註記】

國外生物材料　【格式請依：寄存國家、機構、日期、號碼　順序註記】

☐ 不須寄存生物材料者：

所屬技術領域中具有通常知識者易於獲得時，不須寄存。

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九、發明說明：

【發明所屬之技術領域】

發明領域

本發明係有關於用以支持貨物與其他物件之塑膠托板，詳而言之，本發明係有關於可收納一昇降裝置之多件式塑膠托板。

【先前技術】

發明背景

托板係由木頭、塑膠及/或金屬製成之平坦運送結構，且托板可用以穩定地支持多種放置在該托板頂面上之各種貨物。托板使貨物可利用叉式昇降機或其他起重機裝置等昇降裝置來儲存及/或運送。

木質與金屬托板會有許多缺點。例如，木質托板的缺點包括裂開、因不徵菌同水份含量而產生重量變動、及/或由於由水份所產生之徵菌及/或真菌而造成不衛生等問題。金屬托板的缺點包括高製造成本、腐蝕及/或彎曲等問題。雖然塑膠托板具有數個優於木質與金屬托板的好處，但是仍必須增加塑膠托板之耐久性與強度。

【發明內容】

發明概要

本發明之各種方面可克服現有系統之以上與其他缺點之至少某些缺點，且依據本發明之一實施例，一托板包括結合在一起之兩或兩個以上之區段。該托板可包括多數用以結合該托板之底層板及頂層板的托板塊，例如，該托板

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可包括多數位在角隅處、在沿著該托板周緣在該等角隅之間的位置處、在該托板之中心處、或在其他位置處之托板塊。該等托板塊可包括圓化角隅，而圓化角隅的優點包括減少在與昇降裝置叉桿、叉齒、或其他物體撞擊時的破壞；較佳之外觀及/或其他優點。依據本發明之實施例，該托板塊可配置成使該托板具有四向對稱性。

依據本發明之另一實施例，該頂層板可包括向下突出之托板塊，且在該頂層板上之托板塊可包括多數外套筒與凸塊或柱等元件。

依據本發明之實施例，該底層板可包括向上突出之托板塊，且在該底層板上之托板塊可包括多數內套筒、多數柱收納孔及多數徑向肋等元件。依據本發明之另一實施例，該柱收納孔可利用前述多數徑向肋結合該等內套筒，且該等徑向肋具有許多包括增加托板塊之強度與耐久性等優點。

依據本發明之實施例，該柱可插入該柱收納孔且可突穿過靠近該底層板之該柱收納孔一端。例如，該柱可延伸超出一由位在靠近該底層板之該柱收納孔遠端處之徑向肋底部所界定的平面。依據一實施例，在將該柱插入該柱收納孔時，該外套筒嵌套在該內套筒上。依據本發明之另一實施例，該組合完成後之托板塊包括一由該外套筒與該內套筒所形成之雙層塊壁厚度。依據本發明之另一實施例，該等徑向肋係構成為可結合該內套筒與該柱，藉此利用提供撞擊傳遞等優點來增加該組合完成後之托板塊的強度。

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依據本發明之另一實施例，該頂層板與該底層板可利用一熱熔(heat staking)組合法結合在一起，而該熱熔組合法包括利用熱與壓力來改造該柱之尖端部。依據本發明之實施例，在該柱插入該柱收納孔並突穿過該柱收納孔且延伸超出一由靠近該底層板之該等徑向肋底部所界定之平面後，對該柱加熱與加壓以產生一透過該等托板塊將該頂層板與該底層板機械式鎖合在一起之變形柱。依據本發明之另一實施例，可以利用其他固結機構機械式地固結該柱與該柱收納孔。

本發明具有多數優於且避免習知系統之許多缺點的好處，且本發明之前述與其他目的、特徵與優點可由實施例之詳細說明及添附圖式了解。在此亦應了解的是前述一般性說明與以下詳細說明是舉例而不會限制本發明之範圍。本發明之許多其他目的、特徵與優點可在配合添附圖式閱讀以下詳細說明後了解，且以下係添附圖式之簡單說明。

圖式簡單說明

在此添附之圖式係欲顯示本發明之實施例，且圖式不是要將本發明限制於在此所示與所述之實施例。

第1圖顯示一本發明實施例組合完成後之托板的俯視立體圖；

第2圖顯示一本發明實施例之第1圖頂層板的仰視立體圖；

第3圖顯示一本發明實施例頂層板之托板塊一部份的分解圖；

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第4圖顯示一本發明實施例之第1圖底層板的仰視立體圖；

第5圖顯示一本發明實施例底層板之托板塊一部份的分解圖；

第6圖顯示一本發明實施例組合完成後之托板的仰視立體圖；

第7圖顯示本發明實施例之組合完成托板塊的仰視立體分解圖；

第8圖顯示一本發明實施例之第2圖頂層板的側視圖；

第9圖顯示本發明實施例之具有變形柱之組合完成托板塊的仰視立體分解圖；

第10圖顯示本發明實施例之補強桿；及

第11圖顯示本發明實施例之包括補強桿之組合完成托板的仰視立體圖。

【實施方式】

發明之詳細說明

第1圖顯示本發明實施例之托板10，且該托板10具有兩結合在一起之區段。依據實施例，托板10可包括一下段或底層板12、及一上端或頂層板15，且該底層板12與該頂層板15係分別模製而成者。頂層板15可包括一具有多數孔19之大致平坦的平面18，其中孔19具有減少頂層板15之表面積、包括放置在頂層板15上之材料的透氣性、減少頂層板15之重量及/或其他優點。依據本發明之實施例，平面18之100mm外周緣可不包含任何孔。底層板12可包括一實質配

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合頂層板15周緣形狀的周緣形狀，且底層板12可包括具有十字形構件之矩形周緣形狀，並且該等十字形構件在該矩形周緣各側之中心部份交叉且位在角隅13之間的中途。

依據本發明之實施例，底層板12與頂層板15可以由包括高密度聚乙烯(HDPE)、聚丙烯(PP)等熱塑性材料或其他聚合物材料模製而成。發明所屬技術領域中具有通常知識者在此應可了解該等聚合物材料可以是填充或未填充者及/或可包括顆粒狀或纖維、天然或合成材料等，例如，未填充HDPE可用以改善耐衝擊強度、具有強化物(例如，長玻璃纖維)之PP可用以改善結構性質、且具有不規則共聚合物之未填充PP可用以改善補強性質。依據本發明之另一實施例，該底層板12與頂層板15之全部或部份可由包括木頭、金屬等其他材料製成。

依據本發明實施例，底層板12與頂層板15可以由不同熱塑性材料或聚合物材料模製而成。例如，底層板12可由第一種熱塑性材料或聚合物材料模製而成，而頂層板15可由第二種熱塑性材料或聚合物材料模製而成。依據本發明之另一實施例，底層板12可由木木頭、金屬或其他材料製成，而頂層板15可由第二種熱塑性材料或聚合物材料模製而成。

如第1圖之俯視立體圖所示，托板10可以設計成包括，例如，一實質正方形周緣。依據本發明之實施例，底層板12與頂層板15可沿托板10之周緣包括圓化角隅13及/或圓化邊緣，而圓化角隅13及/或圓化邊緣具有包括減少與物體

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撞擊時之破壞、改善外觀等數個優點。

依據本發明之實施例，托板10可包括多數設置可結合底層板12與頂層板15之托板塊14。例如，托板10可包括九個位在角隅13處、在沿該托板10周緣且在角隅13間之位置17處、及在托板10之中心16處的托板塊14。發明所屬技術領域中具有通常知識者應可了解在此亦可使用較多數目或較少數目之托板塊14。托板塊14可包括圓化角隅，以提供包括減少與昇降裝置叉齒或其他物體撞擊時之破壞、改善外觀等數個優點。依據本發明之實施例，托板塊14係構成為可使托板10具有四向對稱性。第2-10圖利用此四向對稱性而僅顯示沿第1圖之部份2-2所截取之四分之一托板10。

雖然在此說明且在添附圖式中顯示了特定之實施例，但是本發明包含比所述與所示之特定標的物更大的範圍。發明所屬技術領域中具有通常知識者應可了解在此所述之實施例只是提供本發明廣大範圍之數個例子而已，本發明之範圍不限於在此所述之實施例。

第2圖顯示本發明實施例之頂層板15的仰視立體圖。依據本發明之實施例，一連串肋21、22可形成在頂層板15之底側，其中肋21、22可分別配置成平行(21)與垂直(22)於頂層板15之對應側。依據本發明之另一實施例，可設置多數相對於頂層板15之對應側形成其他角度的肋。發明所屬技術領域中具有通常知識者應可了解肋21、22共同使平面18具有更大的強度。依據本發明之實施例，托板塊14可在角隅13處、在角隅13間之位置27處、及在頂層板15之中心26

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處由頂層板15向下突出，而發明所屬技術領域中具有通常知識者應可輕易了解托板塊14可位於頂層板15上之其他位置處。依據本發明之實施例，柱23可以呈錐形且具有位在靠近頂層板15處之較寬部份。依據本發明之另一實施例，柱23可在其整個長度上具有一均一直徑，但亦可使用其他構形。依據本發明之又一實施例，柱23之周緣可以呈包括正方形、三角形、橢圓形、十字形等任何形狀。依據本發明之再一實施例，柱23可呈中空狀、部份中空狀或填滿狀。第3圖顯示一對應於頂層板15之托板塊14一部份的分解圖。依據本發明之實施例，頂層板15之組件包括外套筒24、肋21、22、柱23等且可由未填充HDPE製成，以提供較佳之耐衝擊性等優點。

第4圖顯示本發明實施例之底層板12之俯視立體圖。依據本發明之實施例，一連串肋41可形成在底層板12之上側，其中肋41可配置成平行及/或垂直於底層板12之對應側。依據本發明之另一實施例，可設置多數相對於底層板12之對應側形成其他角度的肋。發明所屬技術領域中具有通常知識者應可了解肋41共同使平面42具有更大的強度，同時亦使底層板12具有重量較輕之優點。依據本發明之實施例，托板塊14可在角隅13處、在角隅13間之位置47處、及在底層板12之中心46處由底層板12向上突出，而發明所屬技術領域中具有通常知識者應可輕易了解托板塊14可位於底層板12上之其他位置處。托板塊14可包括多數內套筒44、多數柱收納孔43及多數徑向肋45等組件。依據本發明

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之實施例，柱收納孔43可以呈錐形且具有位在靠近底層板12處之窄部。依據本發明之另一實施例，柱收納孔43可在其整個長度上具有一均一直徑，但亦可使用其他構形。依據本發明之又一實施例，柱收納孔43之周緣可以呈包括正方形、三角形、橢圓形、十字形等任何形狀。依據本發明之再一實施例，柱收納孔43可利用多數徑向肋45結合內套筒44，且該等徑向肋45沿柱收納孔43之長向延伸。依據本發明之另一實施例，徑向肋45可朝平行於該平面42之方向延伸，而發明所屬技術領域中具有通常知識者應可了解其他徑向肋構形且該等徑向肋構形亦包含在本發明之範圍內。又，徑向肋45具有包括增加托板塊14之強度與耐久性等優點。第5圖顯示一對應於底層板12之托板塊14一部份的分解圖，且依據本發明之實施例，該托板塊14包括多數柱收納孔43、內套筒44及多數徑向肋45。依據本發明之另一實施例，底層板12之組件包括多數內套筒44、多數徑向肋45、多數肋41、多數柱收納孔43等且可由具有長玻璃纖維之PP、未填充PP不規共聚合物或其他材料製成。

第6圖顯示本發明實施例之組合完成托板塊14的仰視立體圖。依據本發明之實施例，柱23可插入該柱收納孔43而突穿過該柱收納孔43且延伸超出一由靠近底層板12之徑向肋45底部所界定之平面。在將柱23插入柱收納孔43時，外套筒24嵌套在內套筒44上。第7圖顯示組合完成托板塊14之仰視分解圖。依據本發明之實施例，組合完成之托板塊14包括一兩層塊壁厚度，以增加組合完成托板塊14之強

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度，而該兩層塊壁厚度係利用將外套筒24嵌套在內套筒44上而形成者。依據本發明之另一實施例，徑向肋45係構成為可提供衝擊傳遞等優點。

依據本發明之另一實施例，頂層板15與底層板12可利用一熱熔組合法結合在一起，且該熱熔組合法包括加熱與加壓以改造該柱23之尖端部。該熱熔組合法通常包括對一熱塑性元件提供足夠之熱，以重新設定該熱塑性元件之記憶，但不會使該熱塑性元件熔化。第8圖顯示具有突出外套筒24之柱23之頂層板15的側視圖。依據本發明之實施例，柱23之高度可設定成至少為柱23之最大直徑的1.5倍。依據第9圖所示之本發明實施例，在柱23插入柱收納孔43而突穿過該柱收納孔43並延伸超出一由徑向肋45底部所界定之平面後，可加熱與加壓該柱23以產生透過該等托板塊將該頂層板15與該底層板12機械式鎖合在一起之變形柱91。依據本發明之另一實施例，可使用一擠壓銷(compression probe)或其他變形工具來產生變形柱91。

依據本發明之又一實施例，柱23與柱收納孔43可以利用一扣合機構固結在一起。依據本發明之實施例，柱23之尖端部可包括一滑過靠近底層板12之該柱收納孔43下端的凸片。當該凸片脫離柱收納孔43之下端時，該凸片可以向外彎曲而將該頂層板15與該底層板12機械式地鎖合在一起。依據本發明之另一實施例，該凸片可位在柱23之任何部份，以結合柱收納孔43或其他組件。依據本發明之又一實施例，該凸片可位在該柱收納孔43上，以結合柱23或其

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他組件，而發明所屬技術領域中具有通常知識者應可了解其他固結機構且該等固結機構亦包含在本發明之範圍內。

第10圖顯示本發明實施例之補強桿1000，且第11圖顯示本發明實施例之組合完成托板10的仰視立體圖，而該托板10包括多數插入底層板12中之補強桿1000。在第11圖中，頂層板15係以比底層板12更淡之陰影線來顯示。依據本發明之實施例，一連串肋1101、1102可形成在底層板12之底側，其中肋1101、1102可分別配置成平行(1101)與垂直(1102)於底層板12之對應側。依據本發明之另一實施例，可設置多數相對於底層板12之對應側形成其他角度的肋。發明所屬技術領域中具有通常知識者應可了解肋1101、1102共同使平面42具有更大的強度。依據本發明之另一實施例，肋1101、1102係構成為可提供用以收納補強桿1000於其中之凹孔。

雖然已揭露了本發明之較佳實施例，但發明所屬技術領域中具有通常知識者應可了解在不偏離本發明精神與範疇的情形下，可以作成可達成本發明某些優點之各種變化與修改例。例如，該系統可以該底層板之托板塊部份取代該頂層板之托板塊部份，且反之亦然。又，發明所屬技術領域中具有通常知識者亦應了解可以執行相同功能之其他元件適當地取代。因此，本發明之範圍僅由以下申請專利範圍來決定。

【圖式簡單說明】

第1圖顯示一本發明實施例組合完成後之托板的俯視

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立體圖；

第2圖顯示一本發明實施例之第1圖頂層板的仰視立體圖；

第3圖顯示一本發明實施例頂層板之托板塊一部份的分解圖；

第4圖顯示一本發明實施例之第1圖底層板的仰視立體圖；

第5圖顯示一本發明實施例底層板之托板塊一部份的分解圖；

第6圖顯示一本發明實施例組合完成後之托板的仰視立體圖；

第7圖顯示本發明實施例之組合完成托板塊的仰視立體分解圖；

第8圖顯示一本發明實施例之第2圖頂層板的側視圖；

第9圖顯示本發明實施例之具有變形柱之組合完成托板塊的仰視立體分解圖；

第10圖顯示本發明實施例之補強桿；及

第11圖顯示本發明實施例之包括補強桿之組合完成托板的仰視立體圖。

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【主要元件符號說明】

10...托板
12...底層板
13...角隅
14...托板塊
15...頂層板
16...中心
17...位置
18...平面
19...孔
21,22...肋
23...柱
24...外套筒
26...中心
27...位置
41...肋
42...平面
43...柱收納孔
44...內套筒
45...徑向肋
46...中心
47...位置
91...變形柱
1000...補強桿
1101,1102...肋

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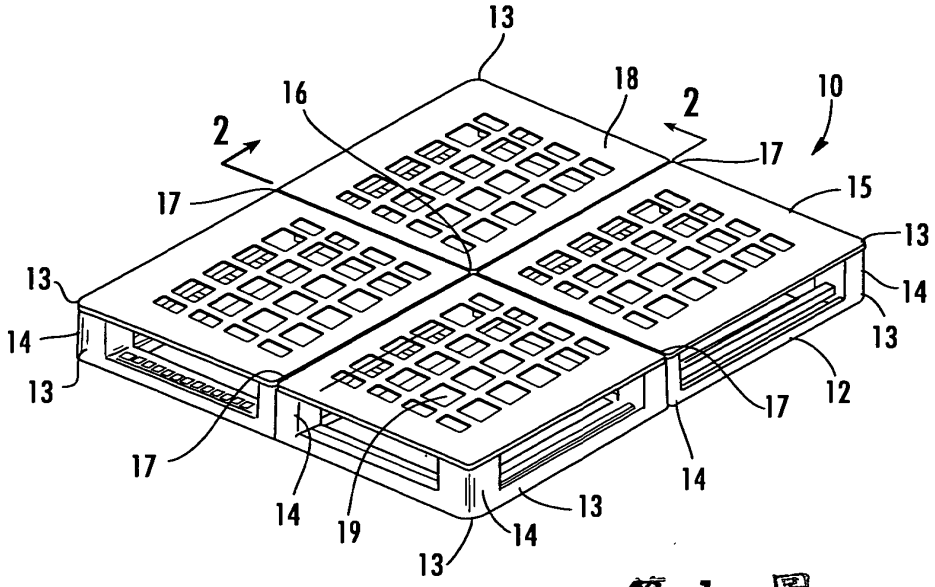
五、中文發明摘要：

本發明提供結合兩或兩個以上包括一頂層板與一底層板之托板區段，且該頂層板可包括向下突出並且包括多數外套筒及凸塊或柱之托板塊的一部份。該底層板可包括向上突出且包括多數內套筒、柱收納孔及徑向肋之托板塊，其中該柱收納孔利用前述多數徑向肋而與該等內套筒結合。該柱可插入該柱收納孔且突穿該柱收納孔，並且延伸超出一由徑向肋之底部所界定之平面。在將該柱插入該柱收納孔時，該外套筒嵌套在該內套筒上。該頂層板與該底層板可以利用一熱熔組合法結合在一起，且該熱熔組合法包括加熱與加壓以改造該柱尖端部，以透過該等托板塊將該頂層板與該底層板機械式地鎖合在一起。

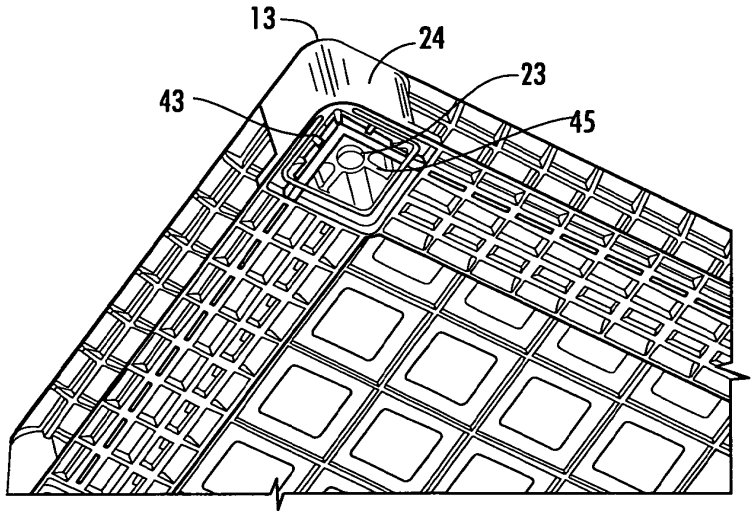
六、英文發明摘要：

The invention provides systems and methods of joining two or more pallet sections, including a top deck and a bottom deck. The top deck may include a portion of pallet blocks that project downwardly and include outer sleeves and bosses or posts. The bottom deck may include a portion of pallet blocks that project upwardly and include inner sleeves, post receiving cavities and radial ribs, wherein the post receiving cavity is coupled to the inner sleeves by the plurality of radial ribs. The post may be inserted into the post receiving cavity to protrude through the post receiving cavity and to extend beyond a plane that is defined by bottom portions of radial ribs. During insertion of the post into the post receiving cavity, the outer sleeve is fitted over the inner sleeve. The top deck and the bottom deck may be joined together using a heat staking assembly process that includes applying heat and pressure to reform a tip portion of the post to mechanically lock the top deck and the bottom deck through the pallet blocks.

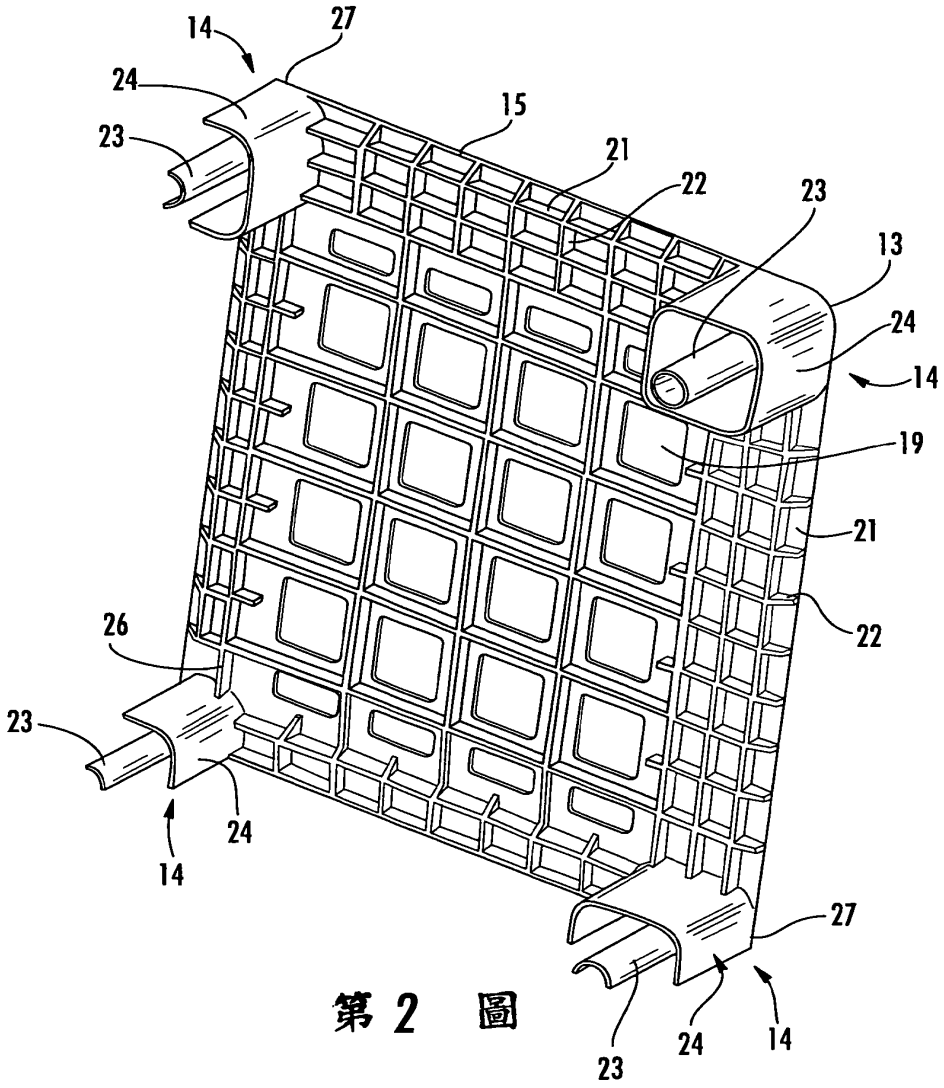
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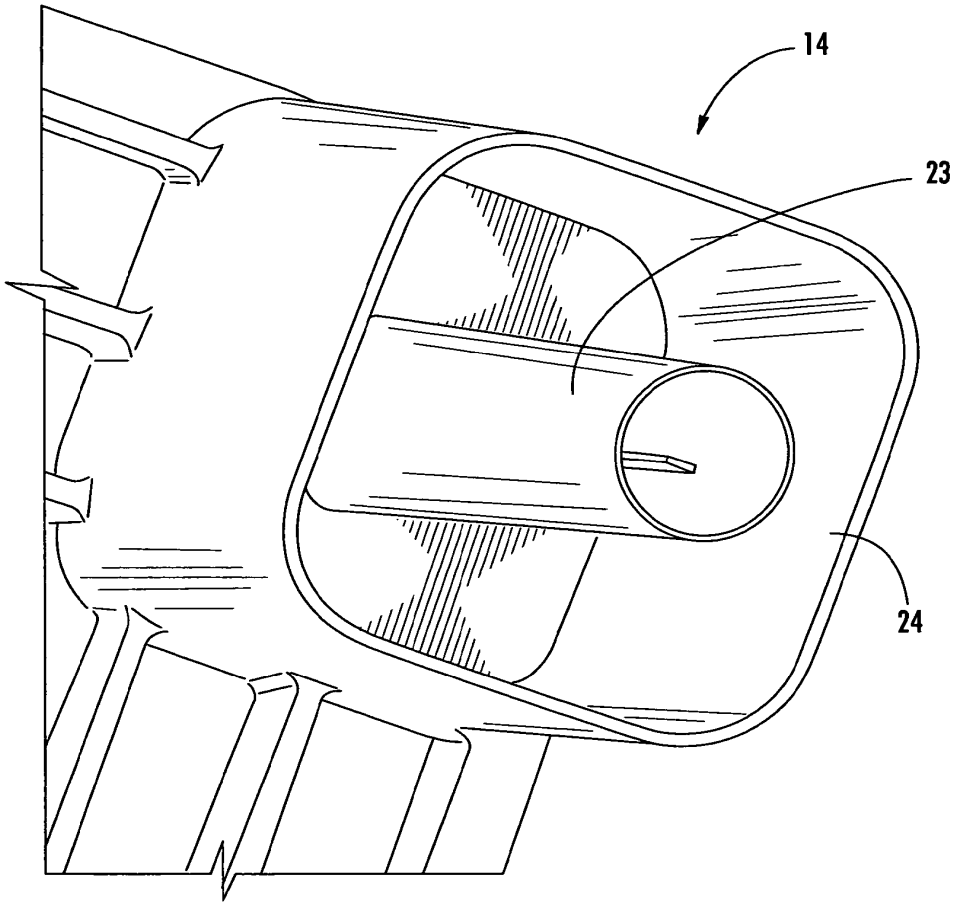
第 1 圖


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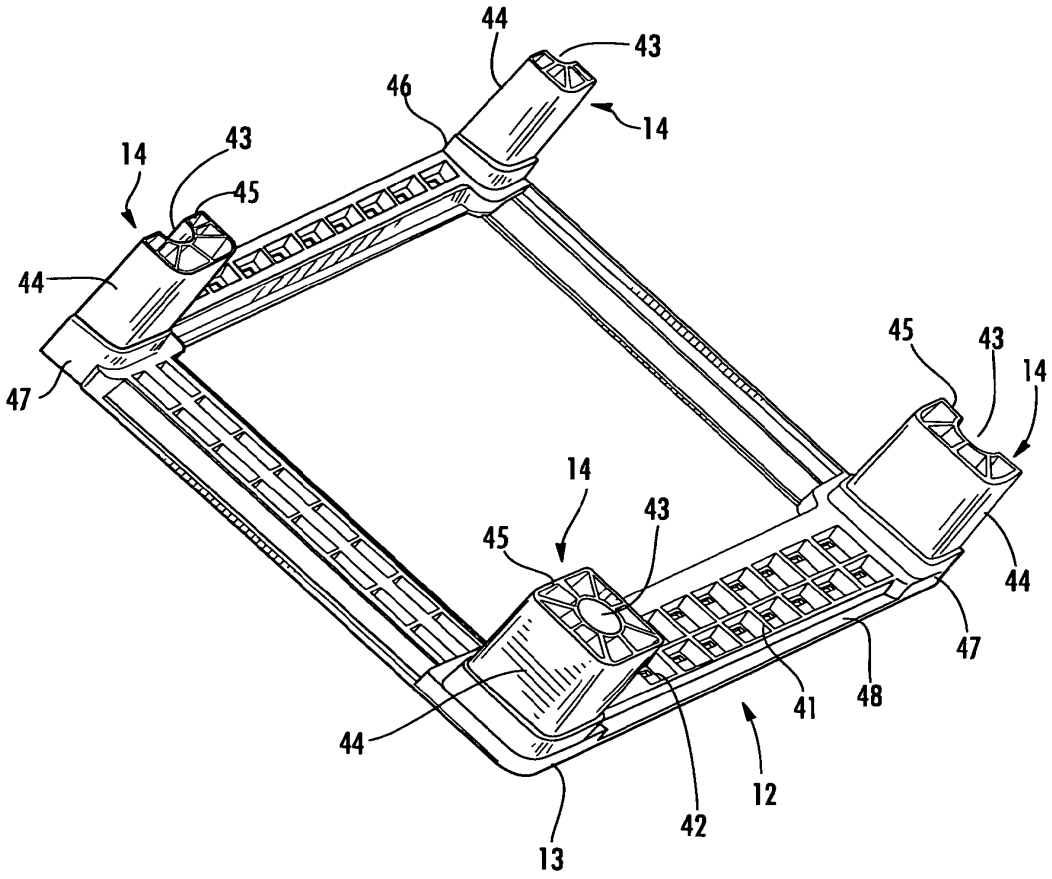
第 6 圖



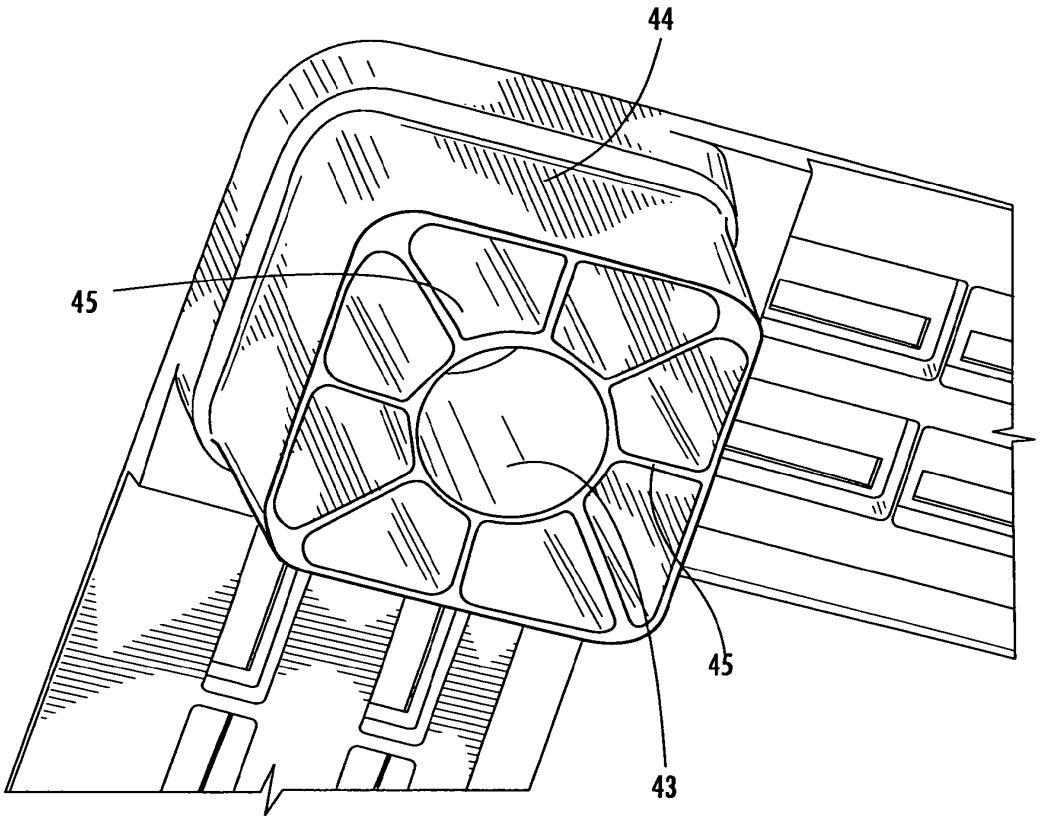
第 2 圖



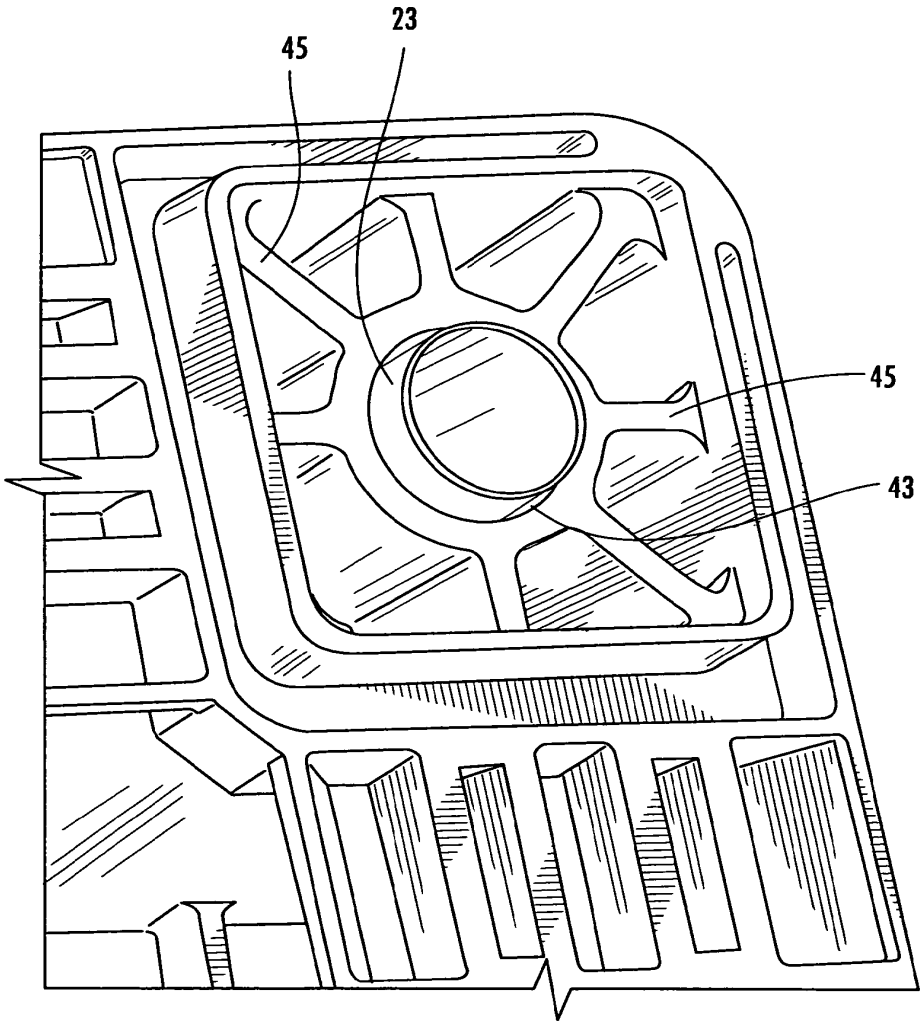
第 3 圖



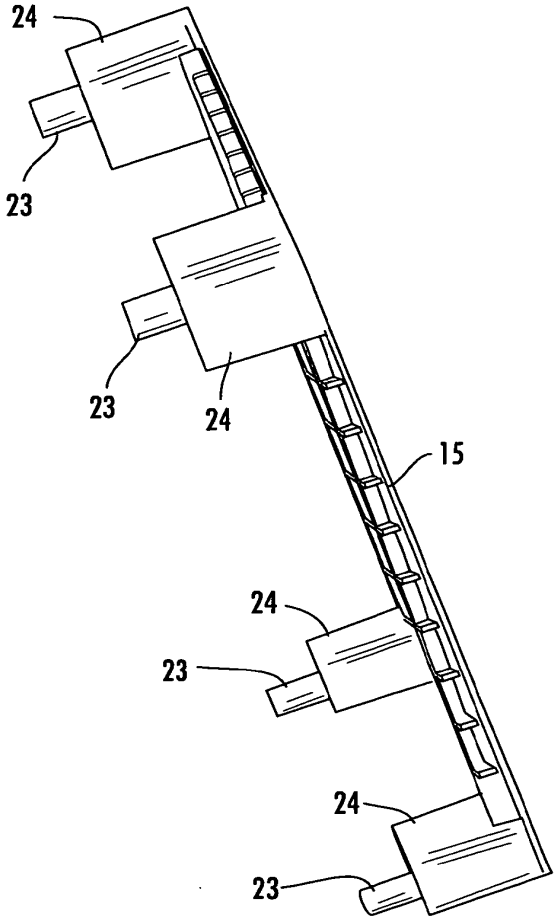
第 4 圖



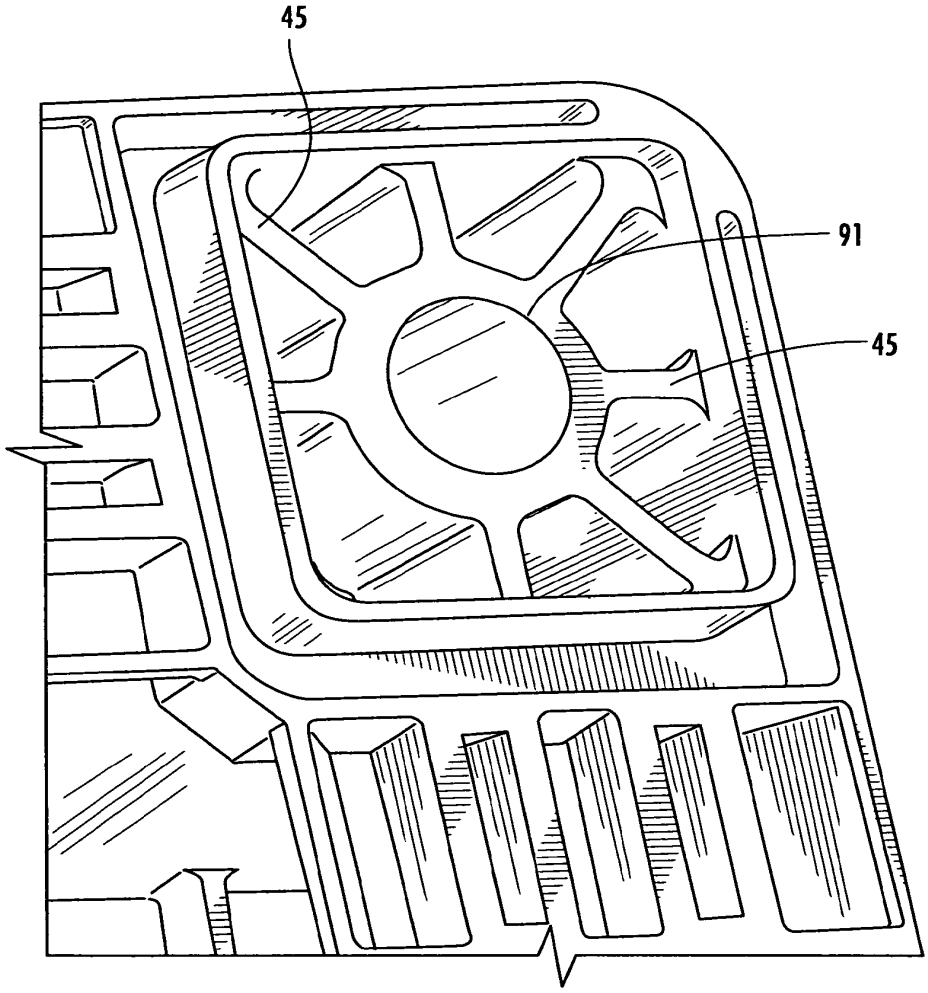
第 5 圖



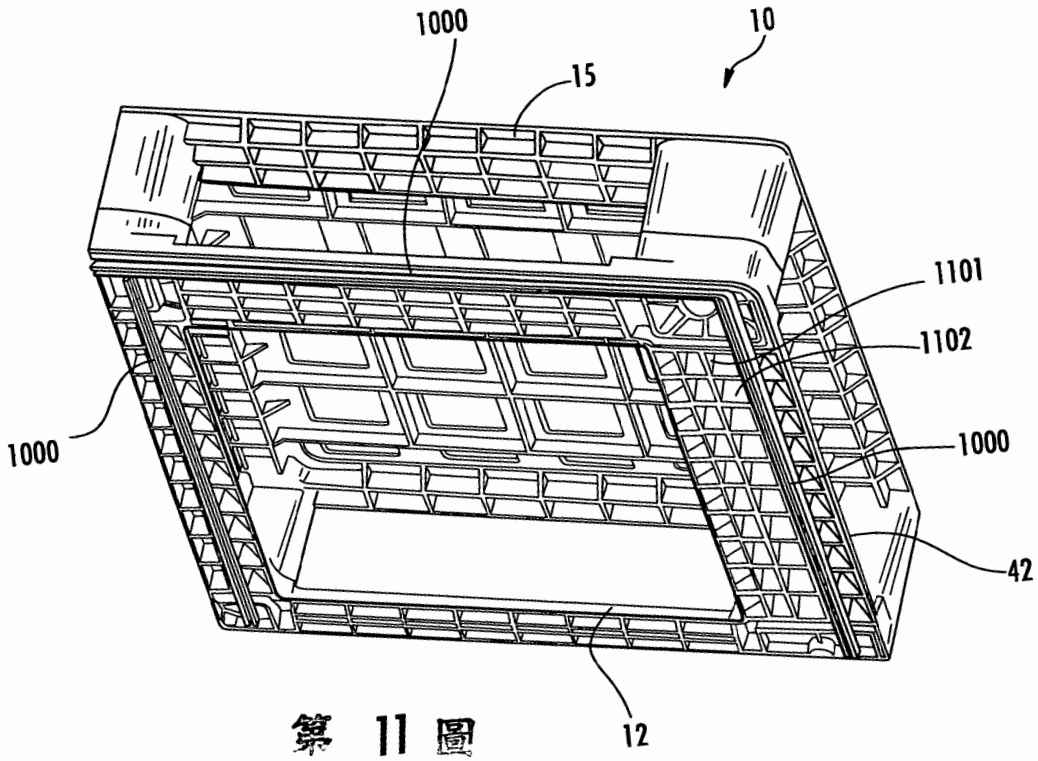
第 7 圖



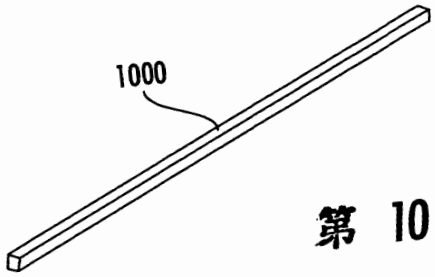
第 8 圖



第 9 圖



第 11 圖



第 10 圖

七、指定代表圖：

(一)本案指定代表圖為：第（ 1 ）圖。

(二)本代表圖之元件符號簡單說明：

10...托板
12...底層板
13...角隅
14...托板塊
15...頂層板
16...中心
17...位置
18...平面
19...孔

八、本案若有化學式時，請揭示最能顯示發明特徵的化學式：

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十、申請專利範圍：

99年1月7日 修正本

1. 一種托板，包含：

一上層板；

多數第一結合構件，係由該上層板向下突出，各第一結合構件與該上層板一體地模製且包括一外套筒及一位於其中之柱，且該柱突出超過該外套筒；

一下層板；

多數第二結合構件，係由該上層板向下突出，各第二結合構件與該下層板一體地模製且包括一內套筒及一位於其中之柱收納孔；且

該等多數第一與第二結合構件連結在一起以界定多數結合該等上與下層板之托板塊，且該等第二結合構件之各內套筒與柱收納孔收納該等第一結合構件之一對應柱與外套筒，並且各柱收納孔收納突出超過該外套筒之該柱。

2. 如申請專利範圍第1項之托板，其中該上層板包括一平面，該平面具有多數延伸穿過其中之孔。

3. 如申請專利範圍第1項之托板，其中該上層板包括一第一周緣形狀且該下層板包括一實質上與該第一周緣形狀配合之周緣形狀。

4. 如申請專利範圍第1項之托板，其中該上層板與該下層板係由熱塑性材料及聚合物材料之至少一者分別模製而成者。

5. 如申請專利範圍第1項之托板，其中該上層板與該下層

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板包含不同材料。

6. 如申請專利範圍第1項之托板，其中該上層板與該下層板包括圓化角隅與圓化邊緣之至少一者。

7. 如申請專利範圍第1項之托板，其中前述多數第一結合構件與前述多數第二結合構件係定位在對應上層板與下層板上之配合位置處，其中該等位置包括對應上層板與下層板之角隅、對應上層板與下層板之周緣、及對應上層板與下層板之中心。

8. 如申請專利範圍第7項之托板，其中該上層板包括九個前述第一結合構件且該下層板包括九個前述第二結合構件。

9. 如申請專利範圍第1項之托板，其中前述多數第一結合構件之各柱包括一具有正方形、三角形、橢圓形、及十字形之至少一者之周緣形狀。

10. 如申請專利範圍第9項之托板，其中前述多數第二結合構件之各柱收納孔包括一與前述多數第一結合構件之各對應柱相同之周緣形狀。

11. 如申請專利範圍第1項之托板，其中各外套筒之周緣尺寸大於各對應內套筒之周緣尺寸。

12. 如申請專利範圍第1項之托板，其中各外與內套筒具有圓化角隅。

13. 如申請專利範圍第1項之托板，其中當完全插入時，各柱之尖端部延伸超出各對應柱收納孔之一外暴露底端部。

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14. 如申請專利範圍第1項之托板，其中各柱呈錐形且具有一位在靠近上層板處之較寬部份。

15. 如申請專利範圍第1項之托板，更包含一或多個插入該下層板與該上層板之至少一者的補強桿。

16. 一種托板，包含：

一上層板；

多數第一結合構件，係由該上層板向下突出，各第一結合構件與該上層板一體地模製且包括一外套筒及一位於其中之柱，且該柱突出超過該外套筒；

一下層板；

多數第二結合構件，係由該上層板向下突出，各第二結合構件與該下層板一體地模製且包括一內套筒及一位於其中之柱收納孔，且多數徑向肋延伸在該內套筒及該柱收納孔之間；且

該等多數第一與第二結合構件連結在一起以界定多數結合該等上與下層板之托板塊，且該等第二結合構件之各內套筒與柱收納孔收納該等第一結合構件之一對應柱與外套筒，並且各柱收納孔收納突出超過該外套筒之該柱。

17. 如申請專利範圍第16項之托板，其中該上層板包括一平面，該平面具有多數延伸穿過其中之孔。

18. 如申請專利範圍第16項之托板，其中該上層板包括一第一周緣形狀且該下層板包括一實質上與該第一周緣形狀配合之周緣形狀。

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19. 如申請專利範圍第16項之托板，其中該上層板與該下層板係由熱塑性材料及聚合物材料之至少一者分別模製而成者。

20. 如申請專利範圍第16項之托板，其中該上層板與該下層板包含不同材料。

21. 如申請專利範圍第16項之托板，其中該上層板與該下層板包括圓化角隅與圓化邊緣之至少一者。

22. 如申請專利範圍第16項之托板，其中前述多數第一結合構件與前述多數第二結合構件係定位在對應上層板與下層板上之配合位置處，其中該等位置包括對應上層板與下層板之角隅、對應上層板與下層板之周緣、及對應上層板與下層板之中心。

23. 如申請專利範圍第22項之托板，其中該上層板包括九個前述第一結合構件且該下層板包括九個前述第二結合構件。

24. 如申請專利範圍第16項之托板，其中前述多數第一結合構件之各柱包括一具有正方形、三角形、橢圓形、及十字形之至少一者之周緣形狀。

25. 如申請專利範圍第24項之托板，其中前述多數第二結合構件之各柱收納孔包括一與前述多數第一結合構件之各對應柱相同之周緣形狀。

26. 如申請專利範圍第16項之托板，其中各外套筒之周緣尺寸大於各對應內套筒之周緣尺寸。

27. 如申請專利範圍第16項之托板，其中一各外與內套筒具

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有圓化角隅。

28. 如申請專利範圍第16項之托板，其中當完全插入時，各柱之尖端部延伸超出各對應柱收納孔之一外暴露底端部。

29. 如申請專利範圍第28項之托板，其中各柱呈錐形且具有一位在靠近上層板處之較寬部份。

30. 如申請專利範圍第16項之托板，更包含一或多個插入該下層板與該上層板之至少一者的補強桿。

31. 如申請專利範圍第16項之托板，其中該等徑向肋沿著該內套筒之一長度且沿著該柱收納孔之一長度延伸。

32. 如申請專利範圍第31項之托板，其中該等徑向肋實質上垂直於一由該上層板之平面或該下層板之平面所界定之平面。

33. 一種製造一托板之方法，包含：

提供一上層板及多數由該上層板向下突出之第一結合構件，各第一結合構件與該上層板一體地模製且包括一外套筒及一位於其中之柱，且該柱突出超過該外套筒；

提供一下層板及多數由該下層板向上突出之第二結合構件，各第二結合構件與該下層板一體地模製且包括一內套筒及一位於其中之柱收納孔；及

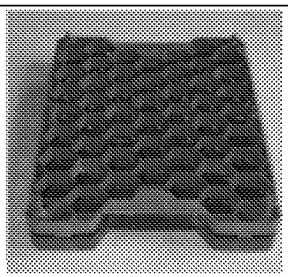
藉將該等多數第一與第二結合構件連結在一起以界定多數托板塊，結合該等上與下層板，且該等第二結合構件之各內套筒與柱收納孔收納該等第一結合構件

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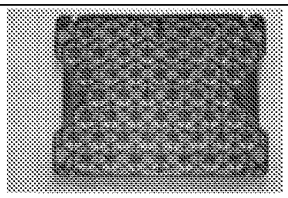
之一對應柱與外套筒，並且各柱收納孔收納突出超過該外套筒之該柱。

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Find term did:402018201520



Indication of the product	Transportsicherungen
Application number	402018201520.6
Design number	402018201520-0002
Registration number	402018201520
Design status	Registered and fully published
Owner name	Dirk Schlenzka
Designer name	-
Class	08.08,09.03,09.08
Filing date	29-04-2018



Indication of the product	Transportsicherungen
Application number	402018201520.6
Design number	402018201520-0001
Registration number	402018201520
Design status	Registered and fully published
Owner name	Dirk Schlenzka
Designer name	-
Class	08.08,09.03,09.08
Filing date	29-04-2018

DesignView

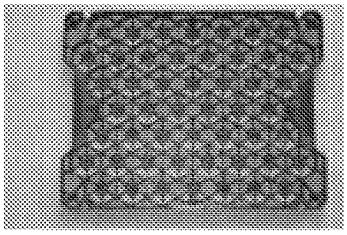
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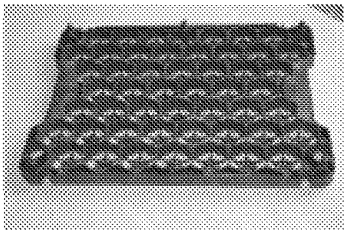
(19) Registration office code	DE
Design number	402018201520-0001
(21) Application number	402018201520.6
(25) Application language code	de
Second language code	
(22) Application date	29-04-2018
(43)/(44) Application published	
Application reference	
(11) Registration number	402018201520
(15) Registration date	05-11-2018
Publication date	30-11-2018
Design description	
(46) End of deferment	
(18) Expiry date	30-04-2023
Effective date	
Design current status code	Registered and fully published
Design current status date	
Comment	. The mentioned Expiry Date is not the date of expected expiration of the term of protection but only the due date for the renewal fee./ Das genannte Ablaufdatum ist nicht das voraussichtliche Ablaufdatum der Schutzdauer, sondern nur das Fälligkeitsdatum für die Aufrechterhaltungsgebühr.
(82) Statements contained in the application	

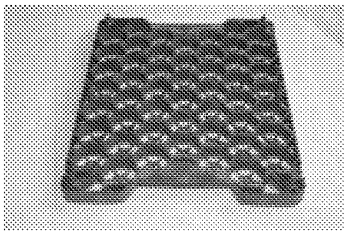
(55) Representation (views of design)

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IPR2024-01400

DesignView







Indication of the product and classification

Language code	(54) Indication product
	Transportsicherungen
	Transportgestelle
	Transportpaletten
-	-
(51) Locarno classification	08.08,09.03,09.08

(71)/(73)/(78) Owner

No entry for the design number DE700402018201520-0001

(74) Representative

No entry for the design number DE700402018201520-0001

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

DesignView

(72) Designer

No entry for the design number DE700402018201520-0001

(750) Correspondence address

No entry for the design number DE700402018201520-0001

(23) Exhibition priority

No entry for the design number DE700402018201520-0001

(30) Priority

No entry for the design number DE700402018201520-0001

Publication

Publication identifier	Publication section	Publication date
2018-48	Part 1a	30-11-2018

Recordals

Basic record kind	Registration
Record reference	The design has been registered
RecordFilingDate	2018-11-05
Date	30-11-2018

Renewals

No entry for the design number DE700402018201520-0001

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
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DesignView

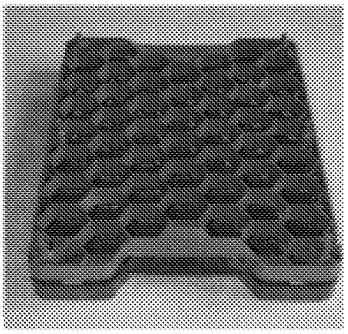
Design

(19) Registration office code	DE
Design number	402018201520-0002
(21) Application number	402018201520.6
(25) Application language code	de
Second language code	
(22) Application date	29-04-2018
(43)/(44) Application published	
Application reference	
(11) Registration number	402018201520
(15) Registration date	05-11-2018
Publication date	30-11-2018
Design description	
(46) End of deferment	
(18) Expiry date	30-04-2023
Effective date	
Design current status code	Registered and fully published
Design current status date	
Comment	. The mentioned Expiry Date is not the date of expected expiration of the term of protection but only the due date for the renewal fee./ Das genannte Ablaufdatum ist nicht das voraussichtliche Ablaufdatum der Schutzdauer, sondern nur das Fälligkeitsdatum für die Aufrechterhaltungsgebühr.
(82) Statements contained in the application	

(55) Representation (views of design)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2492
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

DesignView



Indication of the product and classification

Language code	(54) Indication product
	Transportsicherungen
	Transportgestelle
	Transportpaletten
-	-
(51) Locarno classification	08.08,09.03,09.08

