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Application Number	To be determined
Filing Date	February 25, 2020
First Named Inventor	Aaron S. Blumenthal
Title	Tool Attachment System
Art Unit	To be determined
Examiner Name	To be determined
Attorney Docket Number	066749-2567

SIGNATURE of Applicant or Patent Practitioner

Signature	/Brad G. Jubber/	Date (Optional)	Feb. 25, 2020
Name	Brad G. Jubber	Registration Number	68,946
Title (if Applicant is a juristic entity)	Attorney for Applicant		
Applicant Name (if Applicant is a juristic entity)	Milwaukee Electric Tool Corporation		

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



*Total of 1 forms are submitted.

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:



Practitioners associated with Customer Number:

142078

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



The address associated with Customer Number:

142078

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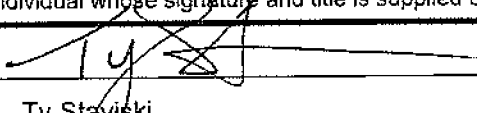
☐	Firm or Individual Name			
☐	Address			
	City	State	Zip	
	Country			
	Telephone	Email		

Assignee Name and Address: Milwaukee Electric Tool Corporation
13135 West Lisbon Road
Brookfield, Wisconsin 53002

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	7-6-16
Name	Ty Stawski	Telephone	262-781-3600
Title	Vice President, Secretary and Treasurer		

This collection of information is required by 37 CFR 1.31, 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 1459, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation

Title: Tool Attachment System

Appl. No.: To Be Determined

Filing Date: February 25, 2020

Examiner: To Be Determined

Art Unit: To Be Determined

Confirmation Number: To Be Determined

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Submitted herewith on Form PTO/SB/08 is a listing of the documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR § 1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR § 1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b)(1), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

The relevance of the foreign-language document is shown in the figures of foreign-language documents and/or are described in the English-language abstract submitted herewith, where available. An English translation of the foreign-language document is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language document (37 CFR §1.98 and MPEP §609).

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 18-0882.

Respectfully submitted,

Date February 25, 2020

By /Brad G. Jubber/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8350
Facsimile: (414) 298-8097

Brad G. Jubber
Attorney for Applicant
Registration No. 68,946

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: February 25, 2020 <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number	To be determined		
		Filing Date	February 25, 2020		
		First Named Inventor	Aaron S. Blumenthal		
		Art Unit	To be determined		
Examiner Name	To be determined				
Sheet	1	of	2	Attorney Docket Number	066749-2567

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	2,990,987	07-04-1961	Handler et al.	
	A2	5,163,591	11-17-1992	Leiserson et al.	
	A3	5,983,686	11-16-1999	Lee	
	A4	6,098,858	08-08-2000	Laugesen	
	A5	6,161,741	12-19-2000	French	
	A6	6,193,546	02-27-2001	Sadler	
	A7	6,279,362	08-28-2001	Lee	
	A8	6,290,534	09-18-2001	Sadler	
	A9	6,439,017	08-27-2002	Lee	
	A10	6,626,336	09-30-2003	Krusell	
	A11	6,685,067	02-03-2004	French	
	A12	7,686,196	03-30-2010	Panosian et al.	
	A13	7,690,541	04-06-2010	Pellegrini	
	A14	7,699,197	04-20-2010	Panosian et al.	
	A15	9,101,198	08-11-2015	Tseng	
	A16	9,657,893	05-23-2017	Buresh, II et al.	
	A17	10,271,634	04-30-2019	Eynav	
	A18	D741,161	10-20-2015	Buresh, II et al.	
	A19	2005/0258204	11-24-2005	Evans et al.	
	A20	2006/0104735	05-18-2006	Zeiler et al.	
	A21	2011/0019081	01-27-2011	Eynav	
	A22	2011/0142436	06-16-2011	Eynav	
	A23	2013/0008933	01-10-2013	Clifford	
	A24	2017/0122701	05-04-2017	Lim et al.	
	A25	2017/0235211	08-17-2017	Eynav	
	A26	2018/0331708	11-15-2018	Craig	
	A27	2019/0014893	01-17-2019	Record et al.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. 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 2 hours 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, 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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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: February 25, 2020 <i>(use as many sheets as necessary)</i>				Application Number	To be determined
				Filing Date	February 25, 2020
				First Named Inventor	Aaron S. Blumenthal
				Art Unit	To be determined
				Examiner Name	To be determined
Sheet	2	of	2	Attorney Docket Number	066749-2567