(71)(73)(78) Owner

No entry for the design number DE700402018201520-0002

(74) Representative

No entry for the design number DE700402018201520-0002

(72) Designer

No entry for the design number DE700402018201520-0002

(750) Correspondence address

No entry for the design number DE700402018201520-0002

(23) Exhibition priority

No entry for the design number DE700402018201520-0002

(30) Priority

No entry for the design number DE700402018201520-0002

Publication

Publication identifier	Publication section	Publication date
2018-48	Part 1a	30-11-2018

Recordals

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2493
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

DesignView

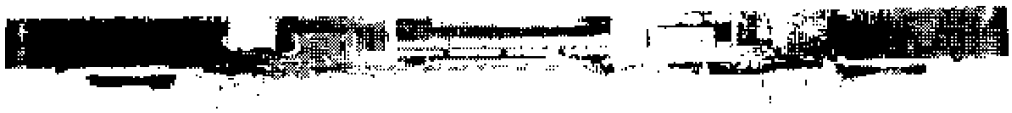
Basic record kind	Registration
Record reference	The design has been registered
RecordFilingDate	2018-11-05
Date	30-11-2018

Renewals

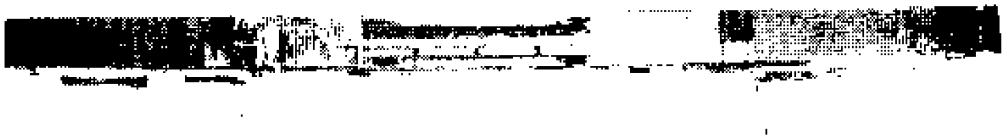
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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2494
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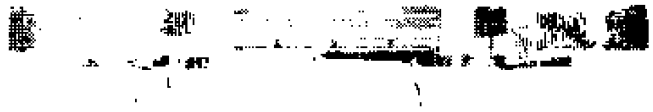
(19)[Publication country/region]
Japan Patent Office (JP)
(45)[Publication date]
Heisei 26(2014) July 28 (2014.7.28)
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Design Gazette (S)
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D1503434
(24)[Registration date]
Heisei 26(2014) June 27 (2014.6.27)
(54)[Article to the design]
Cart
(52)[Japanese design classification]
G2-500
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[D-term]
G2-500AB
(21)[Application number]
D2013-22972
(22)[Filing date]
Heisei 25(2013) October 1 (2013.10.1)
(72)[Creator]
[Full name]
Inlet of plot *
(73)[Owner of a design right]
[Identification number]
309019604
[Name]
Inlet of plot *
[Examiner]
IKI, Terue
[Drawings]
[Front view]



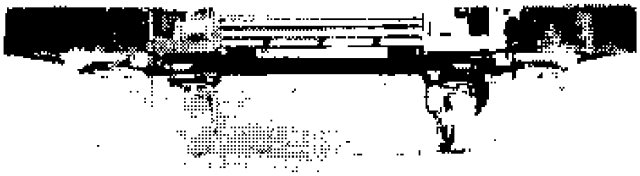
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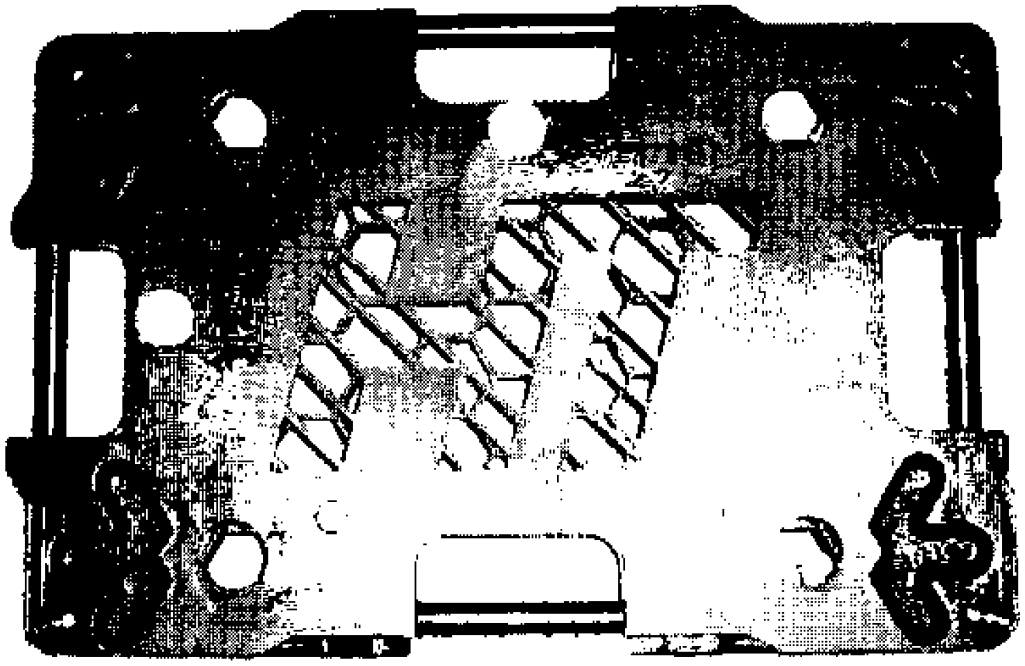
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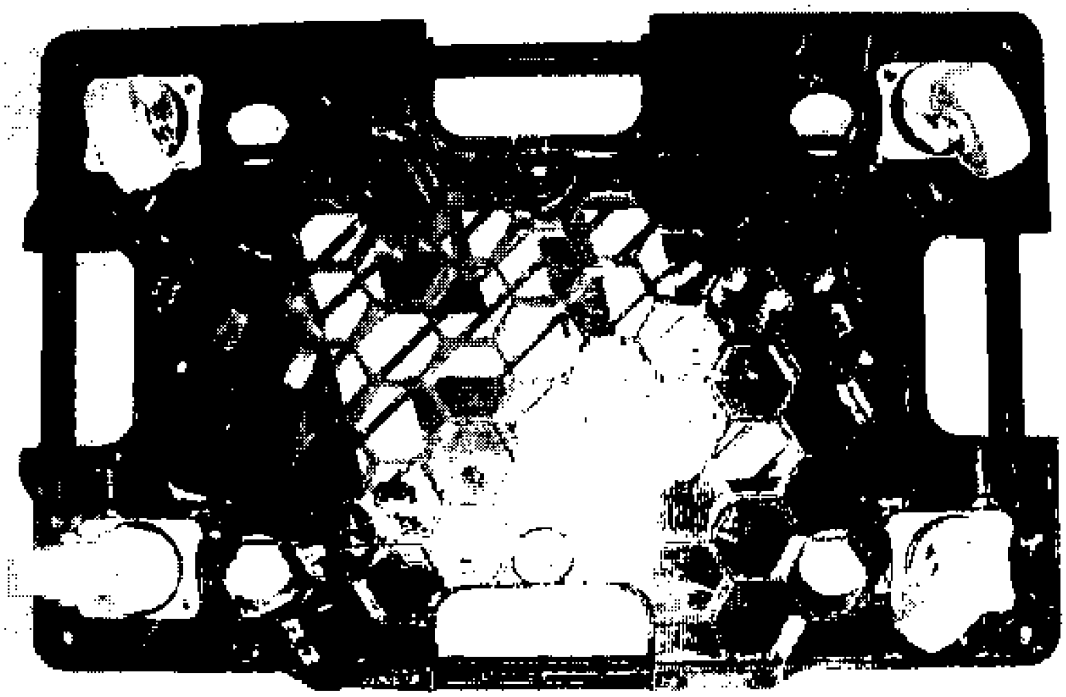
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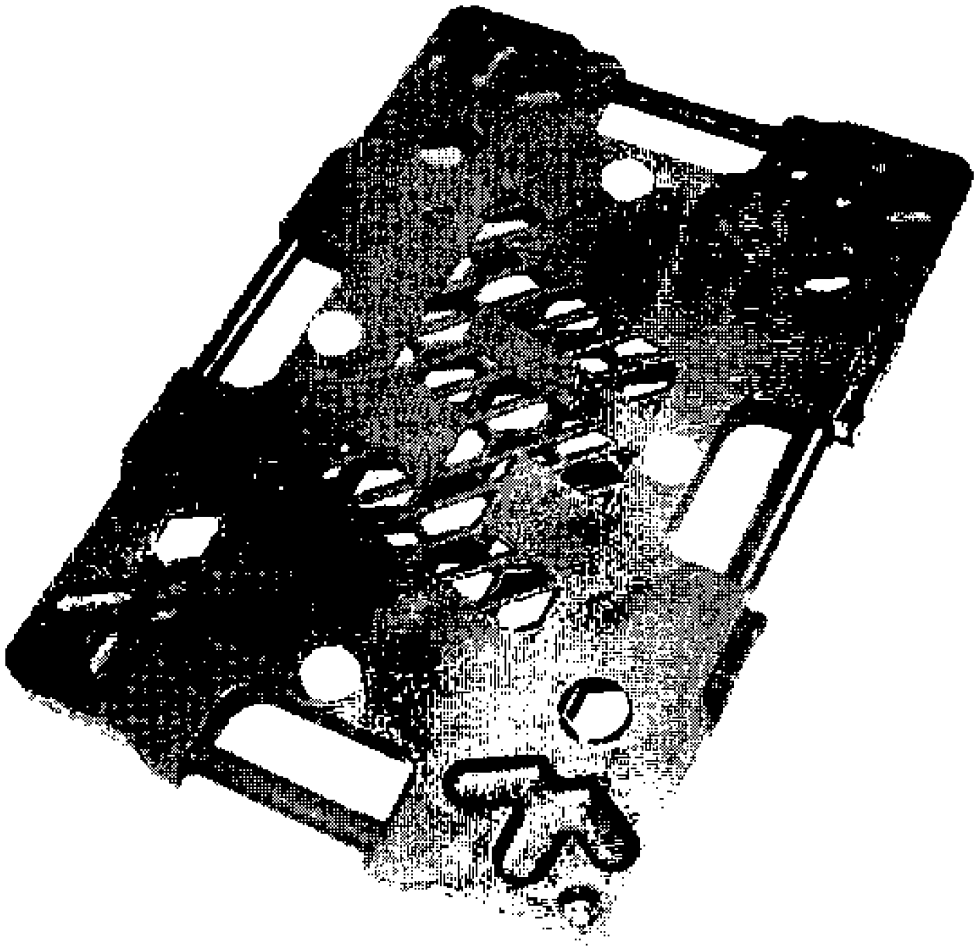
[Top view]



[Bottom view]



[The perspective view seen from the right]



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（４５）【発行日】平成２６年７月２８日（２０１４．７．２８）
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（２４）【登録日】平成２６年６月２７日（２０１４．６．２７）
（５４）【意匠に係る物品】台車
（５２）【意匠分類】Ｇ２－５００
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【Ｄターム】Ｇ２－５００ＡＢ
（２１）【出願番号】意願２０１３－２２９７２（Ｄ２０１３－２２９７２）
（２２）【出願日】平成２５年１０月１日（２０１３．１０．１）
（７２）【創作者】
【氏名】水口　稔
【住所又は居所】石川県白山市吉野オ５２－４
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【識別番号】３０９０１９６０４
【氏名又は名称】水口　稔
【住所又は居所】石川県白山市吉野オ５２－４
【審査官】生亀　照恵
【図面】
【正面図】



【背面図】



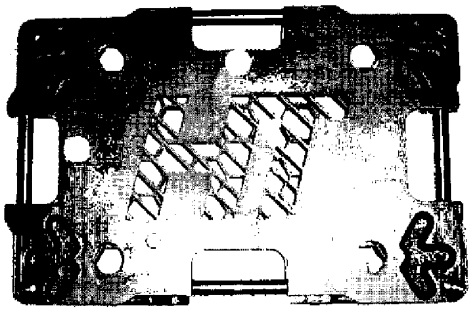
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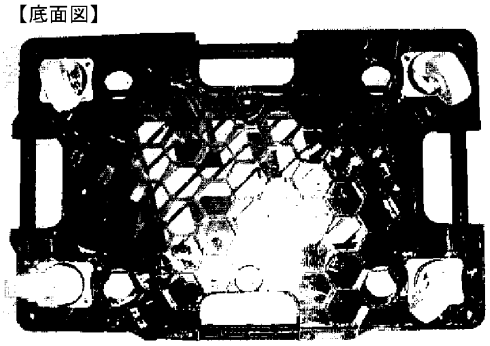
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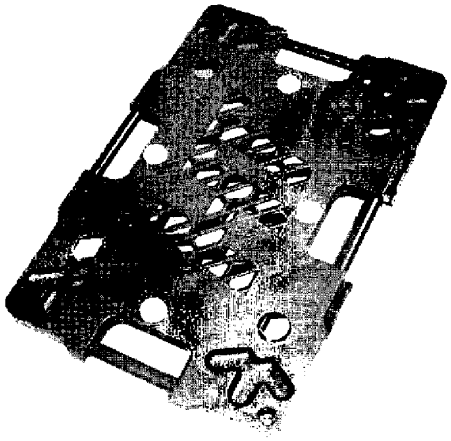
【平面図】



【底面図】



【右方向から見た斜視図】



Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	D738106		2015-09-08	Shitrit	
	2	D816334		2018-05-01	Brunner	
	3	D826510		2018-08-21	Brunner	
	4	9511491		2016-12-06	Brunner	
	5	8979100		2015-03-17	Bensman et al.	
	6	8567796		2013-10-29	Bar-Erez et al.	
	7	8505729		2013-08-13	Sosnovsky et al.	
	8	D661858		2012-06-12	Lifshitz et al.	

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	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

	9	D653832		2012-02-07	Vilkomirski et al.	
	10	D395533		1998-06-23	Morison et al.	
	11	7779764		2010-08-24	Naidu et al.	

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	1	20150376917	A1	2015-12-31	BRUNNER	
	2	20090026901	A1	2009-01-29	Nies, III et al.	

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	1	302371147	CN	S	2013-03-27	Kyoraku Co., Ltd.		☒
	2	D1395115	JP	S	2010-08-16	GOP, Inc.		☒

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

	3	I324578	TW	B	2010-05-11	Chep Technology Pty Limited		☐
	4	402018201520	DE		2018-11-30	Dirk Schlenzka		☒
	5	D1503434	JP	S	2014-07-28			☒

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	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-03-31
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	15826232
Filing Date:	29-Nov-2017
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Filer:	Elissa Marie Kingsland/Dahlia Griffin
Attorney Docket Number:	55390-501C01US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1900	1900
		Total in USD ($)		**1900**

Electronic Acknowledgement Receipt	
EFS ID:	39017785
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	31-MAR-2020
Filing Date:	29-NOV-2017
Time Stamp:	14:08:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1900
RAM confirmation Number	E20203UE08367213
Deposit Account	500311
Authorized User	Elissa Kingsland
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	55390-501C01US_RCE.pdf	1353185 e813a88c4f1cd7cdb0a6c5d8c7783f5339eb af50	no	3
Warnings:					
Information:					
2	Transmittal Letter	55390-501C01US_IDS.pdf	101699 c93fd52d72abf8d0c4f36fba6033cf2a5771f bfc	no	2
Warnings:					
Information:					
3	Foreign Reference	cn302371147s.pdf	242569 5c1fe00f490db4ca3f8fb4153105f36ffd1054 68	no	4
Warnings:					
Information:					
4	Foreign Reference	JP1395115.pdf	1338768 29ba9e8892cd391b16ed206972651f30df6 6b01d	no	8
Warnings:					
Information:					
5	Foreign Reference	TWI324578B.pdf	2104508 05bf0d621142c031d597c5e4977c58d478d 7c188	no	31
Warnings:					
Information:					
6	Foreign Reference	DE402018201520.pdf	763184 bd376f7dcac5b42b03e0859197d516a6945 37a65	no	7
Warnings:					
Information:					

7	Foreign Reference	JP1503434.pdf	1445051 145ed725e0824b0ff0f0739487aa4d35a1f6f8a4	no	6
Warnings:					
Information:					
8	Information Disclosure Statement (IDS) Form (SB08)	55390-501C01US_SB08.pdf	1042380 b5172aee6e0d293f88a8b36957719edee119dc57	no	5
Warnings:					
Information:					
9	Fee Worksheet (SB06)	fee-info.pdf	30494 9fcb8473329e6b5387fc0111970455ce248cfe08	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	8421838		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

30623 7590 04/17/2020

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 04/17/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	07/17/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 02/11)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2511
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

30623 7590 04/17/2020
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	07/17/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINERTH, GIDEON R	3736	206-501000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2512
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

30623 7590 04/17/2020

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 04/17/2020

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 02/11)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2513
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Notice Requiring Inventor's Oath or Declaration	Application No. 15/826,232	Applicant(s) Yaron Brunner	
	Examiner WEINERTH, GIDEON R	Art Unit 3736	

This notice is an attachment to the Notice of Allowability (PTOL-37), or the Notice of Allowability For A Design Application (PTOL-37D).

An inventor's oath or declaration in compliance with 37 CFR 1.63 or 1.64 executed by or with respect to each inventor has not yet been submitted.

An oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each inventor (for any inventor for which a compliant oath, declaration, or substitute statement has not yet been submitted) MUST be filed no later than the date on which the issue fee is paid. See 35 U.S.C. 115(f). Failure to timely comply will result in ABANDONMENT of this application.

A properly executed inventor's oath to declaration has not been received for the following inventor(s):

If applicant previously filed one or more oaths, declarations, or substitute statements, applicant may have received an informational notice regarding deficiencies therein.

The following deficiencies are noted:

INFORMAL ACTION PROBLEMS

- A properly executed inventor's oath or declaration has not been received for the following inventor(s): **Grant T. Squiers**, **Christopher S. Hoppe**, and **Steven W. Hyma**.
  Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.

Questions relating to this Notice should be directed to the Application Assistance Unit at 571-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/826,232	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 3/31/2020.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are See Continuation Sheet . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3/31/2020.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2516
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Continuation of 3. The allowed claim(s) is/are: 1-2,6-11,13-19 and 21-23

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: The Amended Claims of 2/12/2019 incorporate allowable subject matter indicated in the Office Action of 11/28/2018. Specifically, Amended Claim 1 recites a single depressed locking location (244) having two locking ribs (248) that form the coupling engagement as seen in Figure 8A. Claim 6 recites two locking ribs (312A and 312B – Figure 12C) in two neighboring depressions (308A and 308B). These two ribs in two neighboring depressions serve as the female coupler as discussed in Specification Page 32 Lines 6-14 to hold an item in an offset position from the depressions.

Furthermore, the newly submitted references of June 18, 2019, July 2, 2019, and July 18, 2019 do not raise any additional issues regarding the determination of patentability. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

Additional references submitted on December 12, 2019 and 11/25/2019 also have been considered along with references submitted in corresponding applications 15/826201 and 16/216724. The Request for Continued Examination and the associated IDS of 3/31/2020 has also been considered.

Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is (571)270-5121. The examiner can normally be reached on Monday-Friday 10AM-6PM EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Pickett can be reached on (571) 272-4560. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

CPC						
Symbol					**Type**	**Version**
B65D	/	21	/	0223	F	2013-01-01
B25H	/	3	/	02	I	2013-01-01
A45C	/	5	/	14	I	2013-01-01
A45C	/	7	/	005	I	2013-01-01
A45F	/	3	/	10	I	2013-01-01
B25H	/	1	/	04	I	2013-01-01
A45C	/	13	/	02	I	2013-01-01
B25H	/	3	/	021	I	2013-01-01
B65D	/	21	/	0209	I	2013-01-01
B62B	/	1	/	14	I	2013-01-01
B65D	/	21	/	0228	I	2013-01-01
B65H	/	2701	/	533	A	2013-01-01
A45C	/	7	/	0045	A	2013-01-01
B25H	/	3	/	023	A	2013-01-01
B62B	/	5	/	067	A	2013-01-01
B65D	/	2255	/	00	A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

/GIDEON R WEINERTH/ Examiner, Art Unit 3736		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	12 April 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6A

U.S. Patent and Trademark Office — Part of Paper No.: 20200412

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2520
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B65D	/	21	/	02
	/		/	
B25H	/	3	/	02

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
206	501

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					
206	504	508	511			
280	47.18					

/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner)	12 April 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 6A

U.S. Patent and Trademark Office — Part of Paper No.: 20200412

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2521
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	12	10	17	19										
2	2	13	11		20										
	3		12	6	21										
	4	14	13	18	22										
	5	15	14	8	23										
7	6	3	15												
9	7	4	16												
10	8	16	17												
11	9	5	18												

/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner)	12 April 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 6A

U.S. Patent and Trademark Office Part of Paper No.: 20200412

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2522
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

CPC - Searched*		
Symbol	**Date**	**Examiner**
A47B47/00	6/6/2018	GW
A47B67/04	6/6/2018	GW
A47B87/02,007,0276	6/6/2018	GW
B65D21/0224,02,0223,0212,0217,0219,0222,0228,023,	6/6/2018	GW
B65D25/2823,06	6/6/2018	GW
B25H3/021,022,023,04,06	6/6/2018	GW
Y10T403/7045	6/6/2018	GW
A47B87/02	11/23/2018	GW
A47B88/90	11/23/2018	GW
B25H3/02	11/23/2018	GW
B65D21/0204	11/23/2018	GW
A45C7/0045	2/20/2019	GW
A45C5/14	2/20/2019	GW
B65D21/00	2/20/2019	GW
Update search from co-pending Applications 15826201, 16216724	02/20/2019	GW
Update Search for IDS filed 4/17/2019	04/26/2019	GW
Update Search, Include KO (US 2014/0161518)	06/04/2019	GW
Update Search, include references from IDS of 6/18/19, 7/2/19, 7/18/19	08/18/2019	GW
Update search, include references from IDS of 12/12/2019 and 11/25/2019	12/22/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2523
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**
		GW

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
206	508,511,504,302,501	6/6/2018	GW
280	47.18,47.19,47.26,79.2	6/6/2018	GW
312	107,111	11/23/2018	GW
280	47.26,47.28,652	11/23/2018	GW

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
Update search from Application 16216724 and 15826201	02/20/2019	GW
Consider additional references from 16/216724	12/22/2019	GW
Update references from IDS filed 3/31/2020	04/12/2020	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2524
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
A45C7	0045	2/20/2019	GW
A47B47	00	2/20/2019	GW
A47B67	04	2/20/2019	GW
A47B87	02,007,00276	2/20/2019	GW
A47B88	90	2/20/2019	GW
B65D21	0024,02,00,0223,0212,0217,0219,0222,0228,023,0204	2/20/2019	GW
B65D25	2823,06	2/20/2019	GW
B25H3	021,02,022,023,04,06	2/20/2019	GW
Y10T403	7045	2/20/2019	GW
206	508,511,504,302,501	2/20/2019	GW
280	47.18,47.19,47.26,79.2,47.28,652	2/20/2019	GW
312	107,111	2/20/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2525
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	15826232
Filing Date	2017-11-29
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	G. R. Weinerth
Attorney Docket Number	55390-501C01US

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.R.W/

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	D738106		2015-09-08	Shitrit	
	2	D816334		2018-05-01	Brunner	
	3	D826510		2018-08-21	Brunner	
	4	9511491		2016-12-06	Brunner	
	5	8979100		2015-03-17	Bensman et al.	
	6	8567796		2013-10-29	Bar-Erez et al.	
	7	8505729		2013-08-13	Sosnovsky et al.	
/G.R.W/	8	D661858		2012-06-12	Lifshitz et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.R.W/

/G.R.W/	9	D653832		2012-02-07	Vilkomirski et al.	
/G.R.W/	10	D395533		1998-06-23	Morison et al.	
/G.R.W/	11	7779764		2010-08-24	Naidu et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	20150376917	A1	2015-12-31	BRUNNER	
/G.R.W/	2	20090026901	A1	2009-01-29	Nies, III et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
/G.R.W/	1	302371147	CN	S	2013-03-27	Kyoraku Co., Ltd.		☓
/G.R.W/	2	D1395115	JP	S	2010-08-16	GOP, Inc.		☒

EFS Web 2.1.18

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

/G.R.W/	3	I324578	TW	B	2010-05-11	Chep Technology Pty Limited		☐
/G.R.W/	4	402018201520	DE		2018-11-30	Dirk Schlenzka		☒
/G.R.W/	5	D1503434	JP	S	2014-07-28			☒

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	04/12/2020

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-03-31
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 19:40
S2	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:41
S3	1	("20100163562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:44
S4	22	("5699925" | "6959507" | "20090139892" | "20090236255" | "5469961" | "20030155267" | "20080308641" | "3182856" | "5353948" | "3581928" | "4351448" | "20090178989" | "2634020" | "3387732" | "5755180" | "6761266" | "7246718" | "7246718" | "5606820" | "4351448" | "20090236255" | "20050224494" | "5469961").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:51
S5	134	("2733830" | "2746081" | "3077282" | "3285464" | "3315796" | "3376046" | "3381844" | "3405836" | "4109821" | "4302866" | "4401312" | "4431114" | "4844263" | "5062539" | "5096084" | "5312011").PN. OR ("5699925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:52
S6	23	("20030155267" | "20050224494" | "20080308641" | "20090139892" | "20090178989" | "20090236255" | "2634020" | "3182856" | "3387732" | "3581928" | "4351448" | "5353948" | "5469961" | "5606820" | "5699925" | "5755180" | "6761266" | "6959507" | "7246718").PN. OR ("8590704").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 19:54
S7	42	("3098686" | "4391478" | "4452003" | "4662515" | "4768651" | "4901664" | "5176281" | "5244265" | "5344339" | "5624029" | "5685421"	US-PGPUB;	OR	OFF	2018/04/05 19:57

		| "5699925" | "5938023").PN. OR ("6193062").URPN.	USPAT; USOCR			
S8	165	(KETER adj PLASTIC).as.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:00
S9	38	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:01
S10	1031	206/508.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:06
S11	206	S10 and (spring resilient)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:07
S12	121	S10 and (spring bias biasing biased)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:08
S13	33	("3145870").URPN.	USPAT	OR	OFF	2018/04/05 20:11
S14	66	("0353600" | "0888611" | "2111884" | "2256024" | "2670892" | "3145870" | "3341053" | "3343670" | "3353665" | "3369658" | "3419176").PN. OR ("3933268").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:12
S15	41	("3933268" | "4303158" | "4383721" | "4592601" | "4733703" | "4768651" | "4782619" | "5203618" | "5244265").PN. OR ("5482162").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:13
S16	26	("2812099" | "2980751" | "3147151" | "3167458" | "3338452" | "3341053" | "3745048" | "3767468" | "3933268" | "3944074" | "4113926").PN. OR ("4339049").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:14
S17	2166	206/508,511,504.ccls.	US-PGPUB;	OR	OFF	2018/04/05 20:18

			USPAT; USOCR			
S18	121	206/503.ccls. and (spring)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:19
S19	22	("2807387" | "3182856" | "4724756" | "5083664" | "5375709" | "5445269").PN. OR ("5934466").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:21
S20	3773	280/47.18,47.19,47.26,79.2.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
S21	891	280/47.18,47.19,47.26,79.2.ccls. and (spring)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:30
S22	1	("2004/0183266").URPN.	USPAT	OR	OFF	2018/04/05 20:34
S23	2	(("20020014488") or ("4113214") or ("3845968")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 20:35
S24	3	(("20020014488") or ("4113214") or ("3845968")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 20:35
S25	8	("2002/0014488").URPN.	USPAT	OR	OFF	2018/04/05 20:36
S32	138	S21 and (stack stacked stacking)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:01
S33	29	("1014475" | "1408400" | "1636682" | "1815825" | "4717168" | "5139278").PN. OR ("5294137").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:03

S34	23	("2606652" | "2677483" | "2736452" | "3258091" | "3308911" | "3376046" | "3401933" | "4066156").PN. OR ("4220343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:08
S35	39	("20020175172" | "20040112906" | "20050051549" | "20090308883" | "20100108556" | "20100140890" | "20110139805" | "20110248458" | "20110278879" | "20120012596" | "20130181419" | "20150040606" | "3117692" | "3376046" | "3999775" | "4091953" | "4093070" | "4220343" | "4828112" | "5011240" | "5069466" | "5287966" | "5427394" | "6520514" | "6964348" | "7086551" | "7134552" | "7544915" | "7950679" | "8322530" | "8360447" | "8465030" | "8596655" | "8690170" | "8777043" | "8936260" | "9205951").PN. OR ("9669930").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:08
S36	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:11
S37	20	B65D21/02.cpc. and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:12
S38	31	("2626025" | "3331529" | "3346137" | "3749273" | "3811747" | "3836043").PN. OR ("4813542").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:13
S39	43	("4545487" | "4813542" | "5617953" | "5864467" | "5949653").PN. OR ("6085925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:14
S40	60	(french adj cleat)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:16
S41	25	("3361293").URPN.	USPAT	OR	OFF	2018/04/05 21:21

S42	32	("2483269" | "3219400" | "3361293" | "3512696" | "3565624" | "3763980" | "4190172" | "4322118" | "4389078" | "4624383" | "4660725" | "5016946" | "5038937" | "5105962" | "5310071" | "6047827" | "6056377" | "6276550" | "D330128" | "D332745").PN. OR ("7152752").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:22
S43	11	("20070145864" | "20100254757" | "20110085853" | "3944282" | "4900090" | "4995176" | "6612078" | "6830236" | "6877824" | "7152752" | "8464408").PN. OR ("9506489").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:23
S44	16	("3469331" | "4716666").PN. OR ("4995176").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:24
S45	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:25
S46	7	("1849659").URPN.	USPAT	OR	OFF	2018/04/05 21:29
S47	46	("1849659" | "2774511" | "2916293" | "2994457" | "3053397" | "3100582" | "3113680" | "3219232" | "3282458" | "3647112" | "4000817" | "4176747" | "Re26758" | "Re27649").PN. OR ("4550837").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:30
S48	1066	B65D21/0217,0219,0222,0228,023.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:33
S49	92	B65D21/0217,0219,0222,0228,023.cpc. and spring	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:33
S50	0	("2017/0121056").URPN.	USPAT	OR	OFF	2018/04/05 21:37
S51	4	("20110139777" | "5301829" | "5427265" | "8602217").PN.	US-PGPUB;	OR	OFF	2018/04/05 21:37

			USPAT; USOCR			
S52	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269" | "6082539" | "6371320" | "6874634" | "6889838" | "7387350" | "7516842").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:39
S53	2	("2012/0024739").URPN.	USPAT	OR	OFF	2018/04/05 21:43
S54	4	("2011/0168599").URPN.	USPAT	OR	OFF	2018/04/05 21:44
S55	22	("5699925" | "6959507" | "20090139892" | "3182856" | "20030155267" | "20080308641" | "3182856" | "5353948" | "3581928" | "4351448" | "20090178989" | "2634020" | "3387732" | "5755180" | "6761266" | "20050224494" | "7246718" | "5606820" | "20090236255" | "5469961").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:45
S56	237	206/501.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:46
S57	2	("2010/0219193").URPN.	USPAT	OR	OFF	2018/04/05 21:50
S58	72	("0879455" | "20040134390" | "20040178208" | "20060254946" | "20060254947" | "20080017650" | "20100219193" | "2695115" | "2849151" | "3103278" | "3117692" | "3383009" | "3391824" | "3407758" | "3419184" | "3481502" | "3616943" | "3754645" | "3756396" | "3759416" | "3811747" | "3916803" | "3926321" | "3968879" | "4287997" | "4618059" | "4655360" | "4765252" | "4832200" | "4848605" | "4889235" | "5054617" | "5203494" | "5392945" | "5404829" | "5454477" | "5641090" | "5718350" | "5769230" | "5779051" | "5974981" | "6021916" | "6085467" | "6186345" | "6237758" | "6308858" | "6371364" | "6446563" | "6457599" | "6585090" | "6622642" | "6662950" | "6698362" | "7163122" | "D236326" | "D333094" | "D361715" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:50

		"D446017" | "D500924").PN. OR ("8851287").URPN.				
S59	36	("20020096844" | "4066155" | "4813542" | "5099968" | "5564805" | "5906291" | "D439739").PN. OR ("6585090").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:52
S60	73	("20030029750" | "20030123965" | "20050072642" | "20050077136" | "20060119060" | "20070012694" | "20070068757" | "2497173" | "3061057" | "3452846" | "3532355" | "3572253" | "3650216" | "3861703" | "3891230" | "4081061" | "4118048" | "4122925" | "4350194" | "4621716" | "4657135" | "4693345" | "4738340" | "4792025" | "4813521" | "4951818" | "5038842" | "5048649" | "5109961" | "5142445" | "5178244" | "5186290" | "5197579" | "5339934" | "5373104" | "5379870" | "5407039" | "5447216" | "5484045" | "5484046" | "5632496" | "5713439" | "5890571" | "5927361" | "6073737" | "6116390" | "6164425" | "6213266" | "6401890" | "6520327" | "6585090" | "6634496" | "6758334" | "6976566" | "7077252" | "7232018" | "7380685" | "7398868" | "7726483" | "7780002" | "7942282" | "D294775" | "D453623").PN. OR ("8561769").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:53
S61	44	("20040007574" | "20050036847" | "20050199459" | "20070130731" | "20090178946" | "20120292867" | "3419184" | "3987829" | "4287997" | "4452555" | "5058746" | "5085448" | "5186330" | "5564805" | "5709008" | "5785328" | "6116390" | "6983946" | "7011214" | "7044528" | "7163122" | "7350789" | "7482928" | "7530580" | "7537119" | "7714708" | "7780026" | "7854321" | "7883096" | "7938412" | "8132819" | "8146771" | "8256242" | "8561769" | "8567796" | "D358765" | "D401412" | "D467424" | "D467425" | "D467426" | "RE44656").PN. OR ("9550605").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 21:59
S62	10	("20050199623" | "5765707" | "5829595" | "6024223" | "7337908").PN. OR ("8146771").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:03

S63	42	("0621601" | "2761582" | "3113690" | "3616943" | "3643993" | "3823973" | "3828964" | "3977558" | "4000704" | "4042111" | "4416374" | "4678084" | "4887731" | "5011036" | "5022546" | "5105967").PN. OR ("5186330").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:05
S64	74	("0879455" | "2849151" | "3005282" | "3371816" | "3393858" | "3481502").PN. OR ("3616943").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:08
S65	36	("1234730" | "20020145022" | "20030010799" | "20040207225" | "20090212584" | "2578238" | "2883764" | "3002650" | "3131829" | "3351228" | "3374914" | "3616943" | "4754883" | "4838745" | "4941784" | "5025964" | "5392945" | "5469999" | "5538153" | "5671511" | "5676251" | "5687895" | "5855310" | "6471278" | "7159730" | "7329451" | "7537119" | "D264014" | "D333094").PN. OR ("9738198").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:09
S66	75	("0879455" | "20040178208" | "20060254947" | "2695115" | "2849151" | "2939603" | "3103278" | "3117692" | "3383009" | "3391824" | "3419184" | "3481502" | "3616943" | "3754645" | "3756396" | "3759416" | "3811747" | "3968879" | "4287997" | "4655360" | "4671411" | "4765252" | "4832200" | "4848605" | "5042674" | "5203494" | "5392945" | "5454477" | "5566824" | "5641090" | "5718350" | "5769230" | "5779051" | "6021916" | "6085467" | "6186345" | "6237758" | "6308858" | "6367630" | "6371364" | "6457599" | "6585090" | "6662950" | "7163122" | "D333094" | "D361715" | "D446017" | "D500924").PN. OR ("7537119").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:10
S67	45	("0491865" | "1142932" | "1665238" | "20060016812" | "20070108080" | "20080264820" | "20100084119" | "3144016" | "3259263" | "3369691" | "3384259" | "3828964" | "4109789" | "4655360" | "4760921" | "4901380" | "5086926" | "5203494" | "5461755" | "5564583" | "5671856" | "5699925" | "5769230" | "6024223" | "6085467" | "6186345" | "6237758" | "6273258" | "6457599" | "6715627" | "6840378" | "6851566" | "7510096"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:11

		| "7537119" | "8056722" | "RE37518").PN. OR ("8813960").URPN.				
S68	32	("4506798" | "4626155" | "4741449" | "5109985" | "5123541" | "5190179" | "5722328" | "5862917").PN. OR ("6024223").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:12
S69	4	("1665238").URPN.	USPAT	OR	OFF	2018/04/05 22:15
S70	39	("2885135" | "3376046" | "3539071" | "3568879" | "3987829" | "4174950" | "4765252" | "4844263" | "D248015").PN. OR ("D333094").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:17
S71	53	("2761582" | "3117692" | "3360162" | "3379341" | "3392875" | "3419184" | "3675815" | "3759416" | "3979016" | "4093071" | "4106624" | "4189052" | "4379508").PN. OR ("4832200").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:19
S72	79	("3117692").URPN.	USPAT	OR	OFF	2018/04/05 22:22
S73	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:24
S74	13	("20060186186" | "20070209962" | "20080202976" | "2328689" | "2828059" | "3811566" | "4279354" | "4293071" | "6315126").PN. OR ("8684222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:25
S75	45	("1762635" | "2531671" | "2614399" | "3117692" | "3498494" | "3501044" | "3502241" | "3667647" | "3751852").PN. OR ("4279354").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:26
S76	110	("2457842" | "2483464" | "2664219" | "2702142" | "3073466" | "3130855" | "3140007" | "3586204" | "3828964").PN. OR ("4287997").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:30
S77	63	("2461526" | "3078484" | "3114486" | "3233803" | "3749294" | "3902640" | "3915189" | "4082208" | "4287997" | "4307826" | "4366922" | "4424841" | "4491258" | "4545414" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:33

		"4673070" | "4790432" | "4813542" | "4884731" | "5131576" | "5184763" | "5321904" | "5419473").PN. OR ("5628443").URPN.				
S78	151	("1409838" | "20010040080" | "20020074332" | "20020130005" | "20020185350" | "20030034215" | "20030034636" | "20040000457" | "20040004332" | "20040026199" | "20040074725" | "20040163910" | "20040211634" | "20040238303" | "20050077133" | "20050077706" | "20050098402" | "20050103590" | "20050150733" | "20050258621" | "20050285359" | "20060010644" | "20060086583" | "20060102677" | "20060163305" | "20060175170" | "20060196743" | "20060207848" | "20080060953" | "20080136133" | "20080223679" | "20080236972" | "20080308369" | "20080308370" | "20090057082" | "20090139813" | "20090160147" | "20090218187" | "20100000805" | "20100025174" | "20100095480" | "20100108452" | "20100147642" | "20100263977" | "20100307879" | "20100308563" | "20110247910" | "20120160617" | "20120261223" | "20150091264" | "20160045000" | "2454438" | "2602675" | "3131829" | "3178197" | "3317081" | "3659867" | "3842953" | "3891230" | "3974898" | "4087102" | "4314624" | "4335895" | "4575109" | "4588055" | "4673070" | "4917392" | "4953257" | "4969660" | "5072958" | "5105962" | "5127662" | "5263727" | "5310071" | "5348325" | "5533231" | "5628443" | "5630601" | "5749503" | "5803471" | "5815843" | "5873145" | "5984154" | "5984327" | "6016893" | "6042127" | "6047442" | "6141841" | "6179176" | "6182981" | "6186295" | "6196366" | "6196560" | "6213266" | "6213267" | "6237734" | "6260871" | "6279705" | "6289554" | "6305587" | "6360400" | "6367602" | "6401888" | "6401890" | "6409412" | "6454065" | "6471019" | "6474524").PN. OR ("6484362" | "6530507" | "6533086" | "6575493" | "6591950" | "6604617" | "6609271" | "6736073" | "6769701" | "6832670" | "6880685" | "6923352" | "6961976" | "6964420" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:34

		"7066311" | "7070190" | "7073694" | "7093700" | "7097181" | "7097183" | "7143912" | "7226073" | "7232018" | "7237660" | "7281616" | "7284304" | "7318507" | "7328779" | "7350648" | "7374183" | "7426985" | "7441785" | "7478803" | "7594569" | "7597341" | "7780026" | "8607947").PN. OR ("9888752").URPN.				
S79	6	("2008/0308369").URPN.	USPAT	OR	OFF	2018/04/05 22:35
S80	45	("0672173" | "1084360" | "20020144376" | "20040084269" | "20040173427" | "20040238241" | "20050077136" | "20050092568" | "20080308369" | "20090095588" | "20090101461" | "20100059322" | "20100170761" | "20100236886" | "20100270116" | "20110168507" | "20130037364" | "20130175129" | "20130213753" | "20130220754" | "2581417" | "4836343" | "5099968" | "5355980" | "5560458" | "5671832" | "5829559" | "5927450" | "5988334" | "6347693" | "6533086" | "6536568" | "7322477" | "7322585" | "7503569" | "7909149" | "8087513" | "D516869" | "D671316").PN. OR ("9027722").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:36
S81	35	("0922567" | "1084360" | "1567461" | "2372845" | "2428906" | "2801666" | "2858957" | "3837447" | "4098312" | "4122925" | "4142563" | "4257463" | "4286639" | "4673070" | "4744446").PN. OR ("4836343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:39
S82	51	("0778785" | "1567461" | "2372845" | "2428906" | "2989998" | "3631572" | "3696850" | "4122925" | "4128194" | "4256245" | "4424841").PN. OR ("4673070").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:40
S83	33	("0842498" | "1689399" | "3114486" | "3698045" | "4231135" | "4673070" | "4799298" | "4934573" | "5205448" | "5259093" | "5465425" | "5604958" | "5632071" | "5724707" | "5815843" | "6108816" | "7080430" | "7251867").PN. OR ("7526842").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:41

S84	23	("2428906" | "2707035" | "3225951" | "3319744" | "3696850" | "3958731").PN. OR ("4122925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:43
S85	33	("1973819" | "2007696" | "3373911").PN. OR ("4142563").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:46
S86	12	("2858957").URPN.	USPAT	OR	OFF	2018/04/05 22:48
S87	12	("20060071581" | "20080060964" | "2858957" | "3346137" | "3568879" | "4258847" | "4592601" | "4685565" | "4863222" | "7311202").PN. OR ("9724820").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S88	43	("2128854" | "3743372").PN. OR ("4863222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
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S92	55	("0511617" | "1890000" | "2492697" | "2557630" | "2807387" | "3203744" | "3283915" | "3514170" | "3743372" | "3758181" | "3918781" | "3999818" | "4026615" | "4056295" | "4120549").PN. OR ("4243279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:59
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		20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$).did. or (US-3117692-$ or US-2593998-$).did.				
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S120	550	A47B67/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:11
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S129	3	("3351366").URPN.	USPAT	OR	OFF	2018/04/06 18:39
S130	51	("1575270" | "20020170933" | "20030141329" | "20050247653" | "20060237509" | "20080142462" | "20080179370" | "20080185353" | "20090145789" | "20090145866" | "20140075650" | "20170266804" | "2290468" | "2546720" | "2763377" | "2964196" | "3145031" | "3536286" | "4264013" | "4923202" | "4932576" | "5395023" | "5511705" | "5722576" | "5881891" | "5971242" | "6213365" | "6666465" | "6698632" | "6874624" | "7090075" | "7322482" | "7686196" | "7699197" | "7726495" | "7762440" | "8267260" | "8510868" | "9038869" | "D163637" | "D165553" | "D328681").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:42
S131	18	("2715966" | "20050247653" | "4771897" | "5429252" | "5740927" | "5845792" | "5915573" | "6152312" | "6267338" | "6435357" | "6564949" | "6581788" | "6698603" | "6871749" | "7014052" | "7028854" | "7117998").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:43
S132	7	("20100314271" | "8991599" | "5799787" | "7686180" | "8695795" | "8991599" | "20100314271" | "5797508" | "3862689").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:46
S133	2	("20080236562" | "7723655").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:47
S134	6	(matthew near3 vargo).inv.	US-PGPUB;	OR	OFF	2018/04/06 18:49

			USPAT; USOCR			
S135	75	(Hoppe near2 Christopher).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S136	14	B65D25/2823.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S137	351	B65D25/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S138	73	(Milwaukee adj Electric).as. and (stack box)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:01
S139	8	(Milwaukee adj Electric).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02
S140	8	(Milwaukee and tool).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02
S141	84	(Milwaukee and tool).as. and latch	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:03
S142	37	(Milwaukee and tool).as. and (stack stacked stacking)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:04
S143	629	("1275862" | "20010022257" | "20020008125" | "20020014507" | "20020017752" | "20020043534" | "20020074332" | "20020084159" | "20020125160" | "20020162716" | "20020163284" | "20030034636" | "20030042091" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:04

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S144	325	B65D21/0212.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:09
S145	27	("4212415" | "4664283" | "4823955" | "4896926" | "5246105").PN. OR ("5544751").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:11
S146	44	("1699130" | "2072672" | "2551814" | "2633285" | "2736487" | "3010638" | "3361322" | "3623650" | "3632037" | "3713579" | "3905478" | "3905541" | "3921896" | "4002261" | "4023617" | "4187977" | "4230233" | "4245773" | "4251006" | "4277015" | "4291830" | "4389013" | "4482074" | "4643314" | "4685610" | "4762270" | "4763833" | "4828894" | "4884739" | "4911356" | "4948039" | "4993623" | "5038998" | "5116290" | "5190213").PN. OR ("5429260").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:12
S147	0	("1140005").URPN.	USPAT	OR	OFF	2018/04/06 19:30
S148	119	("1267650" | "1999162" | "3163268" | "3379482" | "3419184" | "3425471" | "3498689" | "3642168" | "3700137" | "3979016" | "3987829" | "4161261" | "4293073" | "4303158" | "4523692" | "4664347" | "4799503" | "4804092" | "4819795" | "4915913" | "4982863" | "4984687" | "5011013" | "5024471" | "5040834" | "5042674" | "5065885" | "5065887" | "5080250" | "5103994" | "5117979" | "5123564" | "5176281" | "5186330" | "5190152" | "5193706" | "5244265" | "5319937" | "D237135" | "D237611" | "D238148" | "D239695" | "D246872" | "D248280" | "D257934" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 20:05

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S149	62	("0198092" | "0564782" | "1063046" | "1268124" | "1740470" | "1987822" | "2011197" | "2094805" | "2122969" | "2504722" | "2759507" | "2786500" | "2791251" | "2799306" | "3018355" | "3615087" | "3746210" | "3851756" | "4061323" | "4239195" | "4256294" | "4278243" | "4303158" | "4378828" | "4460085" | "4909491" | "4911296" | "5011013" | "5117979" | "5193706" | "D253212" | "D263533" | "D288867").PN. OR ("5595228").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:03
S150	15	("2587829" | "2610761" | "2740517" | "4252239" | "4733703" | "5329929" | "5595228").PN. OR ("6206063").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:04
S151	6	("4466659" | "4967944" | "5207470" | "6193118" | "6554169" | "7000810").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38
S152	96	("1032326" | "1503894" | "1926162" | "2612200" | "2629644" | "2724595" | "2735597" | "2754079" | "2979190" | "3229946" | "3640423" | "3642168" | "3664704" | "3727971" | "3759416" | "3791547" | "3854621" | "3940009" | "3987829" | "4190281" | "4213539" | "4215896" | "4288011" | "4403786" | "4458570" | "4488669" | "4499998" | "4522326" | "4531774" | "4580827" | "4593816" | "4623071" | "4674665" | "D259413" | "D285673").PN. OR ("4967944").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38
S153	25	("2967080" | "2987358" | "4844305" | "4967944" | "5419476" | "5667115").PN. OR ("5988473").URPN.	US-PGPUB;	OR	OFF	2018/04/07 00:40

			USPAT; USOCR			
S154	10	("2987358").URPN.	USPAT	OR	OFF	2018/04/07 00:41
S155	4	("2009/0315285").URPN.	USPAT	OR	OFF	2018/04/07 00:46
S156	223	("5072918" | "5390943" | "5871219" | "6739605" | "0875476" | "6086073" | "4743040" | "6109628" | "1427388" | "20040129658" | "20050023786" | "20050057011" | "20060232033" | "20060237091" | "3472392" | "3999775" | "4699270" | "4786122" | "5072955" | "5743607" | "5876047" | "6123346" | "6545863" | "7232136" | "D396023" | "6497423" | "D153654" | "2155769" | "3313498" | "3870177" | "4391422" | "4763799" | "4923202" | "4998023" | "5509671" | "5915646" | "6073919" | "6095156" | "6170839" | "6264216" | "D188099" | "D460235" | "D461941" | "D469235" | "5921566" | "D415867" | "20030047895" | "20030218308" | "5183372" | "5275349" | "5465988" | "5913528" | "6276471" | "6752281" | "7114733" | "7134673" | "7144020" | "4743040" | "3379431" | "4457527" | "5316232" | "5566961" | "6572123" | "D153654" | "D415867" | "6497423" | "D485037" | "20060066064" | "3698735" | "3908749" | "4895068" | "6138558" | "6251113" | "6267080" | "6471010" | "6497424" | "7207449" | "4901937" | "5308012" | "6270094" | "D463646" | "D474570" | "D485410" | "5921566" | "D273242" | "D474570" | "1149639" | "2413164" | "2575661" | "2819908" | "20050001395" | "20060006621" | "20060157944" | "4099735" | "4688860" | "5048857" | "5224531" | "5452908" | "7017603" | "7156475" | "7204374" | "7296808" | "5887878" | "1126544" | "2705114" | "20050280228" | "20050284697" | "5285981" | "6116533" | "D302064" | "D361187" | "D381168" | "D424321" | "D487604" | "D504000" | "D469235" | "1200008" | "1471446" | "1562089" | "2623642" | "2845780" | "20010045718" | "20020084607" | "20020096844" | "20060076306" | "3965969" | "4138504" | "4165088" | "4373761" | "4880248" | "6539831" | "7044569" | "5154544" | "20040065989" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:50

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S158	31	("0783059" | "2878928" | "3245528" | "3319685" | "3386607" | "3605374" | "3835992" | "3992810" | "4320846" | "4627595" | "4799590" | "4890741" | "5135823" | "5370255").PN. OR ("5676274").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:50
S159	26	("1101357" | "1149266" | "1862868" | "2702116" | "3145871" | "4154362" | "4503955" | "4705316" | "4896926" | "4998616").PN. OR ("5415255").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:53
S160	37	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" | "5060851" | "5117979").PN. OR ("5325966").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:55

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		8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$ or US-7451578-$ or US-6122879-$ or US-3526420-$ or US-2740167-$ or US-9803375-$ or US-9663940-$ or US-7841144-$ or US-9616562-$ or US-5544751-$ or US-5429260-$ or US-7946609-$ or US-6578708-$ or US-6176559-$ or US-5927837-$ or US-5564805-$ or US-5595228-$ or US-6206063-$ or US-7000810-$ or US-4967944-$ or US-5988473-$).did. or (US-6641013-$ or US-2987358-$ or US-4576423-$ or US-4756394-$ or US-4896926-$ or US-5325966-$ or US-5697500-$ or US-6467681-$).did. or (US-3117692-$ or US-2593998-$).did.				
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S165	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S166	27	S164 not S165	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S167	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/21 18:13
S168	56	("1932429" | "20060016811" | "20060070906" | "20060237341" | "20070080089" | "20080110190" | "20080112782" | "20080121253" | "20080128414" | "20090178989" | "20090184021" | "20110139665" | "2178091" | "2259041" | "5271515" | "5429260" | "5531517" | "5544751" | "5549241" | "5860527" | "6062388" | "6581772" | "6880705" | "6991106" | "7044483" | "7063210" | "7516854" | "7661549" | "8342329" | "8640871" | "8973811" | "8997993" | "9056694" | "9101212" | "D277532" | "D277723" | "D277819" | "D347130" | "D385306" | "D406478" | "D470641" | "D529755" | "D538571" | "D543030" | "D589723" | "D590021" | "D645902" | "D654726" | "D664034" | "D689718" | "D709716" | "D773217" | "D781625").PN. OR ("D815471").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:13
S169	5	(("20160144500") or ("0784114") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:16
S170	4	(("20160144500") or ("7841144") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17
S171	554	("0124228" | "0213740" | "0714987" | "0753791" | "1124228" | "1194636" | "1371856" | "1407679" | "1454250" | "1468288" | "1477813" | "1510924" | "1540128" | "1575821" | "1602256" | "1602267" | "1615096" | "1622103" | "1622104" | "1637634" | "1644710" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17

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S174	1351	E04F2201/0146,023,05.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:26
S175	514	B25H3/02.cpc.	USPAT	OR	OFF	2018/11/21 18:45
S176	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S177	165	B25H3/021.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45

S178	0	("2018/0213934").URPN.	USPAT	OR	OFF	2018/11/21 18:46
S179	369	A47B88/90.cpc.	USPAT	OR	OFF	2018/11/21 18:46
S180	81	A47B2210/19.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:47
S181	29	("2614016" | "2676080" | "3001564" | "3079037" | "3974898" | "4040538" | "4119204" | "4239309" | "4287997" | "4293072" | "4865404" | "5190156").PN. OR ("5407074").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:50
S182	27	("0224486" | "1472676" | "2975930" | "3159436" | "3424334" | "3506321" | "3584738" | "3737031" | "4155452").PN. OR ("4293072").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:51
S183	48	("3506321").URPN.	USPAT	OR	OFF	2018/11/21 18:54
S184	46	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:56
S185	520	B65D21/0204.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:01
S186	868	A47B87/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S187	2232	312/107,111.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S188	703	A47B88/90.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:15

S189	50	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:23
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S191	45	("1223455" | "2123803" | "2704699" | "3272581" | "3316045" | "3796474" | "4155611" | "4505526" | "4577773" | "4848588" | "5205595" | "5246105" | "5299688" | "5344226" | "5358321" | "5426885").PN. OR ("5603559").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:27
S192	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" | "3758181").PN. OR ("5246105").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:28
S193	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269" | "6082539" | "6371320" | "6874634" | "6889838" | "7387350" | "7516842").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:02
S194	75	("0440957" | "1933637" | "2511949" | "2789828" | "2981549" | "3055723" | "3349924" | "3379482" | "3891230" | "3905662").PN. OR ("4118048").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:03
S195	45	("0273398" | "0325555" | "0825642" | "0953715" | "0953815" | "1143711" | "1365098" | "1495046" | "1611034" | "2055657" | "2565969" | "2714433" | "3828899" | "3891230" | "3974898" | "3987875" | "4066155" | "4118048" | "4139084" | "4202586" | "4389078" | "4693345").PN. OR ("4813521").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:04
S196	29	("2472491" | "2925283" | "3057636").PN. OR ("3891230").URPN.	US-PGPUB;	OR	OFF	2018/11/21 20:05

			USPAT; USOCR			
S197	143	("0344661" | "0687619" | "1424819" | "20010052681" | "20020014488" | "20020067027" | "20020074905" | "20020113386" | "20020185831" | "20030001348" | "20030146589" | "20040265104" | "20050062244" | "20050104308" | "20050258610" | "20050275178" | "20060006619" | "20060012139" | "20060038367" | "20070080512" | "20070194543" | "20070273114" | "20080084036" | "20080121547" | "20080128305" | "20080143069" | "20090020528" | "20090026901" | "20090096181" | "20090309323" | "20100052276" | "20100290877" | "20100327562" | "20110049824" | "20110181008" | "20120160886" | "20120326406" | "20140001719" | "20140023221" | "20140375181" | "2554091" | "2588830" | "2901262" | "2964328" | "3168329" | "3393951" | "3734526" | "3804432" | "3891230" | "3990653" | "4169607" | "4363496" | "4448434" | "4619363" | "4884689" | "4936594" | "4984704" | "5104135" | "5123666" | "5207723" | "5333885" | "5362078" | "5378005" | "5464104" | "5474312" | "5595395" | "5626352" | "5634649" | "5720535" | "5799958" | "5845915" | "5906381" | "5913527" | "5931483" | "5934466" | "5938396" | "6000713" | "6050660" | "6079719" | "6082539" | "6109627" | "6113129" | "6123344" | "6131926" | "6135466" | "6176559" | "6254112" | "6347847" | "6357063" | "6371320" | "6394471" | "6398235" | "6474930" | "6561528" | "6601930" | "6616152" | "6659476" | "6666465" | "6874634" | "6889838" | "6945546" | "7063339" | "7066475" | "7108131" | "7168715" | "7188846" | "7188847" | "7210689" | "7263742" | "7328905" | "7367571" | "7500681").PN. OR ("7503569" | "7686260" | "7703776" | "7819407" | "7823893" | "7845653" | "7883096" | "7905502" | "7938412" | "8132819" | "8226092" | "8567796" | "8657307" | "8668209" | "9132543" | "D437484" | "D542496" | "D640869"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05

		| "D653832" | "D654241").PN. OR ("9566990").URPN.				
S198	18	("2042387" | "2528872" | "3401420" | "3891230" | "4989291" | "5915438" | "6230361" | "7000287").PN. OR ("7263742").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:07
S199	37	("5013055" | "5207723" | "5378005").PN. OR ("5799958").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:08
S201	2395	280/47.26,47.28,652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:09
S202	1975	280/47.26,47.28.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S203	518	280/652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S204	1	"15826201"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 00:33
S205	12	(US-0271616-$ | US-0320243-$ | US-1276744-$ | US-1477050-$ | US-15826201-$ | US-20080308369-$ | US-3616562-$ | US-3875888-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:39
S206	2	(("8875888") or ("9616562") or ("20080308369")).PN.	USPAT; USOCR	OR	OFF	2018/11/22 03:40
S207	3	(("8875888") or ("9616562") or ("20080308369")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:40
S208	64	("20020113387" | "20070194543" | "20080079227" | "20080084036" | "20110049824" | "3522955" | "4118048" |	US-PGPUB;	OR	OFF	2018/11/22 19:37

		"4119044" | "4281843" | "5176281" | "5193706" | "5244265" | "5378005" | "5634649" | "5641170" | "5680932" | "5799958" | "5906381" | "5938396" | "5950828" | "6131926" | "6170839" | "6176559" | "6264220" | "6347847" | "6371320" | "6601930" | "6761366" | "6817623" | "7367571" | "7467801" | "7503569" | "7628406" | "7845653" | "7883096" | "7938412" | "D404916" | "D437484" | "D462168" | "D462170").PN. OR ("8132819").URPN.	USPAT; USOCR			
S209	269	("20020014507" | "20020043534" | "20020074332" | "20020125160" | "20030075468" | "20040112777" | "20050109650" | "20060017293" | "20060124505" | "20060144732" | "20060201834" | "20070137960" | "20070194543" | "20070241113" | "20080017537" | "20080035508" | "20080035510" | "20080067206" | "20080152944" | "20080164842" | "20080169739" | "20080230416" | "20090080809" | "20090211932" | "20090236810" | "20090250365" | "20100012538" | "20100012655" | "20100033325" | "20100224527" | "20100258465" | "20110084075" | "20110094910" | "20110132046" | "20110174648" | "20110268374" | "20120018330" | "20120152944" | "20120206907" | "20120257379" | "20120267374" | "20120292213" | "20120312708" | "20120317933" | "20120318792" | "20120326406" | "20120326669" | "20130007979" | "20130186795" | "20140102928" | "2125856" | "2145143" | "2799306" | "2883184" | "3177023" | "3259411" | "3394955" | "3817419" | "3851756" | "3924844" | "4105112" | "4278187" | "4353182" | "4890414" | "5042193" | "5165148" | "5295742" | "5379887" | "5386907" | "5429287" | "5470000" | "5501379" | "5518139" | "5562208" | "5580137" | "5595228" | "5620212" | "5660276" | "5672145" | "5732987" | "5755311" | "5762411" | "5915553" | "5915554" | "5924533" | "6006906" | "6015064" | "6038747" | "6073766" | "6081695" | "6082538" | "6167680" | "6176559" | "6203075" | "6206063" | "6213296" | "6230887"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:39

		| "6244485" | "6244486" | "6343708" | "6343815" | "6347847" | "6371320" | "6405864" | "6415924" | "6478463" | "6502882" | "6527309").PN. OR ("6533138" | "6561402" | "6614337" | "6622856" | "6675965" | "6675967" | "6695142" | "6698609" | "6722524" | "6755302" | "6755448" | "6761366" | "6789670" | "6860059" | "6915902" | "6955381" | "6978890" | "7008031" | "7021637" | "7048133" | "7108131" | "7121407" | "7158376" | "7225923" | "7228983" | "7237673" | "7237688" | "7246704" | "7316309" | "7322470" | "7326428" | "7334680" | "7357250" | "7357268" | "7367451" | "7370891" | "7401698" | "7401700" | "7418846" | "7540364" | "7552560" | "7552950" | "7600640" | "7661530" | "7837053" | "7845653" | "7854321" | "7874328" | "7883096" | "7938412" | "7984820" | "8056943" | "8061536" | "8132819" | "8152037" | "8191910" | "8210387" | "8267245" | "8267247" | "8272628" | "8327576" | "8328247" | "8376177" | "8434617" | "8469195" | "8505729" | "8657307" | "D259154" | "D272203" | "D309981" | "D326815" | "D333215" | "D333487" | "D347731" | "D355849" | "D368159" | "D370619" | "D374772" | "D375834" | "D377118" | "D378247" | "D385110" | "D386903" | "D390358" | "D402106" | "D405956" | "D414038" | "D418977" | "D437684" | "D447340" | "D447630" | "D448162" | "D449442" | "D449738" | "D451275" | "D452071" | "D453624" | "D455263" | "D459073" | "D462168" | "D465923" | "D467070" | "D470659" | "D471360" | "D472774" | "D480867" | "D505548" | "D509656" | "D516310" | "D516808" | "D516812" | "D520746" | "D563669" | "D572479" | "D572480" | "D588811" | "D589703" | "D599112" | "D600015" | "D600912" | "D601797" | "D605403" | "D608094" | "D609911" | "D609913").PN. OR ("D616200" | "D618911" | "D624317" | "D627968" | "D629607" | "D630435" | "D630851" | "D635769" | "D636996" | "D637812" | "D639554" | "D641552" | "D647301" | "D648532" | "D648533" | "D649350" | "D649783" | "D661858" | "D661903" | "D664354" | "D668867" | "D668868" |			

		"D668869" | "D670500" | "D672555" | "D673774" | "D701696" | "D744750" | "D750890").PN. OR ("9539722").URPN.				
S210	15	("2007/0194543").URPN.	USPAT	OR	OFF	2018/11/22 19:40
S211	56	("1478913" | "20010035704" | "20050159784" | "20050269792" | "20060006621" | "20060144732" | "20070194543" | "20070235959" | "20080128305" | "20090301913" | "20100289236" | "20100295430" | "20110127736" | "20120292870" | "20130118818" | "3861703" | "3874531" | "4435115" | "4726602" | "4822116" | "4846485" | "4858940" | "4976450" | "4993551" | "5174447" | "5378005" | "5452908" | "5573089" | "5743607" | "5799958" | "5893572" | "6027128" | "6170839" | "6439585" | "6446987" | "6702168" | "6935641" | "6945546" | "7044569" | "7083174" | "7314134" | "7328905" | "7431313" | "7434819" | "7503569" | "7661685" | "7905502" | "8226092" | "8376376" | "8668209" | "D182716").PN. OR ("8915504").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:40
S212	2	("2012/0292870").URPN.	USPAT	OR	OFF	2018/11/22 19:41
S213	52	("6264083" | "6666362" | "7204374" | "20120247044" | "4249684" | "6264220" | "6935641" | "7048320" | "7165702" | "20040194333" | "20040251227" | "20070210021" | "20100300996" | "20120199708" | "4944416" | "7487981" | "6615973" | "6786374" | "20070137532" | "5628534" | "7017254" | "6932406" | "20040051016" | "20050006539" | "20080296245" | "7740329" | "20060021985" | "5913380" | "6736265" | "20020100396" | "20120131872" | "3610429" | "6629654" | "4535897" | "6581920" | "20110107704" | "0332360" | "5406894" | "6474245" | "20050269792" | "5582269" | "20070012636" | "5687856" | "5899544" | "6247720" | "6814362" | "20040222176" | "20110168651" | "4630739" | "4961295" | "5730414").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:46

S214	39	("2320387" | "3052484" | "3179270" | "3734526" | "4281843" | "4363496" | "4790549" | "5464104" | "5465987" | "5474312" | "5595395" | "5671933").PN. OR ("6131926").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 23:52
S215	1	"12736715"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:36
S216	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/23 01:36
S217	20	("2807387" | "20060220503" | "3219400" | "3424334" | "4293072" | "4643494" | "4782619" | "4996628" | "5184726" | "5246105" | "5427394" | "5544751" | "5699925" | "5901998" | "5924778" | "6367631" | "6983946").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:37
S218	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" | "3758181").PN. OR ("5246105").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:38
S219	13	("3379482").URPN.	USPAT	OR	OFF	2018/11/23 02:28
S220	0	("2012/0152800").URPN.	USPAT	OR	OFF	2018/11/23 02:30
S221	12	("20080060964" | "3568879" | "4592601" | "4685565" | "20060071581" | "4258847" | "4863222" | "2858957" | "7311202" | "3346137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:30
S222	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S223	140	S222 and (snap)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S224	67	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:36

		20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20150274362-$ or US-20110073516-$ or US-20090193748-$ or US-20080134607-$ or US-20080104921-$ or US-20180313094-$ or US-20180213934-$ or US-20150102717-$ or US-20180161975-$ or US-20140305829-$).did. or (US-20120312812-$ or US-20180290288-$ or US-20180162592-$ or US-20170239808-$ or US-20170121056-$ or US-20130127129-$ or US-20060038367-$ or US-20160114822-$ or US-20080308369-$ or US-20080169739-$ or US-20120292870-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$ or US-5429260-$ or US-7841144-$ or US-5407074-$ or US-4293072-$ or US-3506321-$ or US-3974898-$ or US-6109707-$ or US-4423687-$ or US-9872562-$ or US-6547347-$ or US-4619363-$ or US-4118048-$ or US-3891230-$ or US-9566990-$).did. or (US-5799958-$ or US-9616562-$ or US-5184726-$).did. or (US-2430200-$).did.				
S225	3	("20080308369" | "8875888" | "9616562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
S226	28	(US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20110139665-$).did. or (US-9506489-$ or US-9132543-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5628443-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2018/11/23 14:37

S227	37	S224 not (S225 S226)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
S228	1	"20170174392".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:54
S229	14	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-20080169739-$ or US-20080134607-$ or US-20080104921-$ or US-20060038367-$).did. or (US-9872562-$ or US-9566990-$ or US-7841144-$ or US-6547347-$ or US-5429260-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 21:07
S230	6	(("20120228074") or ("20120152800") or ("20170318927") or ("20110220531") or ("20110073516") or ("7841144")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:31
S231	5	("20040163913" | "20050199459" | "20100147642" | "20120228074" | "20120312812").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:33
S232	14	("1299291" | "1643397" | "2706036" | "3811562" | "4020930" | "4790417" | "5671830" | "0758019" | "D135357").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:35
S233	325	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:40
S234	0	("2018/0161975").URPN.	USPAT	OR	OFF	2019/02/20 19:42
S235	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:57

S236	16	("20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "20170174392" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S237	14	("20050139745" | "20080277221" | "20090145790" | "20100147642" | "20110073516" | "20110181008" | "20130121783" | "20170318927" | "20180044059" | "20190002004" | "5608603" | "6637707" | "8177463" | "9701443").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S238	33	S235 S236 S237	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S239	932	A45C5/14.cpc.	USPAT	OR	OFF	2019/02/20 20:01
S240	28	B65D21/00.cpc.	USPAT	OR	OFF	2019/02/20 20:01
S241	8	(US-20080134607-$ or US-20080104921-$ or US-20060038367-$ or US-20120228074-$).did. or (US-9872562-$ or US-7841144-$ or US-6547347-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:58
S242	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:59
S243	1	S241 not S242	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:59
S244	8	(US-20080134607-$ or US-20080104921-$ or US-20060038367-$ or US-20120228074-$).did. or (US-9872562-$ or US-7841144-$ or US-6547347-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S245	26	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-	US-PGPUB;	OR	OFF	2019/02/20 23:00

		20080169739-$ or US-20170318927-$ or US-20120152800-$ or US-20110220531-$ or US-20110073516-$ or US-20070012694-$ or US-20190039781-$ or US-20190002004-$ or US-20060006770-$ or US-20170166352-$).did. or (US-9566990-$ or US-5429260-$ or US-5890613-$ or US-5099968-$ or US-4693345-$ or US-3319744-$ or US-9108764-$ or US-9701443-$ or US-3974898-$ or US-3506321-$).did.	USPAT; USOCR			
S246	19	S245 not S242	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S247	1	"20170166352".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:25
S248	1	"20180161975"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:28
S278	0	"20011012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:51
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EAST Search History (Interference)

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Bibliographic Data

Application No: 15/826,232

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☑ Met After Allowance

Verified and Acknowledged: /GIDEON R WEINERTH/ (Examiner's Signature) G.R.W (Initials)

Title: UTILITY ASSEMBLY AND COUPLING MECHANISM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/29/2017	206	3736	55390-501C01US
RULE			

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Steven W. Hyma Milwaukee, WI, UNITED STATES

CONTINUING DATA

This application is a CON of PCT/IL2017/050481 04/30/2017

PCT/IL2017/050481 has PRO of 62459076 02/15/2017

PCT/IL2017/050481 has PRO of 62330334 05/02/2016

FOREIGN APPLICATIONS

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

30623 7590 04/24/2020

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	

ART UNIT	PAPER NUMBER
3736	

NOTIFICATION DATE	DELIVERY MODE
04/24/2020	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPDocketingBOS@mintz.com
IPFileroombos@mintz.com
mintzdocketing@cpaglobal.com

Letter Withdrawing a Notice Requiring Inventor's Oath or Declaration	Application No. 15/826,232	Applicant(s) Brunner et al.

The Notice Requiring Inventor's Oath or Declaration mailed on 17 April 2020 was sent in error, and is hereby withdrawn. The time period set forth in the Notice of Allowance and Fee(s) Due to file a reply and pay the required fees continues to run from the mailing date of the Notice of Allowance and Fee(s) Due. Any time period set forth in the Notice of Allowability continues to run from the mailing date of the Notice of Allowability.

Questions relating to this Notice should be directed to the Application Assistance Unit at 571-272-4200.

/Brian Broadfoot/
Office of Data Management, Art Unit 3974
571-272-4200 or 1-888-786-0101
Patent Publication Branch
Office of Data Management

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	15/826,232	Filing Date	2017-11-29	Docket Number (if applicable)	55390-501C01US	Art Unit	3736
First Named Inventor	Yaron Brunner			Examiner Name	Weinerth, Gideon R.		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☐ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☒ Other Cited References

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 50-0311

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

X Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-04-24
Name	Elissa M. Kingsland	Registration Number	63259

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	
Yaron Brunner et al.	Allowed: April 17, 2020
Application No.: 15/826,232	Confirmation No.: 1070
Filed: November 29, 2017	Art Unit: 3736
For: UTILITY ASSEMBLY AND COUPLING MECHANISM	Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement, pursuant to 37 C.F.R. § 1.114(c), accompanies the Request for Continued Examination (37 C.F.R. § 1.114) submitted herewith.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted. Applicant submits herewith copies of non-patent literature in accordance with 37 CFR 1. 98(a)(2).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: April 24, 2020

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111
(617) 542-6000
Attorney for Applicant

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2597
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PTO/SB/08a (02-18)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	15826232
Filing Date	2017-11-29
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	G. R. Weinerth
Attorney Docket Number	55390-501C01US

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	D871013	S1	2019-12-24	Liu	
	2	D828671	S1	2018-09-11	Cope et al.	
	3	D456972	S1	2002-05-07	Blason et al.	
	4	D437669	S1	2001-02-13	Blason et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20200055534	A1	2020-02-20	Hassell	
	2	20190031222	A1	2019-01-31	Takyar et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

	3	20170349013	A1	2017-12-07	Grönholm	
	4	20130154218	A1	2013-06-20	Tiilikainen	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Milwaukee Dolly, announced 2019 (online), (site visited 3/9/2020). Available from internet, URL: https://www.zoro.com/milwaukee-tool-box-dolly-7-4164-h-18-2932-w-48-22-8410/i/G3958724/ (Year: 2019)	
	2	Wheel board, announced 2019 (online), (site visited 3/09/2020). Available from internet, URL: https://www.gearooz.com accu-case-aca-wheel-board (Year: 2019)	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-04-24
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	15826232
Filing Date:	29-Nov-2017
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Filer:	Elissa Marie Kingsland/Dahlia Griffin
Attorney Docket Number:	55390-501C01US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	1820	1	1900	1900
		Total in USD ($)		**1900**

Electronic Acknowledgement Receipt	
EFS ID:	39261643
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	24-APR-2020
Filing Date:	29-NOV-2017
Time Stamp:	16:40:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1900
RAM confirmation Number	E20204NG41118093
Deposit Account	500311
Authorized User	Elissa Kingsland
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	55390-501C01US-RCE.pdf	1365957 a9bced97ea4deb19564881e061c2cc0707c95d30	no	3
Warnings:					
Information:					
2	Transmittal Letter	55390-501C01US-IDS.pdf	101027 0b151a4548be99f6c0a0c4db7654bf0a56dd7bdb	no	2
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	55390-501C01US-SB08.pdf	1181257 92b03ed712ad64a836706cb315858e9a7334b12c	no	5
Warnings:					
Information:					
4	Non Patent Literature	Milwaukee-Dolly_NPL.pdf	54141 c8e276bf8ba32dd06fb3d9079523691e8594fad8	no	2
Warnings:					
Information:					
5	Non Patent Literature	Wheel-Board_NPL.pdf	240009 e9c2e918f1c27504e3d3f15a745b6743571010e9	no	2
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	30493 4631ebbb5b51f43f61360c1b47cb3b3bc41769d4	no	2
Warnings:					
Information:					

Total Files Size (in bytes):	2972884

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Application Number	15826232
Filing Date	2017-11-29
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	G. R. Weinerth
Attorney Docket Number	55390-501C01US

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20140076759	A1	2014-03-20	Roehm et al.	
	2	20150274362	A1	2015-10-01	Christopher et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	202014103695	DE	U1	2014-12-11	METABOWERKE GMBH		X
	2	3009995990000	KR		2019-03-27	KOREA CONTAINER POOL CO., LTD.		☒

EFS Web 2.1.18

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

	3	3008812960000	KR		2016-11-15	NPC CO., LTD.		☒
	4	3008599650000	KR		2016-06-22	NPC CO., LTD.		☒
	5	3008422360000	KR		2016-03-02	NPC CO., LTD. HYUNDAI GLOVIS CO., LTD.		☒
	6	204161752	CN	U	2015-02-18	MERIDIAN INT. CO., LTD.		☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-05-01
Name/Print	Elissa M. Kingsland	Registration Number	63,259

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Abstract of DE201420103695U

A stackable container

The invention relates to a stackable container (100) with a base part (1) and a cover (2) which can be pivoted about an axis A on the base part (1), the base part (1) having at least one base for projecting the container has a base or on a cover (2 ') of a further, similar container (100') and wherein the container (100) has at least one separate support element (11) which, when the first container (100) is placed on the further container (100 ') engages in an engagement structure of the further container (100') and thereby inhibits a displacement of the first (100) against the second container (100 ') in at least one direction vertical to the stacking direction. The support element is designed such that there is no mechanical contact between the support element and the surface when the container (100) is placed on a flat surface.

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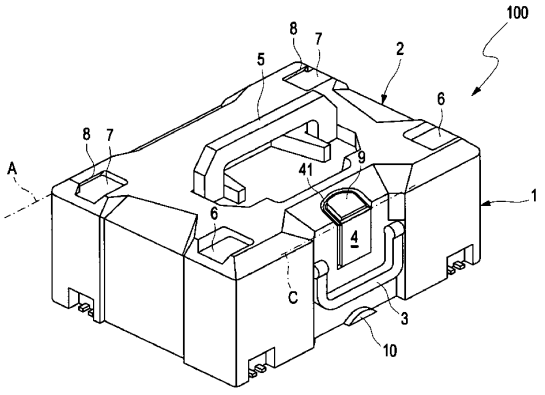
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Die folgenden Angaben sind den vom Anmelder eingereichten Unterlagen entnommen

(54) Bezeichnung: **Stapelbarer Behälter**

(57) Hauptanspruch: Stapelbarer Behälter (100) mit einem Bodenteil (1) und einem an dem Bodenteil (1) um eine Achse A schwenkbaren Deckel (2), wobei das Bodenteil (1) mindestens einen Standfuß zum Abstellen des Behälters auf einem Untergrund oder auf einem Deckel (2') eines weiteren, gleichartigen Behälters (100') aufweist und wobei der Behälter (100) mindestens ein separates Stützelement (11) aufweist, welches beim Abstellen des ersten Behälters (100) auf dem weiteren Behälter (100') in eine Eingriffsstruktur des weiteren Behälters (100') eingreift und dadurch eine Verschiebung des ersten (100) gegen den zweiten Behälter (100') in mindestens einer Richtung vertikal zur Stapelrichtung hemmt, dadurch gekennzeichnet, dass das Stützelement derart ausgebildet ist, dass sich beim Abstellen des Behälters (100) auf einem ebenen Untergrund kein mechanischer Kontakt zwischen dem Stützelement und dem Untergrund ergibt.



Beschreibung

[0001] Die Erfindung betrifft einen stapelbaren Behälter nach dem Oberbegriff des Anspruchs 1. Derartige Behälter können beispielsweise zur Aufnahme von Elektrohandwerkzeugen oder auch von Verbrauchsmaterialien im Handwerks-Umfeld Verwendung finden. Insbesondere auf Baustellen wird oftmals eine Vielzahl unterschiedlicher Werkzeuge wie Stichsägen, Akkuschraubern, Bohrhämmern oder Handkreissägen verwendet, welche in der Regel jeweils zunächst in ein Fahrzeug verladen, dann an die jeweilige Baustelle transportiert und nachfolgend an ihren jeweiligen Einsatzort auf der Baustelle – oder einen dort vorgesehenen temporären Lagerraum, bspw. einen abschließbaren Container o. ä., gebracht werden müssen. Hierzu hat es sich in der Vergangenheit als vorteilhaft herausgestellt, die Behälter derart auszuführen, dass sie aufeinander stapel- und gegebenenfalls auch arretierbar sind. Auf diese Weise lassen sich Verbünde gleichartiger Behälter bilden, welche auf einfache Weise gemeinsam transportiert und gestapelt gelagert werden können.

[0002] Ein entsprechender Behälter ist in dem Europäischen Patent EP 2 313 321 B1 beschrieben. Die in der genannten Schrift offenbarte Anordnung zeichnet sich insbesondere dadurch aus, dass mindestens zwei Behälter derart gestapelt werden, dass zwei vordere und zwei hintere Standfüße eines oberen Behälters in entsprechende Ausnehmungen eines unteren Behälters eingreifen und die beiden hinteren Standfüße derart mit den hinteren Ausnehmungen im Deckel des unteren Behälters zusammenwirken, dass sich eine Scharnierwirkung ergibt und der obere Behälter auf dem unteren Behälter dadurch abgestellt werden kann, dass zunächst der obere Behälter – vorne leicht angehoben – mit seinen hinteren Standfüßen in die entsprechenden Ausnehmungen im Deckel des unteren Behälters eingesetzt wird und nachfolgend der vordere Teil des oberen Behälters durch Verschwenken um die derart gebildete Schwenkachse auf den vorderen Teil des unteren Behälters abgesenkt wird. Dabei gelangen die als Zentrierelemente ausgebildeten vorderen Standfüße des oberen Behälters in Eingriff mit den entsprechenden Ausnehmungen im Deckel des unteren Behälters und sichern damit den oberen Behälter gegen Verrutschen. Die Doppelfunktionalität der vorderen Stand/Zentrierfüße hat jedoch unter anderem den Nachteil, dass die üblicherweise mechanisch erheblich beanspruchten Standfüße mit der Zeit einem gewissen Verschleiß oder Beschädigungen unterliegen. In diesem Fall kann es zu Situationen kommen, in welchen die gewünschte Zentrierfunktionalität nicht mehr gewährleistet ist.

[0003] Daneben zeigt die genannte Schrift einen Drehverschluss an der vorderen Stirnseite des Behälters, welcher wahlweise zur Arretierung zweier Behälter gegeneinander oder auch lediglich zum Verschließen eines Behälters verwendet werden kann. Bedingt durch die konstruktive Ausführung des Drehverschlusses kann jedoch durch diesen lediglich eine begrenzte Vorspannung aufgebracht werden, so dass ein zuverlässiges Verschließen eines Behälters bzw. ein sicheres Arretieren zweier Behälter gegeneinander nicht immer gegeben ist.

[0004] Ausgehend von dem oben dargestellten Stand der Technik stellt sich die vorliegende Erfindung die Aufgabe, einen Behälter anzugeben, der über mechanisch robuste Vorrichtungen zum Zentrieren gegenüber gleichartigen Behältern verfügt und der zuverlässig verschließ- bzw. mit anderen Behältern arretierbar ist.

[0005] Diese Aufgabe wird durch die Vorrichtungen mit den in den unabhängigen Ansprüchen aufgeführten Merkmalen gelöst. Die Unteransprüche betreffen vorteilhafte Ausführungsformen und Varianten der Erfindung.

[0006] Der erfindungsgemäße stapelbare Behälter zeigt ein Bodenteil und einen an dem Bodenteil um eine Achse A schwenkbaren Deckel, wobei das Bodenteil mindestens einen Standfuß zum Abstellen des Behälters auf einem Untergrund oder auf einem Deckel eines weiteren, gleichartigen Behälters aufweist. Weiterhin weist der Behälter mindestens ein separates Stützelement auf, welches beim Abstellen des ersten Behälters auf dem weiteren Behälter in eine Eingriffsstruktur des weiteren Behälters eingreift und dadurch eine Verschiebung des ersten gegen den zweiten Behälter in mindestens einer Richtung vertikal zur Stapelrichtung hemmt. Dabei ist das Stützelement derart ausgebildet, dass sich beim Abstellen des Behälters auf einem ebenen Untergrund kein mechanischer Kontakt zwischen dem Stützelement und dem Untergrund ergibt.

[0007] Mit anderen Worten dient das Stützelement ausschließlich dazu, den oberen Behälter gegenüber dem unteren Behälter in der Weise abzustützen, dass ein Verrutschen oder Verschieben der beiden Behälter gegeneinander in eine Raumrichtung vertikal zur Stapelrichtung der Behälter, also der Vertikalrichtung, spätestens an einem festgelegten Punkt gehemmt bzw. unterbunden wird. Eine Funktionalität des Stützelementes als Standfuß ist nicht vorgesehen. Durch diese erfindungsgemäße Maßnahme wird vermieden, dass das Stützelement einer erhöhten mechanischen Belastung und damit der Gefahr einer Beschädigung ausgesetzt ist. Darüber hinaus ergeben sich für die Gestaltung der Unterseite des Stützelementes, also derjenigen Seite, die beim Stapeln zweier Behälter aufeinander dem unteren der beiden Behälter zugewandt ist, neue Gestaltungsmöglichkeiten. Insbesondere kann die Unterseite des Stützelementes offen gestaltet werden, da das Erfordernis ei-

ner Standfläche auf der Unterseite des Stützelementes entfällt.

[0008] Wenn das Stützelement in einem Bodenteil des Behälters angeordnet ist, kann dadurch, dass die Unterseite des Stützelementes gegenüber derjenigen Ebene, in welcher die Unterseiten mindestens dreier Standfüße liegen, um 3 bis 5 mm, insbesondere um 4 mm zurückgesetzt ausgebildet ist, ein besonders effizienter Schutz des Stützelementes vor mechanischer Beanspruchung bei gleichzeitiger Aufrechterhaltung der gewünschten Stützfunktionalität erreicht werden.

[0009] In einer Variante der Erfindung kann das mindestens eine Stützelement derart ausgebildet sein, dass es beim Abstellen des Behälters auf einem weiteren, gleichartigen Behälter die Verschiebung des oberen gegen den unteren Behälter lediglich in einer ersten Richtung hemmt.

[0010] Eine gewisse Zentrierfunktion über ein reines Abstützen hinaus kann in einer weiteren Ausführungsform der Erfindung dadurch erreicht werden, dass das mindestens eine Stützelement derart ausgebildet ist, dass es beim Abstellen des Behälters auf einem weiteren, gleichartigen Behälter die Verschiebung des oberen gegen den unteren Behälter in einer ersten und einer zweiten Richtung hemmt.

[0011] Dabei kann die angesprochene Zentrierung insbesondere dadurch weiter verbessert werden, dass die erste und die zweite Richtung senkrecht aufeinander stehen; hierzu kann das Stützelement insbesondere eine L-förmige Geometrie aufweisen.

[0012] Das Stützelement kann als stutzenförmiges Zentrierelement ausgebildet sein; alternativ kann das Stützelement auch als umlaufende Rippe ausgebildet sein.

[0013] Die umlaufende Rippe kann in einer vorteilhaften Weiterbildung der Erfindung in der Art eines Hohlprofils mit rechteckigem Querschnitt ausgebildet sein, wobei entlang einer Diagonalen im Inneren der Rippe ein Steg verläuft. Auf diese Weise wird eine materialsparende und doch robuste Ausführung des Stützelementes geschaffen.

[0014] In einer weiteren Variante der Erfindung ist das Stützelement auf dem Deckel des Behälters nach oben ragend angeordnet und bildet einen Anschlag, gegen welchen sich das Unterteil eines auf dem ersten Behälter angeordneten zweiten Behälters in einer zur Stapelrichtung der Behälter vertikalen Richtung abstützt.

[0015] Dabei können im Deckel des ersten Behälters eine Mehrzahl, insbesondere drei, nach oben ragende Stützelemente angeordnet sein, welche in Eingriff mit einer komplementären, im Bodenteil des zweiten Behälters angeordneten Struktur gebracht werden können.

[0016] Insbesondere können die nach oben ragenden Stützelemente als rippenförmige Elemente nebeneinander auf einer Geraden angeordnet sein, wobei die komplementäre Struktur eine Mehrzahl von Vorsprüngen aufweist und wobei die Stützelemente in kämmendem Eingriff mit den Vorsprüngen bringbar sind. Auf diese Weise kann eine wirksame Abstützung des oberen Behälters im Hinblick auf vertikal zur Stapelrichtung der Behälter wirkende Kräfte erreicht werden.

[0017] In einer weiteren Variante der Erfindung ist ein stapelbarer Behälter, insbesondere ein stapelbarer Behälter wie vorstehend beschrieben, mit einer Verschlussvorrichtung zum Arretieren eines Deckels auf einem Bodenteil des Behälters versehen, wobei die Verschlussvorrichtung eine Schnalle und einen Bügel aufweist, und wobei der Behälter eine Verschlussnase zum Verschließen des ersten Behälters sowie eine Kopplungsnase zum Koppeln des Behälters mit einem weiteren, gleichartigen Behälter aufweist. Dabei ist die Verschlusseinrichtung derart ausgebildet, dass der Bügel wahlweise die Verschlussnase des ersten Behälters oder die Kopplungsnase des zweiten Behälters umgreifen kann.

[0018] Mit anderen Worten wird durch die beschriebene Verschlussvorrichtung die Möglichkeit geschaffen, wahlweise einen Behälter zu verschließen oder zwei gestapelte, gleichartige Behälter mit einander zu koppeln und auf diese Weise einen stabilen Behälterverbund herzustellen. Die Verwendung eines Bügelverschlusses wie vorstehend beschrieben hat dabei gegenüber beispielsweise dem aus dem Stand der Technik bekannten Drehverschluss den Vorteil, dass durch den Bügelverschluss eine höhere Vorspannung aufgebracht werden kann und der Verschluss unter anderem auch aus diesem Grund gegen ein Nachlassen der Funktionalität bzw. ein Ausleiern bei häufigem Betätigen erheblich robuster ist.

[0019] Die Kopplungsnase kann im Bodenteil des Behälters angeordnet sein; die geometrischen Parameter des Bügelverschlusses können insbesondere derart gewählt sein, dass der Bügel um eine Achse C schwenkbar ist und in geschlossenem bzw. gekoppelten Zustand der Abstand derjenigen Flanke der Kopplungsnase und der Verschlussnase, welche mit dem Bügel in Eingriff steht, von der Achse C im Bereich 20 mm bis 45 mm, insbesondere im Bereich von 33 mm liegt.

[0020] Nachfolgend werden vorteilhafte Ausführungsformen der Erfindung anhand der Zeichnung erläutert.

[0021] Es zeigt:

[0022] **Fig.** 1 eine perspektivische Ansicht eines erfindungsgemäßen Behälters,

[0023] **Fig.** 2 zwei Schnittlinien A-A und B-B zur weiteren Erläuterung der gezeigten Ausführungsformen,

[0024] **Fig.** 3 eine perspektivische Ansicht zweier gekoppelter erfindungsgemäßer Behälter,

[0025] **Fig.** 4 in einer Schnittdarstellung die Verhältnisse sowohl im Bereich des hinteren wie auch des vorderen Standfußes,

[0026] **Fig.** 5 in einer Schnittdarstellung die laterale Ausdehnung insbesondere der vorderen Stützelemente,

[0027] **Fig.** 6 eine zweite Ausführungsform der Erfindung,

[0028] **Fig.** 7 eine Schnittdarstellung der in **Fig.** 6 gezeigten Ausführungsform,

[0029] **Fig.** 8 eine weitere Schnittdarstellung der in **Fig.** 6 gezeigten Ausführungsform,

[0030] **Fig.** 9 eine dritte Ausführungsform der Erfindung,

[0031] **Fig.** 10 eine Schnittdarstellung der in **Fig.** 9 gezeigten Ausführungsform,

[0032] **Fig.** 11 eine weitere Schnittdarstellung der in **Fig.** 9 gezeigten Ausführungsform,

[0033] **Fig.** 12 eine vierte Ausführungsform der Erfindung,

[0034] **Fig.** 13 eine Schnittdarstellung der in **Fig.** 12 gezeigten Ausführungsform,

[0035] **Fig.** 14 eine weitere Schnittdarstellung der in **Fig.** 12 gezeigten Ausführungsform,

[0036] **Fig.** 15 in einer perspektivischen Ansicht eine weitere Variante der Erfindung,

[0037] **Fig.** 16 eine perspektivische Ansicht des in **Fig.** 15 gezeigten Behälters von unten,

[0038] **Fig.** 17 eine Detailvergrößerung zu der in **Fig.** 15 und **Fig.** 16 gezeigten Ausführungsform,

[0039] **Fig.** 18 eine weitere Detailvergrößerung zu der in **Fig.** 15 und **Fig.** 16 gezeigten Ausführungsform; und

[0040] **Fig.** 19 eine Schnittdarstellung zu den in der **Fig.** 15 und **Fig.** 16 gezeigten Ausführungsform.

[0041] **Fig.** 1 zeigt eine perspektivische Ansicht eines erfindungsgemäßen Behälters **100**. Der Behälter zeigt ein wannenförmiges Bodenteil **1** sowie einen an diesem im Bereich der Rückseite um die Achse A schwenkbar angeordneten Deckel **2**. Das Bodenteil **1** zeigt an seiner Vorderseite einen seitlichen Tragegriff **3** und eine Schnalle **4** mit einem um eine Achse C schwenkbaren Bügel **41** zum Verschließen des Behälters **100** bzw. zur Kopplung des Behälters **100** mit anderen Behältern, wie nachfolgend noch näher erläutert werden wird. An seiner Oberseite zeigt der Behälter **100** einen in den Deckel **2** einschwenkbar angeordneten Deckeltragegriff **5**, der wahlweise zum Transport des Behälters **100** verwendet werden kann. Der Deckel **2** weist ferner zwei vordere Ausnehmungen **5** sowie zwei hintere Ausnehmungen **7** auf, welche zur Aufnahme von Standfüßen bzw. Stützelementen eines auf dem Behälter **100** stehenden, weiteren gleichartigen Behälters **100** dienen. Dabei zeigen die hinteren Ausnehmungen **7** einen nach hinten weisenden Hinterschnitt **8**, in welchen ein entsprechender Vorsprung eines hinteren Standfußes eines weiteren Behälters eingreifen kann, so dass sich eine scharnierartige Wirkung der beiden hinteren Ausnehmungen **7** im Zusammenwirken mit den dazugehörigen Standfüßen ergibt und ein auf dem gezeigten Behälter **100** angeordneter, gleichartiger zweiter Behälter **100'** um die Achse A' gegenüber diesem verschwenkt werden kann. Im praktischen Einsatz ist dies insbesondere dann von Bedeutung, wenn ein zweiter Behälter **100'** auf dem ersten Behälter **100** angeordnet werden soll. Hierzu wird zunächst der zweite Behälter **100'** in seinem vorderen Bereich, also in demjenigen Bereich, in welchem der seitliche Tragegriff und die Schnalle mit Bügel angeordnet sind, etwas nach oben angehoben und auf den ersten Behälter **100** aufgesetzt sowie nachfolgend nach hinten geschoben, bis die hinteren Standfüße des oberen Behälters **100'** mit den hinteren Ausnehmungen **7** des unteren Behälters **100**, insbesondere mit den Hinterschnitten **8**, in Eingriff gelangen. Danach wird der obere Behälter **100'** durch eine Drehung um die Achse A' in seinem vorderen Bereich auf den unteren Behälter **100** abgesenkt und ein Stapel aus zwei Behältern **100**, **100'** gebildet.

[0042] Im vorderen Bereich des Behälters **100** ist dargestellt, wie die Schnalle **4** mit ihrem zugehörigen Bügel **41** in eine Verschlussnase **9** im Deckel **2** des Behälters **100** eingreift und auf diese Weise den Deckel **2** gegen das Bodenteil **1** spannt, wodurch der Behälter **100** insbesondere aufgrund der damit erreichten Vorspannung zuverlässig verschlossen wird. Ebenfalls dargestellt in **Fig.** 1 ist die Kopplungsnase **10** im unteren Bereich des Bodenteils **1**. Sie dient zum Verriegeln zweier gestapelter Behälter **100**, **100'** gegeneinander, wie in **Fig.** 2 dargestellt. In **Fig.** 2 ist

zu erkennen, wie der Bügel **41** die Kopplungsnase **10** eines auf einem ersten erfindungsgemäßen Behälter **100** angeordneten zweiten Behälters **100'** umgreift und auf diese Weise den zweiten Behälter **100'** gegen den ersten Behälter **100** sichert bzw. die beiden Behälter **100**, **100'** miteinander verkoppelt. Die Kopplungsnase **10** und die Verschlussnase **9** sind dabei im Bezug zu dem Bügel **41** bzw. zu der Schnalle **4** derart angeordnet, dass in geschlossenem bzw. gekoppelten Zustand der Abstand derjenigen Flanke der Kopplungsnase **10** und der Verschlussnase **9**, welche mit dem Bügel **41** in Eingriff steht, von der Achse C im Bereich von 20 mm bis 45 mm, insbesondere im Bereich von 33 mm liegt.

[0043] Durch diese vorteilhafte Gestaltung von Verschluss **9** und Kopplungsnase **10** im Zusammenwirken mit der Schnalle **4** und dem zugehörigen Bügel **41** wird eine einfache und robuste Möglichkeit geschaffen, zwei erfindungsgemäße (oder gegebenenfalls auch Behälter anderer Systeme) unter einer gewissen Vorspannung miteinander zu verkoppeln bzw. im nicht gekoppelten Einsatz einen Behälter zuverlässig zu verschließen.

[0044] In **Fig.** 2 sind weiterhin die beiden Schnittlinien V-V und IV-IV dargestellt, anhand derer im Folgenden die geometrischen Verhältnisse insbesondere im Bereich der Standfüße und der Stützelemente erläutert werden.

[0045] **Fig.** 3 zeigt in einer ersten Ausführungsform der Erfindung eine perspektivische Ansicht zweier gekoppelter erfindungsgemäßer Behälter **100**, **100'** von der Unterseite her. In der Ausschnittsvergrößerung gut zu erkennen ist die Ausführung des Stützelements **11**, welches beabstandet von einem vorderen Standfuß **12** ausgebildet ist. Wie in der **Fig.** 3 angedeutet und etwas detaillierter in dem in **Fig.** 4 dargestellten Schnitt IV-IV zu erkennen, ist das Stützelement **11** bzw. **11'** derart ausgebildet, dass es gegenüber dem vorderen Standfuß **12** bzw. **12'** erheblich flacher ausgeführt ist und damit beim Abstellen eines einzelnen Behälters bzw. des untersten Behälters eines Stapels nicht mit dem Untergrund in Verbindung kommt, so dass die Gefahr einer mechanischen Beschädigung des Stützelementes **11** bzw. **11'** verringert ist. Auf diese Weise wird gewährleistet, dass das Stützelement **11** bzw. **11'** auch nach längerem Gebrauch des Behälters **100** bzw. **100'** seine Funktion einwandfrei erfüllen kann.

[0046] **Fig.** 4 zeigt in einer weiteren Schnittdarstellung (Schnitt IV-IV) die Verhältnisse sowohl im Bereich des hinteren wie auch des vorderen Standfußes **13'**, **12'** bzw. des Stützelements **11'**. Gut erkennbar wird der Eingriff des Vorsprungs **14'** des hinteren Standfußes **13** in den Hinterschnitt in einer Ausnehmung **7** des Deckels **2** des unteren Behälters **100**. Ebenfalls gut erkennbar ist, dass das Stützelement **11'** an der vorderen Seitenwandung der vorderen Ausnehmung **6** im Deckel **2** des unteren Behälters **100** anliegt, so dass ein Abziehen bzw. Abrutschen des oberen Behälters **100'** nach vorne wirksam vermieden wird. Allerdings ist ein Wegschwenken nach oben – im Fall, dass der obere mit dem unteren Behälter **100** nicht über die Schnalle **4** und den zugehörigen Bügel **41** verriegelt ist – durchaus möglich und auch erwünscht. Ferner wird erkennbar, dass aufgrund des Zusammenwirkens des Vorsprungs **14'** im hinteren Standfuß **13'** mit der Hinterschneidung in der hinteren Ausnehmung **7** ein Abziehen des oberen Behälters **100'** vom unteren im hinteren Bereich der Anordnung wirksam vermieden wird.

[0047] **Fig.** 5 zeigt in einer weiteren Schnittdarstellung (Schnitt V-V) die laterale Ausdehnung insbesondere der vorderen Stützelemente **11'**. Im gezeigten Beispiel sind die vorderen Stützelemente **11'** derart ausgebildet, dass sie lediglich vorne, also in Griffrichtung, an der vorderen Wandung der Ausnehmung **6** im Deckel **2** des unteren Behälters anliegen, um das bereits oben beschriebene Verrutschen des oberen Behälters **100'** gegenüber dem unteren Behälter **100** nach vorne zu vermeiden. Seitlich liegen die Stützelemente **11'** nicht an der Wandung der vorderen Ausnehmung **6** an, so dass durch die Stützelemente **11'** in der gezeigten Ausführungsform lediglich eine Abstützung in der Art eines Anschlags, nicht jedoch eine Zentrierung gewährleistet wird. Allerdings wird die Zentrierung der beiden Behälter **100**, **100'** dadurch erreicht, dass die hinteren Standfüße **13'** in Verbindung mit den hinteren Ausnehmungen **7** derart gestaltet sind, dass ein seitliches Verrutschen der Behälter gegeneinander ebenfalls unterbunden wird. Hierzu ist wie dargestellt die Dimensionierung der hinteren Standfüße **13'** und der hinteren Ausnehmungen **7'** derart, dass die einander zugewandten Seiten der hinteren Standfüße jeweils an der Wandung der hinteren Ausnehmung **7'** anliegen bzw. lediglich eine geringer Abstand im Bereich weniger zehntel Millimeter zwischen der Wandung der Ausnehmung **7'** und der seitlichen Flanke des hinteren Standfußes **13'** verbleibt. Im Unterschied zu der aus dem Stand der Technik bekannten Variante, bei welcher die hinteren Standfüße **7'** in eine sich praktisch über die gesamte Breite des Behälters erstreckende Nut eingreifen, kann durch die in **Fig.** 5 gezeigte Variante aufgrund des geringeren Raumbedarfs der Ausnehmungen **7'** ein vergrößertes Innenraumvolumen des erfindungsgemäßen Behälters erreicht werden.

[0048] Darüber hinaus bietet die Ausbildung der Stützelemente **11'** in der gezeigten Form den Vorteil, dass beim Absenken des vorderen Teils des oberen Behälters **100'** auf den Deckel **2** des unteren Behälters **100** ein einfacheres Eingleiten der Stützelemente **11'** in die Ausnehmung **6** ermöglicht ist, da seitlich keine Feinjustierung erforderlich ist.

[0049] **Fig.** 6 zeigt eine zweite Ausführungsform der Erfindung, bei welcher das Stützelement stutzenförmig als Zentrierpin **11a** ausgebildet ist. Auch in diesem Fall ist – wie aus der Schnittdarstellung in **Fig.** 7 erkennbar wird – das Stützelement **11a'** gegenüber dem Standfuß **12a** zurückgesetzt ausgebildet, wodurch die bereits oben ausgeführten Vorteile im Hinblick auf mechanischen Schutz und darüber hinaus Robustheit gegenüber Verschmutzungen gewährleistet werden. Allerdings liegt im Unterschied zu der in den vorstehenden Figuren gezeigten Ausführungsform – wie der Schnittdarstellung **Fig.** 8 zu entnehmen ist – der Stützpin **11a'** sowohl im vorderen wie auch im seitlichen Bereich der Ausnehmung **6** im Deckel **2** des unteren Behälters **100** an den einander zugewandten Seiten der Wandungen der Ausnehmungen **6** an, so dass durch das Zusammenwirken der beiden Zentrierpins **11a'** nicht nur eine Abstütz- sondern auch eine zusätzliche Zentrierwirkung gegeben ist.

[0050] **Fig.** 9 zeigt eine dritte Ausführungsform der Erfindung, bei welcher das Stützelement als Stützrippe **11b** realisiert ist; die **Fig.** 10 und **Fig.** 11 verdeutlichen als Schnittdarstellungen analog den oben bereits verwendeten Schnitten die geometrischen Verhältnisse. Auch hier ist das Stützelement bzw. die Stützrippe **11b** bzw. **11b'** gegenüber dem Standfuß **12b** bzw. **12b'** zurückgesetzt ausgebildet und gewährleistet aufgrund des Anliegens sowohl seitlich als auch nach vorne in den Ausnehmungen **6** des Deckels des unteren Behälters **100** eine Zentrierung. Die Stützrippe **11b** bzw. **11b'** ist dabei als umlaufende Rippe in der Art eines Hohlprofils mit rechteckigem Querschnitt ausgebildet. Zur weiteren mechanischen Stabilisierung der Stützrippe **11b** bzw. **11b'** verläuft entlang einer Diagonalen im Inneren der Rippe ein Steg, dessen Höhe im Wesentlichen der Höhe der umlaufenden Rippe entspricht.

[0051] **Fig.** 12 zeigt eine weitere Variante der Erfindung, die aus der in den **Fig.** 3–**Fig.** 5 gezeigte Ausführungsform abgeleitet ist. Im Unterschied zu der in den genannten Figuren gezeigten Variante zeigt das in der **Fig.** 11 dargestellte Stützelement **11c** nicht lediglich eine Abstützung nach vorne, sondern auch eine seitliche Abstützung, was durch die im wesentlichen L-förmige Geometrie des Stützelementes **11c** erreicht wird. Dabei liegt ein erster Schenkel des als "L" gedachten Stützelementes **11c** an der Vorderseite der Ausnehmung **6** an, während ein zweiter Schenkel des "L" im Wesentlichen vertikal zu dem ersten Schenkel verläuft und an der nach innen gerichteten Seitenfläche der Ausnehmung **6** anliegt. Die Geometrie des Stützelements **11c** wird anhand der in den **Fig.** 13 und **Fig.** 14 dargestellten Schnitte weiter verdeutlicht. Insbesondere in **Fig.** 13 wird die gegenüber dem Standfuß **12'** flacher ausgeführte Geometrie des Stützelementes **11c** deutlich.

[0052] **Fig.** 15 zeigt eine weitere Variante der Erfindung, bei welcher mehrere Stützelemente **11d** auf dem Deckel **2** eines Behälters **100** nach oben ragend angeordnet sind. Die Stützelemente **11d** befinden sich also im Unterschied zu den vorstehend beschriebenen Ausführungsformen an der entgegengesetzten Seite eines erfindungsgemäßen Behälters **100**. Im gezeigten Beispiel sind die Stützelemente **11d** als drei nach oben ragende rippenförmige Elemente ausgebildet, welche nebeneinander auf einer Geraden angeordnet sind. Diese Struktur auf der Oberseite des Deckels **2** des Behälters **100** korrespondiert einer komplementären, im Bodenteil des Behälters **100** angebrachten weiteren Struktur, welche in gezeigtem Beispiel zwei nach vorne ragende Vorsprünge **15** aufweist.

[0053] **Fig.** 16 zeigt in einer perspektivischen Ansicht einen erfindungsgemäßen Behälter der genannten Ausführungsform von der Unterseite her gesehen. In der Figur gut erkennbar ist auch die vergleichsweise kleine Ausbildung der Standfüße **12**.

[0054] **Fig.** 17 zeigt in einer Detailvergrößerung die Struktur der Stützelemente **11d** und deren Anordnung auf dem Deckel **2** des Behälters **100** im Bereich zwischen der Ausnehmung **6** und der vorderen Kante des Deckels **2**. Gut erkennbar ist die rippenförmige Struktur der Stützelemente **11d**.

[0055] Anhand der in **Fig.** 18 dargestellten Detailvergrößerung und des in **Fig.** 19 gezeigten Schnittes soll die Wirkungsweise der in den **Fig.** 15 bis **Fig.** 19 gezeigten Ausführungsform weiter verdeutlicht werden. Gut erkennbar in **Fig.** 18 ist der kämmende Eingriff der Vorsprünge **15'** im Bodenteil **1'** des oberen Behälters **100'** mit den rippenförmigen Stützelementen **11d** welche im Deckel des unteren Behälters **100** angeordnet sind. Die gezeigte Geometrie von Vorsprüngen **15'** und Stützelementen **11d** gewährleistet einerseits eine zuverlässige Sicherung des oberen Behälters **100'** gegen ein Abziehen von dem unteren Behälter **100** nach vorne. Daneben ist aufgrund des seitlichen Anliegens von Vorsprüngen **15'** und Stützelementen **11d** aneinander auch eine seitliche Fixierung der Behälter **100** und **100'** gegeneinander gewährleistet.

[0056] **Fig.** 19 verdeutlicht anhand eines parallel zu einer kurzen Seitenwand der Behälter **100** bzw. **100'** verlaufenden Schnittes durch eines der Stützelemente **11d** die geometrischen Verhältnisse im Bereich der Stützelemente **11d** sowie der Vorsprünge **15'** und des Standfußes **12'** in der Ausnehmung **6**. Gut erkennbar in **Fig.** 19 ist der Effekt der kämmenden Struktur aus Stützelementen **11d** und Vorsprüngen **15'**. Die vordere Flanke des Standfußes **12'** hält dabei von der vorderen Wandung der Ausnehmung **6** den Abstand a ein, der im Bereich von 1 bis 3 mm, insbesondere im Bereich von 2 mm liegen kann. Die Einhaltung

des Abstandes a bewirkt, dass der Standfuß **12'** auch unter Einwirkung einer Zugkraft nach vorne am oberen Behälter **100'** nicht an der vorderen Wandung der Ausnehmung **6** anschlägt, also keine Kräfte vertikal zur Stapelrichtung der Behälter aufnimmt. Diese Kräfte werden in der gezeigten Ausführungsform von der Struktur aus Stützelementen **11d** und Vorsprüngen **15'** abgefangen, so dass der Standfuß **12'** im gezeigten Beispiel keinen Beitrag zur Abstützung der Koffer gegeneinander in einer Richtung vertikal zur Stapelrichtung leistet. In anderen, hier nicht gezeigten Ausführungsformen ist dieser Fall – abhängig insbesondere von der Dimensionierung des Standfußes **12'** – jedoch durchaus denkbar.

ZITATE ENTHALTEN IN DER BESCHREIBUNG

Diese Liste der vom Anmelder aufgeführten Dokumente wurde automatisiert erzeugt und ist ausschließlich zur besseren Information des Lesers aufgenommen. Die Liste ist nicht Bestandteil der deutschen Patent- bzw. Gebrauchsmusteranmeldung. Das DPMA übernimmt keinerlei Haftung für etwaige Fehler oder Auslassungen.

Zitierte Patentliteratur

- EP 2313321 B1 [0002]

Schutzansprüche

1. Stapelbarer Behälter (**100**) mit einem Bodenteil (**1**) und einem an dem Bodenteil (**1**) um eine Achse A schwenkbaren Deckel (**2**), wobei das Bodenteil (**1**) mindestens einen Standfuß zum Abstellen des Behälters auf einem Untergrund oder auf einem Deckel (**2'**) eines weiteren, gleichartigen Behälters (**100'**) aufweist und wobei der Behälter (**100**) mindestens ein separates Stützelement (**11**) aufweist, welches beim Abstellen des ersten Behälters (**100**) auf dem weiteren Behälter (**100'**) in eine Eingriffsstruktur des weiteren Behälters (**100'**) eingreift und dadurch eine Verschiebung des ersten (**100**) gegen den zweiten Behälter (**100'**) in mindestens einer Richtung vertikal zur Stapelrichtung hemmt, **dadurch gekennzeichnet,** dass das Stützelement derart ausgebildet ist, dass sich beim Abstellen des Behälters (**100**) auf einem ebenen Untergrund kein mechanischer Kontakt zwischen dem Stützelement und dem Untergrund ergibt.