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Application Document Serial Number-Kind Code ² (if known)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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 Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	A28	DE102010046583	05-05-2011	SPIELBERGER		
	A29	DE3027550	03-11-1982	RICHARD KROPAC LEDERWARENFABRI		
	A30	DE7810070	07-20-1978	CARL HEPTING & CO, LEDERWAREN- UND GUERTELFABRIK		
	A31	DE8810011	09-22-1988	ALBRECHT KIND GMBH & CO		

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 ⁶
	A32	Spider Holster SpiderPro Dual Camera System (DCS), Amazon.com, https://www.amazon.com/exec/obidos/ASIN/B004TGP0DS/ezvid02-20 , believed to be commercially available as early as May 2011, 12 pages.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. 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 2 hours 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, 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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Espacenet

Bibliographic data: DE102010046583 (A1) — 2011-05-05

Gürteladapter

Inventor(s): SPIELBERGER PETER [AT] ± (SPIELBERGER, PETER)**Applicant(s):** SPIELBERGER PETER [AT] ± (SPIELBERGER, PETER)**Classification:** - international: A44B11/25; A45F5/02; A45F5/14; F41C33/02
- cooperative: F41C33/045 (EP)**Application number:** DE20101046583 20100925**Priority number(s):** AT20090001702 20091028**Also published as:** AT508764 (A4) AT508764 (B1) FR2951818 (A1) IT1402526 (B1) ITMI20101929 (A1)

Abstract not available for DE102010046583 (A1)

Abstract of corresponding document: AT508764 (B1)

Ein Gürteladapter zur Befestigung von Ausrüstungsgegenständen, insbesondere von Holstern für Handfeuerwaffen, an einem Gürtel umfasst eine Gürtelschleufe (1) und eine damit schwenkbar verbundenen Stegplatte (2), an welcher der Ausrüstungsgegenstand oder eine Halteeinrichtung dafür befestigbar ist. Um bei schmaler und funktionssicherer Bauweise ein Verschwenken aus einer Normallage in eine das ungehinderte Sitzen bzw. Benutzen eines KFZ-Sicherheitsgurtes ermöglichende Lage zu gestatten, liegt die Schwenkachse (3) der Stegplatte (2) außerhalb der Mitte der Stegplatte (2), und ist die Stegplatte (2) mittels eines Rastmechanismus (4, 5, 7) in einer Position arretierbar, in welcher Gürtelschleufe (1) und Stegplatte (2) im wesentlichen in einer Linie liegen.

**Offenlegungsschrift**(21) Aktenzeichen: **10 2010 046 583.6**(22) Anmeldetag: **25.09.2010**(43) Offenlegungstag: **05.05.2011**(51) Int Cl.: **A45F 5/14 (2006.01)****A45F 5/02 (2006.01)****A44B 11/25 (2006.01)****F41C 33/02 (2006.01)**

(30) Unionspriorität:

1702/2009**28.10.2009****AT**

(74) Vertreter:

Kohler Schmid Möbus, 72764 Reutlingen

(71) Anmelder:

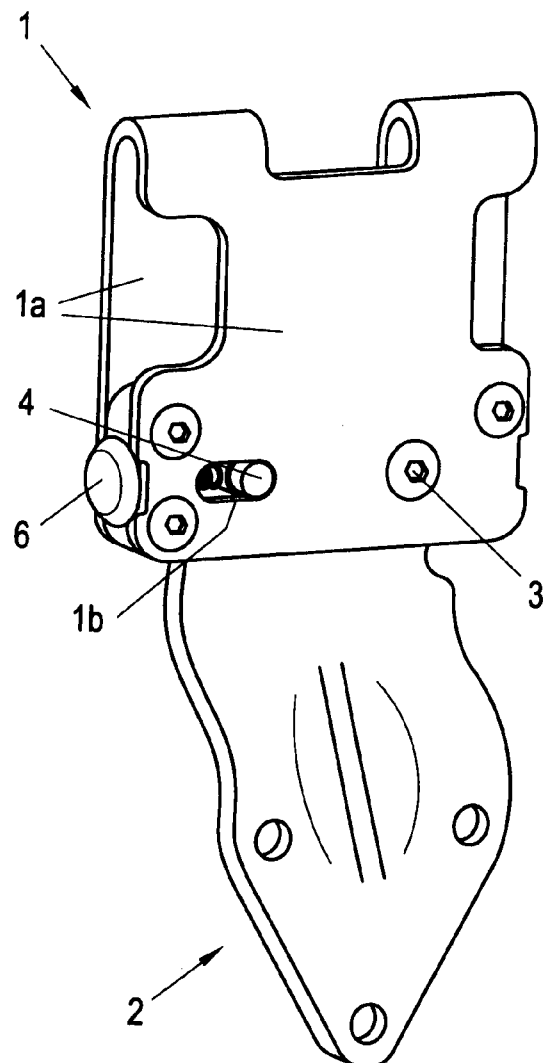
Spielberger, Peter, Wien, AT

(72) Erfinder:

gleich Anmelder**Die folgenden Angaben sind den vom Anmelder eingereichten Unterlagen entnommen**(54) Bezeichnung: **Gürteladapter**

(57) Zusammenfassung: Ein Gürteladapter zur Befestigung von Ausrüstungsgegenständen, insbesondere von Holstern für Handfeuerwaffen, an einem Gürtel, umfasst eine Gürtelschleufe (1) und eine damit schwenkbar verbundenen Stegplatte (2), an welcher der Ausrüstungsgegenstand oder eine Halteeinrichtung dafür befestigbar ist, wobei die Schwenkachse (3) der Stegplatte (2) zumindest außerhalb der Mitte der Stegplatte (2) liegt, und dass die Stegplatte (2) mittels eines Rastmechanismus (4, 5, 7) in einer Position arretierbar ist, in welcher Gürtelschleufe (1) und Stegplatte (2) im wesentlichen in einer Linie liegen.

Um bei schmaler und funktionssicherer Bauweise ein Verschwenken aus einer Normallage in eine das ungehinderte Sitzen bzw. Benutzen eines KFZ-Sicherheitsgurtes ermöglichende Lage zu gestatten, ist der Rastmechanismus durch ein mittels einer Sicherungsfeder (5) belastetes Verriegelungselement (4) und eine dieses Verriegelungselement (4) aufnehmende Ausnehmung (7) in der Stegplatte (2) gebildet.



Beschreibung

[0001] Die Erfindung betrifft einen Gürteladapter zur Befestigung von Ausrüstungsgegenständen, insbesondere von Holstern für Handfeuerwaffen, an einem Gürtel, mit einer Gürtelschlaufe und einer damit schwenkbar verbundenen Stegplatte, an welcher der Ausrüstungsgegenstand oder eine Halteeinrichtung dafür befestigbar ist, wobei die Schwenkachse der Stegplatte außerhalb der Mitte der Stegplatte liegt, und dass die Stegplatte mittels eines Rastmechanismus in einer Position arretierbar ist, in welcher Gürtelschlaufe und Stegplatte im wesentlichen in einer Linie liegen.

[0002] Der Sicherheits- und Behördensektor hat auf Grund der vielen Ausrüstungsgegenstände, die am Gürtel des Trägers getragen werden müssen, das Problem, dass ein Sitzen mit angelegtem Gürtel, insbesondere in einem KFZ nahezu unmöglich ist. Die Verwendung des Sicherheitsgurtes in einem KFZ gestaltet sich meist als undurchführbar, da bei Rechtsändern das Pistolenholster fast immer genau über dem Gurtschloss des Sicherheitsgurtes zu liegen kommt – ein Linkshänder am Beifahrersitz hat genau das gleiche Problem.