2. Stapelbarer Behälter (**100**) nach Anspruch 1, **dadurch gekennzeichnet,** dass das Stützelement (**11**, **11a**, **11b**, **11c**) auf einem Bodenteil des Behälters (**100**) angeordnet ist und die Unterseite des Stützelementes (**11**, **11a**, **11b**, **11c**) gegenüber derjenigen Ebene, in welcher die Unterseiten mindestens dreier Standfüße (**12**) liegen, um 3–5 mm, insbesondere um 4 mm zurückgesetzt ausgebildet ist.

3. Stapelbarer Behälter (**100**) nach Anspruch 1 oder 2, **dadurch gekennzeichnet,** dass das mindestens eine Stützelement (**11**) derart ausgebildet ist, dass es beim Abstellen des Behälters (**100**) auf einem weiteren, gleichartigen Behälter die Verschiebung des oberen (**100**) gegen den unteren (**100'**) Behälter lediglich in einer ersten Richtung hemmt.

4. Stapelbarer Behälter (**100**) nach Anspruch 1 oder 2, **dadurch gekennzeichnet,** dass das mindestens eine Stützelement (**11a**, **11b**, **11c**) derart ausgebildet ist, dass es beim Abstellen des Behälters (**100**) auf einem weiteren, gleichartigen Behälter (**100'**) die Verschiebung des oberen (**100**) gegen den unteren (**100'**) Behälter in einer ersten und einer zweiten Richtung hemmt.

5. Stapelbarer Behälter (**100**) nach Anspruch 4, **dadurch gekennzeichnet,** dass die erste und die zweite Richtung senkrecht aufeinander stehen.

6. Stapelbarer Behälter (**100**) nach einem der Ansprüche 4 oder 5, **dadurch gekennzeichnet,** dass das Stützelement (**11c**) eine L-förmige Geometrie aufweist.

7. Stapelbarer Behälter (**100**) nach einem der vorangehenden Ansprüche 4 oder 5, **dadurch gekennzeichnet,** dass das Stützelement (**11a**) als stutzenförmiges Zentrierelement ausgebildet ist.

8. Stapelbarer Behälter (**100**) nach einem der vorangehenden Ansprüche 4 oder 5, **dadurch gekennzeichnet,** dass das Stützelement (**11b**) als umlaufende Rippe ausgebildet ist.

9. Stapelbarer Behälter (**100**) nach Anspruch 8, **dadurch gekennzeichnet,** dass die umlaufende Rippe in der Art eines Hohlprofils mit rechteckigem Querschnitt ausgebildet ist und entlang einer Diagonalen im inneren der Rippe ein Steg verläuft.

10. Stapelbarer Behälter (**100**) nach einem der vorangehenden Ansprüche 1 oder 3–5, **dadurch gekennzeichnet,** dass das Stützelement (**11d**) auf dem Deckel (**2**) des Behälters (**100**) nach oben ragend angeordnet ist und einen Anschlag bildet, gegen welchen sich das Unterteil (**1'**) eines auf dem ersten Behälter (**100**) angeordneten zweiten Behälters (**100'**) in einer zur Stapelrichtung der Behälter (**100**, **100'**) vertikalen Richtung abstützt.

11. Stapelbarer Behälter (**100**) nach Anspruch 10, **dadurch gekennzeichnet,** dass im Deckel (**2**) des ersten Behälters (**100**) eine Mehrzahl, insbesondere drei, nach oben ragende Stützelemente (**11d**) angeordnet sind, welche in Eingriff mit einer komplementären, im Bodenteil des zweiten Behälters (**100'**) angeordneten Struktur gebracht werden kann.

12. Stapelbarer Behälter (**100**) nach Anspruch 11, **dadurch gekennzeichnet,** dass die nach oben ragenden Stützelemente (**11d**) als rippenförmige Elemente nebeneinander auf einer Geraden angeordnet sind, wobei die komplementäre Struktur eine Mehrzahl von Vorsprüngen (**15**) aufweist und wobei die Stützelemente (**11d**) in kämmendem Eingriff mit den Vorsprüngen (**15**) bringbar sind.

13. Stapelbarer Behälter (**100**), insbesondere nach einem der vorangehenden Ansprüche, mit einer Verschlussvorrichtung zum Arretieren eines Deckels (**2**) auf einem Bodenteil (**1**) des Behälters (**100**), **dadurch gekennzeichnet,** dass die Verschlussvorrichtung eine Schnalle (**4**) und einen Bügel (**41**) aufweist, und wobei der Behälter (**100'**) eine Verschlussnase zum Verschließen des ersten Behälters (**100**) sowie eine Kopplungsnase (**10**) zum Koppeln des Behälters (**100**) mit einem weiteren, gleichartigen Behälter (**100'**) aufweist und wobei die Verschlusseinrichtung derart gebildet ist, dass der Bügel (**41**) wahlweise die Verschlussnase des ersten Behälters (**100**) oder die Kopplungsnase (**10**) des zweiten Behälters (**100'**) umgreifen kann.

14. Stapelbarer Behälter (**100**) nach Anspruch 13, **dadurch gekennzeichnet,** dass die Kopplungsnase

(**10**) im Bodenteil (**1**) des Behälters (**100**) angeordnet ist.

15. Stapelbarer Behälter (**100**) nach einem der Ansprüche 13 oder 14, **dadurch gekennzeichnet,** dass der Bügel (**41**) um eine Achse C schwenkbar ist und in geschlossenem bzw. gekoppelten Zustand der Abstand derjenigen Flanke der Kopplungsnase (**10**) und der Verschlussnase (**9**), welche mit dem Bügel (**41**) in Eingriff steht, von der Achse C im Bereich von 20 mm bis 45 mm, insbesondere im Bereich von 33 mm liegt.

Es folgen 11 Seiten Zeichnungen

Anhängende Zeichnungen

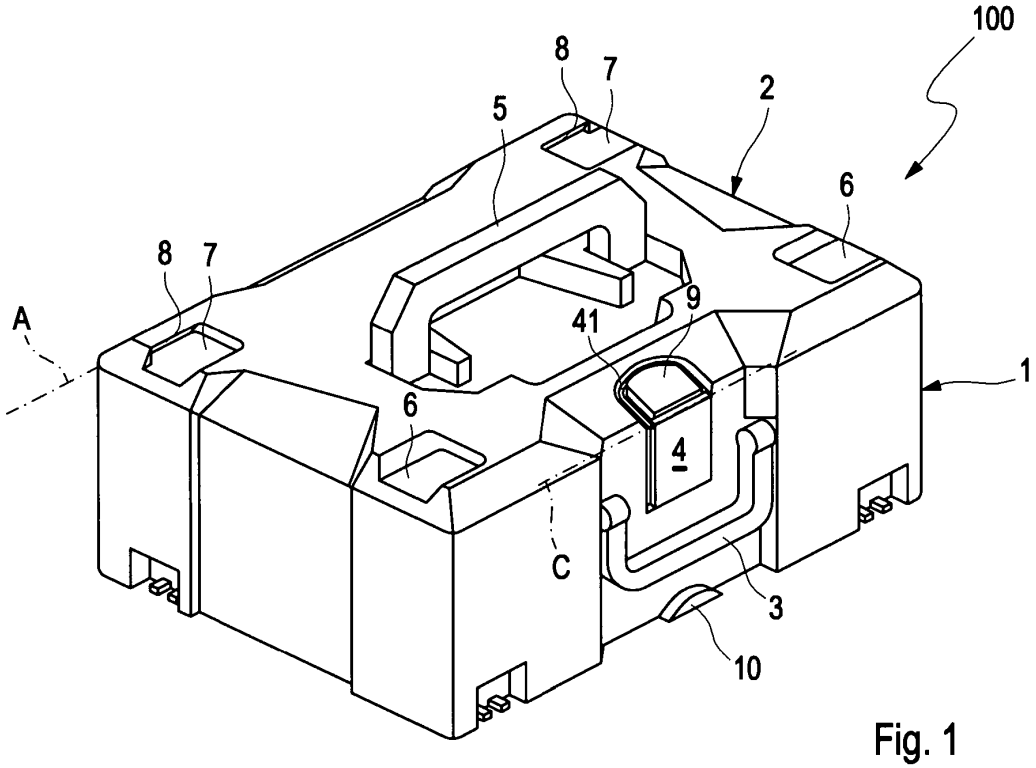


Fig. 1

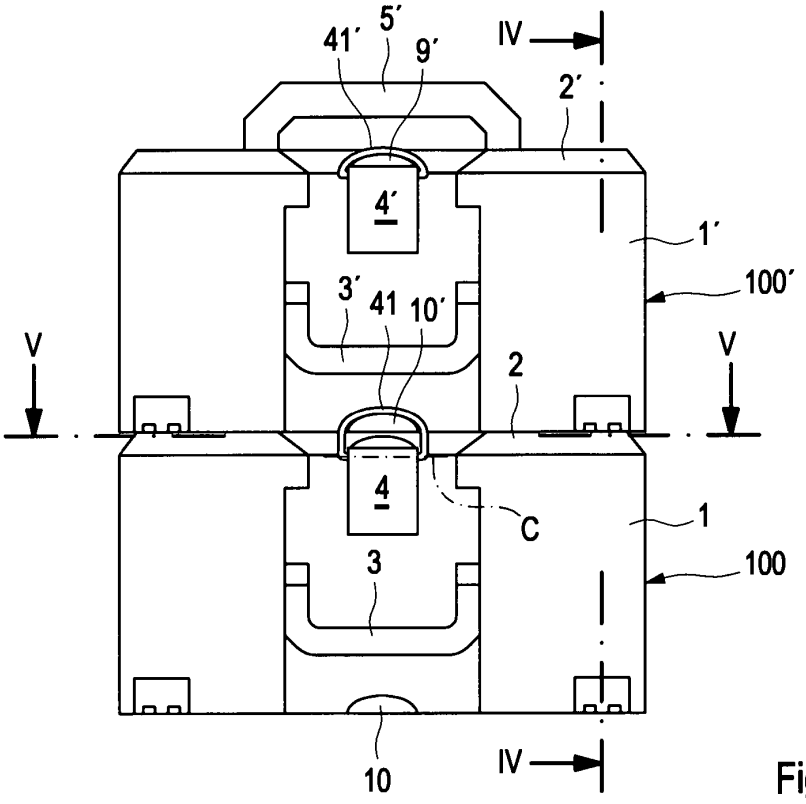


Fig. 2

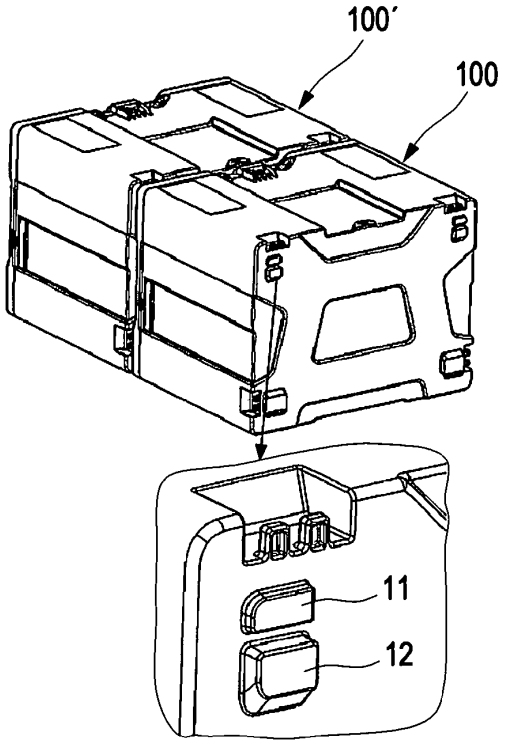


Fig. 3

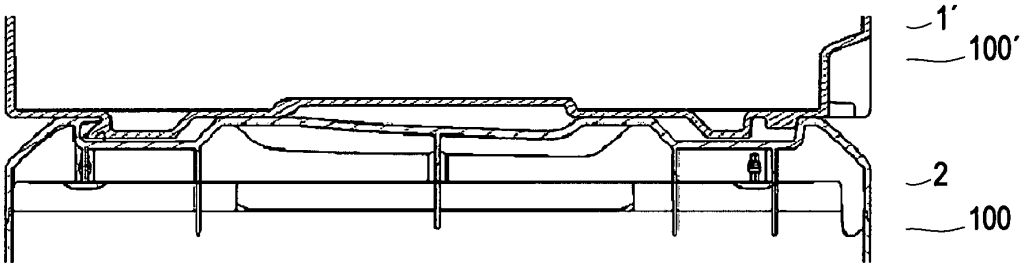


Fig. 4

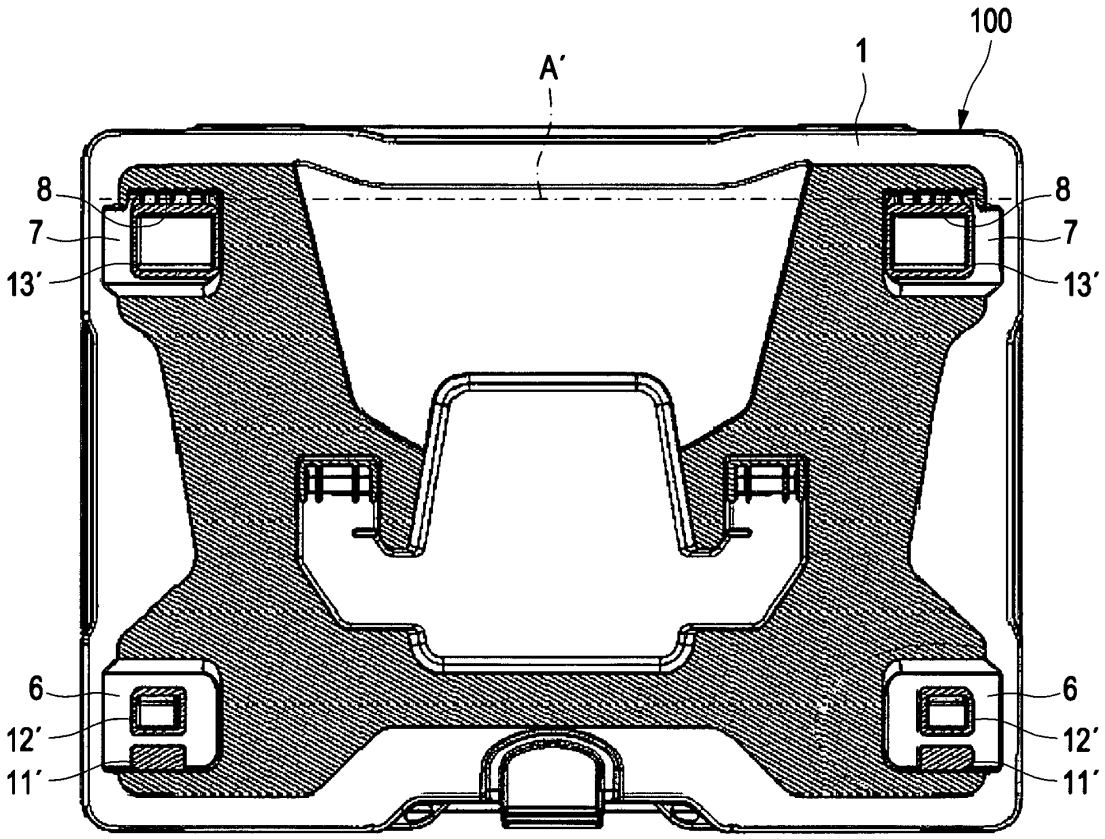


Fig. 5

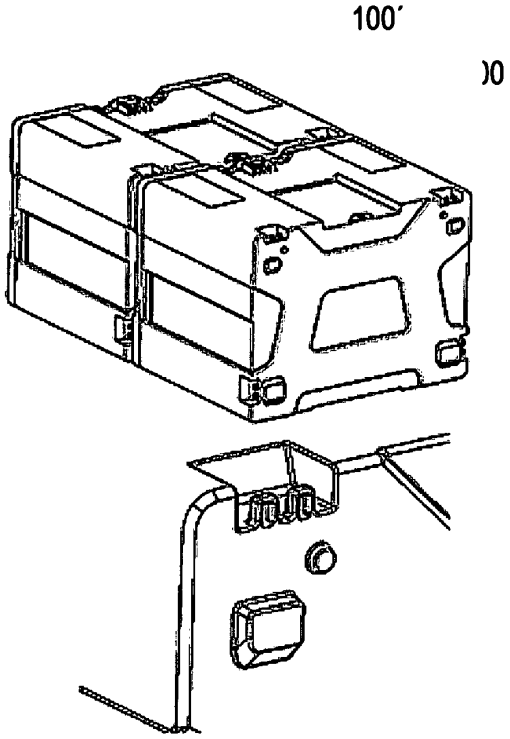


Fig. 6

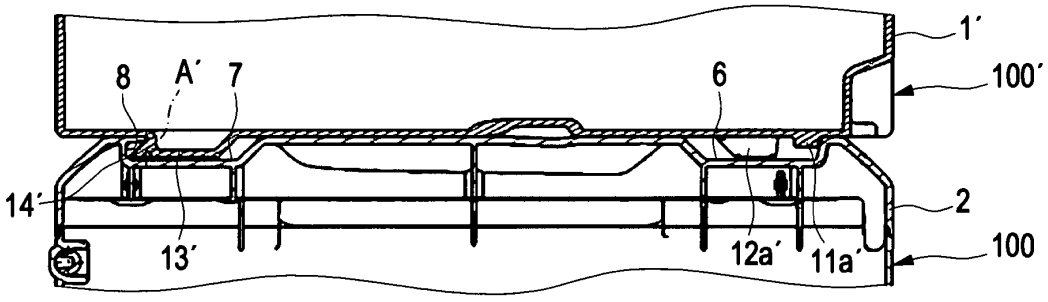


Fig. 7

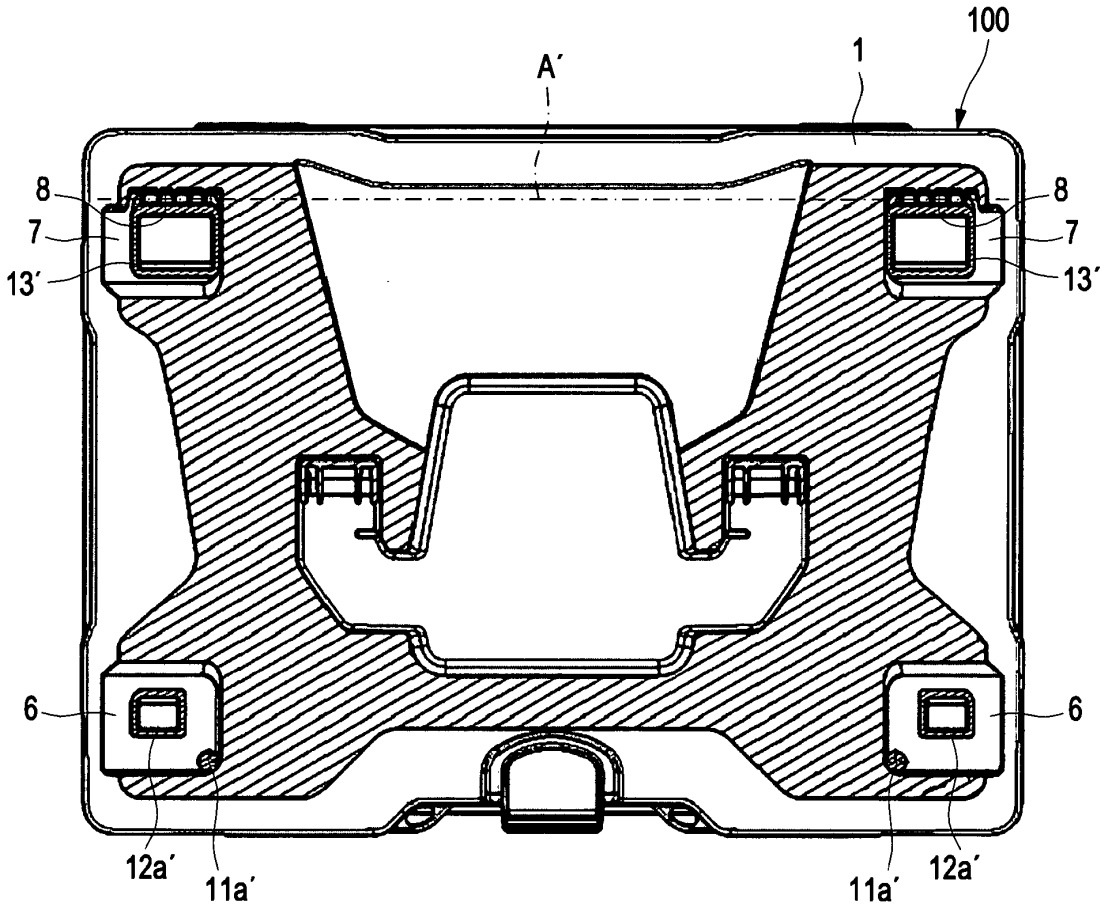


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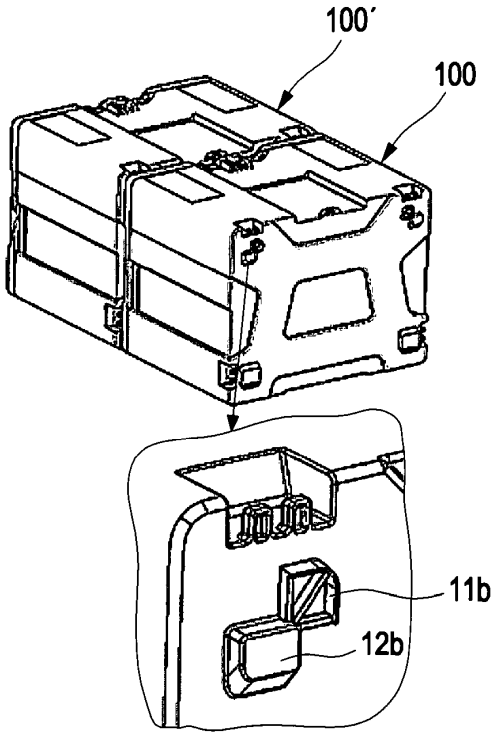


Fig. 9

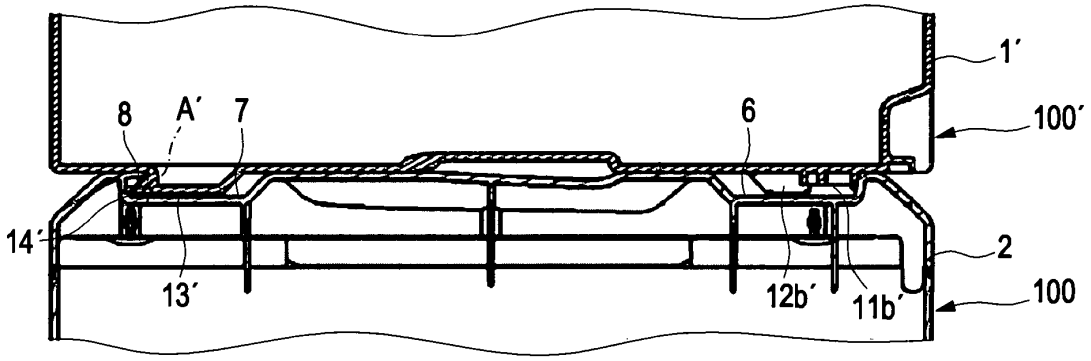


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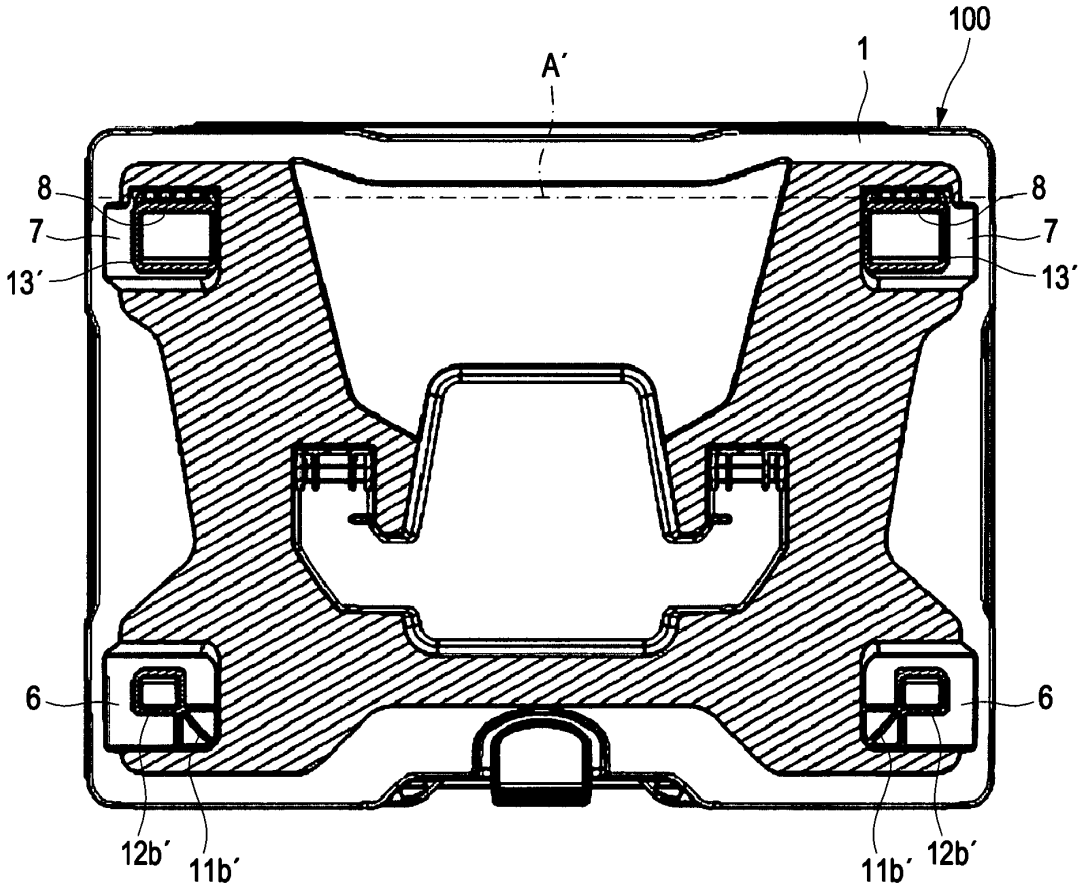


Fig. 11

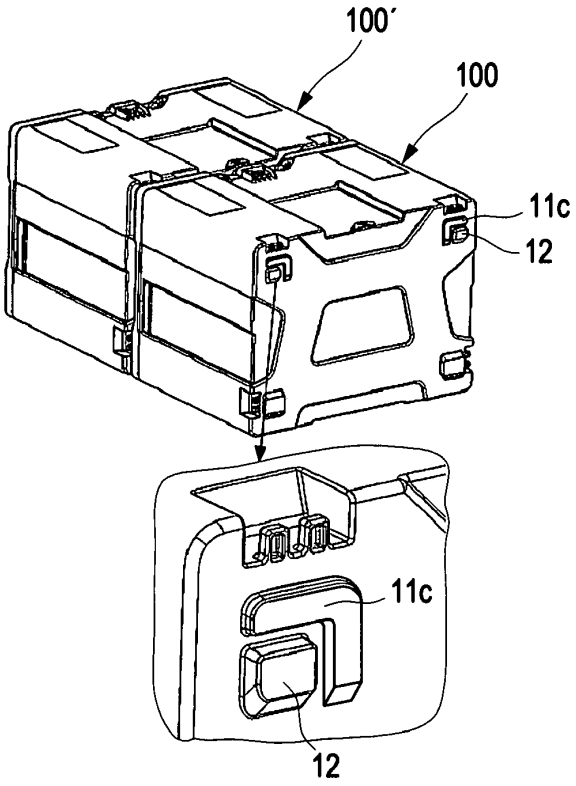


Fig. 12

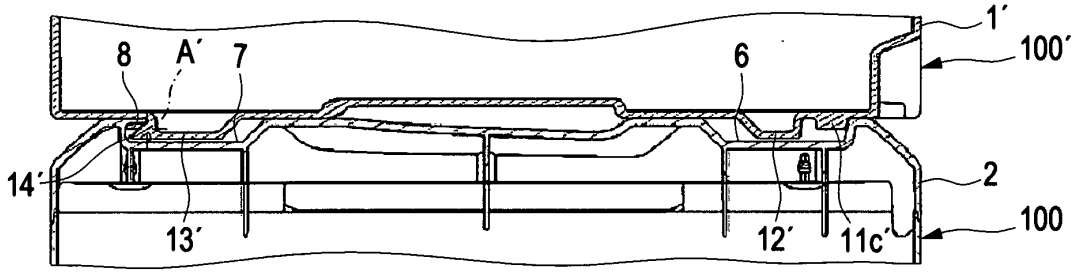


Fig. 13

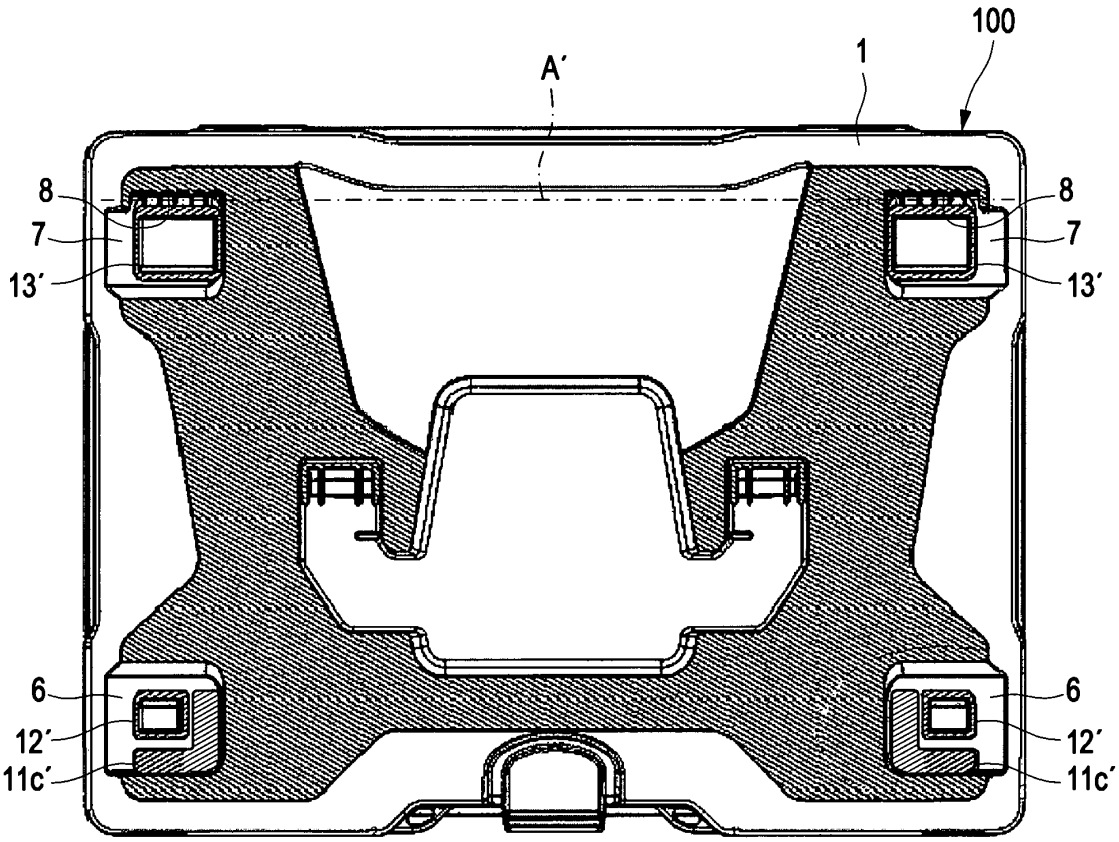


Fig. 14

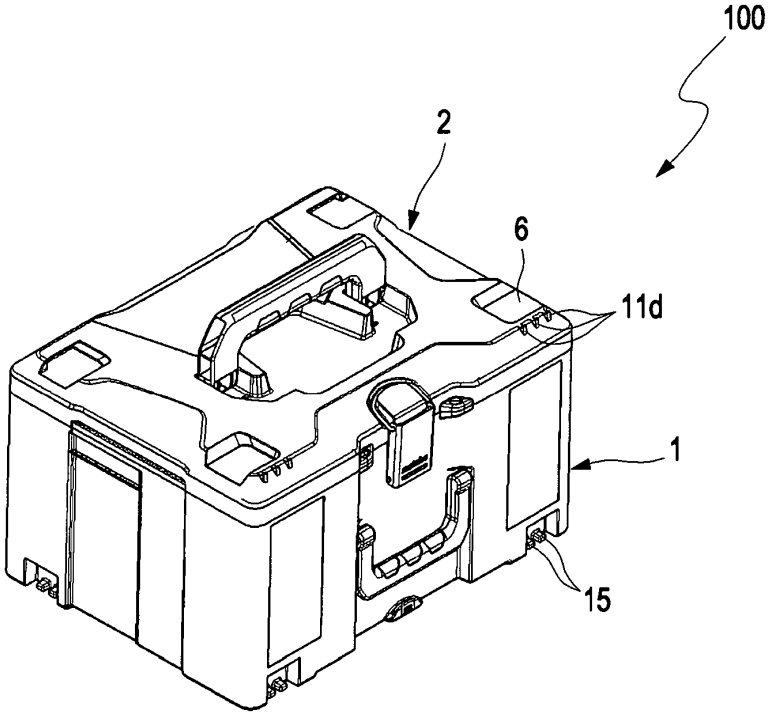


Fig. 15

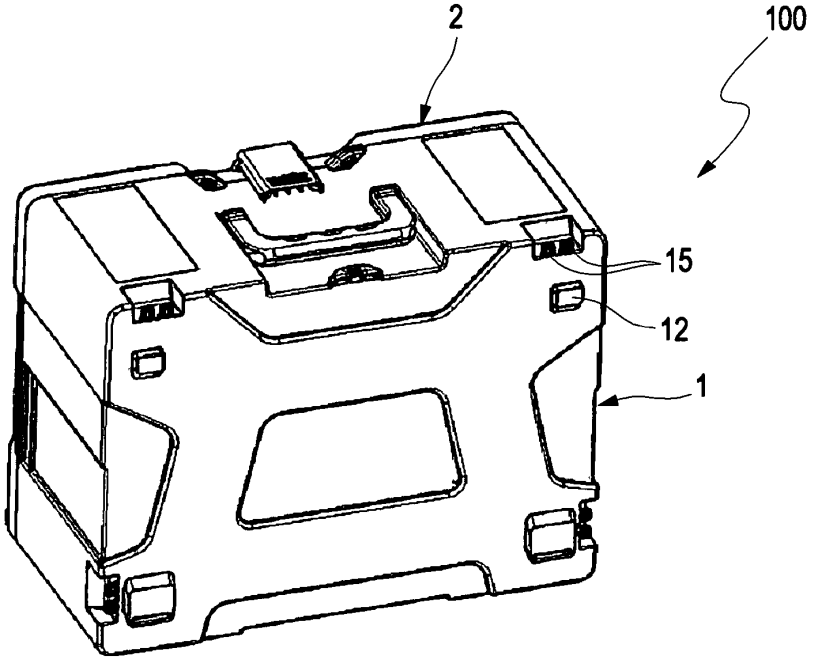


Fig. 16

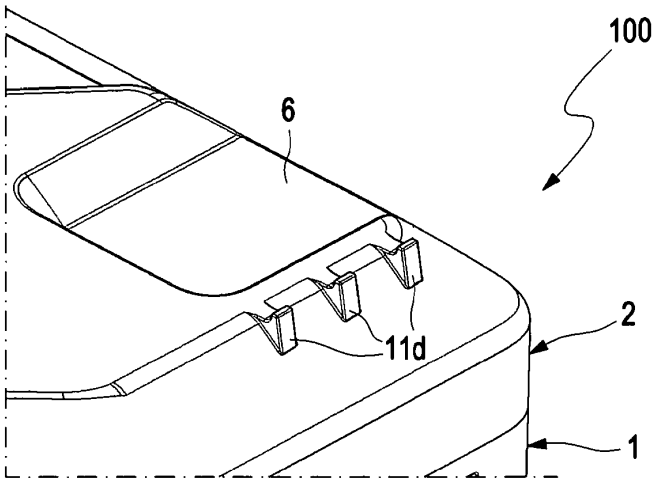


Fig. 17

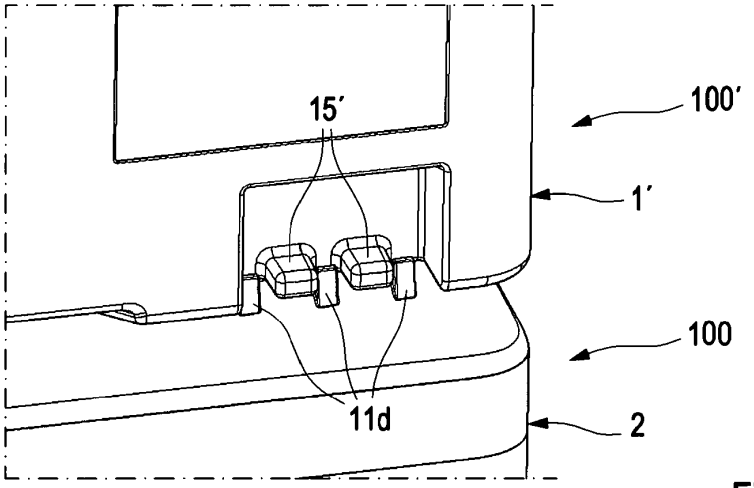


Fig. 18

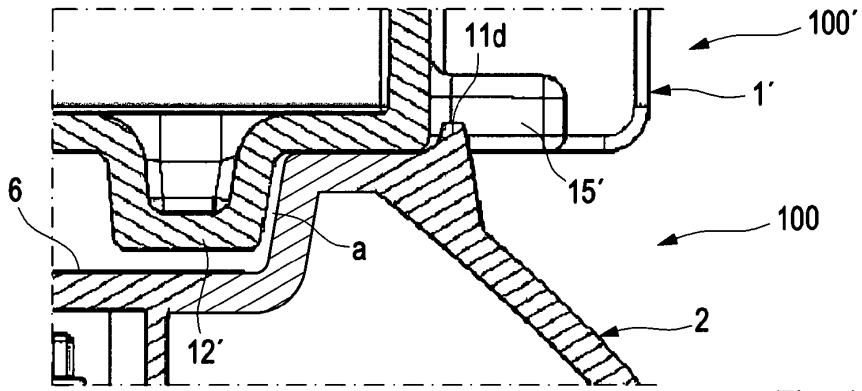


Fig. 19

Abstract of KR3009995990000

No.	Contents
M001	The shape of 'transportation box' and combination of the shape are combined to the essentials of the creation.

No.	Contents
M001	1. The material is the plastic material. 2. Is used to this design put the article and keep and transport. 3. [Fig. 1.1] The perspective view seen with silver of the design, and [fig. 1.2] are the front view looked at of the design, and [fig. 1.3] are the bottom view which the rear elevation of the design, the left side view of the design, the right side view of the design, the plane view of the design , and [fig. 1.7] which [fig. 1.6] looks look [fig. 1.5] looks [fig. 1.4] looks it looks of the design.

(19) 대한민국특허청(KR)
(12) 등록디자인공보(S)

(45) 공고일자 2019년03월27일
(11) 등록번호 30-0999599
(24) 등록일자 2019년03월20일

(52) 분류 G1-50
(51) 국제분류 09-03
(21) 출원번호 30-2018-0043714
(22) 출원일자 2018년09월18일

(73) 디자인권자
한국컨테이너풀 주식회사
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(72) 창작자
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이상범
서울특별시 노원구 섬밭로 265, 16동 205호(중계동, 경남,롯데,상아아파트)

(74) 대리인
특허법인 다해

담당심사관 : 이영주

(54) 명칭 운반용 상자

디자인도면

물품류

9

디자인의 대상이 되는 물품

운반용 상자

디자인의 설명

1. 재질은 합성수지재임.

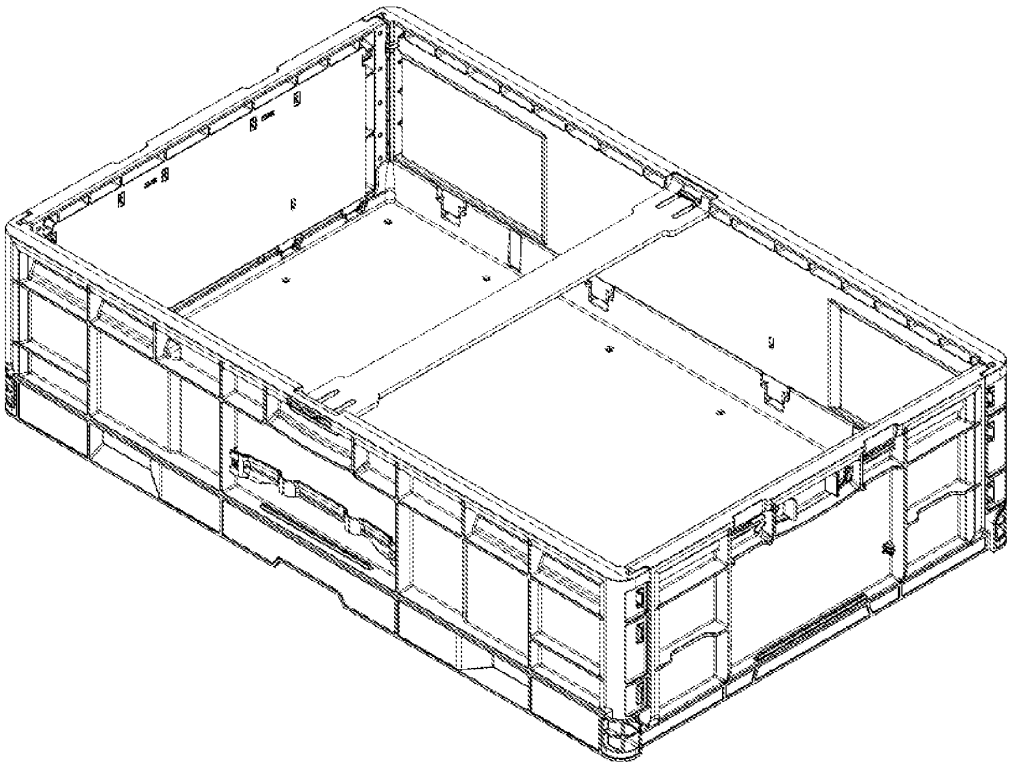
2. 본 디자인은 물품을 담아 보관 및 운반하는데 사용하는 것임.

3. [도면 1.1]은 본 디자인의 사시도, [도면 1.2]는 본 디자인의 정면도, [도면 1.3]은 본 디자인의 배면도, [도면 1.4]는 본 디자인의 좌측면도, [도면 1.5]는 본 디자인의 우측면도, [도면 1.6]은 본 디자인의 평면도, [도면 1.7]은 본 디자인의 저면도임.

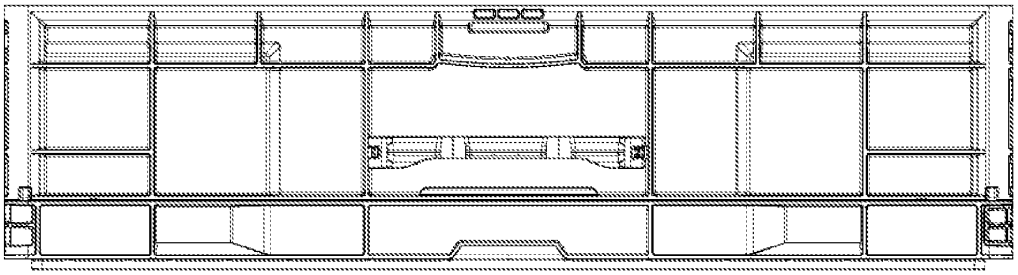
디자인 창작 내용의 요점

'운반용 상자'의 모양과 형상의 결합을 디자인 창작내용의 요점으로 함.

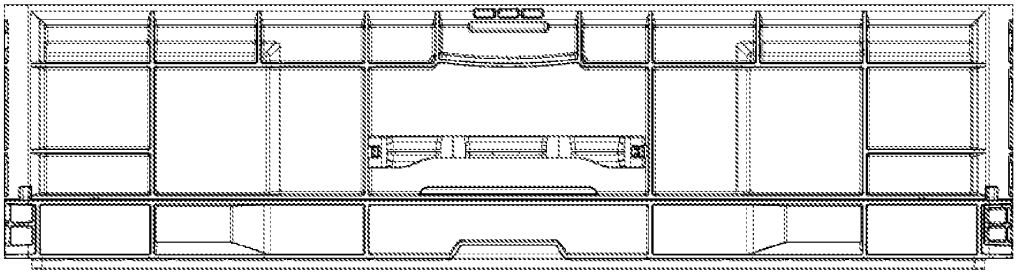
도면 1.1



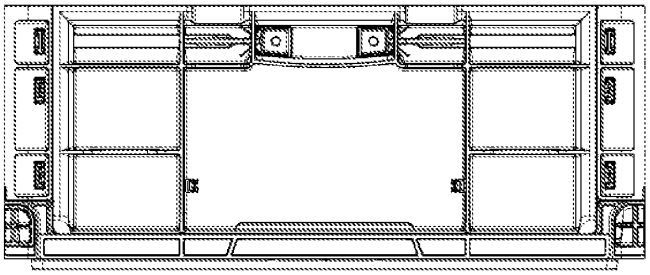
도면 1.2



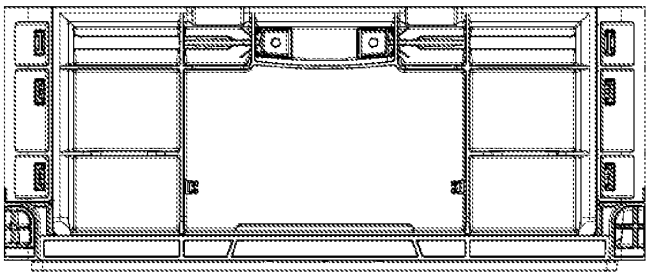
도면 1.3



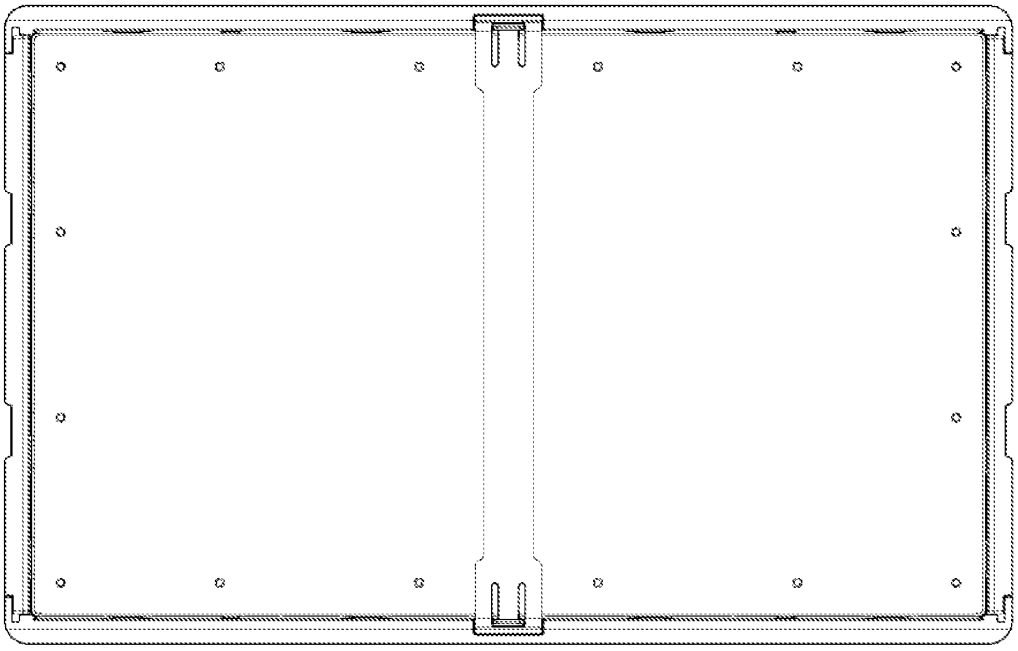
도면 1.4



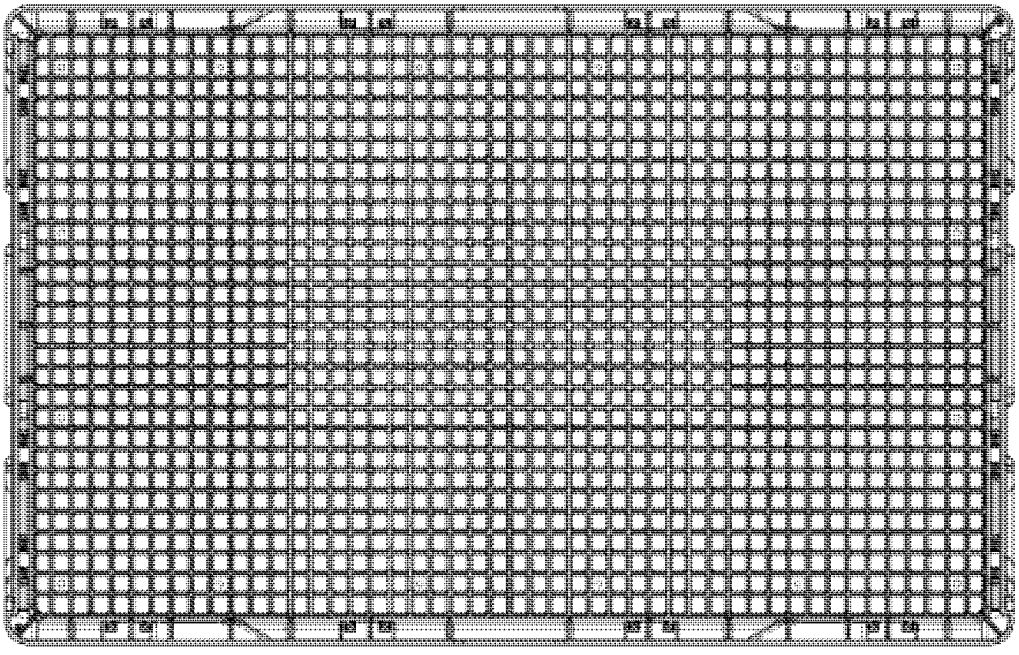
도면 1.5



도면 1.6



도면 1.7



Abstract of the design – KR3008812960000

No.	Contents
M001	The present application design combines the shape of "transportation box" and combination of the shape to the essentials of the creation.

No.	Contents
M001	1. The material is the metal and plastic material etc. 2. [Fig. 1.1] it is drawing expressing the whole form of the silver the present application design and the form in which as to as to as to as to as to as to [fig. 1.2], [fig. 1.3], [fig. 1.4], [fig. 1.5], [fig. 1.6], [fig. 1.7], [fig. 1.8] is whole the bottom surface of the present application design in the bottom surface is expressed. 3. [1.1 it is the referential view] it is the silver the present application design article the used state view of the foldable state and it is the used state view when laminating in the state that [1.2 it is the referential view] does not turn down the present application design article and it is the used state view when [1.3 it is the referential view] laminates the present application design article in the foldable state.

(19) 대한민국특허청(KR)
(12) 등록디자인공보(S)

(45) 공고일자 2016년11월15일
(11) 등록번호 30-0881296
(24) 등록일자 2016년11월09일

(52) 분류 G1-50
(51) 국제분류 09-03
(21) 출원번호 30-2016-0032966
(22) 출원일자 2016년07월06일

(73) 디자인권자
엔피씨(주)
경기도 안산시 단원구 해안로 289 (원시동)
(72) 창작자
최대현
서울특별시 금천구 시흥대로12길 72, 1동 302호 (시흥동, 영일빌라)

(74) 대리인
특허법인다래

담당심사관 : 장성국

(54) 명칭 **운반용 상자**

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디자인도면

물품류

제9류

디자인의 대상이 되는 물품

운반용 상자

디자인의 설명

1. 재질은 금속 및 합성수지재 등임.

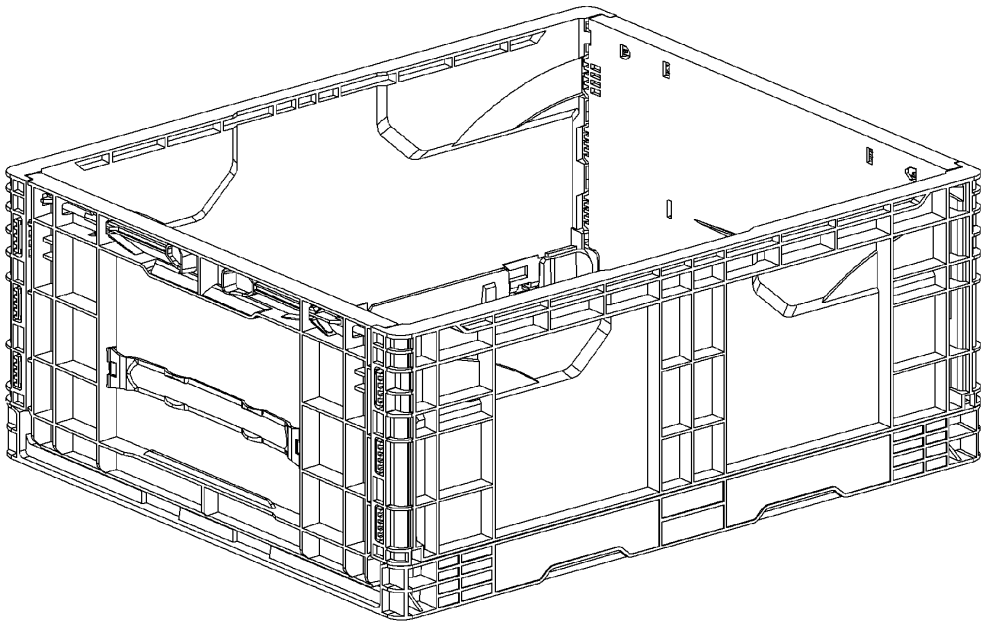
2. [도면 1.1]은 본원디자인의 전체적인 형태를 표현한 도면이고, [도면 1.2]는 본원디자인의 정면을, [도면 1.3]은 본원디자인의 배면을, [도면 1.4]는 본원디자인의 좌측면을, [도면 1.5]는 본원디자인의 우측면을, [도면 1.6]은 본원디자인의 평면을, [도면 1.7]은 본원디자인의 저면을, [도면 1.8]은 저면에서 전체적인 형태를 표현한 것임.

3. [참고도면 1.1]은 본원디자인 물품을 접은 상태의 사용상태도이고, [참고도면 1.2]는 본원디자인 물품을 접지 않은 상태에서 적층시킬 때의 사용상태도이며, [참고도면 1.3]은 본원디자인 물품을 접은 상태에서 적층시킬 때의 사용상태도임.

디자인 창작 내용의 요점

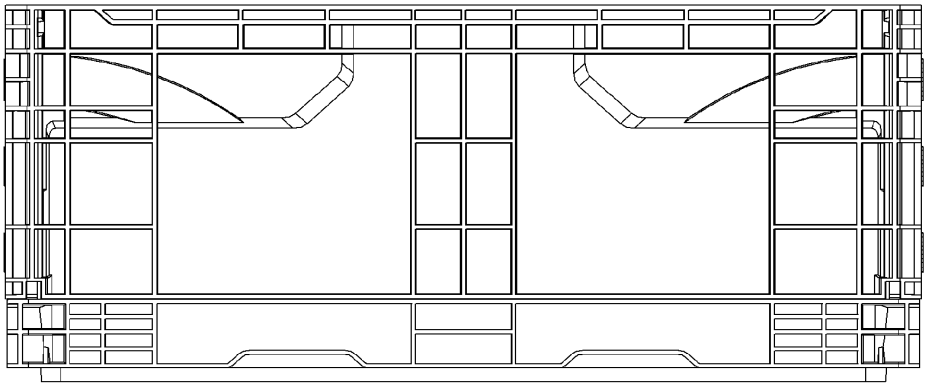
본원디자인은 "운반용 상자"의 형상과 모양의 결합을 디자인창작 내용의 요점으로 함.

도면 1.1

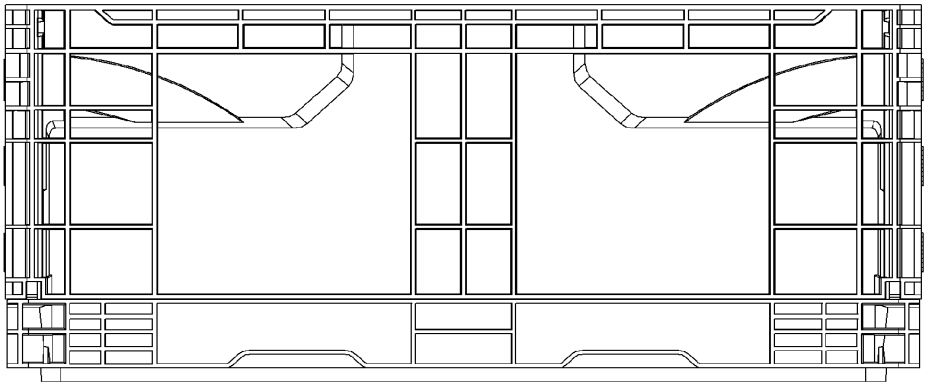


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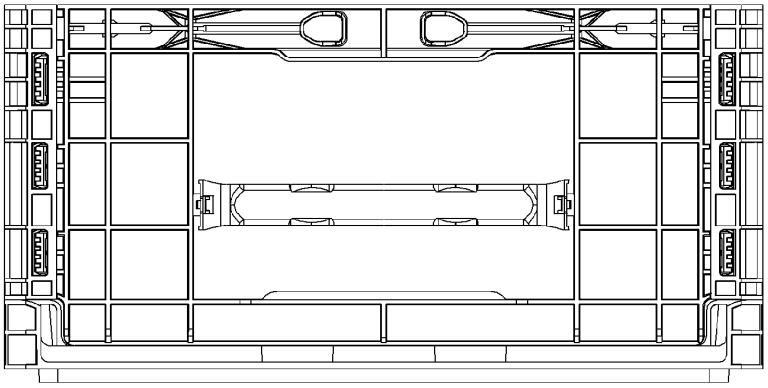
도면 1.2



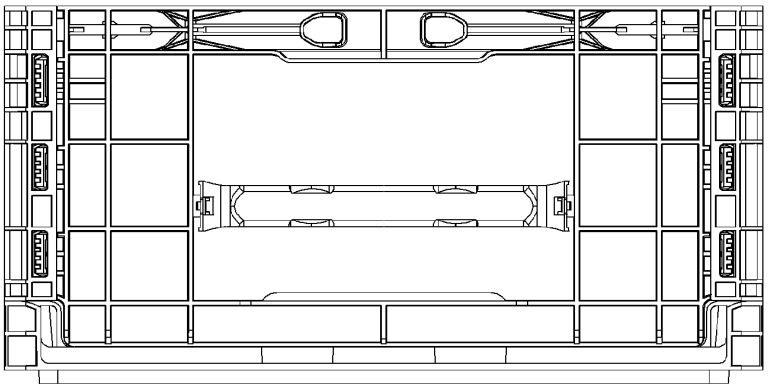
도면 1.3



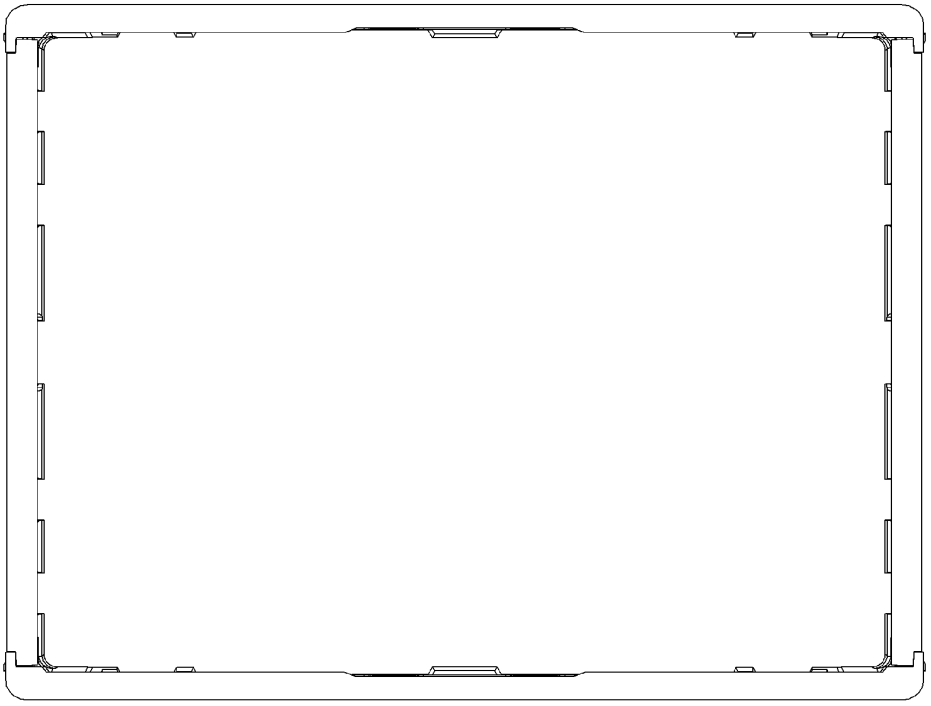
도면 1.4



도면 1.5

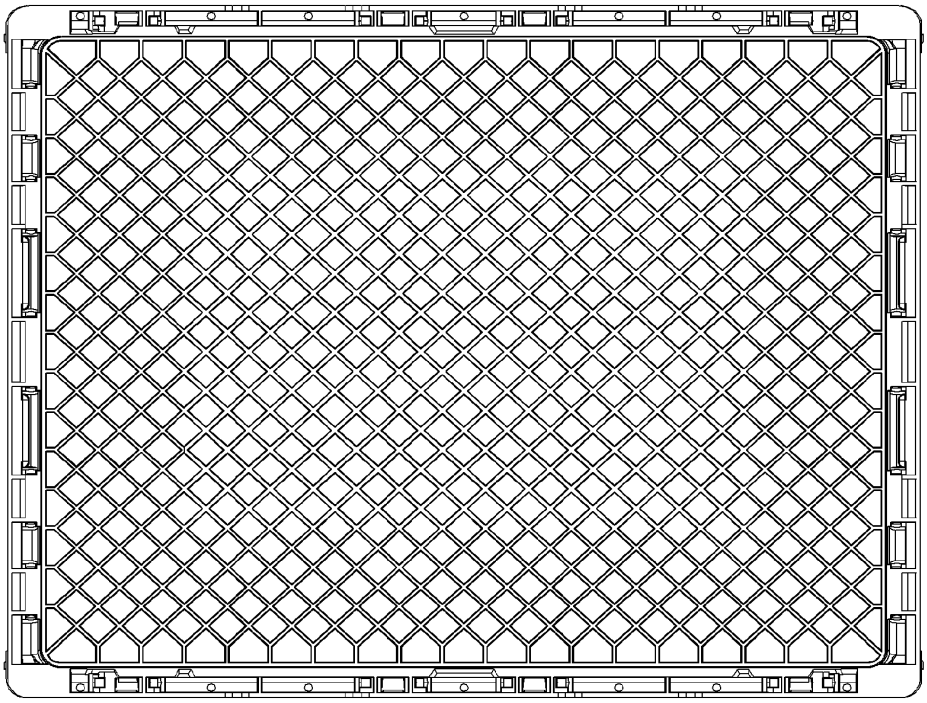


도면 1.6

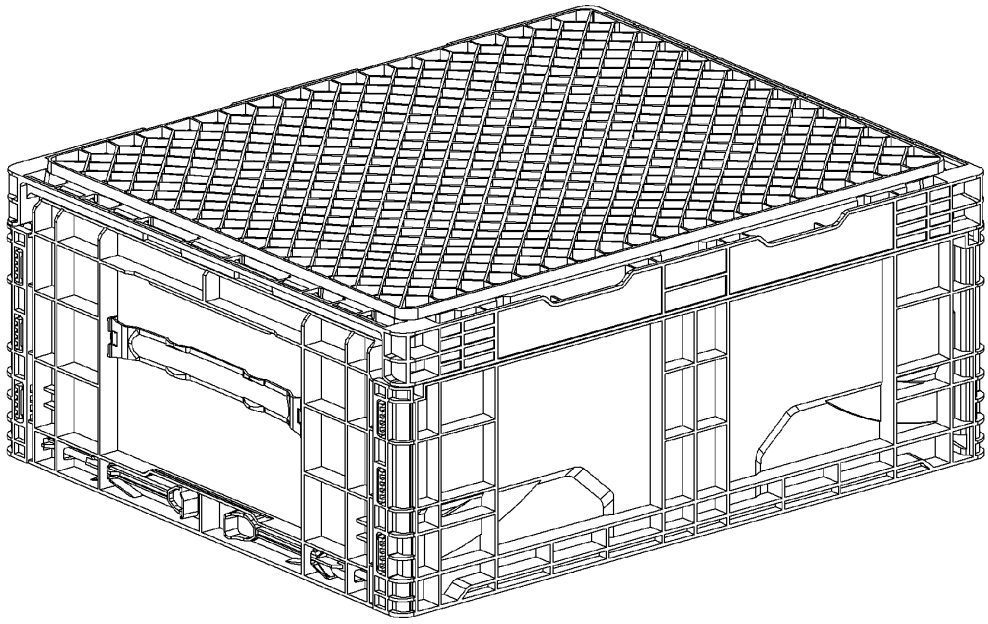


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IPR2024-01400

도면 1.7

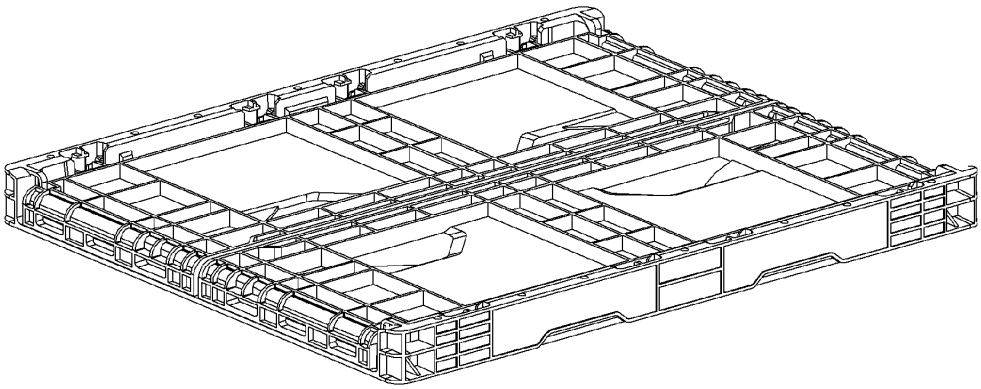


도면 1.8



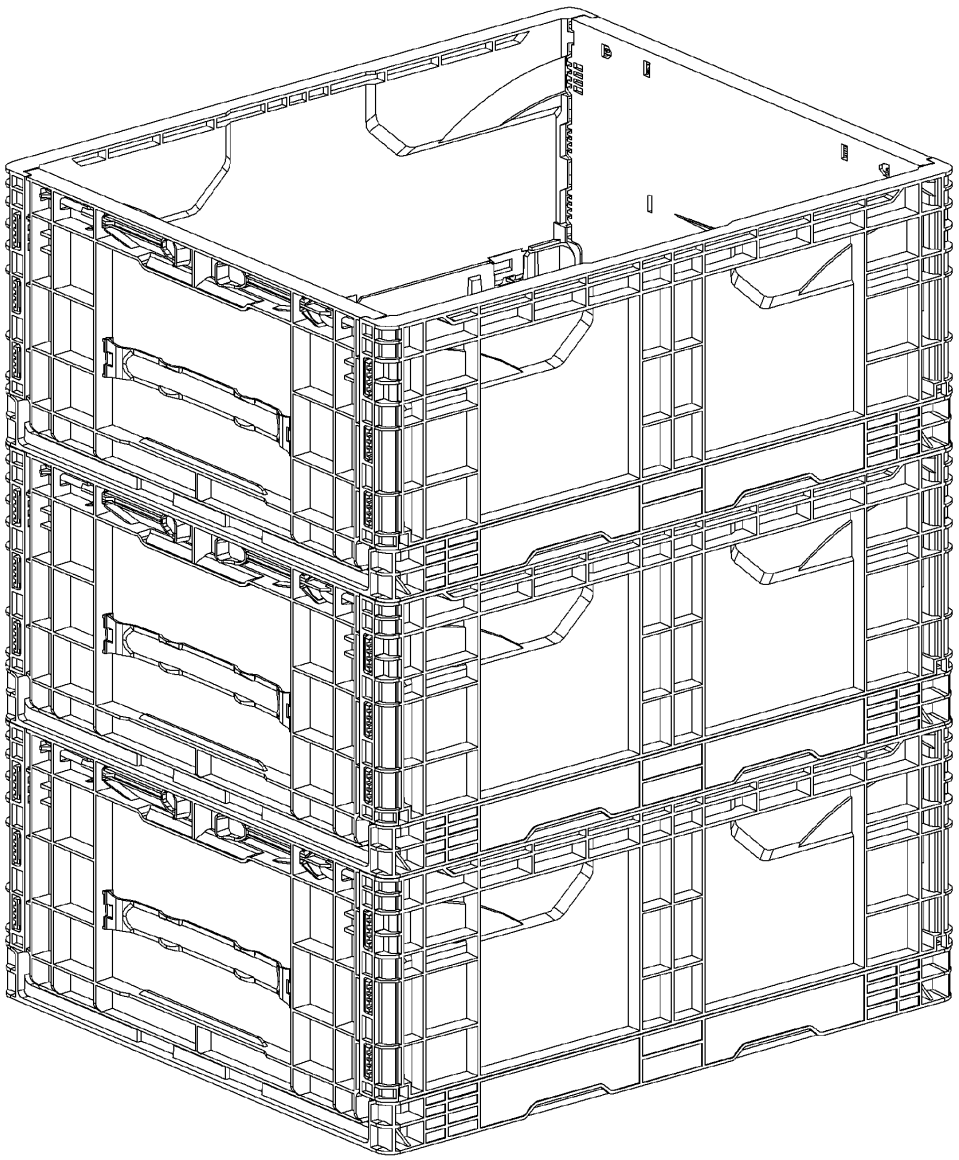
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IPR2024-01400

참고도면 1.1



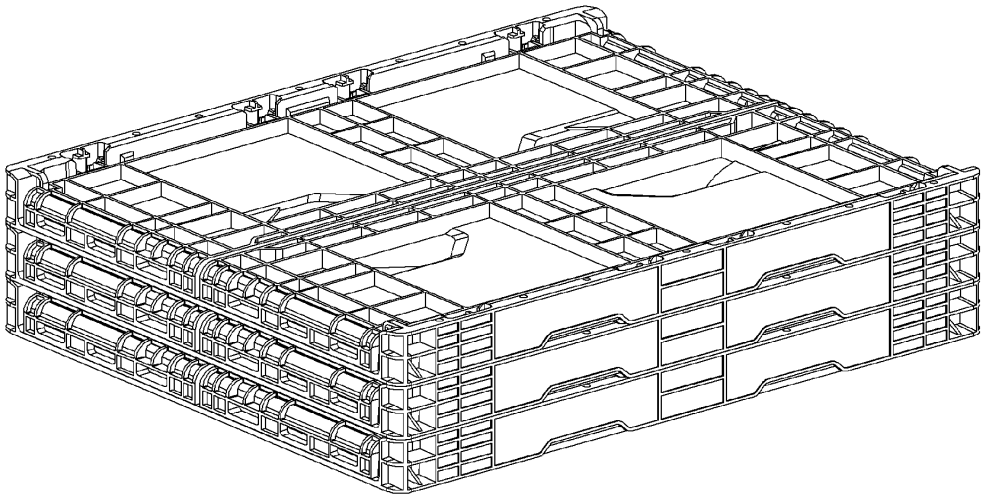
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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

참고도면 1.2



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참고도면1.3



Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2647
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Abstract of KR3008599650000

No.	Contents
M001	The present application design combines the shape of "transportation box" and combination of the shape to the essentials of the creation.

No.	Contents
M001	1. The material is the plastic material etc. 2. [Fig. 1.1] It is drawing expressing the whole form of the silver the present application design and it is drawing in which [fig. 1.2] [fig. 1.3] [fig. 1.4] expresses the left side of the present application design the rear side of the present application design the front side of the present application design and [fig. 1.5] [fig. 1.6] [fig. 1.7] expresses the bottom surface of the present application design the plane of the present application design the right side of the present application design and [fig. 1.8] expresses the whole form in the bottom surface. 3. [1.1 it is the referential view] It is the used state view when folding the silver the present application design and it is the used state view in which [1.2 it is the referential view] folds the present application design and laminated and it is the used state view before [1.3 it is the referential view] puts the object into the present application design and it is the used state view in which [1.4 it is the referential view] puts the object into the present application design and laminated.

(19) 대한민국특허청(KR)
(12) 등록디자인공보(S)

(45) 공고일자 2016년06월22일
(11) 등록번호 30-0859965
(24) 등록일자 2016년06월15일

(52) 분류 G1-50
(51) 국제분류 09-03
(21) 출원번호 30-2016-0005371
(22) 출원일자 2016년02월03일

(73) 디자인권자
엔피씨(주)
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(72) 창작자
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(74) 대리인
특허법인다래

담당심사관 : 김혜숙

(54) 명칭 운반용 상자

디자인도면

물품류

제9류

디자인의 대상이 되는 물품

운반용 상자

디자인의 설명

1. 재질은 합성수지재 등임.

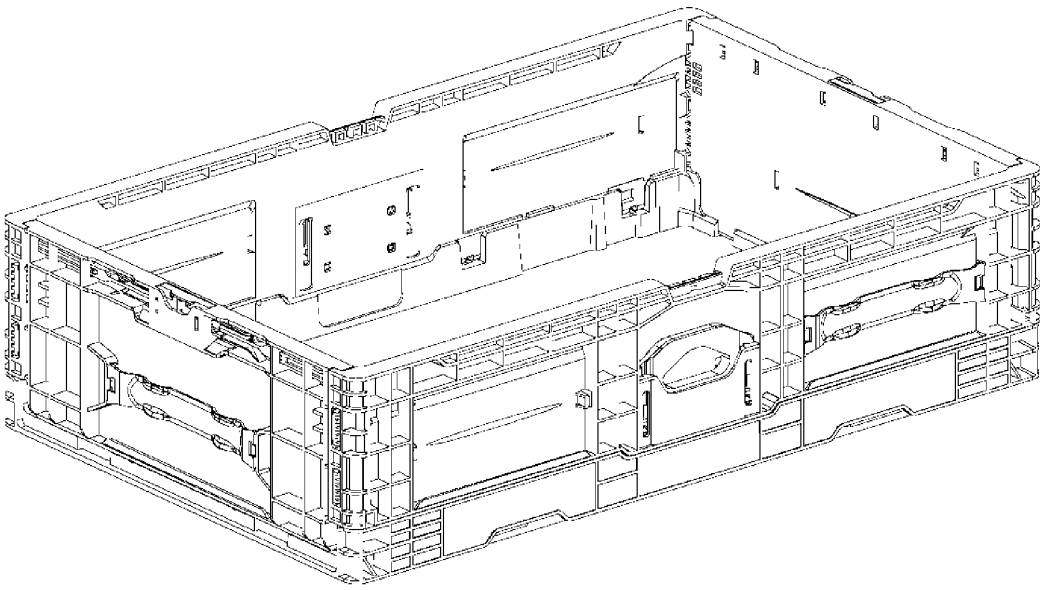
2. [도면 1.1]은 본원디자인의 전체적인 형태를 표현한 도면이고, [도면 1.2]는 본원디자인의 정면을, [도면 1.3]은 본원디자인의 배면을, [도면 1.4]는 본원디자인의 좌측면을, [도면 1.5]는 본원디자인의 우측면을, [도면 1.6]은 본원디자인의 평면을, [도면 1.7]은 본원디자인의 저면을 표현한 도면이고, [도면 1.8]은 저면에서 전체적인 형태를 표현한 것임.

3. [참고도면 1.1]은 본원디자인을 접었을 때의 사용상태도 이고, [참고도면 1.2]는 본원디자인을 접어서 적층시킨 사용상태도 이며, [참고도면 1.3]은 본원디자인에 물건을 담기 전의 사용상태도 이고, [참고도면 1.4]는 본원디자인에 물건을 담고 적층시킨 사용상태도임.

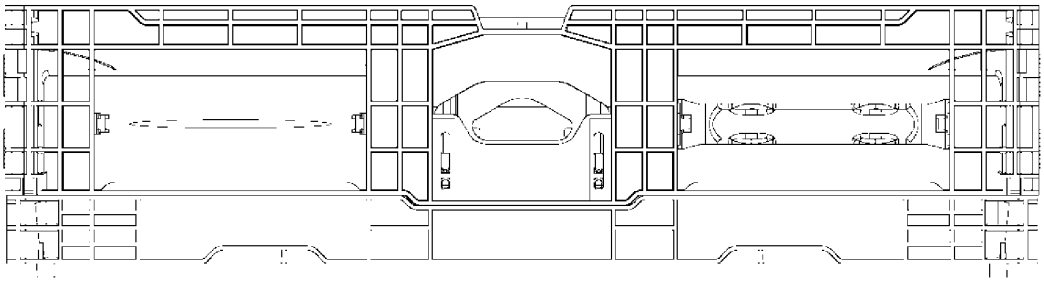
디자인 창작 내용의 요점

본원디자인은 "운반용 상자"의 형상과 모양의 결합을 디자인창작 내용의 요점으로 함.

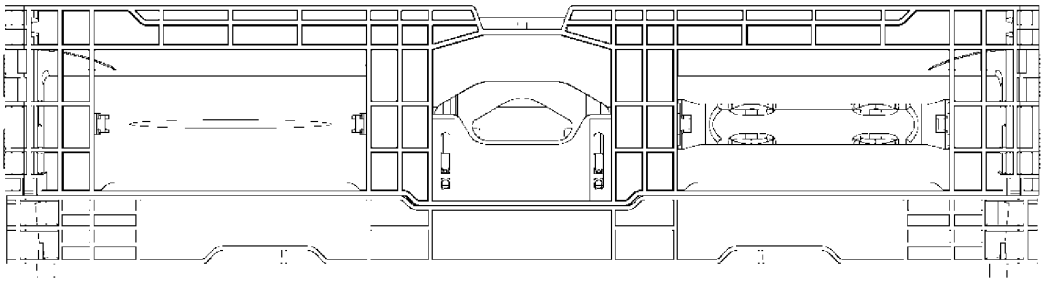
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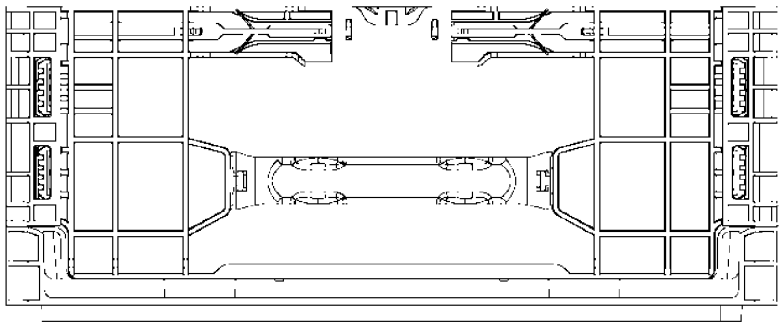
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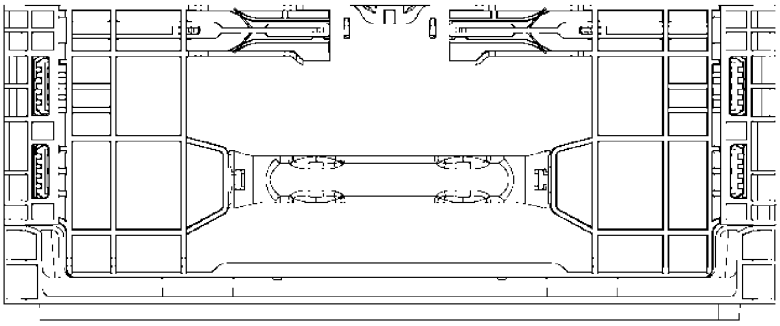
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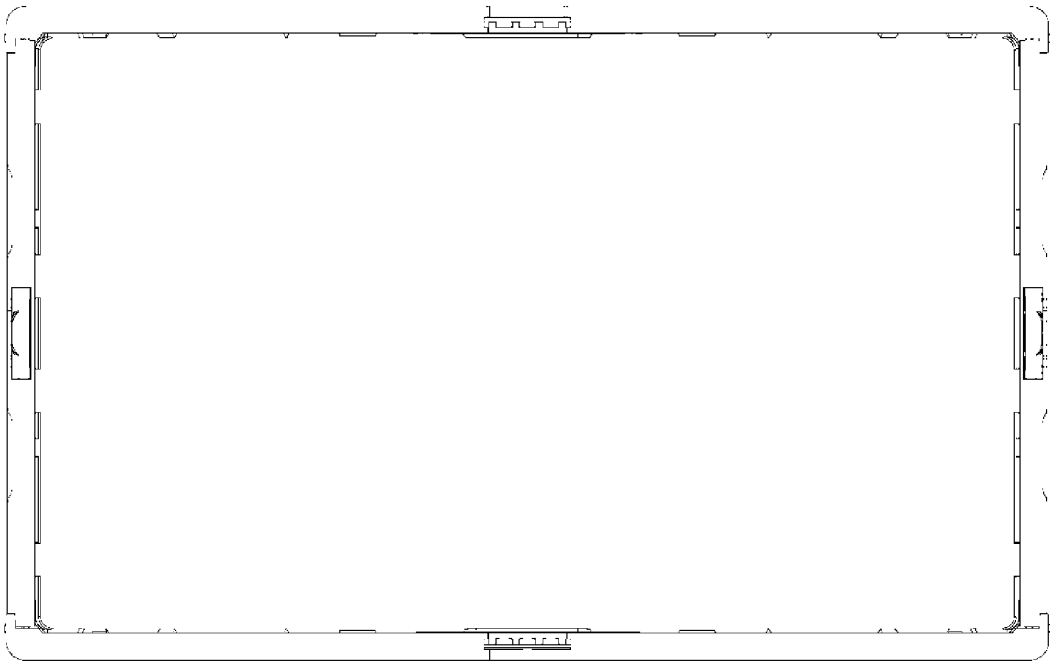
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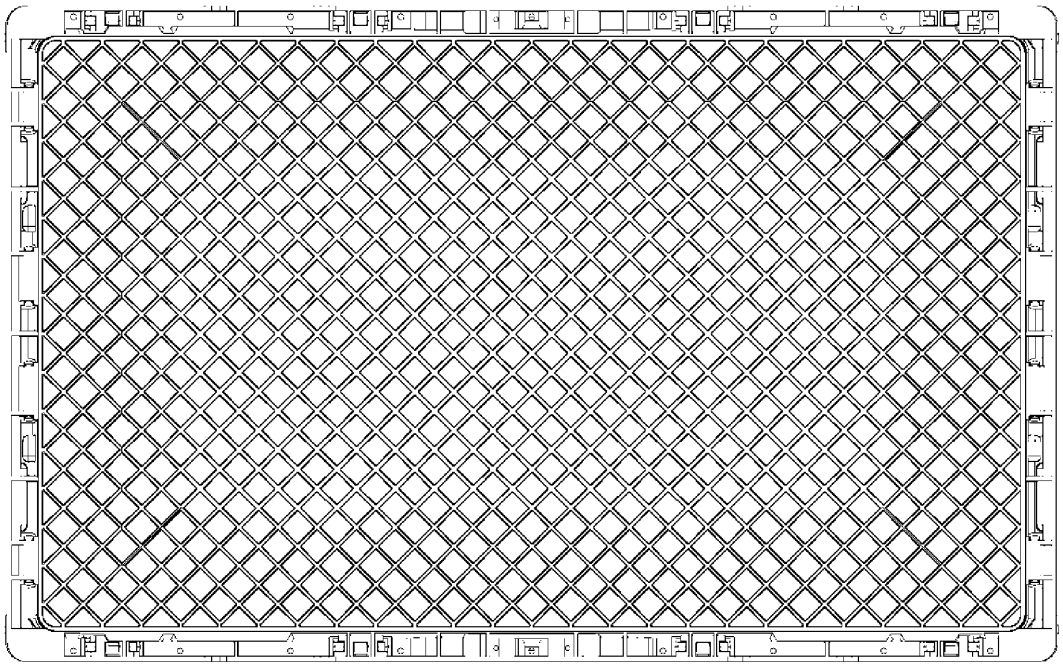
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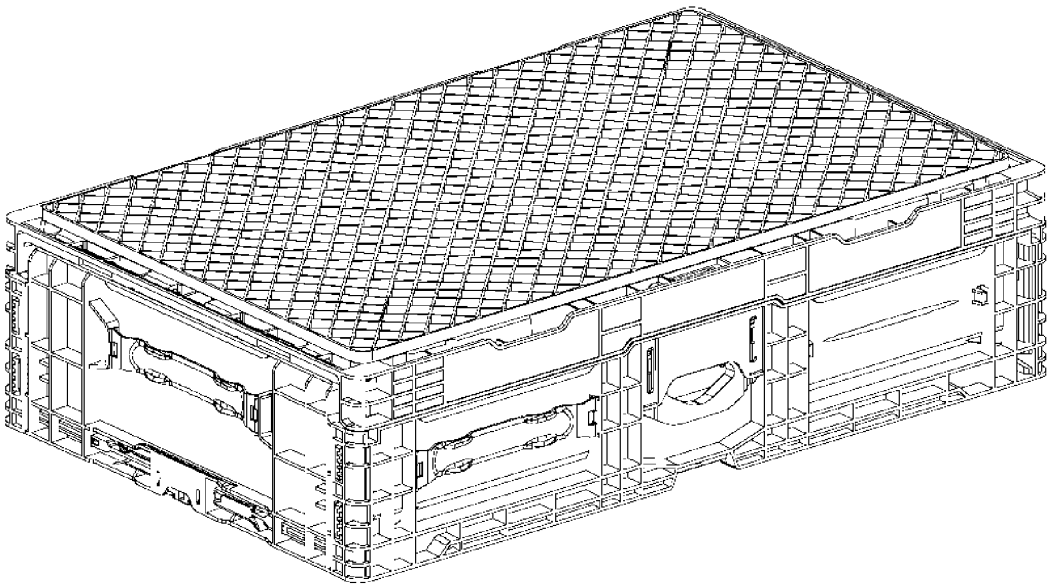
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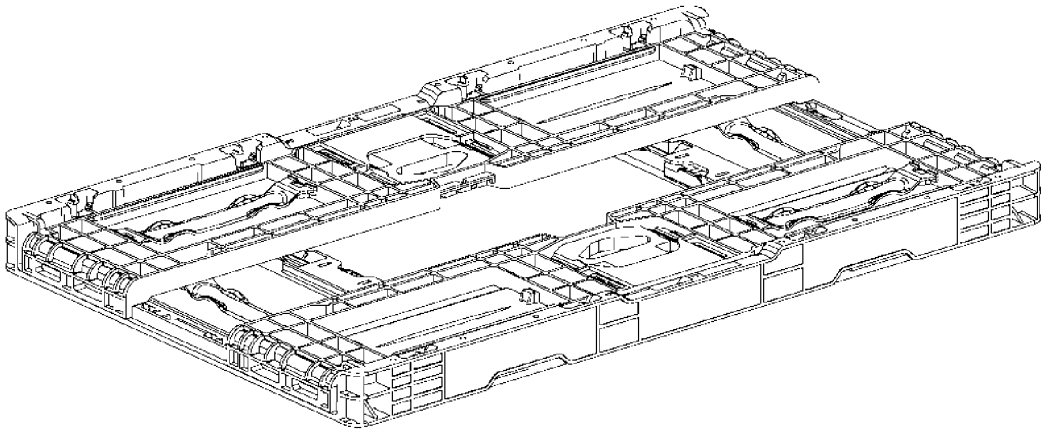
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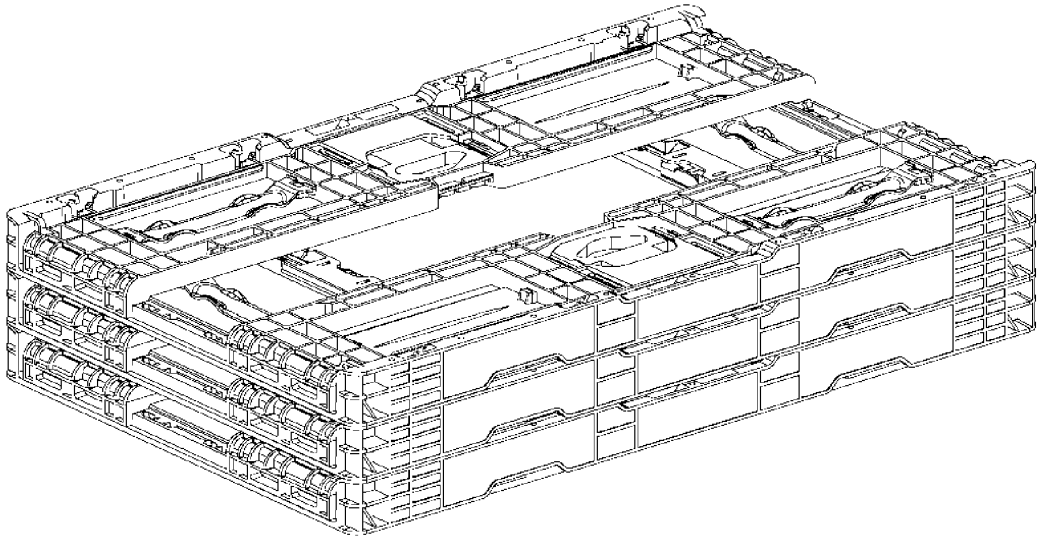
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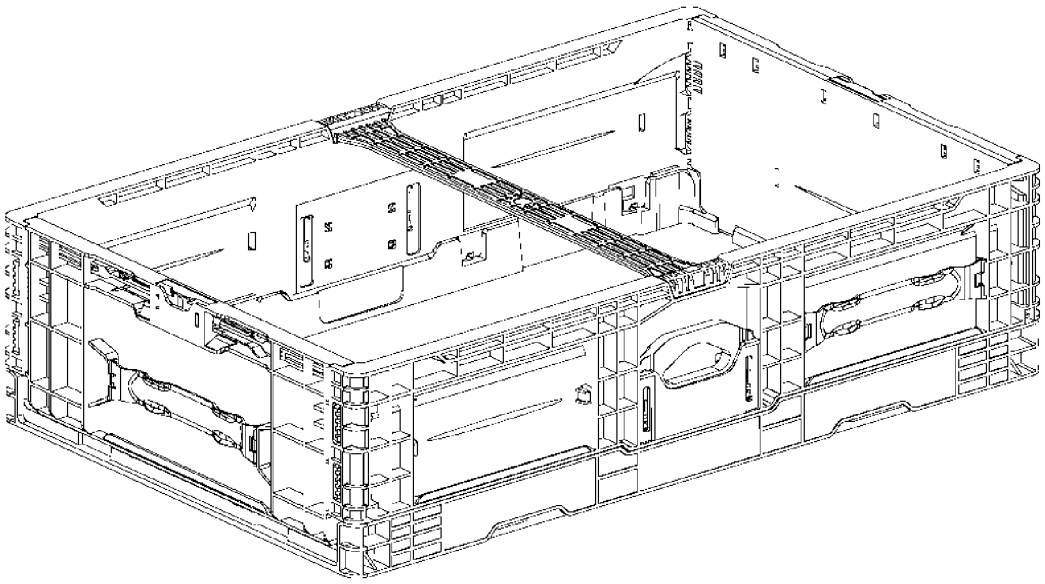
참고도면1.1



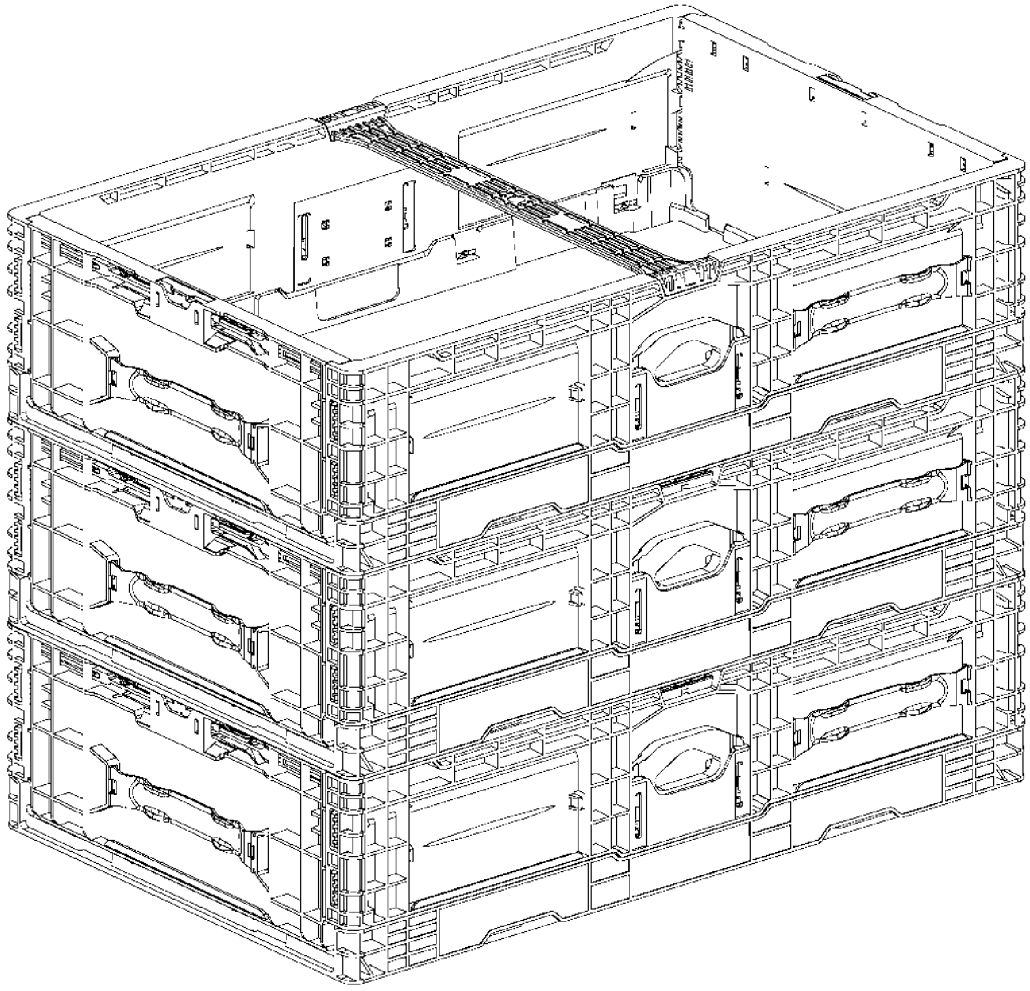
참고도면1.2



참고도면1.3



참고도면1.4



Abstract of KR300842236

No.	Contents
M001	The present application design combines the shape of "transportation box" design and combination of the shape to the essentials of the creation.

No.	Contents
M001	1. The material is the plastic material. 2. [Fig. 1.1] It is drawing showing the whole silver the present application design article and [fig. 1.2] [fig. 1.3] [fig. 1.4] [fig. 1.5] [fig. 1.6] [fig. 1.7] [fig. 1.8] shows whole the bottom surface of the present application design article the plane of the present application design article the right side of the present application design article the left side of the present application design article the rear side of the present application design article the front side of the present application design article in the bottom surface. 3. [The reference is 1.1] It is the silver the present application design article the used state view of the foldable state and it is the used state view when laminating in the state that [the reference is 1.2] does not turn down the present application design article and it is the used state view when [referential view 1.3] laminates the present application design article in the foldable state.

(19) 대한민국특허청(KR)
(12) 등록디자인공보(S)

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(72) 창작자
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특허법인다래

담당심사관 : 박철성

(54) 명칭 운반용상자

디자인도면

물품류

제9류

디자인의 대상이 되는 물품

운반용상자

디자인의 설명

1. 재질은 합성수지재임.

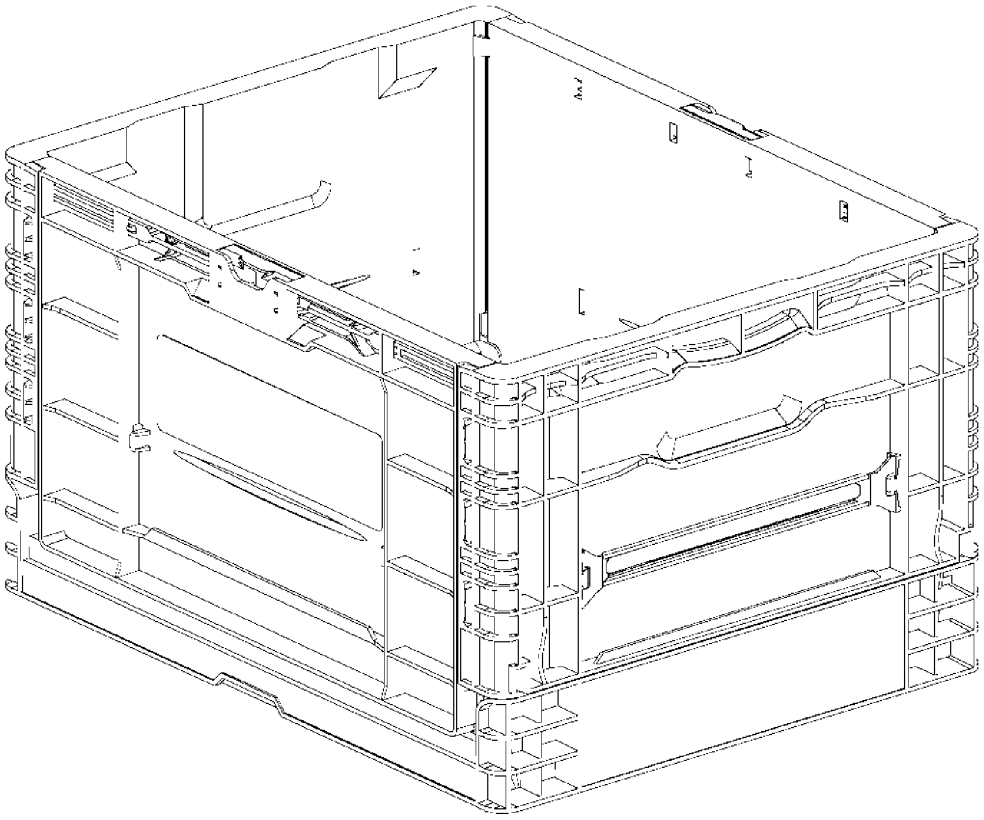
2. [도면 1.1]은 본원디자인 물품의 전체를 나타낸 도면이며, [도면 1.2]는 본원디자인 물품의 정면을, [도면 1.3]은 본원디자인 물품의 배면을, [도면 1.4]는 본원디자인 물품의 좌측면을, [도면 1.5]는 본원디자인 물품의 우측면을, [도면1.6]은 본원디자인 물품의 평면을, [도면 1.7]은 본원디자인 물품의 저면을, [도면 1.8]은 저면에서 전체를 도시한 것임.

3. [참고도 1.1]은 본원디자인 물품을 접은 상태의 사용상태도이고, [참고도 1.2]는 본원디자인 물품을 접지 않은 상태에서 적층시킬 때의 사용상태도이며, [참고도1.3]은 본원디자인 물품을 접은 상태에서 적층시킬 때의 사용상태도임.

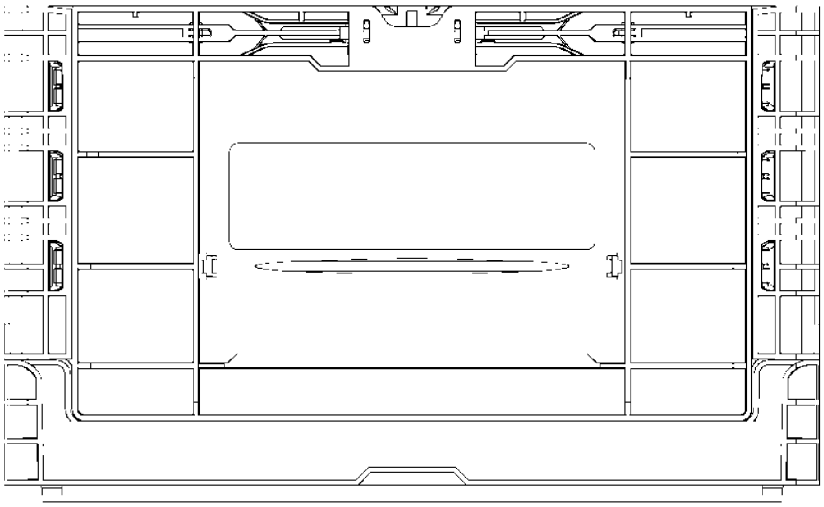
디자인 창작 내용의 요점

본원디자인은 "운반용상자" 디자인의 형상과 모양의 결합을 그 디자인창작 내용의 요점으로 함.

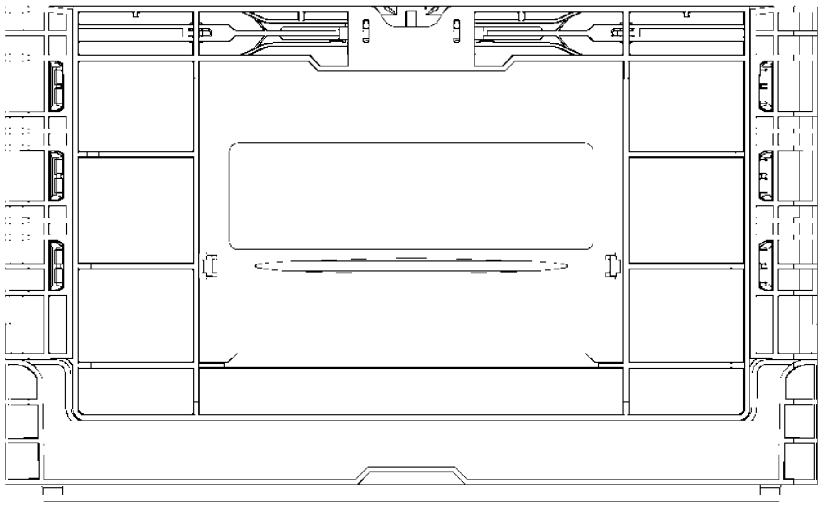
도면 1.1



도면 1.2

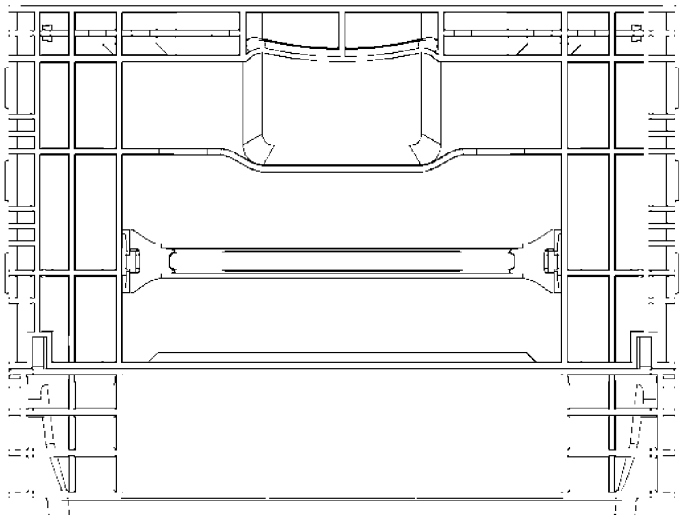


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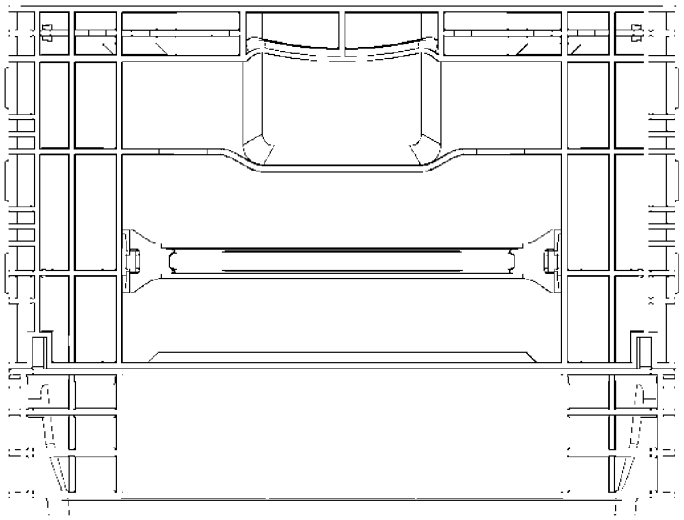


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IPR2024-01400

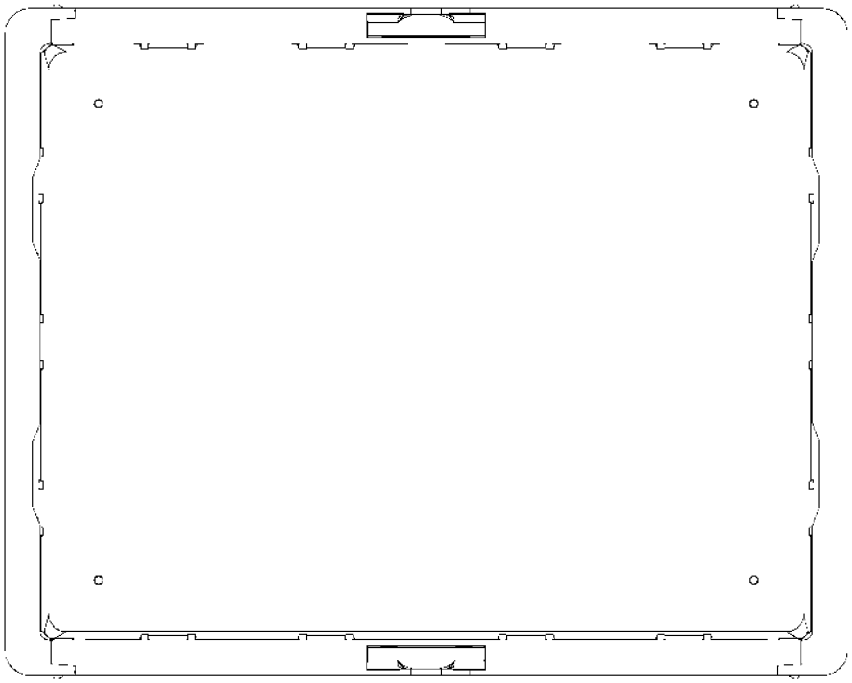
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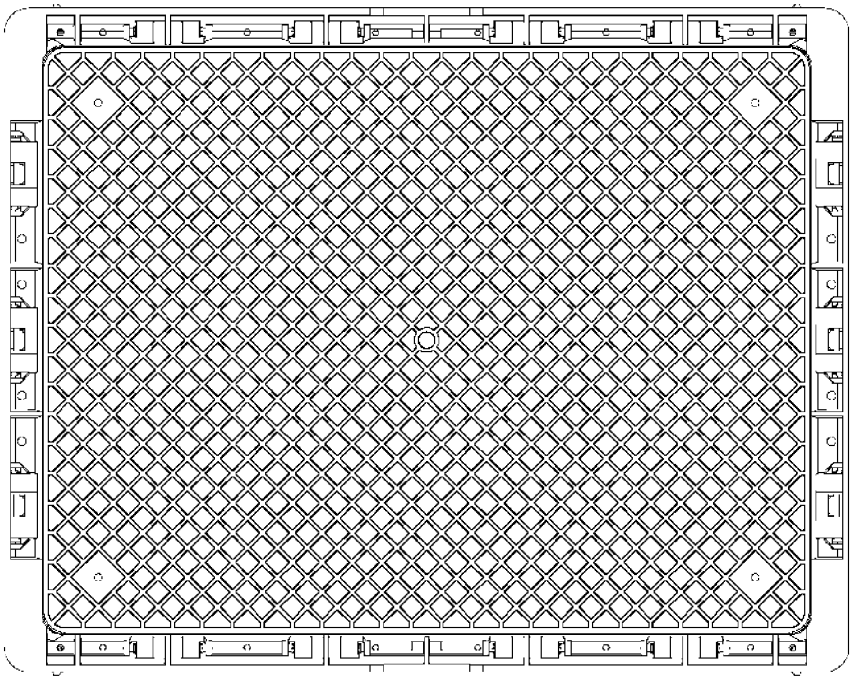
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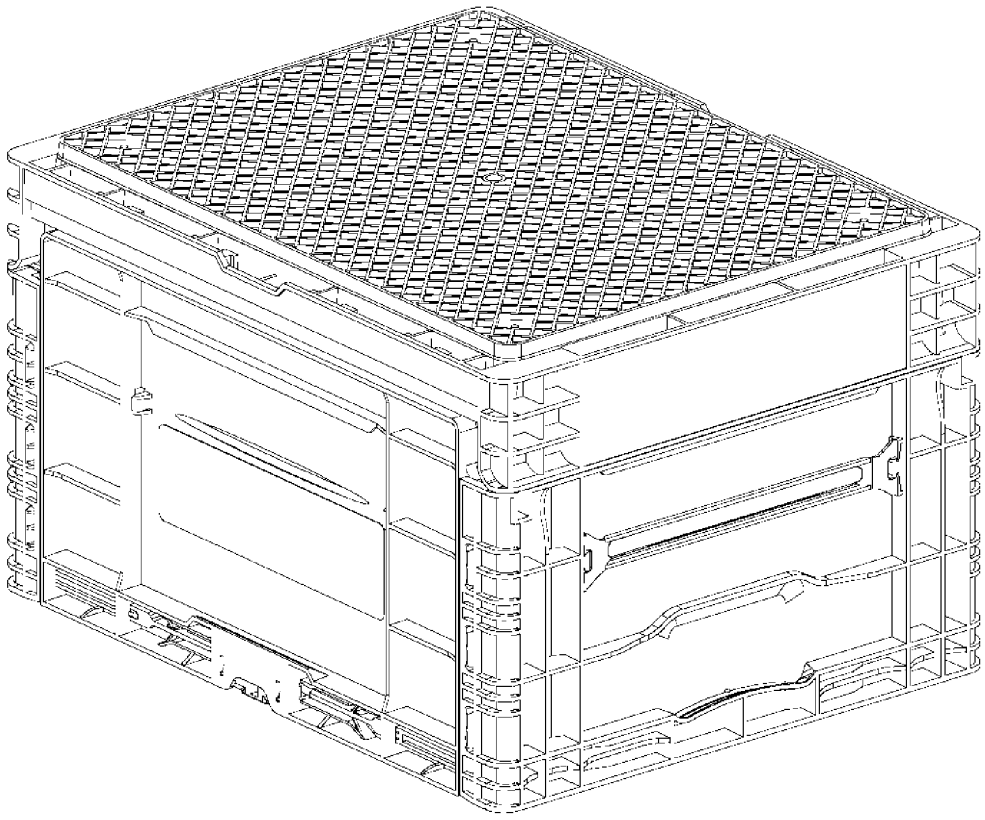
도면 1.6



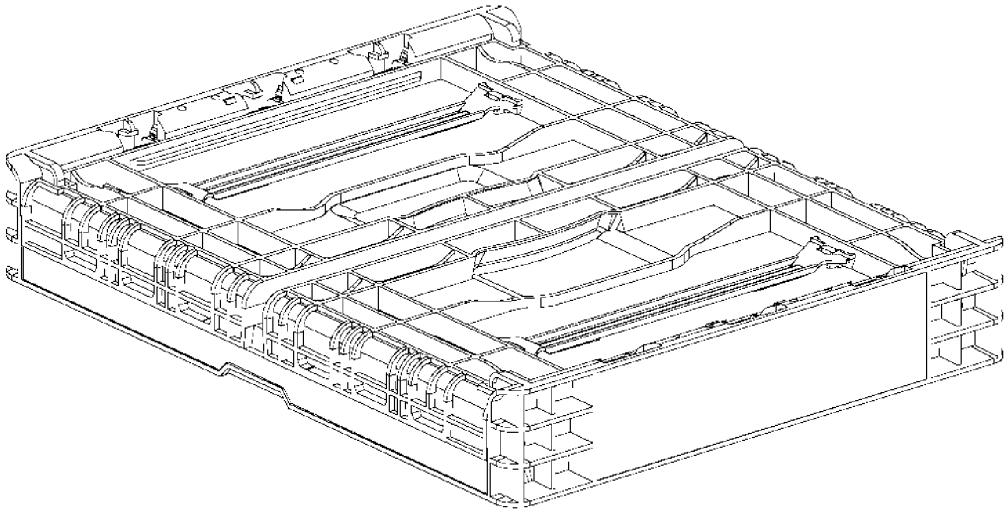
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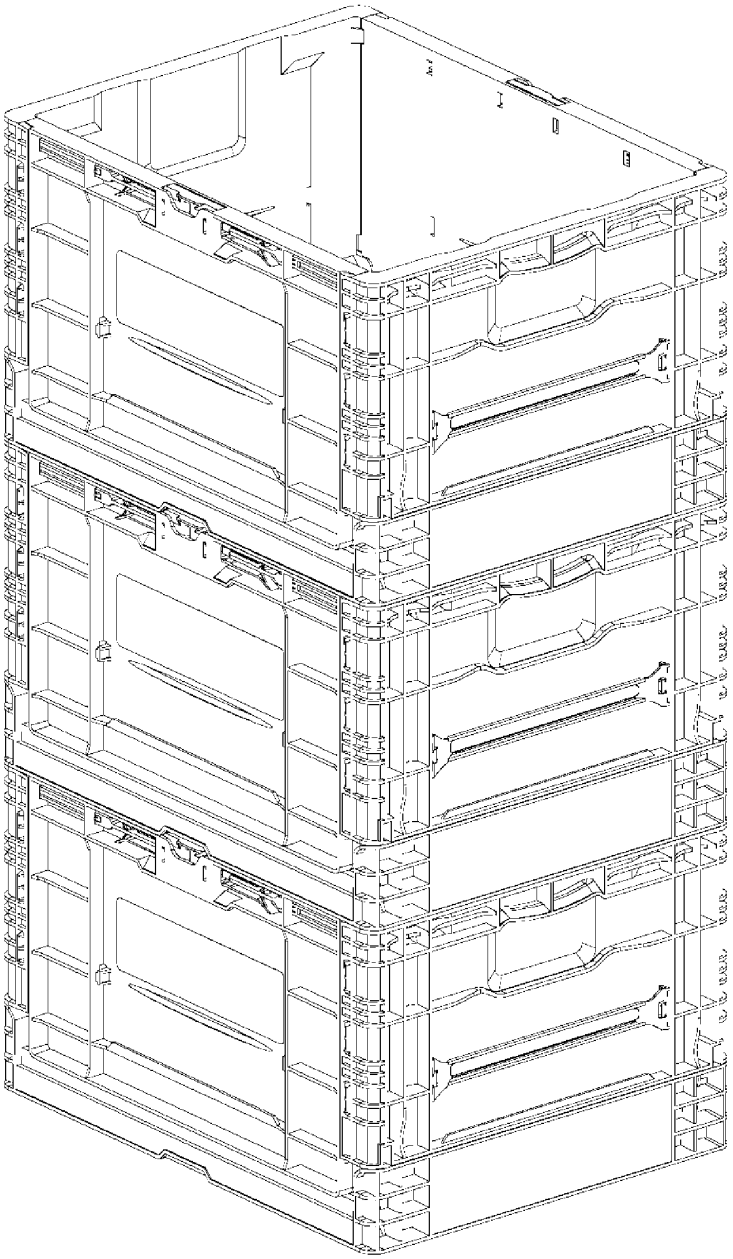
도면 1.8



참고도면1.1



참고도면1.2



참고도면1.3

등록디자인 30-0842236

Europäisches Patentamt
European Patent Office
Office européen des brevets

Espacenet

CN204161752U Storage box component system

Applicants: MERIDIAN INT CO LTD

Inventors: BRENT CHRISTOPHER

Classifications:

IPC ***B65D21/036;***

CPC **B25H3/02 (EP,US); B65D21/0219 (EP,US);** B65D21/022 (US); B65D21/0222 (US); B65D21/0223 (US); B65D25/282 (EP,US);

Priorities: US201414242412A 2014-04-01

Application: CN204161752U·2014-09-03

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Storage box component system

Abstract

A storage box component system comprises a first storage box and a second storage box, the second storage box comprises a second bottom face which is provided with an annular edge, and the first storage box comprises a first top face; when the second storage box is stacked on the upper portion of the first storage box, the first top face is embedded in the annular edge of the second bottom face, and connection devices which are arranged on one side of the first storage box and one side of the second storage box respectively and can move between a buckling position and an opening position connect the second storage box and the first storage box; the connection devices are flush with one side of the second storage box, a system is high in modularization degree, and reliability of the stacking state of the boxes is improved.