[0003] Es sind sogenannte Drehgelenke bekannt, welche eine Verdrehung des Holsters auf der Stegplatte zulassen (Fa. Glock – Österreich, Radar – Italien) bzw. eine Höhenverstellung in senkrechter Richtung (Fa. Cop – BRD) zulassen. Alte Behördenholster in der BRD waren dergestalt, dass eine sehr lange Stegplatte verwendet wurde, welche durch einen Schlitz im Uniformrock von einer Gürtelschlaufe am Leibriemen nach außen geführt wurden und ebenfalls schwenkbar waren. Die heutigen Anforderungen an sogenannte Sicherheitsholster mit innenseitiger Sicherheitsverriegelung lassen diese Bauart jedoch nicht mehr zu. Bei den obgenannten Lösungen trägt der Schwenk- bzw. Drehmechanismus entsprechend mehr Material auf und bringt so das Holster entsprechend weiter vom Körper des Trägers weg, was hinsichtlich dem Sitzen in einem KFZ (schalenförmige Sitze, Armlehne, usw.) und auch für den Einsatz – leichteres Ergreifen durch einen etwaigen Angreifer – von großem Nachteil ist.

[0004] Auch haben Versuche gezeigt, dass ein einfaches Verdrehen keinerlei Vorteil bringt, da sich der Ausrüstungsgegenstand ja in der gleichen Position wie vorher befindet und nur seine Lage von vertikal auf mehr oder weniger horizontal geändert hat. Das Gurtschloss des KFZ Sicherheitsgurtes befindet sich so immer noch genau unter dem Ausrüstungsgegenstand, zusätzlich drückt er noch in die Rückenlehne und ein Anlegen des Sicherheitsgurtes ist weiterhin sehr schwierig, wenn nicht gar unmöglich. Diese Situation ist für z. B. einen etwaigen Waffenträger sehr bedenklich, ja sogar gefährlich.

[0005] Eine direkt mit der Gürtelschlaufe verbundene und in einer Linie liegende Halteeinrichtung für eine Pistole ist in der DE 77 22 403 U1 geoffenbart, bei der die Verbindung durch zwei arretierbare Druckknöpfe hergestellt ist. Durch Lösen eines der Druckknöpfe können Halteeinrichtung und Gürtelschlaufe um die Achse des anderen Druckknopfes verschwenkt werden. Auch in der DE 27 41 278 A1 ist ein Holster beschrieben, bei welchem die Verschwenkbarkeit durch Lösen eines Druckknopfes möglich gemacht wird. Die Konstruktion gemäß der US 6 189 751 B1 zeigt eine verschwenkbare und mit einer Gürtelschlaufe verbundene Halteeinrichtung für eine Pistole, wobei aber eine Verschwenkbarkeit zur Entriegelung der Waffe im Holster und damit in ein Sitzen in einem Fahrzeug oder Sessel bzw. das Benutzen eines KFZ-Sicherheitsgurtes sehr erschwere Lage erfolgt. Es ist jedoch keine rasche, selbsttätige Fixierung in der Gebrauchslage vorgesehen. In der US 2 917 214 A ist ein direkt an einem Gürtel befestigtes Holster geoffenbart, welches in einer im wesentlichen vertikalen und einer im wesentlichen mit dem Gürtel fluchtenden Stellung, jeweils durch Druckknöpfe gehalten, fixierbar ist.

[0006] Die Aufgabe der vorliegenden Erfindung war daher ein Gürteladapter, der bei schmaler und funktionssicherer Bauweise ein einfaches und rasches Verschwenken aus einer normalerweise verriegelten Normallage in eine das ungehinderte Sitzen bzw. Benutzen eines KFZ-Sicherheitsgurtes ermöglichende Lage und eine rasche, selbsttätige Fixierung in der Gebrauchslage gewährleistet.

[0007] Die erfindungsgemäße Lösung ist dadurch gekennzeichnet, dass der Rastmechanismus durch ein mittels einer Sicherungsfeder belastetes Verriegelungselement und eine dieses Verriegelungselement aufnehmende Ausnehmung in der Stegplatte gebildet ist. Damit ist bei einer Befestigung von Ausrüstungsgegenständen in asymmetrisch schwenkbarer Weise, bei welcher der an einem Adapter angebrachte Ausrüstungsgegenstand vom Körper des Trägers nicht weiter entfernt ist als bei einer herkömmlichen Gürtelschlaufe, so dass dieser Ausrüstungsgegenstand weitgehend gegen den Zugriff einer anderen Person als der des Trägers gesichert ist, nach Zurückschwenken des Ausrüstungsgegenstandes am Gürtel in seine Ausgangslage kein komplexes Hantieren und/oder Verriegeln notwendig. Sobald die Ausgangslage erreicht ist, wird die Stegplatte selbsttätig in der Gebrauchsstellung verriegelt.