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(19)中华人民共和国国家知识产权局

(12)实用新型专利

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代理人 成丽杰

(51)Int.Cl.
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(ESM)同样的发明创造已同日申请发明专利

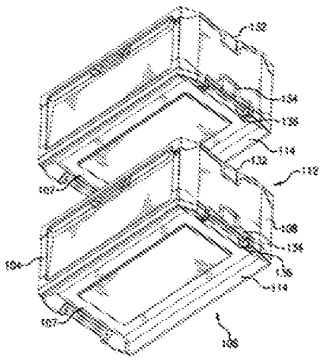
权利要求书2页 说明书6页 附图11页

(54)实用新型名称

储物箱组件系统

(57)摘要

一种储物箱组件系统，包括：第一储物箱以及形成有环状边缘的第二底面的第二储物箱，所述第一储物箱具有第一顶面，当所述第二储物箱堆叠置于所述第一储物箱上部位置时，所述第一顶面嵌套在所述第二底面的所述环状边缘以内，分别设置在所述第一和第二储物箱的一侧并可在一锁扣位置和一开启位置之间运动的连接装置将所述第二储物箱与所述第一储物箱相连接，该连接装置与所述第二储物箱的所述一侧平齐，系统模块化程度较高、同时也提高了箱体堆叠状态的可靠性。



CN 204161752 U

1. 一种储物箱组件系统，包括：

具有通向可储存物品的第一空间的第一开口、以及封闭所述第一开口的第一箱盖的第一储物箱；

具有通向可储存物品的第二空间的第二开口、封闭所述第二开口的第二箱盖、以及形成有环状边缘的第二底面的第二储物箱，其特征在于：

所述第一储物箱具有第一顶面，当所述第二储物箱堆叠置于所述第一储物箱上部位置时，所述第一顶面嵌套在所述第二底面的所述环状边缘以内，以及；

包括一分别设置在所述第一和第二储物箱的一侧，并可在一锁扣位置和一开启位置之间运动，用来将所述第二储物箱与所述第一储物箱连接的连接装置，所述连接装置与所述第二储物箱的所述一侧平齐。

2. 如权利要求 1 所述的储物箱组件系统，其特征在于：所述第一储物箱进一步包括与所述第一顶面处于相对位置的第一底面，所述第二储物箱进一步包括一与所述第二底面处于相对位置的第二顶面；所述第一顶面设有呈 45° 角向上凸起的第一部位，所述第二底面的所述边缘与所述第一部位相配合并向所述第二空间方向延伸。

3. 如权利要求 1 所述的储物箱组件系统，其特征在于：所述第一箱盖位于所述第一储物箱的正面，所述第一箱盖沿正面方向向外移开以露出所述第一空间。

4. 如权利要求 1 所述的储物箱组件系统，其特征在于：所述第二箱盖位于所述第二储物箱的正面，所述第二箱盖沿正面方向向外移开以露出所述第二空间。

5. 如权利要求 1 所述的储物箱组件系统，其特征在于：所述第一箱盖、第二箱盖分别包括一个起锁闭作用以防止其移动的闩锁装置。

6. 如权利要求 1 所述的储物箱组件系统，其特征在于：所述连接装置包括一第一本体、一第二本体、一个枢接在所述第二本体的偏置闩锁，以及夹设在所述偏置闩锁一侧的板簧，所述第一本体置于所述第一顶面的左侧或右侧，所述第二本体对应置于所述第二底面的左侧或右侧，所述偏置闩锁在所述板簧力作用下与所述第一本体相连。

7. 如权利要求 6 所述的储物箱组件系统，其特征在于：所述第一本体界定出一纵长把手以供用户搬运所述储物箱。

8. 一种储物箱组件系统，包括：

一第一储物箱，所述第一储物箱包括正面、背面、右面、左面、顶面、及底面，并由所述的面包围限定了第一空间，其特征在于：于所述顶面的左、右两侧设有一对同时充当把手和钩挂部的第一本体，于所述底面的左、右两侧设有一安装偏置闩锁的第二本体，所述偏置闩锁可在一锁紧位置及一开启位置运动以将所述第一储物箱与一第二储物箱连接。

9. 如权利要求 8 所述的储物箱组件系统，其特征在于：所述偏置闩锁延伸超出所述底面。

10. 如权利要求 9 所述的储物箱组件系统，其特征在于：所述偏置闩锁还包括一个延伸至所述第二储物箱的顶面位置的钩部。

11. 如权利要求 10 所述的储物箱组件系统，其特征在于：所述第二储物箱包括一个由其顶面、底面、右面、左面、正面和背面包围限定的第二空间，所述顶面的左、右两侧各设有一用以与所述偏置闩锁相连的第一本体，所述底面的左、右两侧各设有一第二本体以及设置在所述第二本体的用以将所述第二储物箱与所述第一储物箱相连接的可移动的第二偏

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置闩锁。

12. 如权利要求 11 所述的储物箱组件系统，其特征在于：所述第一储物箱的所述顶面设有一第一定位装置，所述第一定位装置包括一由所述第一储物箱的所述顶面为基准向上隆起的作为公端的第一部位，所述第一部位逐渐过渡形成与所述顶面平行的定位凹槽，所述第二储物箱的所述底面设有一第二定位装置，所述第二定位装置包括由所述底面的边缘横向过渡，并向内凹陷的作为母端的第二部位，所述第二部位逐渐过渡形成与所述的定位凹槽相配对的定位凸起，所述第一部位与所述第二部位相配合、所述定位凹槽与所述定位凸起相互嵌套啮合，以限制第一储物箱和第二储物箱彼此在轴向和径向方向上的相对移动。

13. 如权利要求 11 所述的储物箱组件系统，其特征在于：所述第一储物箱的所述底面设有一第二定位装置，所述第二定位装置包括由所述底面的边缘横向过渡，并向内凹陷的作为母端的第二部位，所述第二部位逐渐过渡形成与所述底面相平行的定位凸起，所述第二储物箱的所述顶面设有一第一定位装置，所述第一定位装置包括一由所述第二储物箱的所述顶面为基准向上隆起的作为公端的第一部位，所述第一部位逐渐过渡形成与所述定位凸起相配对的定位凹槽，所述第一部位与所述第二部位相配合、所述定位凹槽与所述定位凸起相互嵌套啮合，以限制第一储物箱和第二储物箱彼此在轴向和径向方向上的相对移动。

14. 一种储物箱组件系统，其特征在于：包括：

一具有通向可储存物品的第一空间的第一开口、至少可部分封闭所述第一开口的第一箱盖、一个用于搬运的把手，用以起连接限位作用的第一定位凸起及第一定位凹槽的第一储物箱，

一具有通向可存储物品的第二空间的第二开口、至少可部分封闭所述第二开口的第二箱盖、一可在连接位置和开启位置之间移动以连接所述第一储物箱的所述把手的偏置闩锁、用以起连接限位作用的第二定位凸起及第二定位凹槽的第二储物箱；

所述第二储物箱放置在所述第一储物箱上方，所述第一储物箱的第一定位凹槽与所述第二储物箱的第二定位凸起相嵌套配合。

15. 如权利要求 14 所述的储物箱组件系统，其特征在于：所述偏置闩锁与所述第二储物箱的侧部平齐。

16. 如权利要求 15 所述的储物箱组件系统，其特征在于：所述第一储物箱的第一定位凹槽包围所述第二储物箱的第二定位凸起，并且嵌套的位置处于所述第一储物箱的顶面。

17. 如权利要求 16 所述的储物箱组件系统，其特征在于：所述偏置闩锁位于所述第二储物箱的右侧或左侧、所述把手对应所述偏置闩锁位于所述第一储物箱的右侧或左侧，所述偏置闩锁进一步包括用以与所述把手相连接钩部，所述把手位置具有供用户手搬运所述第二储物箱的空间。

18. 如权利要求 17 所述的储物箱组件系统，其特征在于：所述偏置闩锁的位置与所述第二储物箱的底面持平，所述偏置闩锁与所述第一储物箱上的所述把手弹性连接，从而将第一储物箱和第二储物箱连接起来。

19. 如权利要求 18 所述的储物箱组件系统，其特征在于：所述第二储物箱的顶面的左、右两侧也设有同时起搬运及连接作用的把手。

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储物箱组件系统

技术领域

[0001] 本实用新型涉及到一种储物箱组件系统，属五金工具领域，特别是指一种每个单独的储物箱可以彼此连接在一起的储物箱组件系统。

背景技术

[0002] 工具储存系统通常被企业或者用户用来存放和整理工具、备用零件、紧固件或者其他类似物品。工具储存系统的范围涵盖从包括只有一个储物空间的单个储物箱产品到配置了多个具有多个储物空间的储物箱组件系统产品，以适应不同的需求。现有的储存产品存在许多不足，因此，在目前的制造业中，存在对现有的储存系统不断进行完善的需求，使其更高效，更方便使用，具有模块化，和 / 或其它的更多功能。

实用新型内容

[0003] 本实用新型的目的是为克服现有的存储产品的缺陷，给用户提供一种更人性化的、具有更好灵活性及模块化、高效的存储系统，本实用新型采用如下的技术方案实现该目的，一种储物箱组件系统，包括：

[0004] 具有通向可储存物品的第一空间的第一开口、以及至少可部分封闭所述第一开口的第一箱盖的第一储物箱；

[0005] 具有通向可存储物品的第二空间的第二开口、至少可部分封闭所述第二开口的第二箱盖、以及形成有环状边缘的第二底面的第二储物箱：

[0006] 所述第一储物箱具有第一顶面，当所述第二储物箱堆叠置于所述第一储物箱上部位置时，所述第一顶面嵌套在所述第二底面的所述环状边缘以内，以及；

[0007] 包括一分别设置在所述第一和第二储物箱的一侧并可在一锁扣位置和一开启位置之间运动用来将所述第二储物箱与所述第一储物箱连接的连接装置，所述连接装置与所述第二储物箱的所述一侧平齐。

[0008] 进一步的，所述第一储物箱进一步包括与所述第一顶面处于相对位置的第一底面，所述第二储物箱进一步包括一与所述第二底面处于相对位置的第二顶面，所述第一顶面设有呈 45° 角向上凸起的第一部位，所述第二底面的所述环状边缘与所述第一部位相配合并向所述空间方向延伸。

[0009] 进一步的，所述第一箱盖位于所述第一储物箱的正面，所述第一箱盖可沿正面方向向外移开以露出第一空间。

[0010] 进一步的，所述第二箱盖位于所述第二储物箱的正面，所述第二箱盖可沿正面方向向外移开以露出第二空间。

[0011] 进一步的，所述第一箱盖、第二箱盖分别包括一个起锁闭作用以防止其移动的闩锁装置。

[0012] 进一步的，所述连接装置包括一第一本体、一第二本体、一个枢接在所述第一本体的偏置闩锁，以及夹设在所述偏置闩锁一侧的板簧，所述第一本体置于所述第一顶面的左

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侧或右侧，所述第二本体对应置于所述第二底面的左侧或右侧，所述偏置闩锁在所述板簧力作用下与所述第一本体相连。

[0013] 进一步的，所述第一本体界定出一纵长把手以供用户搬运所述储物箱。

[0014] 在另一实施例中，本实用新型还采用了如下的技术方案实现该目的，一种储物箱组件系统，包括：

[0015] 一第一储物箱，所述第一储物箱包括正面、背面、右面、左面、顶面、及底面，并由所述的面包围限定了第一空间，于所述顶面的左、右两侧设有一对同时充当把手和钩挂部的第一本体，于所述底面的左、右两侧设有一安装偏置闩锁的第二本体，所述偏置闩锁可在一锁紧位置及一开启位置运动以将所述第一储物箱与一第二储物箱连接。

[0016] 进一步的，所述偏置闩锁延伸超出所述底面。

[0017] 进一步的，所述偏置闩锁还包括一个延伸至所述第二储物箱的顶面位置的钩部。

[0018] 进一步的，所述第二储物箱包括一个由其顶面、底面、右面、左面、正面和背面包围限定的第二空间，所述顶面的左、右两侧各设有一用以与所述偏置闩锁相连的第一本体，所述底面的左、右两侧各设有一第二本体以及设置在所述第二本体的用以将所述第二储物箱与所述第一储物箱相连接的可移动的第二偏置闩锁。

[0019] 进一步的，所述第一储物箱的所述顶面设有一第一定位装置，所述第一定位装置包括一由所述第一储物箱的所述顶面为基准向上隆起的作为公端的第一部位，所述第一部位逐渐过渡形成与所述顶面平行的定位凹槽，所述第二储物箱的所述底面设有一第二定位装置，所述第二定位装置包括由所述底面的边缘横向过渡，并向内凹陷的作为母端的第二部位，所述第二部位逐渐过渡形成与所述的定位凹槽相配对的定位凸起，所述第一部位与所述第二部位相配合、所述定位凹槽与所述定位凸起相互嵌套啮合，以限制第一储物箱和第二储物箱彼此在轴向和径向方向上的相对移动。

[0020] 进一步的，所述第一储物箱的所述底面设有一第二定位装置，所述第二定位装置包括由所述底面的边缘横向过渡，并向内凹陷的作为母端的第二部位，所述第二部位逐渐过渡形成与所述底面相平行的定位凸起，所述第二储物箱的所述顶面设有一第一定位装置，所述第一定位装置包括一由所述第二储物箱的所述顶面为基准向上隆起的作为公端的第一部位，所述第一部位逐渐过渡形成与所述定位凸起相配对的定位凹槽，所述第一部位与所述第二部位相配合、所述定位凹槽与所述定位凸起相互嵌套啮合，以限制第一储物箱和第二储物箱彼此在轴向和径向方向上的相对移动。

[0021] 在另一实施例中，本实用新型还采用了如下的技术方案实现该目的，一种储物箱组件系统，包括：

[0022] 一具有通向可储存物品的第一空间的第一开口、至少可部分封闭所述第一开口的第一箱盖、一个用于搬运的把手，用以起连接限位作用的第一定位凸起及第一定位凹槽的第一储物箱，

[0023] 一具有通向可存储物品的第二空间的第二开口、至少可部分封闭所述第二开口的第二箱盖、一可在连接位置和开启位置之间移动以连接所述第一储物箱的所述把手的偏置闩锁、用以起连接限位作用的第二定位凸起及第二定位凹槽的第二储物箱，

[0024] 所述第二储物箱放置在所述第一储物箱上方，所述第一储物箱的第一定位凹槽与所述第二储物箱的第二定位凸起相嵌套配合。

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[0025] 进一步的，所述偏置闩锁与所述第二储物箱的侧部平齐。

[0026] 进一步的，所述第一储物箱的第一定位凹槽包围所述第二储物箱的第二定位凸起，并且嵌套的位置处于所述第一储物箱的顶面。

[0027] 进一步的，所述偏置闩锁位于所述第二储物箱的右侧或左侧、所述把手对应所述偏置闩锁位于所述第一储物箱的右侧或左侧，所述偏置闩锁进一步包括用以与所述把手相连接钩部，所述把手位置具有供用户手搬运所述第二储物箱的空间。

[0028] 进一步的，所述偏置闩锁的位置与所述第二储物箱的底面持平，所述偏置闩锁与所述第一储物箱上的所述把手弹性连接，从而将第一储物箱和第二储物箱连接起来。

[0029] 进一步的，所述第二储物箱的顶面的左、右两侧也设有同时起搬运及连接作用的把手。

[0030] 应用本实用新型的技术方案，箱体之间的组合更为人性化、具有更好灵活性，给用用户提供了采用相同结构的箱体相结合、亦可采用不同结构的箱体相结合的多种选择，系统模块化程度较高、同时也提高了箱体堆叠状态的可靠性。

附图说明

[0031] 图 1A 是本实用新型储物箱组件系统的第一实施例，单个储物箱在分离状态时的三维立体视图；

[0032] 图 1B 是如图 1A 中本实用新型储物箱组件系统的第一实施例，单个储物箱在分离状态时的从另一角度显示的三维立体视图；

[0033] 图 2A 是如图 1A 中的本实用新型储物箱组件系统的第一实施例，在单个储物箱按如图 1A 所示方式连接后，沿剖面 2-2 横向剖切，并沿箭头方向观察的剖视图；

[0034] 图 2B 是如图 2A 中的区域 2B 部位的局部放大图；

[0035] 图 3A 是如图 1A 中的本实用新型储物箱组件系统的第一实施例，沿图 1A 中剖面 3A-3A 纵向剖切，并沿箭头方向观察的剖视图；

[0036] 图 3B 是图 3A 中的区域 3B 部位的局部放大图；

[0037] 图 4 显示是由前、后两个方向观察的如图 1A 中本实用新型储物箱组件系统的第一实施例中连接装置的分解图；

[0038] 图 5 是如图 2A 中区域 5 部位的局部放大图；

[0039] 图 6 是如图 1A 中的本实用新型储物箱组件系统的第一实施例，沿剖面 5-5 纵向剖切，并沿箭头方向观察的剖视图；

[0040] 图 7 是本实用新型储物箱组件系统的第二实施例的单个储物箱的三维视图；

[0041] 图 8 是本实用新型储物箱组件系统的第三实施例的单个储物箱的三维视图；

[0042] 图 9 是本实用新型储物箱组件系统的第四实施例的单个储物箱的三维视图；

[0043] 图 10 是如图 1A 中本实用新型储物箱组件系统的第一实施例的单个储物箱的部件分解视图。

具体实施方式

[0044] 图 1A 至图 1B 显示了本实用新型储物箱组件系统 100 的第一实施例。包括按本实用新型方案连接并结合的第一储物箱 101 和第二储物箱 102。通常而言，第一储物箱 101 和

第二储物箱 102 具有相同结构，以保证第一储物箱 101 和第二储物箱 102 彼此都能够通过顶部和底部连接在一起。为满足提供用户多种不同需求的要求，提升产品的人性化及多样性特点，第一储物箱 101 或第二储物箱 102 也可以换用如在图 7-9 中所展示的储物箱 700、800、及 900 中的一个，或者与该等储物箱 700、800、900 中的一个分别连接在一起。图 10 中予以体现第一储物箱 101 和第二储物箱 102 的部件分解视图。

[0045] 为了更加直接和简洁的描述，本说明书中只对第一储物箱 101 进行描述。第一储物箱 101 具有由塑料盖板所形成的正面 104，背面 106，右面 108，左面 110，顶面 112，及底面 114 并包围限定了一个空间 116，可用于存放工具等物件。该空间 116 也可以通过将以任意方式的作为抽屉的前挡板 118 伸出以扩大该空间 116 的方式得到延伸利用。在不同的实施例中，该空间 116 还可通过移除或更换组合装配在正面 104 至底面 114 中的任意面上的盖子的方式加以延伸该空间 116。比如设置安装在顶面 112 的旋转顶盖或设置安装在正面 104 上的旋转前盖等。采用锁紧装置（未图示）、比如门闩，可将所述前挡板 118 与第一储物箱 101 锁合在一起。

[0046] 请一并参照图 2A、图 2B、图 3A、及图 3B 所示，第一储物箱 101 在顶面 112 和底面 114 分别设有一对第一定位装置 105 和第二定位装置 107，处于第一储物箱 101 的顶面 112 上的第一定位装置 105 有个作为公端的，并由第一储物箱 101 的顶面 112 的底部平面 122 为基准向上隆起形成的第一部位 120。一般而言，该第一部位 120 与形成在顶面 112 上的底部平面 122 呈 45° 角，但此角度可以是在 1° 到 89° 之间的任意角度。该第一部位 120 逐渐过渡到与形成在顶面 112 上的底部平面 122 大致平行的第二部位 124。该第二部位 124 逐渐过渡到第三部位 126。该第三部位 126 为一个配对的定位凹槽，它与形成在顶面 112 上的底部平面 122 也大致平行但在朝向顶面 112 上的底部平面 122 的方向上比该第二部位 124 低。然后在第一储物箱 101 的左面 110 上的第二部位 124 与右面 108 上的第二部位 124 之间形成了一个凹形的区域。

[0047] 请一并参照图 3B 中的第二储物箱 102 的连接方式，第二储物箱 102 放置在第一储物箱 101 的上方，并与前述第一储物箱 101 的结构基本相同。一个第二定位装置 107 设置在第二储物箱 102 的底面 114 上。第二储物箱 102 的底面 114 的周边围设该第二储物箱 102 的底面 114 于该周边范围内部，使第二定位装置 107 在朝向空间 116 的方向上高出底面 114 的周边。第二定位装置 107 具有朝向空间 116 方向延伸并具有横向过渡的第二部位 131 的第一部位 128。所述第二部位 131 为一个配对的定位凹槽，它与由底面 114 定义的平面大致平行（并且与顶面 112 的第二部位 124 平行）。该第二部位 131 慢慢过渡到形成配对的定位凸起的第三部位 135。该第三部位 135 与第二部位 131 大致平行且在朝远离空间 116 的方向上低于该第二部位 131。然后在第二储物箱 102 的左面 110 上的第二部位 131 和右面 108 上的第二部位 131 之间形成了一个凸起区域。

[0048] 如图 2A 至图 5 所示，随着第二储物箱 102 堆叠放置在第一储物箱 101 上方，第一储物箱 101 的顶面 112 上的第一部位 120 和第二部位 124 在轴向和径向两个方向上的移动被第二储物箱 102 的底面 114 的第一部位 128 和第二部位 131 堆叠住，反过来也是一样。同样，第一储物箱 101 上顶面 112 上的第三部位 126 也与底面 114 上的第三部位 135 堆叠在一起以防止其在轴向或径向上的移动。这种在第一储物箱 101 的顶面 112 和第二储物箱 102 的底面 114 之间的堆叠方案为本实用新型储物箱组件系统 100 提供了一个很坚固的结

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构，第一储物箱101和第一储物箱102之间的平滑过渡也为本实用新型储物箱组件系统100提供了一个整体式的外观。

[0049] 第一储物箱101和第二储物箱102之间可通过连接装置130机械式地锁合在一起。图4为由前、后两个方向观察的本实用新型储物箱组件系统100的第一实施例中连接装置130的分解图。图5显示当第二储物箱102与第一储物箱101堆叠在一起时，连接装置130的工作状态图。图6显示当第二储物箱102脱离第一储物箱101时，连接装置130开启状态图。连接装置130为一对，分左右设置，包括一个放置在靠近右面108顶部或左面110顶部的第一本体132、一个放置在靠近右面108或左面110底部的第二本体134、一个枢设于第二本体134的偏置闩锁136，以及夹设在偏置闩锁136一侧的板簧148。

[0050] 如图5为第二储物箱102与第一储物箱101堆叠时连接装置130工作状态图。第一本体132包括了一个把手138，它是由第一本体132的顶壁140界定出来的有着足够长度的开放区域，用以提供抓取或者供用户搬运第一储物箱101。顶壁140也充当偏置闩锁136连接第一储物箱101和第二储物箱102的钩挂部。偏置闩锁136包括一个主要为用户以旋转点146为中心旋转偏置闩锁136的抓取区域142，以及与顶壁140相挂的钩部144。板簧148提供维持钩部144与顶壁140相钩合的力。

[0051] 如图6所示，在操作中，用户可抓住抓取区域142，并向上旋转偏置闩锁136。此时偏置闩锁136克服板簧148的弹性力旋转而令钩部144与顶壁140相脱离，用户可藉此将处于上部的第二储物箱102搬离处于下部的第一储物箱101。当将第二储物箱102重新放置在第一储物箱101上时，用户手释放偏置闩锁136的抓取区域142，受板簧148恢复力作用，偏置闩锁136重新偏转回到工作位置，钩部144再次与顶壁140相钩合，将第一储物箱101和第二储物箱102连接在一起。偏置闩锁136大致上与第二储物箱102以及第一储物箱101的对应一面齐平。

[0052] 请一并参照图10所示，第一储物箱101（其他如第二储物箱102、其他实施例的储物箱700、800、900等也一样）可由金属和塑料两种材质组合制成。在本实施例中，第一储物箱101的金属框架200由一个或多个片材冲压的金属片装配而成。金属框架200由前部204、后部206、右部208、左部210、顶部212和底部214所组成，分别与第一储物箱101的各面104至114对应。框架200的顶部212和底部214可以有很大一部分的开放区域用于减少重量和成本。后部206有一个圆形开口216用于使延长的电源线或这一类的物品安装在第一储物箱101内部。若干安装孔218可以沿着框架200的各对应部204至214设置，以实现配合安装形成各对应面104至114的塑料盖。

[0053] 第一储物箱101的顶面112和底面114分别和框架顶部212和底部214的模压塑料盖220和222大致相同。连接装置130也可由模压塑料制成，并分别与框架200的右部208和左部210相连。额外的金属支撑224可用于设置在连接装置130的第一本体132和框架200的左、右两部210、208之间的框架200的各个面，以增强把手138所在区域的强度，也就是连接装置130的第一本体132的把手138所在的开放区域。

[0054] 我们还考虑了用多种储物箱如本实施例第一储物箱101、第二储物箱102、以及其他实施例的储物箱700、800、900所组成的本实用新型储物箱组件系统100的其他备用方案。其中一个方案包括一个带有四个轮子和轮脚，以及连接装置130的可移动的平台。在这个平台的左侧和右侧有着带有第一本体132的连接装置130。储物箱每个面上的与第二

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本体 134 相连接的偏置闩锁 136 与平台上的第一本体 132 以上述第二储物箱 102 与第一储物箱 101 连接的方法进行连接，只需将该第一储物箱 101 替换成备选平台即可。这种方案形成了一个可移动的系统。

[0055] 在符合所主张权利要求的范围之内，任何一个实施例都可以通过不同的储物箱之间的组合方式组合起来以形成一个新的案例，而不仅仅是本实施例所揭示的方式。相同结构的储物箱可以以组合的形式相互堆叠，并且两个不同结构的储物箱也可以以组合的形式相互堆叠。储物箱的顶面与底面具有公端和母端相配合的结构使两个储物箱在轴向和径向两个方向上的相对移动被限定，并提供了一个整体式的外观，成对设置的连接装置会使储物箱彼此紧紧连接在一起。储物箱连接装置还可以使储物箱之间并排连接，形成一个水平的工具储存系统。

[0056] 虽然本实用新型已经具体展示出并参照其实施例进行描述，但在不脱离本文所定义以及所附权利要求及其具有相当效用的文件所界定的范围内，本领域的普通技术人员应当熟知该系统的各种变化、相应替代品以及变动。通过参照下述权利要求应该能更好地理解本实用新型。对权利要求解释的目的，过渡词语“包括”、“具有”可理解为同义词“包含”。

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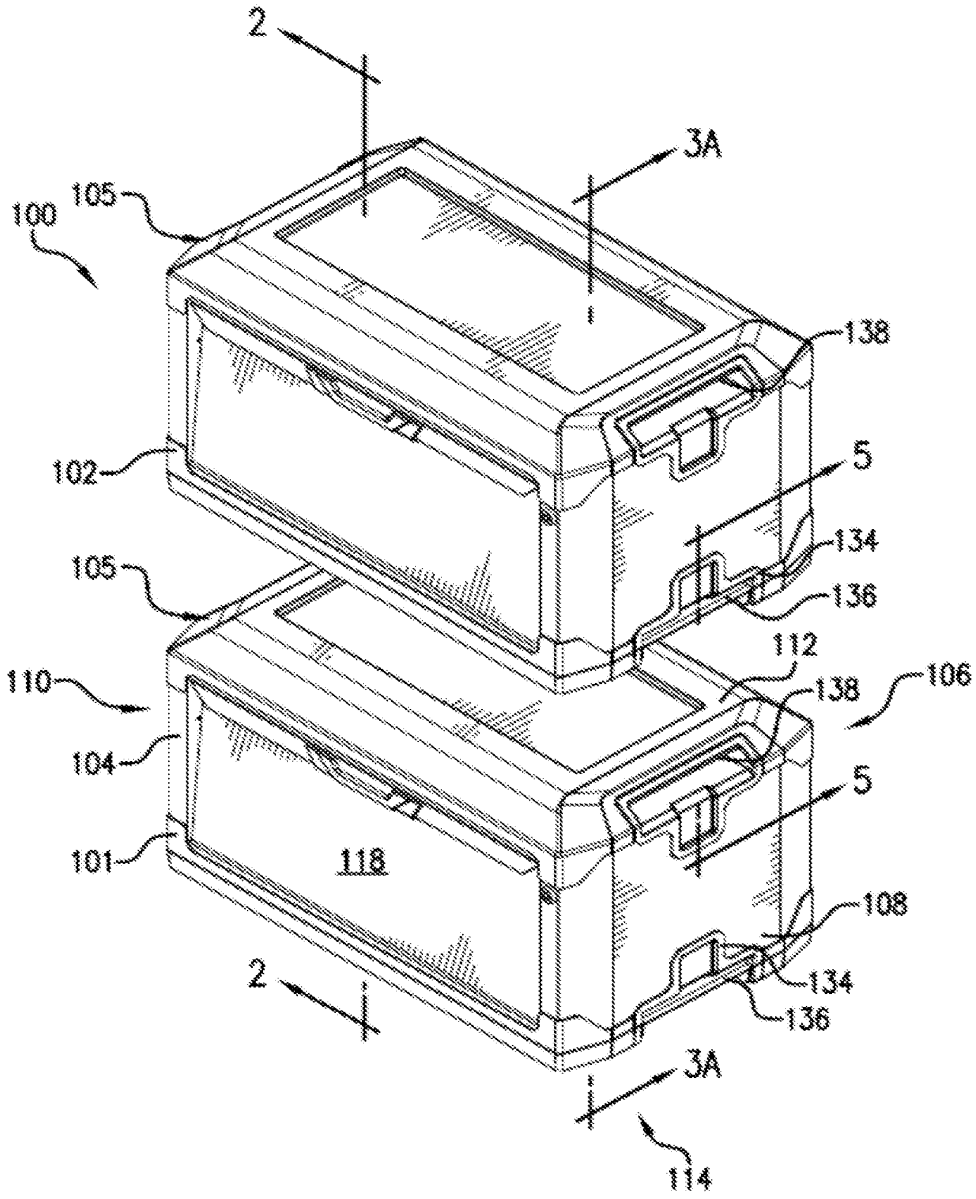


图 1A

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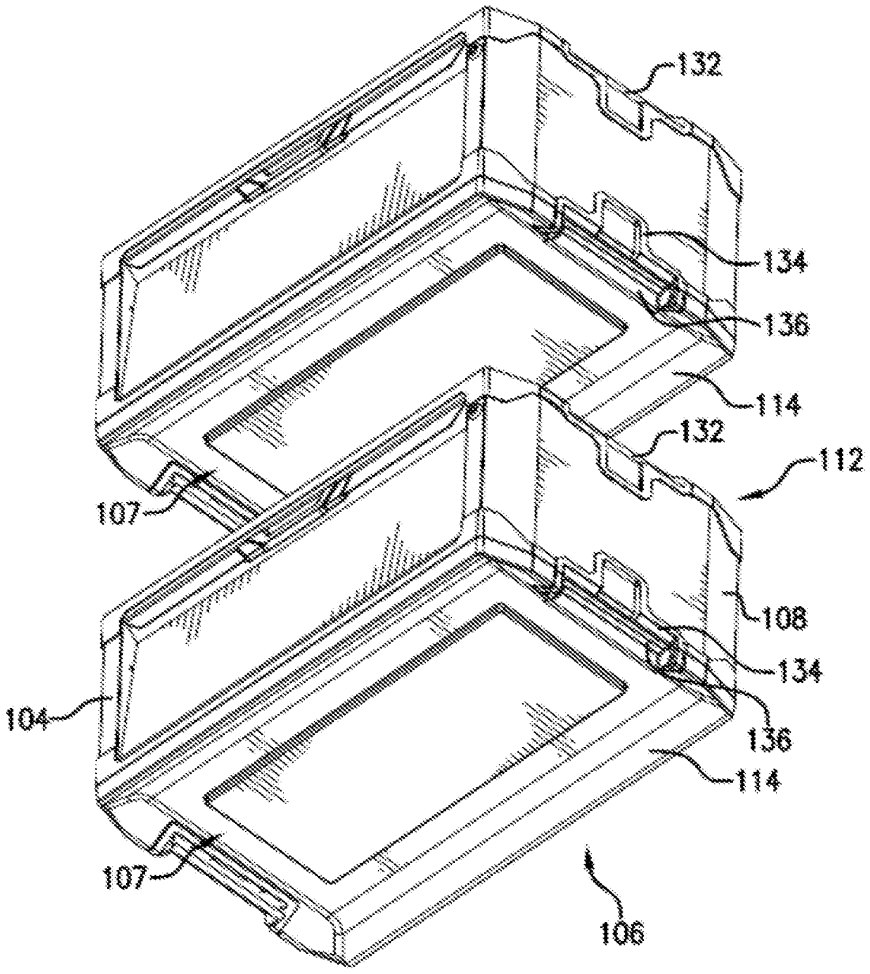


图 1B

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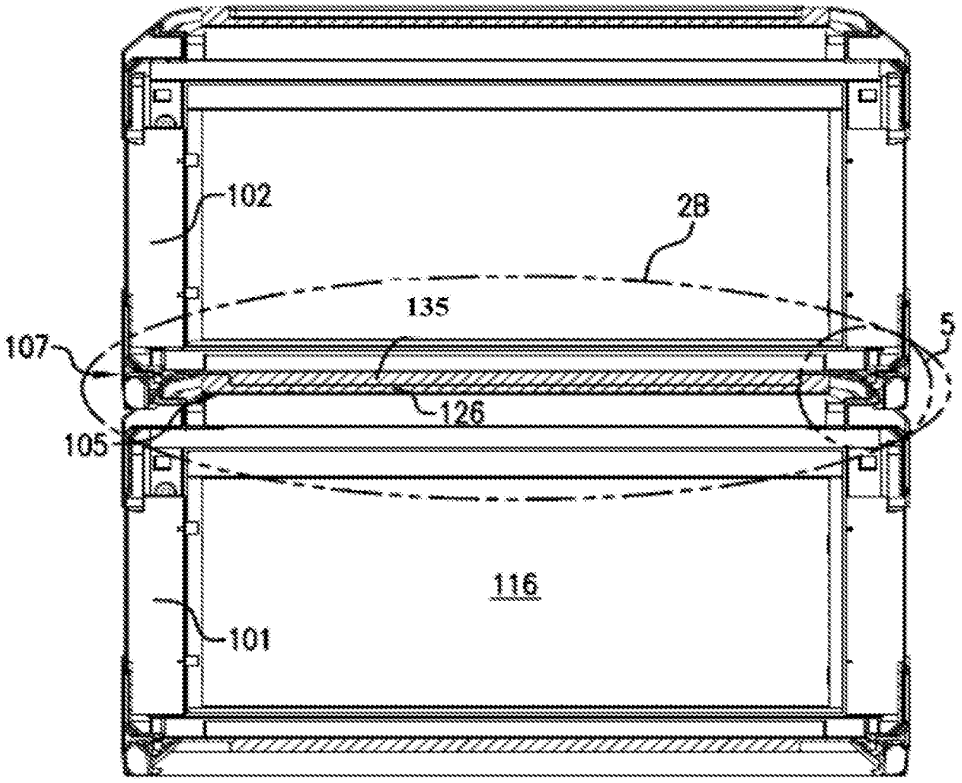


图 2A

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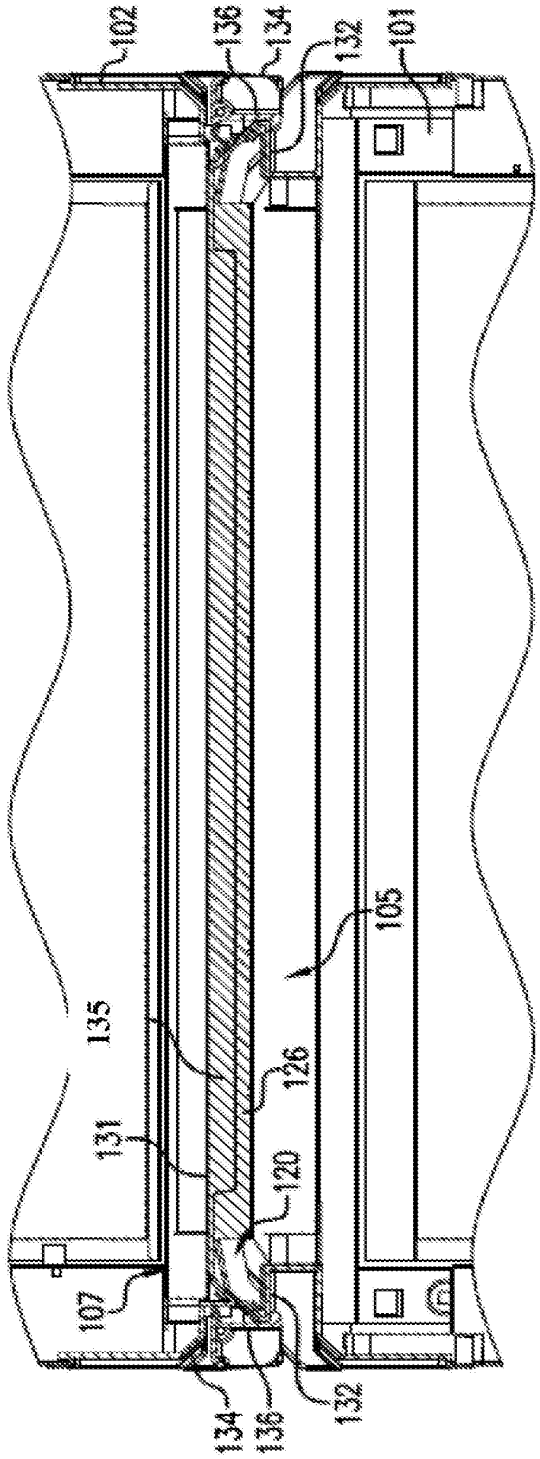


图 2B

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2681
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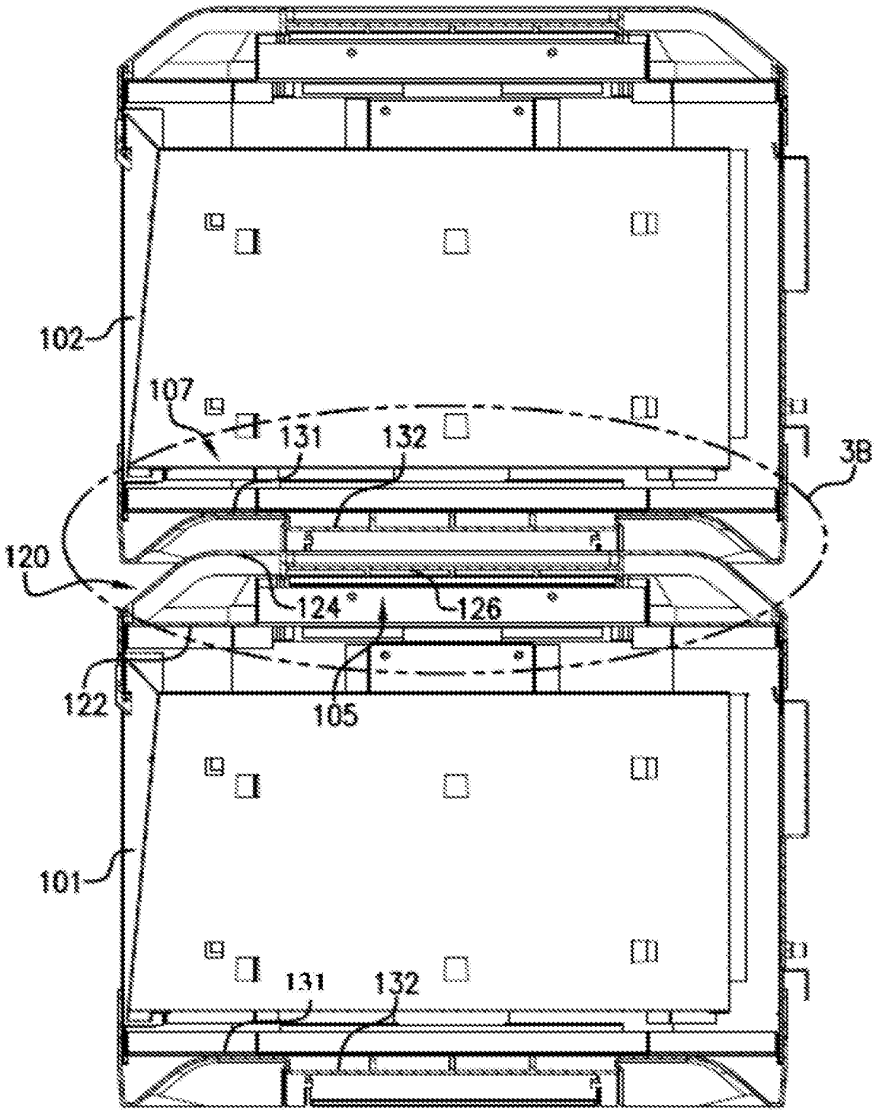


图 3A

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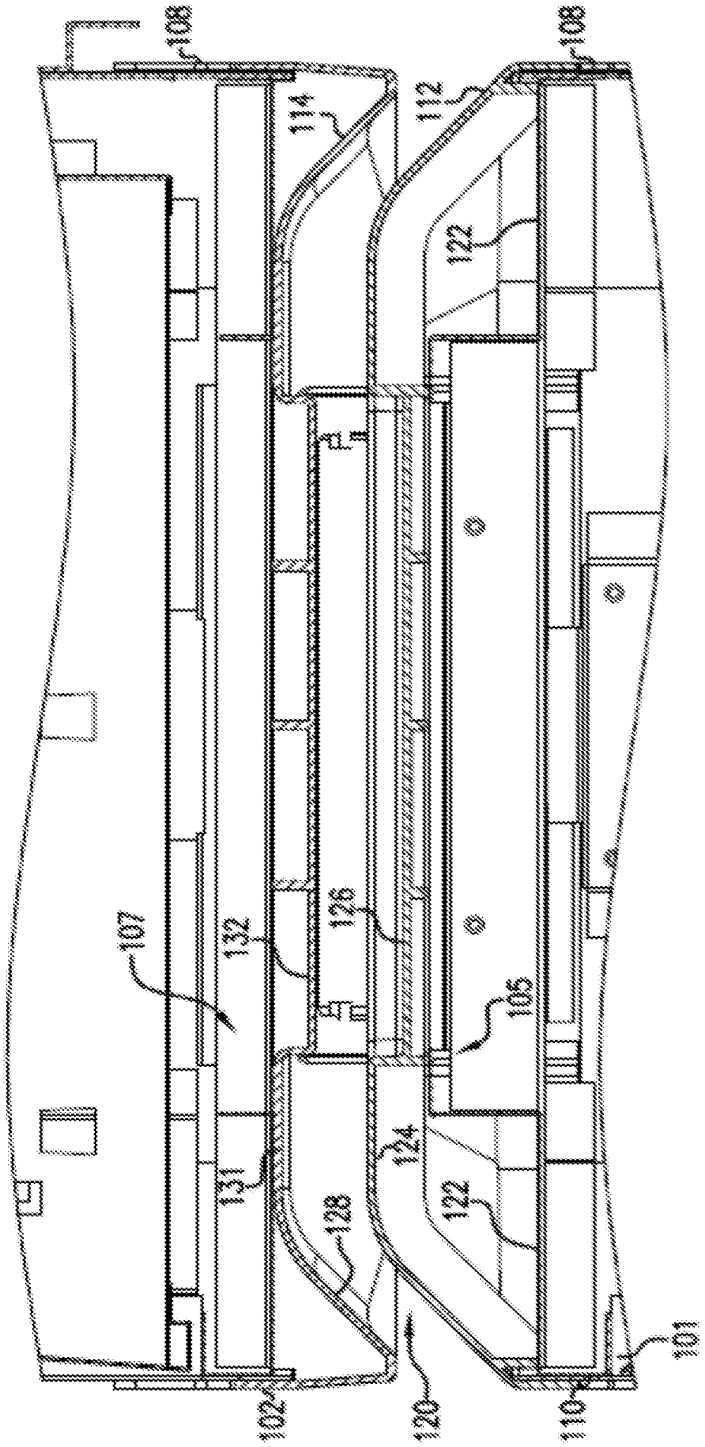


图 3B

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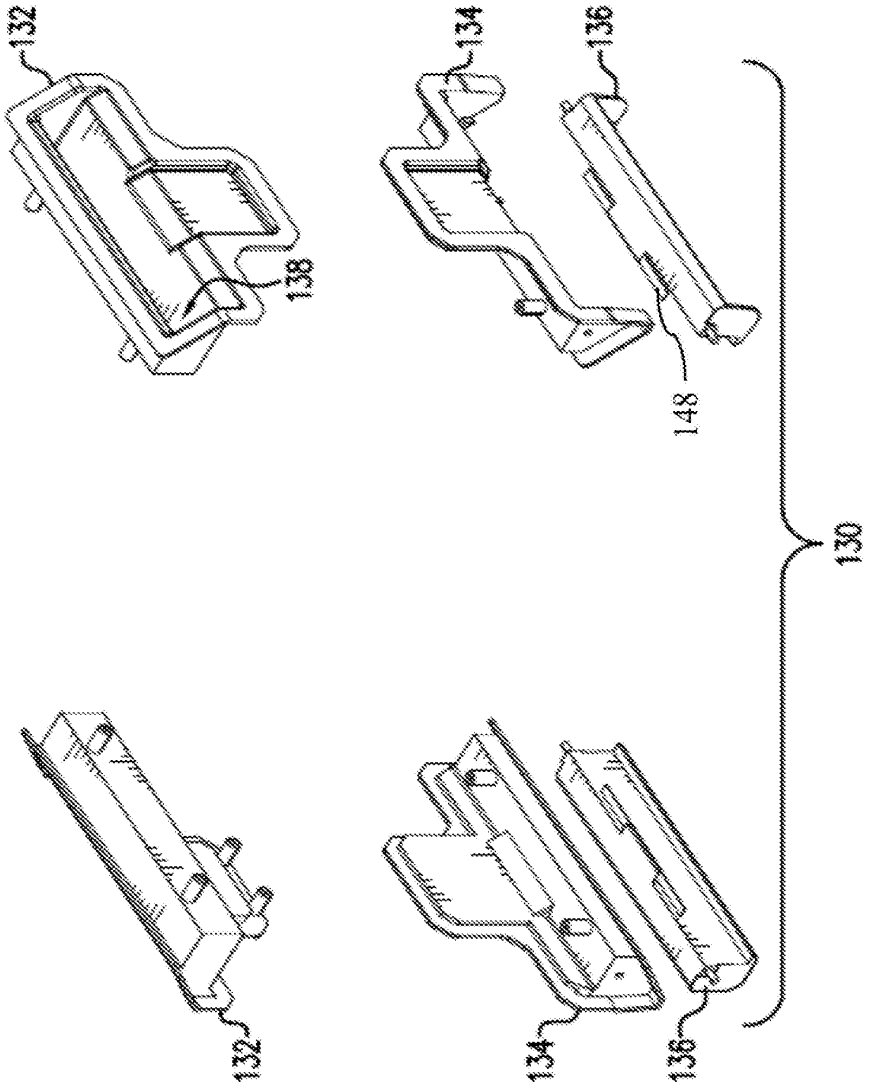