[0008] Vorteilhafterweise ist weiters vorgesehen, dass die Schwenkachse auch außerhalb der Mitte der Gürtelschlaufe liegt.

[0009] Für eine schmale und dennoch durch verdeckte Bauweise sowohl gegen Funktionsstörungen als auch unerwünschten Zugriff sichere Konstruktion

ist der Gürteladapter dadurch gekennzeichnet, dass die Gürtelschlaufe zumindest einen Bereich mit zwei parallel angeordneten Platten aufweist, in welchem Bereich die Schwenkachse liegt und wobei zwischen diesen Platten ein Abschnitt der Stegplatte aufgenommen und der Rastmechanismus positioniert ist.

[0010] Für eine sichere Funktion bei gleichzeitig einfacher Bedienbarkeit ist das Verriegelungselement in Langlöchern in der Gürtelschlaufe, vorzugsweise in zumindest einer der parallelen Platten, geführt.

[0011] Dabei kann vorteilhafterweise vorgesehen sein, dass das Verriegelungselement durch ein auf Zug belastbares Verbindungselement gegen die Wirkung der Sicherungsfeder aus der Ausnehmung der Stegplatte gezogen und damit außer Eingriff gebracht werden kann.

[0012] Vorzugsweise ist für eine sichere Verriegelung in der Stellung für den normalen Gebrauch des Gürteladapters vorgesehen, dass die Ausnehmung in der Stegplatte als Sperrnut ausgeführt ist, deren eine Seite im wesentlichen parallel zur Bewegungsrichtung des Verriegelungselementes liegt. Damit kann bei einfacher Bauweise das unbeabsichtigte und/oder unbefugte Verschwenken verhindert werden.

[0013] Wenn dabei die Stegplatte anschließend an die Seite der Sperrnut eine Führungsbahn für das Verriegelungselement aufweist, welche das Verriegelungselement entgegen der Wirkung der Sicherungsfeder auslenkt, ist eine einfache und rasche Rückschwenkung und automatische Verriegelung in der Gebrauchsstellung auch in Einhandbedienung möglich.

[0014] In der nachfolgenden Beschreibung soll die Erfindung anhand eines bevorzugten Ausführungsbeispiels und unter Bezug auf die beigefügten Zeichnungen näher erläutert werden.

[0015] Dabei zeigt die Fig. 1 eine Ansicht eines erfindungsgemäßen Gürteladapters in der Gebrauchsstellung, Fig. 2 ist eine Ansicht des Gürteladapters der Fig. 1 in der vollständig verschwenkten Stellung und Fig. 3 zeigt einen Schnitt durch die Mittelebene des Gürteladapters der Fig. 1.

[0016] Der in Fig. 1 dargestellte Gürteladapter ist zur Befestigung von Ausrüstungsgegenständen, insbesondere von Holstern für Handfeuerwaffen, an einem Gürtel bestimmt. Er besteht aus einer Gürtelschlaufe 1, durch welche der Gürtel hindurchgeführt wird oder welche auf geeignete andere Weise mit dem Gürtel verbunden werden kann, und einer damit verbundenen Stegplatte 2, an welcher der Ausrüstungsgegenstand oder eine Halteeinrichtung dafür befestigbar ist.

[0017] Die Stegplatte 2 ist um eine Drehachse 3 gegenüber der Gürtelschlaufe 1 schwenkbar verbunden, wobei in der normalen Gebrauchsstellung, die in Fig. 1 dargestellt ist, die Stegplatte 2 in gerader Linie mit der Gürtelschlaufe 1 liegt.

[0018] Die Gürtelschlaufe 1 weist einen der Stegplatte 2 zugewandten Bereich mit zwei parallel angeordneten Platten 1a aufweist oder besteht zur Gänze aus derartigen Platten 1a, wobei die Drehachse 3 in jedem Fall in diesem Bereich liegt. Der der Gürtelschlaufe 1 nächstliegende Abschnitt der Stegplatte 2, durch welchen auch die Drehachse 3 hindurchfährt, ist zwischen diesen Platten 1a aufgenommen. In diesem Bereich ist schließlich auch der Rastmechanismus positioniert. Dadurch wird eine Unterbringung des gesamten Schwenkmechanismus innerhalb der Gürtelschlaufe 1 in einer Weise erreicht, dass der an der Stegplatte 2 angebrachte Ausrüstungsgegenstand weiterhin so nahe wie möglich am Körper des Trägers gehalten wird und der Schwenkmechanismus für eine andere Person auch gar nicht sichtbar ist, weil er allein schon durch den Ausrüstungsgegenstand, z. B. ein Holster für eine Handfeuerwaffe, verdeckt ist.

[0019] Die Schwenkachse 3 der Stegplatte 2 ist außerhalb der Mitte der Stegplatte angeordnet, vorzugsweise auch außerhalb der Mitte der Gürtelschlaufe 1. Die in Fig. 1 dargestellte Konstruktion ist für das Tragen an der rechten Körperseite gedacht, für die linke Körperseite wird vorteilhafterweise eine gespiegelte Anordnung gewählt. Über einen Rastmechanismus wird die Stegplatte 2 in ihrer Gebrauchsstellung gehalten, welcher Rastmechanismus manuell gelöst werden kann, um ein Verschwenken in die in Fig. 2 dargestellte Stellung zu gestatten. Vorteilhafterweise wird die Stegplatte 2 über die Drehachse 3 derart mit der Gürtelschlaufe 1 verbunden, dass ein Ab- bzw. Wegnehmen nur mittels Werkzeug möglich ist. Das Austauschen von Stegplatten 2 unterschiedlicher Längen ist ebenfalls nur mittels Werkzeug möglich.

[0020] Der bereits einige Male erwähnte Rastmechanismus wird vorzugsweises durch ein mittels einer Sicherungsfeder 5 belastetes Verriegelungselement 4, beispielsweise als Bolzen ausgeführt, zusammen mit einer dieses Verriegelungselement 4 in Sperrstellung aufnehmenden Ausnehmung 7, vorzugsweise einer Sperrnut, in der Stegplatte 2 gebildet. Dabei ist das Verriegelungselement 4 vorzugsweise in Langlöchern 1b in der Gürtelschlaufe 1, vorzugsweise in zumindest einer der parallelen Platten 1a, geführt. Das Verriegelungselement 4 kann durch ein auf Zug belastbares Verbindungselement, beispielsweise einen Entriegelungsstift 6, allenfalls auch einen Seilzug od. dgl., gegen die Wirkung der Sicherungsfeder 5 aus der Sperrnut 7 der Stegplatte 2 gezogen und damit außer Eingriff gebracht werden.

[0021] Eine Seite der Sperrnut **7** ist im Wesentlichen parallel zur Bewegungsrichtung des Verriegelungselementes **4** orientiert, so dass eine gute Sperr- und Verriegelungswirkung erzielt wird. Durch diese geometrische Form der Sperrnut **7** drückt ein ein gewaltsames Bewegen der Stegplatte **2** das Verriegelungselement **4** nur noch weiter in die Sperrnut **7** hinein. Die an die Sperrnut **7** anschließende Kante der Stegplatte **2** hingegen bildet eine konvexe, beispielsweise kreissegmentförmige Führungsbahn **2a** für das Verriegelungselement **4**, durch welche Führungsbahn **2a** das Verriegelungselement **4** entgegen der Wirkung der Sicherungsfeder **5** bewegt wird, sobald die Stegplatte **2** in die normale Gebrauchsstellung zurückgeschwenkt wird.