图 4

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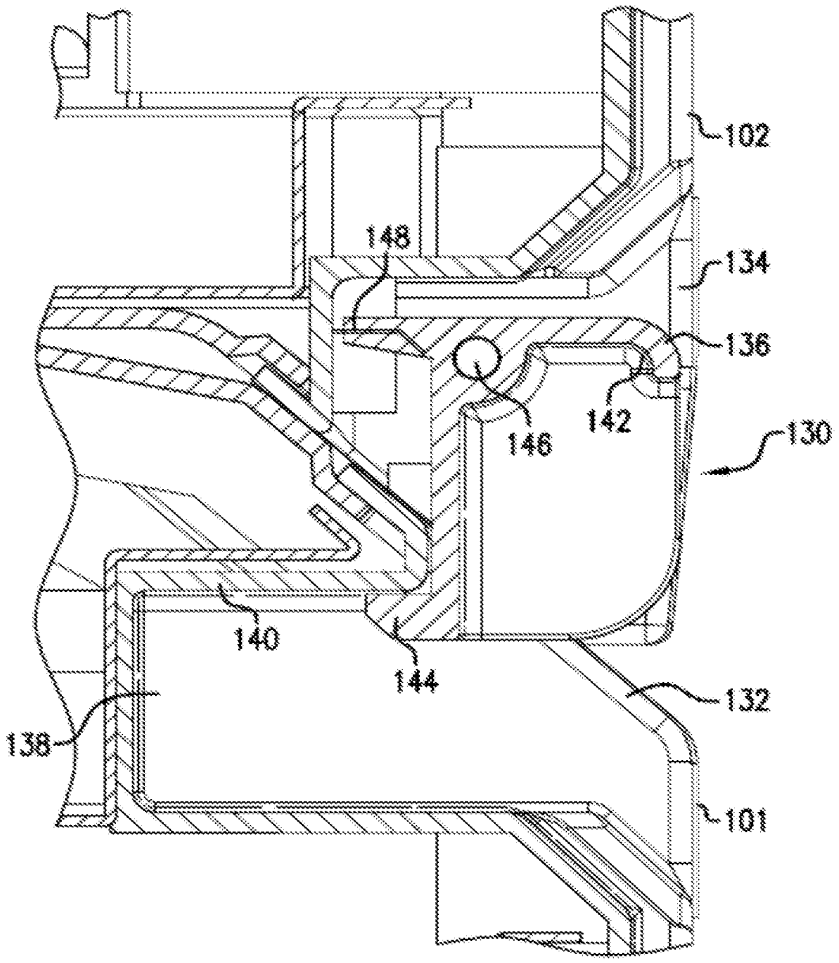


图 5

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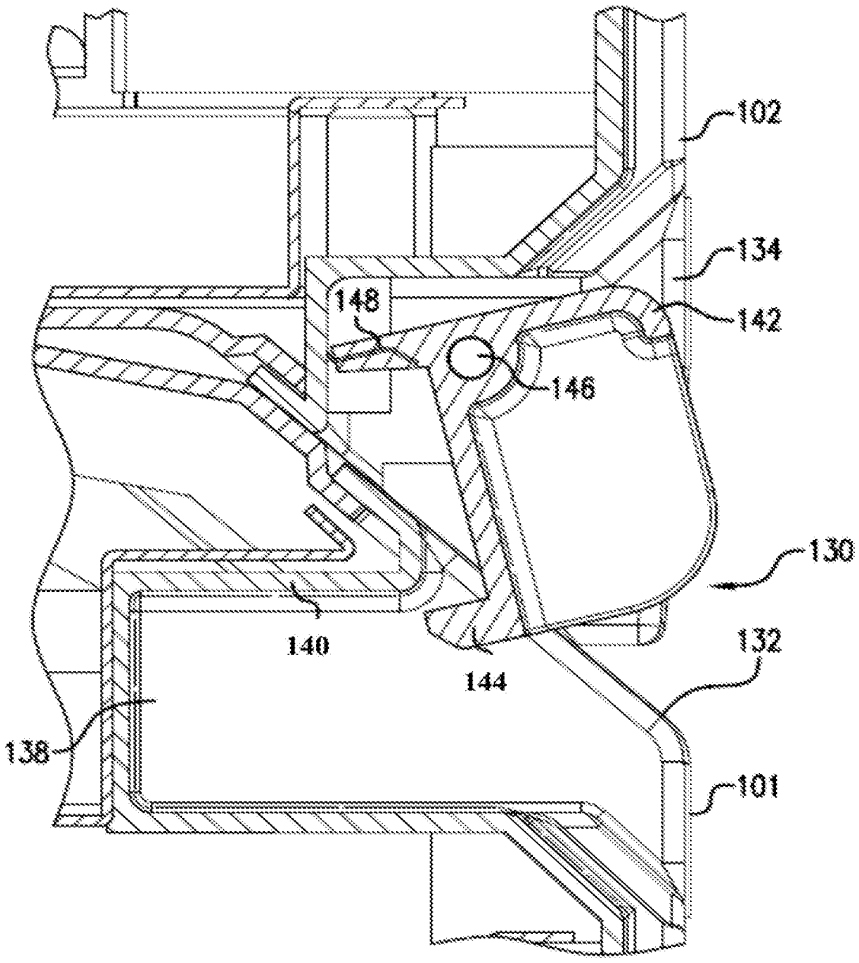


图 6

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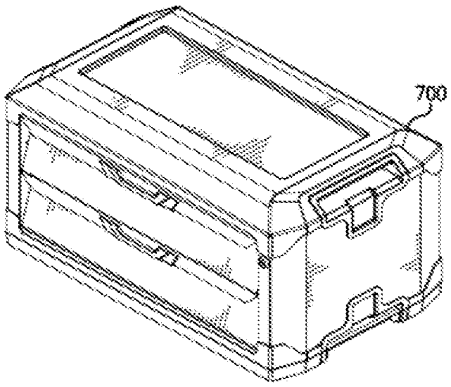


图 7

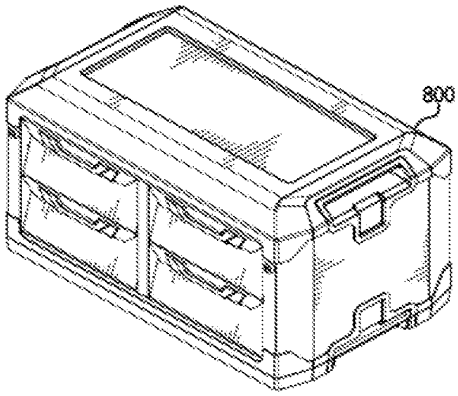


图 8

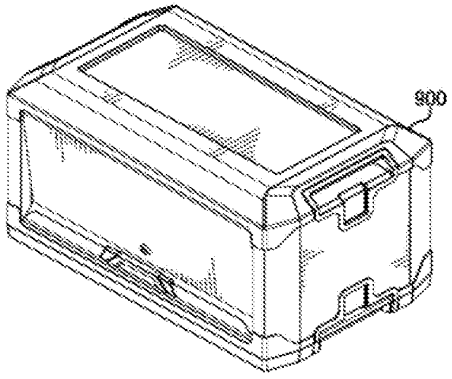


图 9

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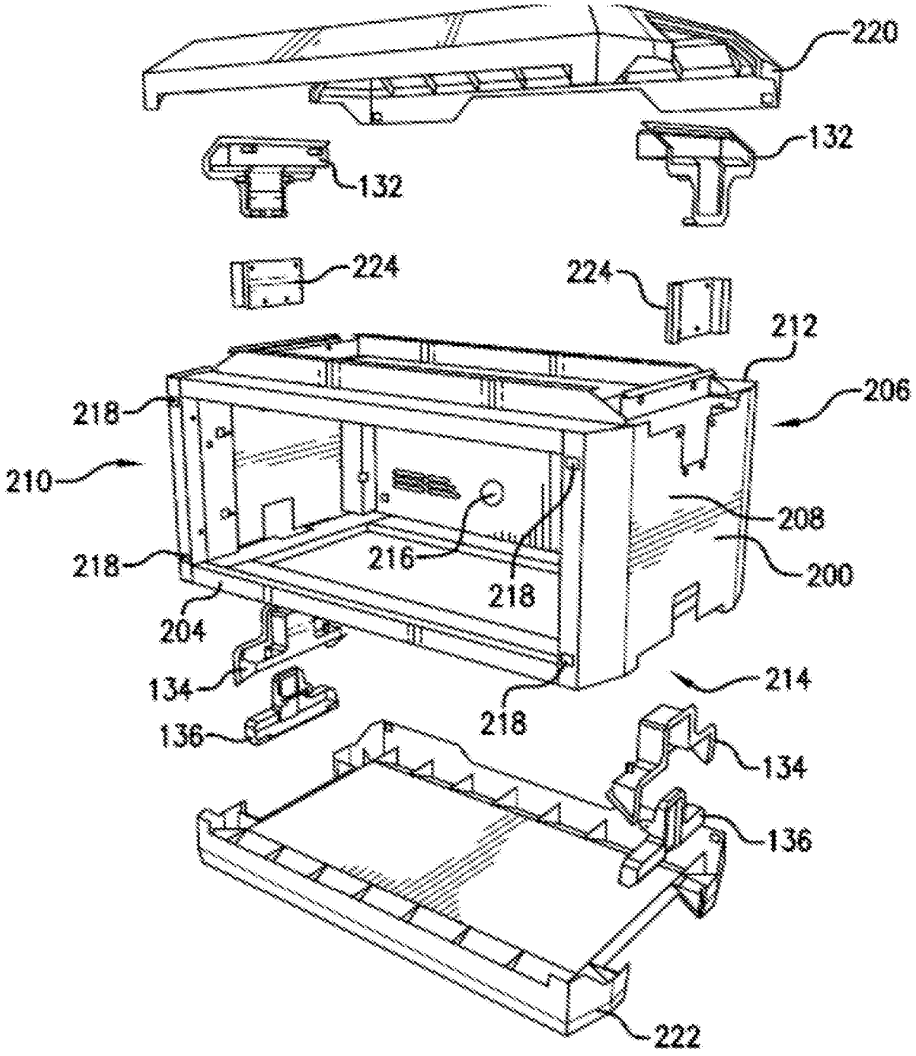


图 10

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Espacenet

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System module of a storage system

Inventor(s): ROEHM HEIKO; SAUR DIETMAR ± (ROEHM HEIKO, ; SAUR DIETMAR, ; H.雷姆, ; D.绍尔)

Applicant(s): BOSCH GMBH ROBERT ± (ROBERT BOSCH GMBH, ; 罗伯特·博世有限公司)

Classification: - international: ***B25H3/02***
- cooperative: **B25H3/026 (EP, US)**

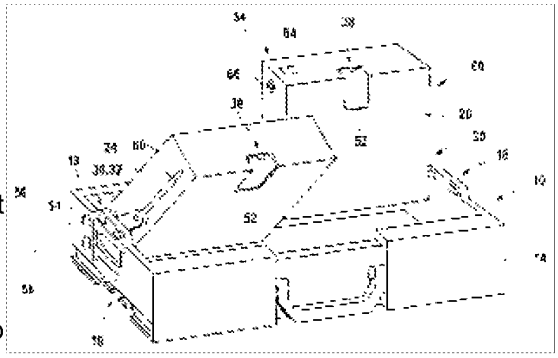
Application number: CN201310420611 20130916 Global Dossier

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Abstract of CN103659777 (A)

Provided is a system module of a storage system (12) especially a hand-held tool storage system. The system module includes at least one frame unit (14), at least one first function unit (24), at least one second function unit (26), and at least one positioning unit (30). The at least one frame unit (14) has at least one coupling unit (16, 18) configured to be coupled, so as to be disconnectable by an operator, to at least one part (20) of at least one further system module (22). The function units are configured to be disposed, at least in one operating state, at least substantially inside a space (28) spanned by the frame unit (14). The at least one positioning unit is configured to position the function units (24, 26), independently of each other, relative to the frame unit (14), in at least two at least substantially differing positions.



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(51)Int.Cl.
B25H 3/02(2006.01)

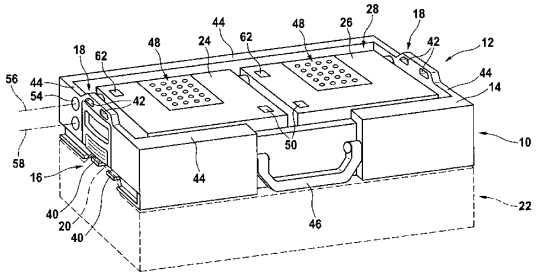
权利要求书1页 说明书5页 附图2页

(54)发明名称

保存系统的系统模块

(57)摘要

提出了保存系统(12)的、特别是手持式工具保存系统的系统模块,其具有:至少一个框架单元(14),该框架单元具有至少一个耦合单元(16、18),所述耦合单元设置用于以能由操作者松开的方式与至少另一个系统模块(22)的至少一个部件(20)相耦合;至少一个第一功能单元和一个第二功能单元(24、26),所述功能单元在至少一种运行状态中至少基本上布置在由所述框架单元(14)围成的空间(28)的内部;和至少一个定位单元(30),该定位单元设置用于使所述功能单元(24、26)相对于所述框架单元(14)彼此独立地定位在至少两个至少基本上不同的位置中。



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1. 保存系统(12)的、特别是手持式工具保存系统的系统模块，其具有：至少一个框架单元(14)，所述框架单元具有至少一个耦合单元(16、18)，所述耦合单元设置用于以能由操作者松开的方式与至少另一个系统模块(22)的至少一个部件(20)相耦合；至少一个第一功能单元和一个第二功能单元(24、26)，所述功能单元在至少一种运行状态中至少基本上布置在由所述框架单元(14)围成的空间(28)的内部；和至少一个定位单元(30)，所述定位单元设置用于使所述功能单元(24、26)相对于所述框架单元(14)彼此独立地定位在至少两个至少基本上不同的位置中。

2. 按权利要求 1 所述的系统模块，其特征在于，所述功能单元(24、26)设置用于彼此独立地履行其功能。

3. 按权利要求 1 或 2 所述的系统模块，其特征在于，所述定位单元(30)设置用于以能由操作者松开的方式来固定所述功能单元(24、26)中的至少一个功能单元。

4. 按前述权利要求中任一项所述的系统模块，其特征在于，所述定位单元(30)设置用于借助摩擦配合连接和/或借助形状配合连接将所述功能单元(24、26)保持在相应的位置中。

5. 按前述权利要求中任一项所述的系统模块，其特征在于，所述定位单元(30)具有至少两个保持连接杆(32)，所述保持连接杆设置用于将所述功能单元(24、26)保持在所述位置中。

6. 按前述权利要求中任一项所述的系统模块，其特征在于一种连接单元(34)，所述连接单元设置用于在至少一种运行状态中以能够共同定位的方式将所述功能单元(24、26)连接起来。

7. 按前述权利要求中任一项所述的系统模块，其特征在于，所述功能单元(24、26)中的至少一个功能单元具有功能器件和/或操作器件(36、38)，所述功能器件和/或操作器件只有当所述功能单元(24、26)至少部分地定位在由所述框架单元(14)围成的空间(28)的外部时才能进行操纵。

8. 按权利要求 7 所述的系统模块，其特征在于，至少所述功能器件和/或操作器件(36、38)构造为蓄电池接口。

9. 按前述权利要求中任一项所述的系统模块，其特征在于，所述功能单元(24、26)至少基本上完全填满由所述框架单元(14)围成的空间(28)。

10. 保存系统，具有至少按权利要求 1 到 9 中任一项所述的系统模块(10)和至少另一个系统模块(22)。

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保存系统的系统模块

技术领域

[0001] 本发明涉及保存系统的一种系统模块。

背景技术

[0002] 在 DE 10 2008 058 007 B3 中已经提出手持式工具保存系统的一种系统模块，该系统模块具有至少一个耦合单元，该耦合单元设置用于以能由操作者松开的方式与至少另一个系统模块的至少一个部件相耦合。

发明内容

[0003] 提出了保存系统的、特别是手持式工具保存系统的系统模块，该系统模块具有：至少一个框架单元，该框架单元具有至少一个耦合单元，所述耦合单元设置用于以能由操作者松开的方式与至少另一个系统模块的至少一个部件、尤其耦合单元相耦合；至少一个第一功能单元和一个第二功能单元，所述功能单元在至少一种运行状态中至少基本上布置在由所述框架单元围成的空间的内部；和至少一个定位单元，该定位单元设置用于使功能单元相对于所述框架单元彼此独立地定位在至少两个至少基本上不同的位置中。“保存系统”特别是应理解成一种系统，该系统包括不同的保存器件和特别是系统模块，所述保存器件和系统模块设置用于在彼此相连接的情况下来运输。优选地，所述保存系统具有至少一个工具箱，该工具箱根据文献 DE 10 2008 058 007 B3 来构成。也可以考虑所述保存系统的其它的对本领域技术人员来说有意义的功能。在一种特别优选的实施例中，所述保存系统构造为能够借助于其它系统模块任意地扩展的结构。所述系统模块可以优选由一框架、一箱子、一台架、另一框架单元构成或者由对本领域技术人员来说有意义的、以能与保存系统相兼容的方式构成的类似元件所构成。“手持式工具保存系统”特别是应理解成一种保存系统，该保存系统设置用于保存至少一个手持式工具、一个手持式工具蓄电池和/或手持式工具的附件。“框架单元”在这方面特别是应理解成一种单元，该单元具有至少三个侧面元件，所述三个侧面元件形成一个封闭的轮廓并且围成一个所定义的空间。在一种特别优选的实施例中，设置了四个连续的彼此垂直设置的侧壁。优选地，另外两个垂直于所述至少三个、特别是四个侧壁来布置的侧面中的至少一个侧面敞开地构成，其中“敞开地构成”在这方面特别是应理解成，在设计框架单元时有意地放弃底壁和/或盖壁。特别优选地，框架单元至少基本上一体构成。优选地，框架单元具有一由金属和/或特别优选由塑料、例如特别是 PA6、ABS、PC、PP 和/或其它对本领域技术人员来说有意义的塑料制成的框架单元。在一种特别优选的实施例中，所述框架单元至少部分地包围用于接纳功能单元的功能单元接纳区域。优选地，所述框架单元在按照规定使用时、特别是在运送处于接纳区域中的物品时，在仓储时并且在堆放时至少基本上形状稳定。特别是也就是说，所述框架单元在按照规定使用时特别是弹性变形了小于该框架单元的主长度的 20%、有利地 5%。优选地，所述框架单元具有至少一个支承面，该支承面设置用于更可靠地立于至少在倾斜的、至少 10 度陡斜的平面上。优选地，至少所述支承面构造为防滑和/或优选防撞的结构。通过所述框架单元，

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可以在装配状态中以结构上简单的方式有利地防止功能单元受到机械影响。“耦合单元”特别是应理解成一种单元，该单元设置用于特别是为了运送而以机械的方式将另一个系统模块有利地固定在系统模块的箱盖上和/或特别有利地固定在系统模块的箱体上。优选地，所述系统模块具有两个耦合单元，这两个耦合单元设置用于相应地将另一个系统模块固定在对置的侧面上。优选地，耦合单元如在文献 DE 10 2008 058 007 B3 中所说明的一样构成。框架单元有利地具有其它的特别是用于与台架系统相耦合的耦合单元。“能由操作者松开的耦合”特别是应理解成一种机械连接，该机械连接能够由操作者无破坏地并且有利地在无工具的情况下分开。优选地，所述耦合单元与另一个系统模块的部件锁定在一起。优选地，耦合单元和/或另一个系统模块的部件具有操作元件，对操作元件的操纵松开所述耦合。“设置”特别是应理解成专门地编程、设计和/或装备。“功能单元”特别是应理解成一种单元，该单元设置用于在一种运行状态中履行主要功能，特别是在下述状态中履行主要功能，其中所述功能单元至少基本上被固定在框架单元中或者说与框架单元相连接。功能单元优选至少基本上与手持式工具和/或与手持式工具机不同地构成。优选地，所述功能单元具有至少一种对本领域技术人员来说有意义的功能。所述功能单元可以有利地包括至少一个充电器、一测量仪、一水平装置、一能量输出端、特别是一插座、一吸尘器、一媒体播放器、特别是一收音机、和/或有利地一照明器件。在本发明的另一种设计方案中，所述系统模块具有两个以上的、能不同地相对于框架单元定位的功能单元。术语“被围成的空间”在这方面特别是应理解成一种空间，该空间通过框架单元的轮廓来界定。特别优选地，所述空间在至少一侧上、优选在至少两侧上是敞开的并且对于操作者来说至少基本上能够自由地接近。功能单元特别是在无工具的情况下能装入到所述空间中。特别优选地，所述功能单元在装入的、可以投入使用的状态中至少部分地、有利地至少基本上完全布置在由框架单元围成的空间的内部。“基本上在内部”特别是应理解成，所述功能单元在至少一种运行状态中至少 50%、有利地至少 75%、特别优选 100% 布置在由框架单元围成的空间的内部。“定位单元”在这方面特别是应理解成一种单元，该单元至少主要设置用于使功能单元相对于框架单元定位在至少两个不同的位置中。优选地，定位单元具有至少一个铰链，以便围绕该铰链使功能单元中的至少一个功能单元围绕至少一个轴线或者特别是围绕着至少两个轴线来摆动和/或旋转。铰链例如构造为球节，特别有利地构造为转动关节。所述定位单元特别是以能由操作者松开的方式优选与功能单元和/或框架单元相连接。特别是，所述定位单元至少部分地优选旋转运动地与功能单元和/或框架单元相连接。所述定位单元有利地设置用于将功能单元相对于框架单元保持在至少两个锁止位置中。在一种特别优选的实施例中，所述定位单元设置用于相对于框架单元实现功能单元的至少三个、优选至少四个、特别优选至少五个彼此不同的锁止位置。特别优选地，在所定义的区域内借助于定位单元相对于框架单元可以实现功能单元的任意多的锁止位置。“至少基本上不同的位置”在这方面特别是应理解成至少两个位置沿着至少一个空间方向、优选沿着至少两个空间方向并且特别优选沿着三个空间方向偏差了至少 1mm、优选偏差了至少 5mm 并且特别优选偏差了至少 10mm。在一种特别优选的实施例中，第一位置与至少一个第二位置偏差了至少 25mm。如果定位单元设置用于使功能单元围绕至少一个轴线摆动，则“至少基本上不同的位置”应理解成至少 2 度、优选 5 度、特别优选 10 度的差别。“彼此独立地”在这方面特别是应理解成，定位单元设置用于使功能单元相对于框架单元沿着不同的取向定位。术语“定位”特别

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是应理解成相对于框架单元固定在一位置中。通过系统模块的按本发明的设计方案，可以在有利地定向的情况下通过有利地得到保护的功能单元履行多种功能。

[0004] 在另一种设计方案中提出了，所述功能单元设置用于彼此独立地履行其功能，由此可以实现一种在结构上简单的设计方案。特别是可以放弃功能单元之间的复杂的电缆敷设。短语“彼此独立地履行其功能”特别是应理解成，第一功能单元和第二功能单元在功能上彼此分开地工作。特别是，功能单元具有分开的操作元件和/或分开的能量供给装置。功能单元有利地履行不同的功能。替代地或者补充地，功能单元可以特别是在对准不同的区域的情况下履行相同的功能。例如两个功能单元可以构造为灯，用所述灯可以直接和/或间接地将工作区域照亮。替代地，所述功能单元可以相互作用。

[0005] 此外提出了，所述定位单元设置用于以能由操作者松开的方式来固定所述功能单元中的至少一个功能单元，由此功能单元可以在与框架单元分开的情况下使用。短语“以能由操作者松开的方式来固定”特别是应理解成，所述定位单元和所述功能单元如此连接，使得操作者可以无破坏地并且有利地在无工具的情况下松开所述连接。优选地，所述定位单元以能由操作者松开的方式固定两个功能单元。

[0006] 此外提出了，所述定位单元设置用于借助摩擦配合连接和/或借助形状配合连接将所述功能单元保持在相应的位置中，由此能以结构简单的方式固定在工作位置中。“摩擦配合连接”特别是应理解成借助于静摩擦进行固定。例如定位单元可以具有螺纹或者偏心轮，其使两个摩擦面彼此挤压。“形状配合连接”特别是应理解成借助于几何结构进行固定。例如所述定位单元可以具有定位机构、齿部和/或有利地斜齿部。

[0007] 此外提出了，所述定位单元具有至少两个保持连接杆，所述保持连接杆设置用于将功能单元保持在相应的位置中，由此能实现特别稳定的固定。“保持连接杆”特别是应理解成一种器件，该器件在至少一种运行状态中在与功能单元的旋转轴线间隔开地在框架单元与功能单元之一之间引起特别是线性的保持力，该保持力将所述功能单元保持在相应的位置中。

[0008] 此外提出了，所述系统模块包括连接单元，该连接单元设置用于在至少一种运行状态中以能够共同定位的方式将所述功能单元连接起来，由此可以特别简单地实现功能单元的相同的取向。“能够共同地定位”特别是应理解成，在连接单元闭合时所述一个功能单元的运动使所述另一个功能单元特别是运动了相同的角度。

[0009] 在本发明的一种有利的设计方案中提出了，所述功能单元中的至少一个功能单元具有功能器件和/或操作器件，该功能器件和/或操作器件只有当所述功能单元至少部分地定位在由框架单元围成的空间的外部时才能进行操纵，由此有利地保护了所述功能器件和/或操作器件。“功能器件和/或操作器件”在这方面特别是应理解成一种器件，该器件在与操作者的相互作用中履行一种功能和/或通过该器件操作者可以控制一种功能。“能操纵”特别是应理解成，操作者只有在功能单元从所述空间中运动出来时才能如所规定的那样进行相互作用。

[0010] 在另一种设计方案中提出了，至少所述功能器件和/或操作器件构造为蓄电池接口，由此可以提供很好地得到保护的并且独立于电网的能量供应。“蓄电池接口”特别是应理解成一种接口，该接口设置用于从手持式工具蓄电池处接收电能并且将其发送给所述功能单元的功能器件。优选地，在所述手持式工具蓄电池与所述蓄电池接口之间的连接能够

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由操作者无破坏地并且特别是在无工具的情况下松开。手持式工具蓄电池有利地只有在下述情况下才能从蓄电池接口中取出：这个功能单元至少部分地定位在由框架单元围成的空间的外部。优选地，所述功能单元中的每个功能单元都具有一构造为蓄电池接口的功能器件，由此可以在结构上简单地向两个功能单元供给不同的电压。优选地，所述功能单元设置用于用不同的电压来供给运行能量。

[0011] 此外提出了，所述功能单元至少基本上完全填满由框架单元围成的空间。“至少基本上完全填满”在这方面特别是应理解成，所述功能单元将由框架单元围成的空间填充了至少 50%、优选至少 70% 并且特别优选至少 80%。在一种特别优选的实施例中，所述功能单元将由框架单元围成的空间填充了至少 95%。由此可以实现按本发明的系统模块的有利地紧凑的并且节省位置空间的设计方案。

[0012] 按本发明的保存系统在此应该不局限于上面所描述的应用情况及实施方式。特别是，按本发明的保存系统为了履行在其中所描述的功能方式而可以具有与其中所提到的数目不同数目的单个的元件、构件和单元。

附图说明

[0013] 其它的优点从以下附图说明中获得。在附图中示出了本发明的一种实施例。附图、说明书和权利要求包含了大量的特征组合。本领域技术人员还可以有利地单独考虑所述特征并且将其组成其它有意义的组合。附图示出如下：

图 1 示出了保存系统的按本发明的系统模块，其具有两个摆入的功能单元；并且

图 2 示出了图 1 的系统模块，其具有摆出的功能单元。

具体实施方式

[0014] 图 1 和图 2 示出了保存系统 12，该保存系统具有一按本发明的第一系统模块 10 和一第二系统模块 22。第二系统模块 22 仅示意性地示出并且构造为手持式工具箱。第一系统模块 10 具有框架单元 14，该框架单元具有第一耦合单元 16 和第二耦合单元 18。第一耦合单元 16 设置用于能由操作者松开地将第二系统模块 22 耦合在第一系统模块 10 的下侧面上。第二耦合单元 18 设置用于能由操作者松开地将另一个这里未详细示出的系统模块耦合在第一系统模块 10 的上侧面上。第一耦合单元 16 具有止动钩 40，所述止动钩在连接的运行状态中接合在第二系统模块 22 的部件 20 的止动凹部中。第二耦合单元 18 具有止动凹部 42，所述另一个系统模块的止动钩在连接的运行状态中可以接合到所述止动凹部中。

[0015] 框架单元 14 包括四个侧壁 44，这四个侧壁在四侧限定了由框架单元 14 围成的空间 28。所围成的空间 28 的上侧面和下侧面没有限定框架单元 14。此外，框架单元 14 具有把手 46。框架单元 14 的、背离把手 46 的一侧构造为支承面。系统模块 10 包括第一和第二功能单元 24、26，所述功能单元在图 1 所示出的摆入的运行状态中完全布置在由框架单元 14 围成的空间 28 中。功能单元 24、26 基本上完全填满由框架单元 14 围成的空间 28。在框架单元 14 与功能单元 24、26 之间布置了气隙。此外，在功能单元 24、26 之间也布置了气隙。

[0016] 功能单元 24、26 分别包括第一功能器件 36、38、第二功能器件 48 和操作器件 50。第一功能器件 36、38 构造为蓄电池接口。它们设置用于分别与手持式工具蓄电池 52 相耦

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合。第一功能器件 36、38 只有在相应的功能单元 24、26 至少部分地定位在由框架单元 14 围成的空间 28 的外部时才能被操纵。第一功能器件 36、38 分别向第二功能器件 48 之一供给电能。第二功能器件 48 构造为 LED 照明器件。两个功能单元 24、26 的第二功能器件 48 设置用于以不同的辐射角进行照明。第二功能器件 48 之一针对直接照明进行优化，第二功能器件 48 之一针对间接照明进行优化。功能单元 24、26 彼此独立地履行其功能。如果系统模块 10 利用下侧面或者上侧面立于平坦的表面上，则功能单元 24、26 在摆入的运行状态中以与所述表面间隔开的方式布置。

[0017] 系统模块 10 具有定位单元 30，该定位单元设置用于使功能单元 24、26 相对于框架单元 14 彼此独立地定位在许多不同的位置中。为此，定位单元 30 包括两个保持连接杆 32 和一铰链器件 54。铰链器件 54 以能够围绕旋转轴线 56 摆动的方式来支承功能单元 24、26。功能单元 24、26 能够经由框架单元 14 的敞开的上侧面从框架单元 14 中摆动出来。铰链器件 54 平行于框架单元 14 的侧壁 44 延伸。与框架单元 14 的下侧面相比，铰链器件 54 布置得更加靠近框架单元 14 的上侧面。铰链器件 54 以能够围绕相同的旋转轴线 56 摆动的方式来支承功能单元 24、26。替代地，定位单元可以设置用于以能够围绕彼此不同的轴线或者点摆动的方式来固定功能单元 24、26。

[0018] 保持连接杆 32 设置用于将功能单元 24、26 保持在不同的能够调节的位置中。保持连接杆 32 在一侧以能够围绕旋转轴线 58 旋转的方式与框架单元 14 相连接，并且更确切地说在铰链器件 54 的下方与框架单元相连接。在另一侧，保持连接杆 32 分别与功能单元 24、26 之一的槽 60 相连接。所述槽 60 在内侧面上具有未详细示出的波形，通过该波形借助于形状配合连接和摩擦配合连接以能由操作者无工具地松开的方式将功能单元 24、26 固定在不同的能调节的位置中。此外，定位单元 30 可以具有操作元件，为了松开定位单元 30 的固定应该操纵所述操作元件。

[0019] 定位单元 30 设置用于以能由操作者松开的方式固定功能单元 24、26。为此，功能单元 24、26 分别具有取出操作器件 62。借助于取出操作器件 62，可以由操作者在无工具的情况下分开功能单元 24、26 与框架单元 14 之间的连接。

[0020] 功能单元 24、26 分别具有连接单元 34 的一部件，所述连接单元设置用于在至少一种运行状态中以能够共同定位的方式将功能单元 24、26 连接起来。所述连接单元 34 包括一操作器件 64、在此在被遮盖的情况下布置的第一形状配合连接元件以及第二形状配合连接元件 66。第一形状配合连接元件布置在第一功能单元 24 上。操作器件 64 和第二形状配合连接元件 66 在该实施例中布置在第二功能单元 26 上。在连接的运行状态中，第二形状配合连接元件 66 借助于操作器件 64 如此移动，使得其与第一形状配合连接元件进行机械连接。

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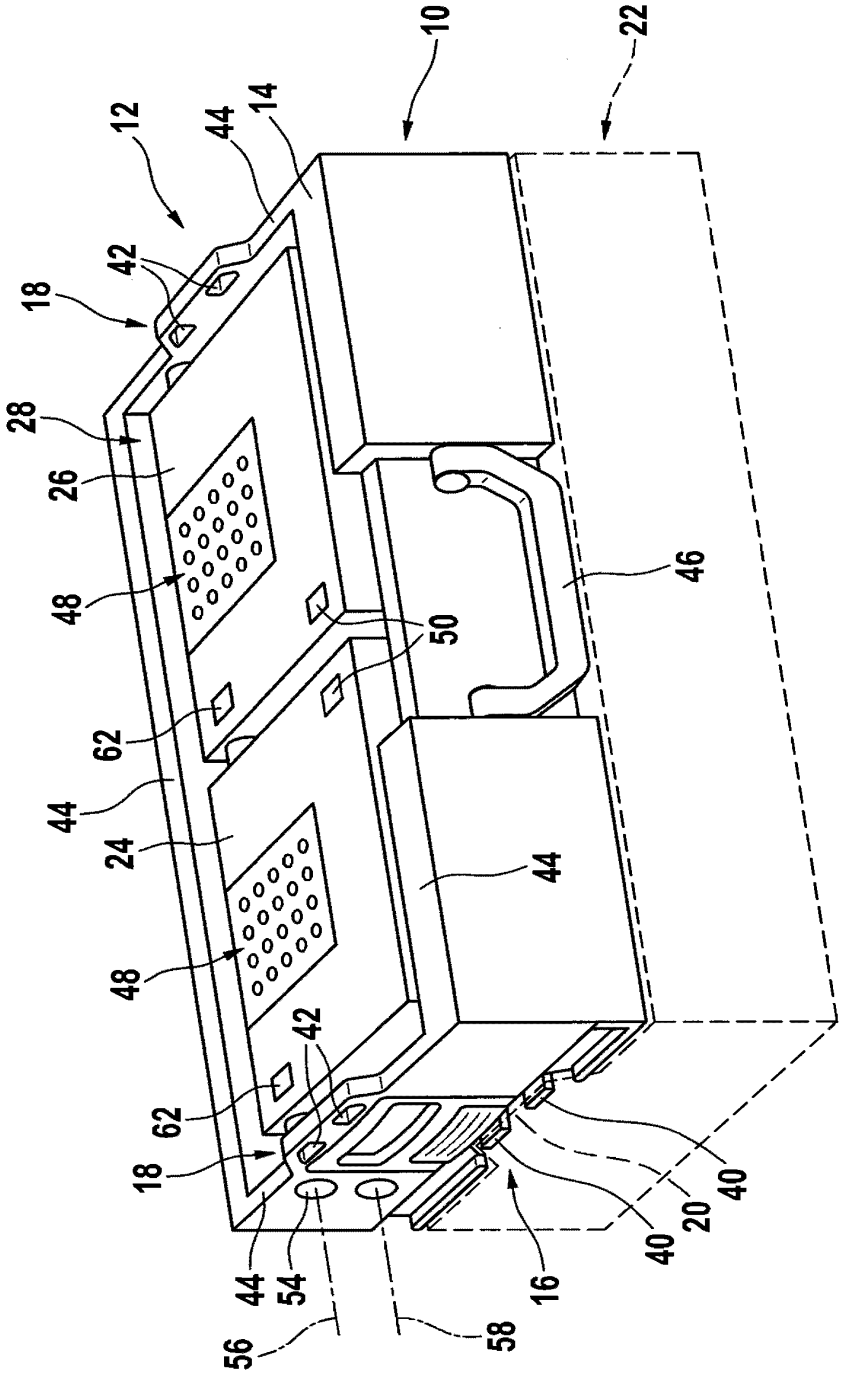


图 1

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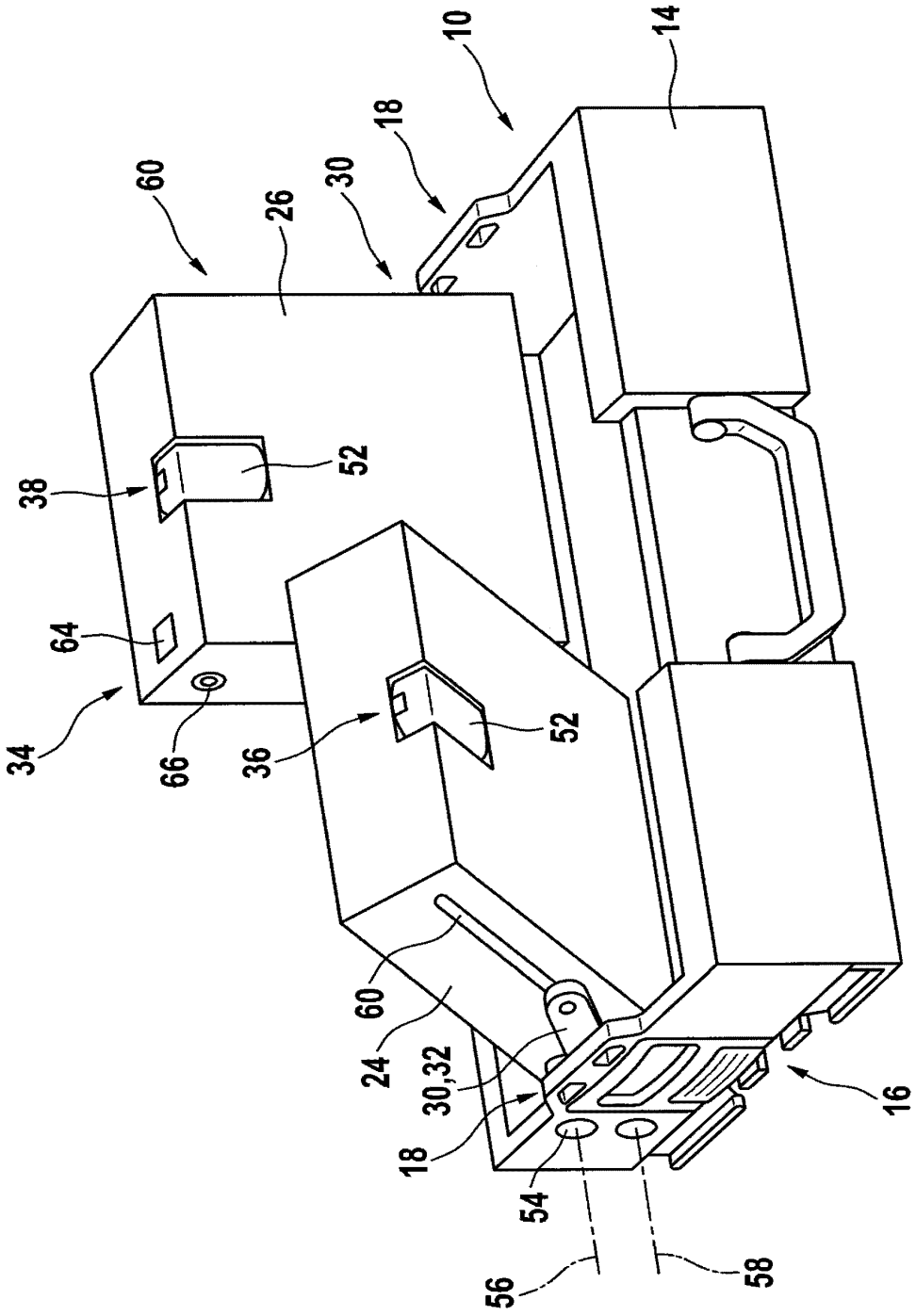


图 2

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Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Docket No.: 55390-501C01US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Yaron Brunner et al.

Application No.: 15/826,232 | Confirmation No.: 1070

Filed: November 29, 2017 | Art Unit: 3736

For: UTILITY ASSEMBLY AND COUPLING MECHANISM | Examiner: G. R. Weinerth

INFORMATION DISCLOSURE STATEMENT (IDS)

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114 (37 C.F.R. § 1.97(b)(4)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted.

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Submitted herewith are copies of foreign patents in accordance with 37 C.F.R. § 1.98(a)(2). Further, machine-generated English translations of the abstract of DE202014103695, KR3009995990000, KR3008812960000, KR3008599650000, and KR3008422360000 are submitted herein. With respect to non-English foreign references CN103659777 and CN204161752, their U.S. equivalents, i.e., U.S. Patent Publication Nos. 2014/0076759 and 2015/0274362, respectively, are listed on the attached PTO/SB/08.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Applicant believes no fee is due with this Information Disclosure Statement. However, if a fee is due, please charge our Deposit Account No. 50-0311, under Order No. 055390-501C01US from which the undersigned is authorized to draw.

Dated: May 1, 2020

Respectfully submitted,

Electronic signature: /Elissa M. Kingsland/
Elissa M. Kingsland
Registration No.: 63,259
MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
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Attorney for Applicant

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Electronic Acknowledgement Receipt

EFS ID:	39330758
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	01-MAY-2020
Filing Date:	29-NOV-2017
Time Stamp:	17:11:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	55390-501C01US_SB08.pdf	1257913 c42e6191ec6bc80101e7869b975ba6809d59da98	no	4

Warnings:

Information:					
2	Foreign Reference	DE202014103695U1.pdf	1144410 f6b6d062a3656d26dd5ca1abcb84b9a7169622ff	no	22
Warnings:					
Information:					
3	Foreign Reference	KR3009995990000.pdf	1445265 8c8a9961993de32c6157236d0d15de21693a5813	no	5
Warnings:					
Information:					
4	Foreign Reference	KR3008812960000.pdf	638404 1389939f82e51cd747aaaadff06a9ebf88d60494	no	9
Warnings:					
Information:					
5	Foreign Reference	KR3008599650000.pdf	851173 f6b0e6d1d5e6721e535f3a2be81e2d232c7f7054	no	9
Warnings:					
Information:					
6	Foreign Reference	KR3008422360000.pdf	867460 786276f2b635661791262cd96531e137bd041f89	no	11
Warnings:					
Information:					
7	Foreign Reference	CN204161752U.pdf	2138375 54c762c32275bdd1e1c9bc6d6c25bf3eb3d1d159	no	21
Warnings:					
Information:					
8	Foreign Reference	CN103659777A.pdf	922856 644ea6c5bad87815fa5726312205a2d7193137e9	no	10
Warnings:					
Information:					

9	Transmittal Letter	55390-501C01US_IDS.pdf	101522 71193083f27902f0c9c43176a344398e34cce2f6	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	9367378	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

30623 7590 05/19/2020

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 05/19/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	08/19/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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PTOL-85 (Rev. 02/11)

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IPR2024-01400

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

30623 7590 05/19/2020
Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	08/19/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEINERTH, GIDEON R	3736	206-501000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

30623 7590 05/19/2020

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

EXAMINER	
WEINERTH, GIDEON R	
ART UNIT	PAPER NUMBER
3736	

DATE MAILED: 05/19/2020

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 02/11)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2706
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/826,232	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 5/1/2020.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are See Continuation Sheet . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 5/1/2020 and 4/24/2020.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2708
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Continuation of 3. The allowed claim(s) is/are: 1-2,6-11,13-19 and 21-23

Reasons for Allowance

Amended Claim 1 recites a single depressed locking location (244) having two locking ribs (248) that form the coupling engagement as seen in Figure 8A. Ko (US 2014/0161518) discloses the sidewalls (Ko element 23) as inwardly angled dovetail members which may be considered 'ribs'. The presently amended claims specify ribs as distinct members above the depression and the sidewalls as locking ribs (312A and 312B – Figure 12C).

Claim 6 recites two locking ribs (312A and 312B – Figure 12C) in two neighboring depressions (308A and 308B). These two ribs in two neighboring depressions serve as the female coupler as discussed in Specification Page 32 Lines 6-14 to hold an item in an offset position from the depressions.

Furthermore, consideration of the additional references submitted on June 18, 2019, July 2, 2019, July 18, 2019, August 20, 2019, March 31, 2020 also do not anticipate the claimed subject matter. Additional references considered on December 12, 2019 and November 25, 2019 also have been considered along with references submitted in corresponding applications 16/216724 and 16/216724. have also been considered.

The most recent references submitted on April 24, 2020 and May 1, 2020 have also been considered.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is (571)270-5121. The examiner can normally be reached on Monday-Friday 10AM-6PM EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Pickett can be reached on (571) 272-4560. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

CPC - Searched*		
Symbol	**Date**	**Examiner**
A47B47/00	6/6/2018	GW
A47B67/04	6/6/2018	GW
A47B87/02,007,0276	6/6/2018	GW
B65D21/0224,02,0223,0212,0217,0219,0222,0228,023,	6/6/2018	GW
B65D25/2823,06	6/6/2018	GW
B25H3/021,022,023,04,06	6/6/2018	GW
Y10T403/7045	6/6/2018	GW
A47B87/02	11/23/2018	GW
A47B88/90	11/23/2018	GW
B25H3/02	11/23/2018	GW
B65D21/0204	11/23/2018	GW
A45C7/0045	2/20/2019	GW
A45C5/14	2/20/2019	GW
B65D21/00	2/20/2019	GW
Update search from co-pending Applications 15826201, 16216724	02/20/2019	GW
Update Search for IDS filed 4/17/2019	04/26/2019	GW
Update Search, Include KO (US 2014/0161518)	06/04/2019	GW
Update Search, include references from IDS of 6/18/19, 7/2/19, 7/18/19	08/18/2019	GW
Update search, include references from IDS of 12/12/2019 and 11/25/2019	12/22/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2713
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**
		GW

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
206	508,511,504,302,501	6/6/2018	GW
280	47.18,47.19,47.26,79.2	6/6/2018	GW
312	107,111	11/23/2018	GW
280	47.26,47.28,652	11/23/2018	GW

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
Update search from Application 16216724 and 15826201	02/20/2019	GW
Consider additional references from 16/216724	12/22/2019	GW
Update references from IDS filed 3/31/2020	04/12/2020	GW
Update search, include references from IDS of 5/1/2020 and 4/24/2020	05/11/2020	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2714
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
A45C7	0045	2/20/2019	GW
A47B47	00	2/20/2019	GW
A47B67	04	2/20/2019	GW
A47B87	02,007,00276	2/20/2019	GW
A47B88	90	2/20/2019	GW
B65D21	0024,02,00,0223,0212,0217,0219,0222,0228,023,0204	2/20/2019	GW
B65D25	2823,06	2/20/2019	GW
B25H3	021,02,022,023,04,06	2/20/2019	GW
Y10T403	7045	2/20/2019	GW
206	508,511,504,302,501	2/20/2019	GW
280	47.18,47.19,47.26,79.2,47.28,652	2/20/2019	GW
312	107,111	2/20/2019	GW

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	/GIDEON R WEINERTH/ Examiner, Art Unit 3736

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2715
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

CPC						
Symbol					**Type**	**Version**
B65D	/	21	/	0223	F	2013-01-01
B25H	/	3	/	02	I	2013-01-01
A45C	/	5	/	14	I	2013-01-01
A45C	/	7	/	005	I	2013-01-01
A45F	/	3	/	10	I	2013-01-01
B25H	/	1	/	04	I	2013-01-01
A45C	/	13	/	02	I	2013-01-01
B25H	/	3	/	021	I	2013-01-01
B65D	/	21	/	0209	I	2013-01-01
B62B	/	1	/	14	I	2013-01-01
B65D	/	21	/	0228	I	2013-01-01
B65H	/	2701	/	533	A	2013-01-01
A45C	/	7	/	0045	A	2013-01-01
B25H	/	3	/	023	A	2013-01-01
B62B	/	5	/	067	A	2013-01-01
B65D	/	2255	/	00	A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

/GIDEON R WEINERTH/ Examiner, Art Unit 3736		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736	11 May 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6A

U.S. Patent and Trademark Office — Part of Paper No.: 20200511

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2716
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B65D	/	21	/	02
	/		/	
B25H	/	3	/	02

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
206	501

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					
206	504	508	511			
280	47.18					

/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner)	11 May 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 6A

U.S. Patent and Trademark Office — Part of Paper No.: 20200511

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2717
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/826,232	Brunner et al.
	Examiner	**Art Unit**
	GIDEON R WEINERTH	3736

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	12	10	17	19										
2	2	13	11		20										
	3		12	6	21										
	4	14	13	18	22										
	5	15	14	8	23										
7	6	3	15												
9	7	4	16												
10	8	16	17												
11	9	5	18												

/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Assistant Examiner)	(Date)	**Total Claims Allowed:** 18	
/GIDEON R WEINERTH/ Examiner, Art Unit 3736 (Primary Examiner)	11 May 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 6A

U.S. Patent and Trademark Office Part of Paper No.: 20200511

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2718
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	D871013	S1	2019-12-24	Liu	
/G.R.W/	2	D828671	S1	2018-09-11	Cope et al.	
/G.R.W/	3	D456972	S1	2002-05-07	Blason et al.	
/G.R.W/	4	D437669	S1	2001-02-13	Blason et al.	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	20200055534	A1	2020-02-20	Hassell	
/G.R.W/	2	20190031222	A1	2019-01-31	Takyar et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

/G.R.W/	3	20170349013	A1	2017-12-07	Grönholm	
/G.R.W/	4	20130154218	A1	2013-06-20	Tiilikainen	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
/G.R.W/	1	Milwaukee Dolly, announced 2019 (online), (site visited 3/9/2020). Available from internet, URL: https://www.zoro.com/milwaukee-tool-box-dolly-7-4164-h-18-2932-w-48-22-8410/i/G3958724/ (Year: 2019)	
/G.R.W/	2	Wheel board, announced 2019 (online), (site visited 3/09/2020). Available from internet, URL: https://www.gearooz.com accu-case-aca-wheel-board (Year: 2019)	

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EXAMINER SIGNATURE

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	05/11/2020

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-04-24
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S78	151	("1409838" | "20010040080" | "20020074332" | "20020130005" | "20020185350" | "20030034215" | "20030034636" | "20040000457" | "20040004332" | "20040026199" | "20040074725" | "20040163910" | "20040211634" | "20040238303" | "20050077133" | "20050077706" | "20050098402" | "20050103590" | "20050150733" | "20050258621" | "20050285359" | "20060010644" | "20060086583" | "20060102677" | "20060163305" | "20060175170" | "20060196743" | "20060207848" | "20080060953" | "20080136133" | "20080223679" | "20080236972" | "20080308369" | "20080308370" | "20090057082" | "20090139813" | "20090160147" | "20090218187" | "20100000805" | "20100025174" | "20100095480" | "20100108452" | "20100147642" | "20100263977" | "20100307879" | "20100308563" | "20110247910" | "20120160617" | "20120261223" | "20150091264" | "20160045000" | "2454438" | "2602675" | "3131829" | "3178197" | "3317081" | "3659867" | "3842953" | "3891230" | "3974898" | "4087102" | "4314624" | "4335895" | "4575109" | "4588055" | "4673070" | "4917392" | "4953257" | "4969660" | "5072958" | "5105962" | "5127662" | "5263727" | "5310071" | "5348325" | "5533231" | "5628443" | "5630601" | "5749503" | "5803471" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:34

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S79	6	("2008/0308369").URPN.	USPAT	OR	OFF	2018/04/05 22:35
S80	45	("0672173" | "1084360" | "20020144376" | "20040084269" | "20040173427" | "20040238241" | "20050077136" | "20050092568" | "20080308369" | "20090095588" | "20090101461" | "20100059322" | "20100170761" | "20100236886" | "20100270116" | "20110168507" | "20130037364" | "20130175129" | "20130213753" | "20130220754" | "2581417" | "4836343" | "5099968" | "5355980" | "5560458" | "5671832" | "5829559" | "5927450" | "5988334" | "6347693" | "6533086" | "6536568" | "7322477" | "7322585" | "7503569" | "7909149" | "8087513" | "D516869" | "D671316").PN. OR ("9027722").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:36
S81	35	("0922567" | "1084360" | "1567461" | "2372845" | "2428906" | "2801666" | "2858957" | "3837447" | "4098312" | "4122925" | "4142563" | "4257463" | "4286639" | "4673070" | "4744446").PN. OR ("4836343").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:39

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S83	33	("0842498" | "1689399" | "3114486" | "3698045" | "4231135" | "4673070" | "4799298" | "4934573" | "5205448" | "5259093" | "5465425" | "5604958" | "5632071" | "5724707" | "5815843" | "6108816" | "7080430" | "7251867").PN. OR ("7526842").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:41
S84	23	("2428906" | "2707035" | "3225951" | "3319744" | "3696850" | "3958731").PN. OR ("4122925").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:43
S85	33	("1973819" | "2007696" | "3373911").PN. OR ("4142563").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:46
S86	12	("2858957").URPN.	USPAT	OR	OFF	2018/04/05 22:48
S87	12	("20060071581" | "20080060964" | "2858957" | "3346137" | "3568879" | "4258847" | "4592601" | "4685565" | "4863222" | "7311202").PN. OR ("9724820").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S88	43	("2128854" | "3743372").PN. OR ("4863222").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:49
S89	73	("2842420" | "2998128" | "3032381" | "3294463" | "3501044" | "3552817").PN. OR ("3743372").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:51
S90	36	("2011962" | "3514170" | "3552817" | "3743372" | "3851936" | "3999818" | "4198777" | "4238032" | "4353470" | "4589546" | "4744612" | "4782619" | "4874210" | "4907703" | "5046789" | "5137340" | "5176435" | "5191983" | "5344024" | "5399004" | "5454634").PN. OR ("6050657").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:53