[0022] Durch die oben beschriebene Konstruktion ist eine einfache Bedienung zum Ver- und Rückschwenken bzw. zum Ent- und Verriegeln gewährleistet. Vor dem Hinsetzen zieht der Träger am Entriegelungsstift **6**, gegen die Federkraft der Sicherungsfeder **5**, und bewegt so das mit dem Entriegelungsstift **6** verbundene Verriegelungselement **4** aus der Sperrnut **7** der Stegplatte **2** heraus. Bei gezogenem Entriegelungsstift **6** kann die Stegplatte **2** dann vom Träger gesehen nach vorne weggeschwenkt werden, so dass das Hinsetzen ohne Störung durch den Ausrüstungsgegenstand möglich ist. Da sich die Drehachse **3** außerhalb der vertikalen Mittelachse der Stegplatte **2** befindet geschieht das Wegklappen asymmetrisch. Dies hat insbesondere bei einer sehr kurzen Stegplatte **2** den Vorteil, dass der an der Stegplatte **2** angebrachte Ausrüstungsgegenstand nicht nur einfach verdreht wird, sondern tatsächlich wegschwenkt. Da die Stegplatte **2** asymmetrisch wegschwenkt ist das auch das Anlegen eines KFZ-Sicherheitsgurtes nunmehr ohne Behinderung möglich.

[0023] Beim Aussteigen aus einem KFZ oder Aufstehen aus einem Bürostuhl, insbesondere mit Armlehne, braucht der Ausrüstungsgegenstand am Gürtel nur in seine Ausgangslage zurückgeschwenkt werden. Ein komplexes Hantieren und/oder Verriegeln ist nicht notwendig, da die Stegplatte **2** an der Verriegelungsseite mit der konvexen Führungsbahn **2a** derart ausgeführt ist, dass sie das Verriegelungselement **4** gegen die Wirkung der Sicherungsfeder **5** beim Schwenken der Stegplatte **2** in die Ausgangslage selbst wegdrückt. Sobald die Ausgangslage dann erreicht ist, drückt die Sicherungsfeder **5** das Verriegelungselement **4** in die nun in einer Linie mit dessen Bewegungsrichtung liegende Sperrnut **7** der Stegplatte **2** und verriegelt diese somit selbsttätig in der Gebrauchsstellung.

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

- DE 7722403 U1 [0005]
- DE 2741278 A1 [0005]
- US 6189751 B1 [0005]
- US 2917214 A [0005]

Patentansprüche

weist, welche das Verriegelungselement (4) entgegen der Wirkung der Sicherungsfeder (5) auslenkt.

Es folgen 2 Blatt Zeichnungen

1. Gürteladapter zur Befestigung von Ausrüstungsgegenständen, insbesondere von Holstern für Handfeuerwaffen, an einem Gürtel, mit einer Gürtelschlaufe (1) und einer damit schwenkbar verbundenen Stegplatte (2), an welcher der Ausrüstungsgegenstand oder eine Halteeinrichtung dafür befestigbar ist, wobei die Schwenkachse (3) der Stegplatte (2) außerhalb der Mitte der Stegplatte (2) liegt, und dass die Stegplatte (2) mittels eines Rastmechanismus (4, 5, 7) in einer Position arretierbar ist, in welcher Gürtelschlaufe (1) und Stegplatte (2) im wesentlichen in einer Linie liegen, **dadurch gekennzeichnet**, dass der Rastmechanismus durch ein mittels einer Sicherungsfeder (5) belastetes Verriegelungselement (4) und eine dieses Verriegelungselement (4) aufnehmende Ausnehmung (7) in der Stegplatte (2) gebildet ist.

2. Gürteladapter nach Anspruch 1, dadurch gekennzeichnet, dass die Schwenkachse (3) auch außerhalb der Mitte der Gürtelschlaufe (1) liegt.

3. Gürteladapter nach Anspruch 1 oder 2, dadurch gekennzeichnet, dass die Gürtelschlaufe (1) zumindest einen Bereich mit zwei parallel angeordneten Platten (1a) aufweist, in welchem Bereich die Schwenkachse (3) liegt und wobei zwischen diesen Platten (1a) ein Abschnitt der Stegplatte (2) aufgenommen und der Rastmechanismus (4, 5, 7) positioniert ist.