S91	17	("3131829" | "3429632" | "3552579" | "3707023" | "4062302" | "4239306" | "5246284").PN. OR ("5454634").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:55
S92	55	("0511617" | "1890000" | "2492697" | "2557630" | "2807387" | "3203744" | "3283915" | "3514170" | "3743372" | "3758181" | "3918781" | "3999818" | "4026615" | "4056295" | "4120549").PN. OR ("4243279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 22:59
S93	45	("2593998" | "2653072" | "2730423" | "3131829" | "3219400" | "3514170" | "3552817" | "3563624" | "3743372" | "3814489").PN. OR ("3999818").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:03
S94	14	("2593998").URPN.	USPAT	OR	OFF	2018/04/05 23:06
S95	52	("4081061" | "4621716" | "5316159" | "6213266" | "6213267" | "7976024" | "1084360" | "3749273" | "4570799" | "4995436" | "5779051" | "D447944" | "3103278" | "3374917" | "5000713" | "6585090" | "5098328" | "D359315" | "20030132184" | "20050199459" | "4813542" | "0480709" | "5062539" | "5186290" | "6276550" | "D346627" | "5310071" | "20040222059" | "3583590" | "3836043" | "4287997" | "4656840" | "5167336" | "5392945" | "6257381" | "20040000458" | "4573595" | "7644828" | "D483200" | "7648407" | "3811747" | "20010027902" | "5099968" | "5485920" | "5709304" | "5735422" | "3346137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:14
S96	22	("3131829" | "3194426" | "3338452" | "4258847" | "4328902" | "4428479" | "5016946" | "5050755" | "5310071" | "5316159" | "5503288" | "5845790").PN. OR ("6276550").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:16
S97	41	("2454438" | "2495132" | "3131829" | "3194426" | "3297196" | "3317081" | "3343705" | "3404805" | "3851936" | "4192422").PN. OR ("4328902").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:18
S98	43	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:29

S99	11	("0907507" | "1626482" | "2343525" | "3974898" | "4065014").PN. OR ("4423687").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/05 23:30
S100	32	("3481502").URPN.	USPAT	OR	OFF	2018/04/05 23:38
S101	8	(("1112943") or ("2255513") or ("2849151") or ("3371816")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:41
S102	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/05 23:41
S103	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/05 23:42
S104	21	("1112943").URPN.	USPAT	OR	OFF	2018/04/05 23:43
S105	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 12:32
S106	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 12:33
S107	22	("879455").URPN.	USPAT	OR	OFF	2018/04/06 12:34
S108	16	("2849151").URPN.	USPAT	OR	OFF	2018/04/06 13:10
S109	8	(("0993866") or ("1342909") or ("1514512") or ("1640368")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 13:11
S110	37	("3899229" | "4431237" | "4519655" | "4828341" | "4889254" | "5191983").PN. OR ("5469961").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:11
S111	25	("20030155267" | "20050224494" | "20080308641" | "20090139892" | "20090178989" | "20090236255" | "2634020" | "3182856" | "3387732" | "3581928" | "4351448" | "5353948" | "5469961" | "5606820" | "5699925" | "5755180" | "6761266" | "6959507" | "7246718").PN. OR ("8677661").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:12

S112	24	("1226708" | "2833137" | "2834121" | "2843943" | "3139744" | "3220229" | "3545235" | "3824813" | "4507942" | "4551996" | "4663948" | "4680948" | "4821535" | "4972687" | "4989426" | "5469961" | "5653416").PN. OR ("5951130").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 13:13
S113	118	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$ or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:03

		US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$).did. or (US-3117692-$ or US-2593998-$).did.				
S115	286	B65D21/0223.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:05
S116	226	B65D21/0224.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:05
S117	2198	B25H3/021,022,023,04,06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:07
S118	436	A47B47/00.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S119	1076	A47B87/02,007,0276.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:10
S120	550	A47B67/04.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:11
S121	770	Y10T403/7045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:12
S122	9	("7451578" | "6209278" | "4599841" | "6363677" | "6955020" | "7040068" | "6588166" | "6804926" | "6658808").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:14

S123	102	("0890436" | "2740167" | "3310919" | "3988187" | "5295341" | "5630304" | "6023907" | "1854396" | "2381469" | "20030029116" | "3040388" | "3192574" | "3347048" | "3526420" | "4599841" | "6098365" | "5899038" | "20020112433" | "20030029115" | "2381469" | "3673751" | "4599841" | "4819932" | "5086599" | "5363616" | "6029416" | "6216409" | "6324809" | "6546691" | "6606834" | "6647690" | "20030029115" | "3902291" | "5295341" | "5630304" | "6421970" | "6763643" | "0753791" | "20030029116" | "2430200" | "3579941" | "5283102" | "6209278" | "6647690" | "6854235" | "20030024201" | "3579941" | "3673751" | "4426820" | "4741136" | "5860267" | "6023907" | "6122879" | "6769835" | "0338653" | "1776188" | "1854396" | "20030024201" | "3172508" | "3175476" | "3902291" | "4094090" | "5706621" | "6122879" | "6397548" | "2740167" | "20020112433" | "3175476" | "4416097" | "5797237" | "6029416" | "6182410" | "6397548" | "0890436" | "0623562" | "3040388" | "3192574" | "3347048" | "4426820" | "5860267" | "6098365" | "6490836" | "20050210810" | "3310919" | "4819932" | "5086599" | "5283102" | "6006486" | "6101778" | "6209278" | "6324809" | "3720027" | "20020170258" | "4416097" | "4807416" | "5165816" | "5618602" | "6094882" | "6101778" | "6182410" | "6513862" | "20020170258" | "20030024200" | "3657852" | "3988187" | "5165816" | "6094882" | "6591568" | "5274979" | "6772568" | "3200553" | "3657852" | "4741136" | "4819532" | "5797237" | "6006486" | "6505452" | "6591568" | "6854235" | "4094090" | "5363616" | "5618602" | "6513862" | "6606834" | "5548937" | "6880307" | "7065935" | "20030024200" | "2138085" | "2142305" | "3526420" | "5348778" | "20050210810" | "1776188" | "2138085" | "2142305" | "2430200" | "3172508" | "0338653" | "5706621" | "6490836" | "6504552" | "6546691" | "5274979" | "1723306").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:15
S124	373	("2740167").URPN.	USPAT	OR	OFF	2018/04/06 18:16

S125	477	("0087853" | "0108068" | "0124228" | "0213740" | "0274354" | "0316176" | "0634581" | "0861911" | "1194636" | "1723306" | "1743492" | "1809393" | "1902716" | "20010024707" | "20020031646" | "20020069611" | "20020092263" | "20020170258" | "20020170259" | "20020178674" | "20020178680" | "20020189190" | "20020194807" | "20030009971" | "20030024199" | "20030037504" | "20030084636" | "20030094230" | "20030101681" | "20030145549" | "20030180091" | "20030188504" | "20030196405" | "20040016196" | "20040031227" | "20040049999" | "20040060255" | "20040068954" | "20040123548" | "20040128934" | "20040139676" | "20040139678" | "20040159066" | "20040168392" | "20040177584" | "20040182033" | "20040182036" | "20040200175" | "20040211143" | "20040244325" | "20040250492" | "20040261348" | "20050003132" | "20050028474" | "20050050827" | "20050160694" | "20050166514" | "20050205161" | "20050210810" | "20050235593" | "20050252130" | "20050268570" | "20060053724" | "20060070333" | "20060101769" | "20060156670" | "20060174577" | "20060179754" | "20060236642" | "20060260254" | "20060272262" | "20070006543" | "20070011981" | "20070028547" | "20070065293" | "20070175156" | "20070193178" | "20080000182" | "20080000186" | "20080000187" | "20080005998" | "20080010931" | "20080010937" | "20080028707" | "20080034708" | "20080041008" | "20080066415" | "20080104921" | "20080110125" | "20080134607" | "20080134613" | "20080134614" | "20080155930" | "20080216434" | "20080216920" | "20080295432" | "20090133353").PN. OR ("20090193748" | "20100293879" | "20100300031" | "20100319290" | "20100319291" | "20110030303" | "20110041996" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:17

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S126	100	("2732706").URPN.	USPAT	OR	OFF	2018/04/06 18:21
S127	16	(("1351133") or ("1459189") or ("1465421") or ("1652421") or ("1652305") or ("1667160") or ("2201110") or ("2460330")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 18:22
S128	6	(("0935402") or ("1925070") or ("2453918")).PN.	USPAT; USOCR	OR	OFF	2018/04/06 18:23
S129	3	("3351366").URPN.	USPAT	OR	OFF	2018/04/06 18:39
S130	51	("1575270" | "20020170933" | "20030141329" | "20050247653" | "20060237509" | "20080142462" | "20080179370" | "20080185353" | "20090145789" | "20090145866" | "20140075650" | "20170266804" | "2290468" | "2546720" | "2763377" | "2964196" | "3145031" | "3536286" | "4264013" | "4923202" | "4932576" | "5395023" | "5511705" | "5722576" | "5881891" | "5971242" | "6213365" | "6666465" | "6698632" | "6874624" | "7090075" | "7322482" | "7686196" | "7699197" | "7726495" | "7762440" | "8267260" | "8510868" | "9038869" | "D163637" | "D165553" | "D328681").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:42
S131	18	("2715966" | "20050247653" | "4771897" | "5429252" | "5740927" | "5845792" | "5915573" | "6152312" | "6267338" | "6435357" |	US-PGPUB;	OR	OFF	2018/04/06 18:43

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S132	7	("20100314271" | "8991599" | "5799787" | "7686180" | "8695795" | "8991599" | "20100314271" | "5797508" | "3862689").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:46
S133	2	("20080236562" | "7723655").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:47
S134	6	(matthew near3 vargo).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S135	75	(Hoppe near2 Christopher).inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:49
S136	14	B65D25/2823.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S137	351	B65D25/06.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 18:54
S138	73	(Milwaukee adj Electric).as. and (stack box)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:01
S139	8	(Milwaukee adj Electric).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02
S140	8	(Milwaukee and tool).as. and ("220" "206" "215").clas.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:02

S141	84	(Milwaukee and tool).as. and latch	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:03
S142	37	(Milwaukee and tool).as. and (stack stacked stacking)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:04
S143	629	("1275862" | "20010022257" | "20020008125" | "20020014507" | "20020017752" | "20020043534" | "20020074332" | "20020084159" | "20020125160" | "20020162716" | "20020163284" | "20030034636" | "20030042091" | "20030042093" | "20030075468" | "20030132080" | "20030151218" | "20040004332" | "20040026199" | "20040026294" | "20040036240" | "20040108179" | "20040112777" | "20040144606" | "20040154889" | "20040163910" | "20040188201" | "20040188205" | "20040195791" | "20040206431" | "20040245735" | "20050023096" | "20050056511" | "20050109650" | "20050121275" | "20050121868" | "20050194756" | "20050224305" | "20050279123" | "20060017293" | "20060124505" | "20060144732" | "20060151967" | "20060196744" | "20060201834" | "20060213735" | "20070045370" | "20070045974" | "20070051765" | "20070074941" | "20070137960" | "20070164064" | "20070170671" | "20070194543" | "20070200309" | "20070215425" | "20070241113" | "20070267371" | "20070290466" | "20080017463" | "20080017537" | "20080035508" | "20080035510" | "20080067206" | "20080135364" | "20080135366" | "20080136130" | "20080152944" | "20080164842" | "20080169739" | "20080217130" | "20080230416" | "20090014974" | "20090080809" | "20090139813" | "20090166141" | "20090211932" | "20090212536" | "20090236810" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:04

		"20090250365" | "20090301833" | "20100000805" | "20100012538" | "20100012655" | "20100033325" | "20100101908" | "20100108451" | "20100108452" | "20100175960" | "20100224527" | "20100258465" | "20100320245" | "20110067967" | "20110084075").PN. OR ("20110094910" | "20110121695" | "20110132046" | "20110155526" | "20110174648" | "20110214957" | "20110268374" | "20120018330" | "20120138403" | "20120152944" | "20120160626" | "20120206907" | "20120210596" | "20120255824" | "20120257379" | "20120267374" | "20120292213" | "20120312708" | "20120317933" | "20120318792" | "20120326406" | "20120326669" | "20130007979" | "20130008753" | "20130099648" | "20130161143" | "20130186795" | "20130233660" | "20130240314" | "20130284553" | "20130292221" | "20130327608" | "20140021232" | "20140027227" | "20140102928" | "20140166414" | "20140166516" | "20140197059" | "20140311844" | "20140326562" | "20140353104" | "20150047941" | "20150060221" | "20150102573" | "20150107949" | "20150129384" | "20150130148" | "20150136554" | "20150150348" | "20150173475" | "20150208774" | "2042387" | "2125856" | "2145143" | "2463713" | "2799306" | "2826426" | "2883184" | "3177023" | "3259411" | "3394955" | "3446304" | "3606372" | "3817419" | "3842953" | "3851756" | "3924844" | "3948365" | "3989128" | "3997038" | "4036336" | "4062429" | "4087102" | "4105112" | "4222580" | "4228877" | "4254850" | "4261447" | "4278187" | "4288134" | "4353182" | "4561526" | "4566616" | "4575109" | "4588055" | "4630837" | "4846493" | "4852705" | "4890414" | "4923105" | "5035523" | "5042193" | "5048649" | "5108119" | "5116289" | "5147019" | "5165148" | "5167306" | "5167354" | "5184477" | "5207440" | "5209327" | "5228609" | "5228706" | "5249438" | "5295742" | "5310079" | "5316096").PN. OR				

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S144	325	B65D21/0212.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:09
S145	27	("4212415" | "4664283" | "4823955" | "4896926" | "5246105").PN. OR ("5544751").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:11
S146	44	("1699130" | "2072672" | "2551814" | "2633285" | "2736487" | "3010638" | "3361322" | "3623650" | "3632037" | "3713579" | "3905478" | "3905541" | "3921896" | "4002261" | "4023617" | "4187977" | "4230233" | "4245773" | "4251006" | "4277015" | "4291830" | "4389013" | "4482074" | "4643314" | "4685610" | "4762270" | "4763833" | "4828894" | "4884739" | "4911356" | "4948039" | "4993623" | "5038998" | "5116290" | "5190213").PN. OR ("5429260").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 19:12

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S148	119	("1267650" | "1999162" | "3163268" | "3379482" | "3419184" | "3425471" | "3498689" | "3642168" | "3700137" | "3979016" | "3987829" | "4161261" | "4293073" | "4303158" | "4523692" | "4664347" | "4799503" | "4804092" | "4819795" | "4915913" | "4982863" | "4984687" | "5011013" | "5024471" | "5040834" | "5042674" | "5065885" | "5065887" | "5080250" | "5103994" | "5117979" | "5123564" | "5176281" | "5186330" | "5190152" | "5193706" | "5244265" | "5319937" | "D237135" | "D237611" | "D238148" | "D239695" | "D246872" | "D248280" | "D257934" | "D258721" | "D277797" | "D286937" | "D292711" | "D302774" | "D312573" | "D316516" | "D319016" | "D321090" | "D321091" | "D322164" | "D325323" | "D325324" | "D326775" | "D326815" | "D327646" | "D328425" | "D328818" | "D328819" | "D329331" | "D329747" | "D330161" | "D330162" | "D330329" | "D331317" | "D335960" | "D336366" | "D339471" | "D342364").PN. OR ("5564805").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 20:05
S149	62	("0198092" | "0564782" | "1063046" | "1268124" | "1740470" | "1987822" | "2011197" | "2094805" | "2122969" | "2504722" | "2759507" | "2786500" | "2791251" | "2799306" | "3018355" | "3615087" | "3746210" | "3851756" | "4061323" | "4239195" | "4256294" | "4278243" | "4303158" | "4378828" | "4460085" | "4909491" | "4911296" | "5011013" | "5117979" | "5193706" | "D253212" | "D263533" | "D288867").PN. OR ("5595228").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:03
S150	15	("2587829" | "2610761" | "2740517" | "4252239" | "4733703" | "5329929" | "5595228").PN. OR ("6206063").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/06 22:04
S151	6	("4466659" | "4967944" | "5207470" | "6193118" | "6554169" | "7000810").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38

S152	96	("1032326" | "1503894" | "1926162" | "2612200" | "2629644" | "2724595" | "2735597" | "2754079" | "2979190" | "3229946" | "3640423" | "3642168" | "3664704" | "3727971" | "3759416" | "3791547" | "3854621" | "3940009" | "3987829" | "4190281" | "4213539" | "4215896" | "4288011" | "4403786" | "4458570" | "4488669" | "4499998" | "4522326" | "4531774" | "4580827" | "4593816" | "4623071" | "4674665" | "D259413" | "D285673").PN. OR ("4967944").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:38
S153	25	("2967080" | "2987358" | "4844305" | "4967944" | "5419476" | "5667115").PN. OR ("5988473").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:40
S154	10	("2987358").URPN.	USPAT	OR	OFF	2018/04/07 00:41
S155	4	("2009/0315285").URPN.	USPAT	OR	OFF	2018/04/07 00:46
S156	223	("5072918" | "5390943" | "5871219" | "6739605" | "0875476" | "6086073" | "4743040" | "6109628" | "1427388" | "20040129658" | "20050023786" | "20050057011" | "20060232033" | "20060237091" | "3472392" | "3999775" | "4699270" | "4786122" | "5072955" | "5743607" | "5876047" | "6123346" | "6545863" | "7232136" | "D396023" | "6497423" | "D153654" | "2155769" | "3313498" | "3870177" | "4391422" | "4763799" | "4923202" | "4998023" | "5509671" | "5915646" | "6073919" | "6095156" | "6170839" | "6264216" | "D188099" | "D460235" | "D461941" | "D469235" | "5921566" | "D415867" | "20030047895" | "20030218308" | "5183372" | "5275349" | "5465988" | "5913528" | "6276471" | "6752281" | "7114733" | "7134673" | "7144020" | "4743040" | "3379431" | "4457527" | "5316232" | "5566961" | "6572123" | "D153654" | "D415867" | "6497423" | "D485037" | "20060066064" | "3698735" | "3908749" | "4895068" | "6138558" | "6251113" | "6267080" | "6471010" | "6497424" | "7207449" | "4901937" | "5308012" | "6270094" | "D463646" | "D474570" | "D485410" | "5921566" | "D273242" | "D474570" | "1149639" | "2413164"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 00:50

		| "2575661" | "2819908" | "20050001395" | "20060006621" | "20060157944" | "4099735" | "4688860" | "5048857" | "5224531" | "5452908" | "7017603" | "7156475" | "7204374" | "7296808" | "5887878" | "1126544" | "2705114" | "20050280228" | "20050284697" | "5285981" | "6116533" | "D302064" | "D361187" | "D381168" | "D424321" | "D487604" | "D504000" | "D469235" | "1200008" | "1471446" | "1562089" | "2623642" | "2845780" | "20010045718" | "20020084607" | "20020096844" | "20060076306" | "3965969" | "4138504" | "4165088" | "4373761" | "4880248" | "6539831" | "7044569" | "5154544" | "20040065989" | "20040227315" | "3212645" | "4179080" | "4759560" | "5188308" | "5362078" | "5495951" | "5687928" | "5839739" | "5971512" | "6497423" | "6669214" | "D336183" | "D471687" | "6086073" | "D302064" | "D336183" | "20020060438" | "20040056439" | "20060208440" | "4518208" | "4832355" | "5221132" | "5375860" | "5873585" | "6022088" | "6101831" | "6206385" | "D140635" | "4380293" | "6109437" | "3610431" | "4743040" | "5269545" | "5848798" | "6241181" | "6315376" | "D391032" | "D395108" | "D403826" | "D468881" | "D471688" | "D485037" | "20030122331" | "4923202" | "1487856" | "20030107195" | "3606445" | "3873114" | "5011240" | "5634649" | "5716116" | "5941229" | "6578938" | "6783563" | "6910710" | "D469235" | "4815394" | "1660521" | "3759538" | "4564152" | "4585130" | "5016948" | "5123666" | "5595395" | "6102497" | "6109628" | "6322061" | "6615973" | "D361188" | "D153654" | "1649065" | "20020064478" | "20030121874" | "20050127627" | "3722700" | "4019793" | "5282678" | "6857644" | "D147135").PN.				
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S158	31	("0783059" | "2878928" | "3245528" | "3319685" | "3386607" | "3605374" | "3835992" | "3992810" | "4320846" | "4627595" | "4799590"	US-PGPUB;	OR	OFF	2018/04/07 16:50

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S159	26	("1101357" | "1149266" | "1862868" | "2702116" | "3145871" | "4154362" | "4503955" | "4705316" | "4896926" | "4998616").PN. OR ("5415255").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:53
S160	37	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" | "5060851" | "5117979").PN. OR ("5325966").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 16:55
S161	6	("3412888" | "4204609" | "5409126" | "5499715" | "5769229").PN. OR ("6467681").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/07 17:17
S162	173	(US-20130127129-$ or US-20110155613-$ or US-20110139665-$ or US-20040195793-$ or US-20020000440-$ or US-20120292213-$ or US-20070012694-$ or US-20150336710-$ or US-20020134700-$ or US-20100270764-$ or US-20100000893-$ or US-20050062244-$ or US-20040183266-$ or US-20020014488-$ or US-20020113386-$ or US-20030196860-$ or US-20170259956-$ or US-20160144500-$ or US-20160130034-$ or US-20150274362-$ or US-20110168599-$ or US-20090178989-$ or US-20100219193-$ or US-20060254946-$ or US-20070068757-$ or US-20090178946-$).did. or (US-20050199459-$ or US-20080308369-$ or US-20050077136-$ or US-20080104921-$ or US-20160153200-$ or US-20080134613-$ or US-20080134607-$ or US-20070193178-$ or US-20170266804-$ or US-20140075650-$ or US-20090145866-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160023349-$ or US-20140166516-$ or US-20120326406-$ or US-20110121695-$ or US-20070194543-$ or US-20070170671-$ or US-20110049824-$ or US-20130056378-$ or US-20120312812-$ or US-20120187013-$ or US-20120080432-$ or US-20120061930-$ or US-20050280228-$).did. or (US-20060027475-$ or US-20050155889-$ or US-20160168880-$).did. or (US-7503569-$ or US-9022234-$ or US-8875888-$ or US-8657307-$ or US-8590704-$ or US-3182856-$ or US-8459495-$ or US-7097036-$	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:25

		or US-6193062-$ or US-9393684-$ or US-6637592-$ or US-D730088-$ or US-5833065-$ or US-5482162-$ or US-5244265-$ or US-4244509-$ or US-9643629-$ or US-7780026-$ or US-9132543-$ or US-8567796-$ or US-8226092-$ or US-8201837-$ or US-8132819-$ or US-7997594-$ or US-3010775-$ or US-9669930-$).did. or (US-4813542-$ or US-6585090-$ or US-6085925-$ or US-D776106-$ or US-6839238-$ or US-9609964-$ or US-7152752-$ or US-9506489-$ or US-3944282-$ or US-5241765-$ or US-4389078-$ or US-1849659-$ or US-4405057-$ or US-9802741-$ or US-8851287-$ or US-8763836-$ or US-8561769-$ or US-D808164-$ or US-9550605-$ or US-4887731-$ or US-9738198-$ or US-7537119-$ or US-8813960-$ or US-9669968-$ or US-6024223-$ or US-1665238-$ or US-D333094-$).did. or (US-3376046-$ or US-4832200-$ or US-D364558-$ or US-3419184-$ or US-3117692-$ or US-8684222-$ or US-2328689-$ or US-4287997-$ or US-5628443-$ or US-9888752-$ or US-9027722-$ or US-4673070-$ or US-7526842-$ or US-5465839-$ or US-9724820-$ or US-4863222-$ or US-3743372-$ or US-6050657-$ or US-5454634-$ or US-3851936-$ or US-5602721-$ or US-3999818-$ or US-5271515-$ or US-4243279-$ or US-6276550-$ or US-4328902-$ or US-7350648-$).did. or (US-5407074-$ or US-3481502-$ or US-2849151-$ or US-3616943-$ or US-5469961-$ or US-8677661-$ or US-5951130-$ or US-7451578-$ or US-6122879-$ or US-3526420-$ or US-2740167-$ or US-9803375-$ or US-9663940-$ or US-7841144-$ or US-9616562-$ or US-5544751-$ or US-5429260-$ or US-7946609-$ or US-6578708-$ or US-6176559-$ or US-5927837-$ or US-5564805-$ or US-5595228-$ or US-6206063-$ or US-7000810-$ or US-4967944-$ or US-5988473-$).did. or (US-6641013-$ or US-2987358-$ or US-4576423-$ or US-4756394-$ or US-4896926-$ or US-5325966-$ or US-5697500-$ or US-6467681-$).did. or (US-3117692-$ or US-2593998-$).did.				
S163	3	(("20170166352") or ("20110139665") or ("5628443")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:26

S164	28	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2018/04/09 01:36
S165	7	(("5240264") or ("7503569") or ("20020000440") or ("20040195793") or ("20110139665") or ("20110155613") or ("20130127129")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S166	27	S164 not S165	US-PGPUB; USPAT; USOCR	OR	OFF	2018/04/09 01:37
S167	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/21 18:13
S168	56	("1932429" | "20060016811" | "20060070906" | "20060237341" | "20070080089" | "20080110190" | "20080112782" | "20080121253" | "20080128414" | "20090178989" | "20090184021" | "20110139665" | "2178091" | "2259041" | "5271515" | "5429260" | "5531517" | "5544751" | "5549241" | "5860527" | "6062388" | "6581772" | "6880705" | "6991106" | "7044483" | "7063210" | "7516854" | "7661549" | "8342329" | "8640871" | "8973811" | "8997993" | "9056694" | "9101212" | "D277532" | "D277723" | "D277819" | "D347130" | "D385306" | "D406478" | "D470641" | "D529755" | "D538571" | "D543030" | "D589723" | "D590021" | "D645902" | "D654726" | "D664034" | "D689718" | "D709716" | "D773217" | "D781625").PN. OR ("D815471").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:13

S169	5	(("20160144500") or ("0784114") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:16
S170	4	(("20160144500") or ("7841144") or ("20110073516") or ("20150274362")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17
S171	554	("0124228" | "0213740" | "0714987" | "0753791" | "1124228" | "1194636" | "1371856" | "1407679" | "1454250" | "1468288" | "1477813" | "1510924" | "1540128" | "1575821" | "1602256" | "1602267" | "1615096" | "1622103" | "1622104" | "1637634" | "1644710" | "1660480" | "1714738" | "1718702" | "1723306" | "1734826" | "1743492" | "1764331" | "1778069" | "1787027" | "1790178" | "1809393" | "1823039" | "1859667" | "1898364" | "1902716" | "1906411" | "1925070" | "1929871" | "1940377" | "1953306" | "1986739" | "1988201" | "1995264" | "20010029720" | "20020007608" | "20020007609" | "20020014047" | "20020020127" | "20020031646" | "20020046528" | "20020056245" | "20020069611" | "20020083673" | "20020092263" | "20020100231" | "20020160610" | "20020178673" | "20020178674" | "20020178682" | "20030009971" | "20030009972" | "20030024199" | "20030033777" | "20030033784" | "20030037504" | "20030041545" | "20030084636" | "20030101674" | "20030101681" | "20030115812" | "20030115821" | "20030180091" | "20030188504" | "20030196405" | "20030221387" | "20030233809" | "20040016196" | "20040031227" | "20040035078" | "20040035079" | "20040060255" | "20040068954" | "20040115921" | "20040139678" | "20040168392" | "20040177584" | "20040182036" | "20040200175" | "20040206036" | "20040211143" | "20040241374" | "20040255541" | "20050034404" | "20050034405" | "20050097860" | "20050102937" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:17

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S174	1351	E04F2201/0146,023,05.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:26
S175	514	B25H3/02.cpc.	USPAT	OR	OFF	2018/11/21 18:45
S176	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S177	165	B25H3/021.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:45
S178	0	("2018/0213934").URPN.	USPAT	OR	OFF	2018/11/21 18:46
S179	369	A47B88/90.cpc.	USPAT	OR	OFF	2018/11/21 18:46
S180	81	A47B2210/19.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:47
S181	29	("2614016" | "2676080" | "3001564" | "3079037" | "3974898" | "4040538" | "4119204" | "4239309" | "4287997" | "4293072" | "4865404" | "5190156").PN. OR ("5407074").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:50
S182	27	("0224486" | "1472676" | "2975930" | "3159436" | "3424334" | "3506321" | "3584738" | "3737031" | "4155452").PN. OR ("4293072").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:51
S183	48	("3506321").URPN.	USPAT	OR	OFF	2018/11/21 18:54
S184	46	("1092651" | "2565969" | "2891639" | "3028207" | "3032381" | "3506321").PN. OR ("3974898").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 18:56
S185	520	B65D21/0204.cpc.	US-PGPUB;	OR	OFF	2018/11/21 19:01

			USPAT; USOCR			
S186	868	A47B87/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S187	2232	312/107,111.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:02
S188	703	A47B88/90.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:15
S189	50	(("BRUNNER") near3 ("Yaron")).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:23
S190	34	("0455883" | "0484121" | "0918297" | "20060175945" | "20100052276" | "20110279956" | "20120086319" | "20130134850" | "2341434" | "2431830" | "2441728" | "3058320" | "3135570" | "3326203" | "3712697" | "4590709" | "5011240" | "5026130" | "5048902" | "5145245" | "5673984" | "6068356" | "6164738" | "8201900" | "D322875").PN. OR ("9872562").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:24
S191	45	("1223455" | "2123803" | "2704699" | "3272581" | "3316045" | "3796474" | "4155611" | "4505526" | "4577773" | "4848588" | "5205595" | "5246105" | "5299688" | "5344226" | "5358321" | "5426885").PN. OR ("5603559").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 19:27
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S193	16	("20080000899" | "20120312812" | "20130127129" | "3379482" | "3811559" | "4118048" | "4619363" | "5125697" | "5904269"	US-PGPUB;	OR	OFF	2018/11/21 20:02

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S194	75	("0440957" | "1933637" | "2511949" | "2789828" | "2981549" | "3055723" | "3349924" | "3379482" | "3891230" | "3905662").PN. OR ("4118048").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:03
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S196	29	("2472491" | "2925283" | "3057636").PN. OR ("3891230").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05
S197	143	("0344661" | "0687619" | "1424819" | "20010052681" | "20020014488" | "20020067027" | "20020074905" | "20020113386" | "20020185831" | "20030001348" | "20030146589" | "20040265104" | "20050062244" | "20050104308" | "20050258610" | "20050275178" | "20060006619" | "20060012139" | "20060038367" | "20070080512" | "20070194543" | "20070273114" | "20080084036" | "20080121547" | "20080128305" | "20080143069" | "20090020528" | "20090026901" | "20090096181" | "20090309323" | "20100052276" | "20100290877" | "20100327562" | "20110049824" | "20110181008" | "20120160886" | "20120326406" | "20140001719" | "20140023221" | "20140375181" | "2554091" | "2588830" | "2901262" | "2964328" | "3168329" | "3393951" | "3734526" | "3804432" | "3891230" | "3990653" | "4169607" | "4363496" | "4448434" | "4619363" | "4884689" | "4936594" | "4984704" | "5104135" | "5123666" | "5207723" | "5333885" | "5362078" | "5378005" | "5464104" | "5474312" | "5595395" | "5626352" | "5634649" | "5720535" | "5799958" |	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:05

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S201	2395	280/47.26,47.28,652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:09
S202	1975	280/47.26,47.28.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S203	518	280/652.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/21 20:10
S204	1	"15826201"	US-PGPUB;	OR	OFF	2018/11/22 00:33

			USPAT; USOCR			
S205	12	(US-0271616-$ | US-0320243-$ | US-1276744-$ | US-1477050-$ | US-15826201-$ | US-20080308369-$ | US-3616562-$ | US-3875888-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:39
S206	2	(("8875888") or ("9616562") or ("20080308369")).PN.	USPAT; USOCR	OR	OFF	2018/11/22 03:40
S207	3	(("8875888") or ("9616562") or ("20080308369")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 03:40
S208	64	("20020113387" | "20070194543" | "20080079227" | "20080084036" | "20110049824" | "3522955" | "4118048" | "4119044" | "4281843" | "5176281" | "5193706" | "5244265" | "5378005" | "5634649" | "5641170" | "5680932" | "5799958" | "5906381" | "5938396" | "5950828" | "6131926" | "6170839" | "6176559" | "6264220" | "6347847" | "6371320" | "6601930" | "6761366" | "6817623" | "7367571" | "7467801" | "7503569" | "7628406" | "7845653" | "7883096" | "7938412" | "D404916" | "D437484" | "D462168" | "D462170").PN. OR ("8132819").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:37
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S212	2	("2012/0292870").URPN.	USPAT	OR	OFF	2018/11/22 19:41

S213	52	("6264083" | "6666362" | "7204374" | "20120247044" | "4249684" | "6264220" | "6935641" | "7048320" | "7165702" | "20040194333" | "20040251227" | "20070210021" | "20100300996" | "20120199708" | "4944416" | "7487981" | "6615973" | "6786374" | "20070137532" | "5628534" | "7017254" | "6932406" | "20040051016" | "20050006539" | "20080296245" | "7740329" | "20060021985" | "5913380" | "6736265" | "20020100396" | "20120131872" | "3610429" | "6629654" | "4535897" | "6581920" | "20110107704" | "0332360" | "5406894" | "6474245" | "20050269792" | "5582269" | "20070012636" | "5687856" | "5899544" | "6247720" | "6814362" | "20040222176" | "20110168651" | "4630739" | "4961295" | "5730414").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 19:46
S214	39	("2320387" | "3052484" | "3179270" | "3734526" | "4281843" | "4363496" | "4790549" | "5464104" | "5465987" | "5474312" | "5595395" | "5671933").PN. OR ("6131926").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/22 23:52
S215	1	"12736715"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:36
S216	1	("2011/0139665").URPN.	USPAT	OR	OFF	2018/11/23 01:36
S217	20	("2807387" | "20060220503" | "3219400" | "3424334" | "4293072" | "4643494" | "4782619" | "4996628" | "5184726" | "5246105" | "5427394" | "5544751" | "5699925" | "5901998" | "5924778" | "6367631" | "6983946").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:37
S218	36	("1253546" | "1619761" | "1857640" | "2004900" | "3133771" | "3409162" | "3529878" | "3606506" | "3729242" | "3758181").PN. OR ("5246105").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 01:38
S219	13	("3379482").URPN.	USPAT	OR	OFF	2018/11/23 02:28
S220	0	("2012/0152800").URPN.	USPAT	OR	OFF	2018/11/23 02:30

S221	12	("20080060964" | "3568879" | "4592601" | "4685565" | "20060071581" | "4258847" | "4863222" | "2858957" | "7311202" | "3346137").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:30
S222	1041	B25H3/02.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S223	140	S222 and (snap)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 02:39
S224	67	(US-20170166352-$ or US-20110139665-$ or US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20150274362-$ or US-20110073516-$ or US-20090193748-$ or US-20080134607-$ or US-20080104921-$ or US-20180313094-$ or US-20180213934-$ or US-20150102717-$ or US-20180161975-$ or US-20140305829-$).did. or (US-20120312812-$ or US-20180290288-$ or US-20180162592-$ or US-20170239808-$ or US-20170121056-$ or US-20130127129-$ or US-20060038367-$ or US-20160114822-$ or US-20080308369-$ or US-20080169739-$ or US-20120292870-$).did. or (US-5628443-$ or US-9132543-$ or US-9506489-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5595228-$ or US-3117692-$ or US-5429260-$ or US-7841144-$ or US-5407074-$ or US-4293072-$ or US-3506321-$ or US-3974898-$ or US-6109707-$ or US-4423687-$ or US-9872562-$ or US-6547347-$ or US-4619363-$ or US-4118048-$ or US-3891230-$ or US-9566990-$).did. or (US-5799958-$ or US-9616562-$ or US-5184726-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:36

S225	3	("20080308369" | "8875888" | "9616562").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
S226	28	(US-20170266804-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20140166516-$ or US-20120326406-$ or US-20100219193-$ or US-20090145866-$ or US-20070194543-$ or US-20070068757-$ or US-20060254946-$ or US-20060027475-$ or US-20110139665-$).did. or (US-9506489-$ or US-9132543-$ or US-8813960-$ or US-8677661-$ or US-8459495-$ or US-8132819-$ or US-6641013-$ or US-6085925-$ or US-5988473-$ or US-5628443-$ or US-5595228-$ or US-3117692-$).did.	US-PGPUB; USPAT	OR	OFF	2018/11/23 14:37
S227	37	S224 not (S225 S226)	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:37
S228	1	"20170174392".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 14:54
S229	14	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-20080169739-$ or US-20080134607-$ or US-20080104921-$ or US-20060038367-$).did. or (US-9872562-$ or US-9566990-$ or US-7841144-$ or US-6547347-$ or US-5429260-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/11/23 21:07
S230	6	(("20120228074") or ("20120152800") or ("20170318927") or ("20110220531") or ("20110073516") or ("7841144")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:31
S231	5	("20040163913" | "20050199459" | "20100147642" | "20120228074" | "20120312812").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:33

S232	14	("1299291" | "1643397" | "2706036" | "3811562" | "4020930" | "4790417" | "5671830" | "0758019" | "D135357").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:35
S233	325	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:40
S234	0	("2018/0161975").URPN.	USPAT	OR	OFF	2019/02/20 19:42
S235	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:57
S236	16	("20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "20170174392" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S237	14	("20050139745" | "20080277221" | "20090145790" | "20100147642" | "20110073516" | "20110181008" | "20130121783" | "20170318927" | "20180044059" | "20190002004" | "5608603" | "6637707" | "8177463" | "9701443").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S238	33	S235 S236 S237	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 19:58
S239	932	A45C5/14.cpc.	USPAT	OR	OFF	2019/02/20 20:01
S240	28	B65D21/00.cpc.	USPAT	OR	OFF	2019/02/20 20:01
S241	8	(US-20080134607-$ or US-20080104921-$ or US-20060038367-$ or US-20120228074-$).did. or (US-9872562-$ or US-7841144-$ or US-6547347-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:58

S242	18	("20080308369" | "20080134607" | "9566990" | "9872562" | "20170121056" | "20170239808" | "5429260" | "7841144" | "20080169739" | "6547347" | "9616562" | "20060038367" | "20080104921" | "20180161975" | "2430200" | "8875888" | "20180290288").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:59
S243	1	S241 not S242	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 22:59
S244	8	(US-20080134607-$ or US-20080104921-$ or US-20060038367-$ or US-20120228074-$).did. or (US-9872562-$ or US-7841144-$ or US-6547347-$).did. or (US-2430200-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S245	26	(US-20180290288-$ or US-20180161975-$ or US-20170239808-$ or US-20170121056-$ or US-20080169739-$ or US-20170318927-$ or US-20120152800-$ or US-20110220531-$ or US-20110073516-$ or US-20070012694-$ or US-20190039781-$ or US-20190002004-$ or US-20060006770-$ or US-20170166352-$).did. or (US-9566990-$ or US-5429260-$ or US-5890613-$ or US-5099968-$ or US-4693345-$ or US-3319744-$ or US-9108764-$ or US-9701443-$ or US-3974898-$ or US-3506321-$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S246	19	S245 not S242	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:00
S247	1	"20170166352".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:25
S248	1	"20180161975"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/20 23:28
S278	0	"20011012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:51

S279	0	"2001012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:51
S280	0	"20011012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:52
S281	0	(("20011012717") or ("20080257905")).PN.	USPAT; USOCR	OR	OFF	2019/02/21 19:52
S282	1	(("20011012717") or ("20080257905")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:52
S283	2	(("20110012717") or ("20080257905")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:52
S284	1	"20110012717".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:53
S285	5359	"20110602".pd.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:54
S286	32	"20110602".pd. and chan.inv.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/02/21 19:54
S287	24	("20030115715" | "20030205877" | "20060186624" | "20080115312" | "20080271280" | "20090071990" | "20100139566" | "20120180250" | "20120207571" | "20130024468" | "20130031731" | "20130031732" | "20160023349" | "20170165828" | "20170257958" | "20180220758" | "2042387" | "5105947" | "7263742" | "8689396" | "9643629" | "D663952" | "D664354").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:31

S288	0	"201200207571".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:37
S289	1	"20120207571".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:37
S290	1	"20090071990".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:38
S291	0	"2011155613".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:46
S292	1	"20110155613".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 04:46
S293	24	("20030115715" | "20030205877" | "20060186624" | "20080115312" | "20080271280" | "20090071990" | "20100139566" | "20120180250" | "20120207571" | "20130024468" | "20130031731" | "20130031732" | "20160023349" | "20170165828" | "20170257958" | "20180220758" | "2042387" | "5105947" | "7263742" | "8689396" | "9643629" | "D663952" | "D664354").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/04/27 05:03
S294	1	"20140161518".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/14 19:30
S295	10	(US-15826201-$ | US-20050139745-$ | US-20080277221-$ | US-20090145790-$ | US-20100147642-$ | US-20110181008-$ | US-20130121783-$ | US-20180044059-$ | US-5608603-$ | US-6637707-$ | US-8177463-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/05/18 17:19

S296	1	("20140161518").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/04 15:29
S297	13	("8714355" | "D525789" | "D630851" | "D674605" | "D701696" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D833744" | "D837515").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:38
S298	46	(US-14125488-$ | US-1428764-$ | US-2970358-$ | US-20140000-$ | US-2047181-$ | US-2346741-$ | US-2805799-$ | US-29708343-$ | US-3141354-$ | US-3510307-$ | US-4168076-$ | US-5035445-$ | US-5301829-$ | US-6109627-$ | US-6347847-$ | US-6367631-$ | US-6431580-$ | US-6601930-$ | US-6945546-$ | US-6948691-$ | US-6983946-$ | US-7044484-$ | US-7066475-$ | US-7147243-$ | US-7658887-$ | US-7780026-$ | US-8028845-$ | US-8454033-$ | US-8985922-$ | US-20020171228-$ | US-20030146589-$ | US-20040103494-$ | US-20040206656-$ | US-20050062244-$ | US-20050104308-$ | US-20080121547-$ | US-20080169739-$ | US-20090145913-$ | US-20100052276-$ | US-20140161518-$ | US-20170138382-$ | US-20190106244-$).DID.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:41
S299	1	(("5984441") or ("201000224527")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:45
S300	2	(("5984441") or ("20100224527")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:45
S301	1	("20180373126").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/08/18 22:56
S302	0	("2018/0373126").URPN.	USPAT	OR	OFF	2019/08/18 22:56

S303	1	("20190225371").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/22 19:42
S304	15	("20030184034" | "20060006770" | "20060119060" | "20070090616" | "20070145700" | "20120160886" | "20130223971" | "5797617" | "5951037" | "6050660" | "6176559" | "6371320" | "6619772" | "7367571" | "8191910").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/22 19:44
S305	138	(US-0006770-$ | US-0024468-$ | US-0031731-$ | US-0031732-$ | US-0039781-$ | US-0052276-$ | US-0062244-$ | US-0071990-$ | US-0090616-$ | US-0103494-$ | US-0104308-$ | US-0115715-$ | US-0119060-$ | US-0121547-$ | US-0139566-$ | US-0145700-$ | US-0145913-$ | US-0146589-$ | US-0160886-$ | US-0161518-$ | US-0165828-$ | US-0171228-$ | US-0178946-$ | US-0180250-$ | US-0184034-$ | US-0205877-$ | US-0206656-$ | US-0220531-$ | US-0220758-$ | US-0223971-$ | US-0257958-$ | US-0271280-$ | US-2042387-$ | US-2970358-$ | US-20020171228-$ | US-20030115715-$ | US-20030146589-$ | US-20030184034-$ | US-20030205877-$ | US-20040103494-$ | US-20040206656-$ | US-20050062244-$ | US-20050104308-$ | US-20060006770-$ | US-20060119060-$ | US-20070090616-$ | US-20070145700-$ | US-20080121547-$ | US-20080271280-$ | US-20090071990-$ | US-20090145913-$ | US-20090178946-$ | US-20100052276-$ | US-20100139566-$ | US-20110220531-$ | US-20120160886-$ | US-20120180250-$ | US-20130024468-$ | US-20130031731-$ | US-20130031732-$ | US-20130223971-$ | US-20140161518-$ | US-20170165828-$ | US-20170257958-$ | US-20180220758-$ | US-20190039781-$ | US-3506321-$ | US-3974898-$ | US-4168076-$ | US-5035445-$ | US-5105947-$ | US-5301829-$ | US-5797617-$ | US-5951037-$ | US-6050660-$ | US-6109627-$ | US-6176559-$ | US-6347847-$ | US-6367631-$ | US-6371320-$ | US-6431580-$ | US-6601930-$ | US-6619772-$ | US-6945546-$ | US-6948691-$ | US-6983946-$ | US-7044484-$ | US-7066475-$ | US-7147243-$ | US-7263742-$ | US-7367571-$ | US-7658887-$ | US-7780026-$ | US-8028845-$ | US-8191910-$	US-PGPUB; USPAT; USOCR	OR	OFF	2019/12/22 20:01

		| US-8454033-$ | US-8689396-$ | US-8714355-$ | US-8985922-$ | US-9643629-$ | US-9750543-$ | US-D701696-$ | US-D814187-$).DID.				
S306	49	("3506321").URPN.	USPAT	OR	OFF	2019/12/22 20:02
S307	1	("2019/0039781").URPN.	USPAT	OR	OFF	2019/12/22 20:04
S308	1	("RE47022").PN.	USPAT	OR	OFF	2019/12/22 20:05
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EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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Bibliographic Data

Application No: 15/826,232

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☐ No ☑ Met After Allowance

Verified and Acknowledged: /GIDEON R WEINERTH/ (Examiner's Signature) G.R.W (Initials)

Title: UTILITY ASSEMBLY AND COUPLING MECHANISM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/29/2017	206	3736	55390-501C01US
RULE			

APPLICANTS

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Christopher S. Hoppe Milwaukee, WI, UNITED STATES

Steven W. Hyma Milwaukee, WI, UNITED STATES

CONTINUING DATA

This application is a CON of PCT/IL2017/050481 04/30/2017

PCT/IL2017/050481 has PRO of 62459076 02/15/2017

PCT/IL2017/050481 has PRO of 62330334 05/02/2016

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

12/10/2018

STATE OR COUNTRY

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FILING FEE RECEIVED

$5,740

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	15826232
Filing Date	2017-11-29
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	G. R. Weinerth
Attorney Docket Number	55390-501C01US

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/G.R.W/	1	20140076759	A1	2014-03-20	Roehm et al.	
/G.R.W/	2	20150274362	A1	2015-10-01	Christopher et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
/G.R.W/	1	202014103695	DE	U1	2014-12-11	METABOWERKE GMBH		☒
/G.R.W/	2	3009995990000	KR		2019-03-27	KOREA CONTAINER POOL CO., LTD.		☒

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

/G.R.W/	3	3008812960000	KR		2016-11-15	NPC CO., LTD.		☒
/G.R.W/	4	3008599650000	KR		2016-06-22	NPC CO., LTD.		☒
/G.R.W/	5	3008422360000	KR		2016-03-02	NPC CO., LTD. HYUNDAI GLOVIS CO., LTD.		☒
/G.R.W/	6	204161752	CN	U	2015-02-18	MERIDIAN INT. CO., LTD.		☐
/G.R.W/	7	103659777	CN	A	2014-03-26	BOSCH GMBH ROBERT		☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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EXAMINER SIGNATURE

Examiner Signature	/GIDEON R WEINERTH/	Date Considered	05/11/2020

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15826232
	Filing Date	2017-11-29
	First Named Inventor	Yaron Brunner
	Art Unit	3736
	Examiner Name	G. R. Weinerth
	Attorney Docket Number	55390-501C01US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-05-01
Name/Print	Elissa M. Kingsland	Registration Number	63,259

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Corrected Application Data Sheet

Inventor Information

Inventor Number::	1
Given Name::	Yaron
Family Name::	Brunner
City of Residence::	Kibbutz Gvat
Country of Residence::	IL
Street of mailing address::	Kibbutz Gvat, P.O.B. 248
City of mailing address::	Kibbutz Gvat
Postal or Zip Code of mailing address::	3657900

Inventor Number::	2
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City of Residence::	Cudahy
State or Province of Residence::	WI
Country of Residence::	US
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City of mailing address::	Cudahy
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53110

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2788
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Inventor Number::	3
Given Name::	Christopher
Middle Name::	S.
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City of Residence::	Milwaukee
State or Province of Residence::	WI
Country of Residence::	US
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City of mailing address::	Milwaukee
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53207

Inventor Number::	4
Given Name::	Steven
Middle Name::	W.
Family Name::	Hyma
City of Residence::	Milwaukee
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	1312 E. Warnimont Avenue
City of mailing address::	Milwaukee
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53207

Correspondence Information

Correspondence Customer Number::	30623
E-Mail address::	IPDocketingBOS@mintz.com

Application Information

Application Number::	15/826,232
Filing Date::	11/29/17
Application Type::	Regular
Subject Matter::	Utility
Title::	UTILITY ASSEMBLY AND COUPLING MECHANISM
Attorney Docket Number::	55390-501C01US
Small Entity?::	No

Representative Information

Representative Customer Number::	30623

Applicant Information

Applicant Number::	1
Applicant Type::	Assignee
Organization Name::	Keter Plastic Ltd.
Street of mailing address::	~~2 Sapir Street, Industrial Zone~~ 1 Sapir Street, 14th Floor

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2790
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

	Industrial Zone
City of mailing address::	Herzelyia
Country of mailing address::	IL
Postal or Zip Code of mailing address::	~~4685206~~ 4685205

Applicant Information

Applicant Number::	2
Applicant Type::	Assignee
Organization Name::	Milwaukee Electric Tool Corporation
Street of mailing address::	13135 West Lisbon Road
City of mailing address::	Brookfield
State or Province of mailing address::	WI
Country of mailing address::	US
Postal or Zip Code of mailing address::	53005

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-05-27
Name	Elissa M. Kingsland	Registration Number	63,259

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2791
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PART B–FEE(S) TRANSMITTAL

Complete and send this form, together with the applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By fax, send to: (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.
One Financial Center
Boston, Massachusetts 02111

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)

(Signature)

(Date)

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
15/826,232	11/29/2017	Yaron Brunner	55390-501C01US	1070

TITLE OF INVENTION: UTILITY ASSEMBLY AND COUPLING MECHANISM

APPLN: TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1,000.00	$0.00	$0.00	$1,000.00	08/19/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
G. R. Weinerth	3736	206-501

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363)

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Mintz Levin Cohn Ferris Glovsky and Popeo, P.C.
2.
3.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE	(B) RESIDENCE: (CITY and STATE or COUNTRY)
Keter Plastic Ltd.	Herzliya, Israel
Milwaukee Electric Tool Corporation	Brookfield, Wisconsin

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees Submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment (*Please first reapply any previously paid fee shown above*):

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-0311

5. Change of Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29. NOTE: Absent a valid Certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27. NOTE: If the application was previously under micro entity status, checking this box will be taken as a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status. NOTE: Checking this box will be taken as a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Elissa M. Kingsland/ Date May 27, 2020

Typed or printed name Elissa M. Kingsland Registration No. 63,259

Electronic Patent Application Fee Transmittal

Application Number:	15826232
Filing Date:	29-Nov-2017
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Filer:	Elissa Marie Kingsland/Tracey Schraffa
Attorney Docket Number:	55390-501C01US

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1000**

Electronic Acknowledgement Receipt	
EFS ID:	39547904
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	27-MAY-2020
Filing Date:	29-NOV-2017
Time Stamp:	13:00:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1000
RAM confirmation Number	E20205QD00568461
Deposit Account	500311
Authorized User	Elissa Kingsland
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	SADS_501C01.pdf	116935 41b9f5b007a5baafa5dbf1d4a55ee9ca7c52ad00	no	4
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2	Issue Fee Payment (PTO-85B)	Issue_Fee_501C01.pdf	153478 954e5848c68f16916bca62c500b5adf7b5a620d9	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30252 47763eed0b0d9d2acad24904039203cbbc5c67b5	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	300665		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Corrected Application Data Sheet

Inventor Information

Inventor Number::	1
Given Name::	Yaron
Family Name::	Brunner
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City of mailing address::	Kibbutz Gvat
Postal or Zip Code of mailing address::	3657900

Inventor Number::	2
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Middle Name::	T.
Family Name::	Squiers
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State or Province of Residence::	WI
Country of Residence::	US
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City of mailing address::	Cudahy
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53110

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2797
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Inventor Number::	3
Given Name::	Christopher
Middle Name::	S.
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State or Province of Residence::	WI
Country of Residence::	US
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City of mailing address::	Milwaukee
State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53207

Inventor Number::	4
Given Name::	Steven
Middle Name::	W.
Family Name::	Hyma
City of Residence::	Milwaukee
State or Province of Residence::	WI
Country of Residence::	US
Street of mailing address::	1312 E. Warnimont Avenue
City of mailing address::	Milwaukee

State or Province of mailing address::	WI
Postal or Zip Code of mailing address::	53207

Correspondence Information

Correspondence Customer Number::	30623
E-Mail address::	IPDocketingBOS@mintz.com

Application Information

Application Number::	15/826,232
Filing Date::	11/29/17
Application Type::	Regular
Subject Matter::	Utility
Title::	UTILITY ASSEMBLY AND COUPLING MECHANISM
Attorney Docket Number::	55390-501C01US
Small Entity?::	No

Representative Information

Representative Customer Number::	30623

Applicant Information

Applicant Number::	1
Applicant Type::	Assignee

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2799
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Organization Name::	Keter Plastic Ltd.
Street of mailing address::	1 Sapir Street, 14th Floor
	Industrial Zone
City of mailing address::	~~Herzelyia~~ Herzliya
Country of mailing address::	IL
Postal or Zip Code of mailing address::	4685205

Applicant Information

Applicant Number::	2
Applicant Type::	Assignee
Organization Name::	Milwaukee Electric Tool Corporation
Street of mailing address::	13135 West Lisbon Road
City of mailing address::	Brookfield
State or Province of mailing address::	WI
Country of mailing address::	US
Postal or Zip Code of mailing address::	53005

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).** This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants. See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Elissa M. Kingsland/	Date (YYYY-MM-DD)	2020-06-04
Name	Elissa M. Kingsland	Registration Number	63,259

99951290v.1

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2001 - Page 2801
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Electronic Acknowledgement Receipt

EFS ID:	39627382
Application Number:	15826232
International Application Number:	
Confirmation Number:	1070
Title of Invention:	UTILITY ASSEMBLY AND COUPLING MECHANISM
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	30623
Filer:	Elissa Marie Kingsland
Filer Authorized By:	
Attorney Docket Number:	55390-501C01US
Receipt Date:	04-JUN-2020
Filing Date:	29-NOV-2017
Time Stamp:	14:44:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	55390-501C01US_ADS.pdf	99462 ba1167feeddb27862f71f2d950578e42ec3c06be	no	5
Warnings:					

Information:	
This is not an USPTO supplied ADS fillable form	
Total Files Size (in bytes):	99462

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/826,232	07/07/2020	10703534	55390-501C01US	1070

30623 7590 06/17/2020

Mintz Levin/Boston Office
One Financial Center
Boston, MA 02111

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

KETER PLASTIC LTD., Herzeliya, ISRAEL;
Yaron Brunner, Kibbutz Gvat, ISRAEL;
Grant T. Squiers, Cudahy, WI;
Milwaukee Electric Tool Corporation, Brookfield, WI;
Christopher S. Hoppe, Milwaukee, WI;
Steven W. Hyma, Milwaukee, WI;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.