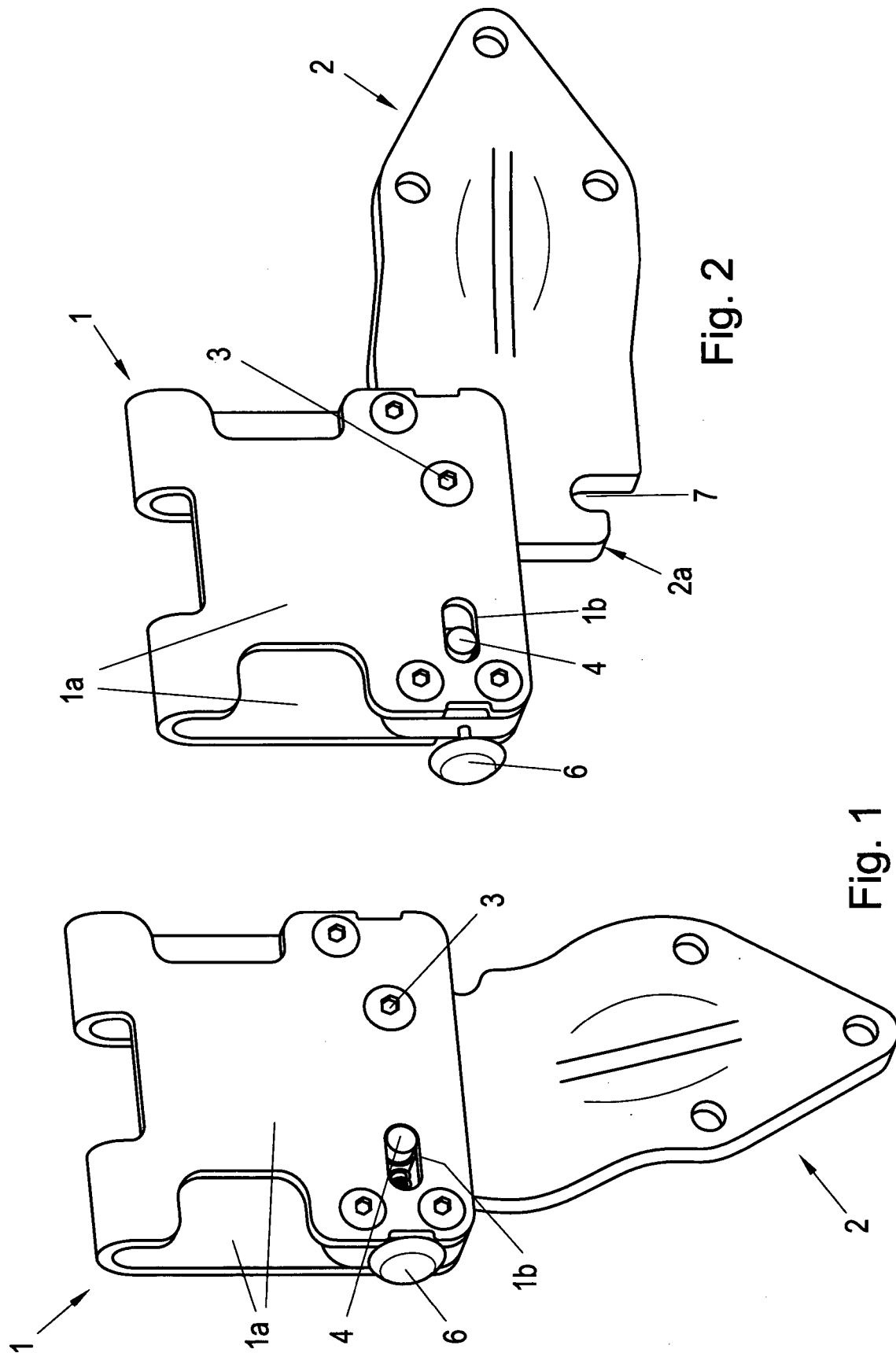
4. Gürteladapter nach einem der Ansprüche 1 bis 3, dadurch gekennzeichnet, dass das Verriegelungselement (4) in Langlöchern (1b) in der Gürtelschlaufe (1), vorzugsweise in zumindest einer der parallelen Platten (1a), geführt ist.

5. Gürteladapter nach einem der Ansprüche 1 bis 4, dadurch gekennzeichnet, dass das Verriegelungselement (4) durch ein auf Zug belastbares Verbindungselement (6) gegen die Wirkung der Sicherungsfeder (5) aus der Ausnehmung (7) der Stegplatte (2) gezogen und damit außer Eingriff gebracht werden kann.

6. Gürteladapter nach einem der Ansprüche 1 bis 5, dadurch gekennzeichnet, dass die Ausnehmung in der Stegplatte (2) als Sperrnut (7) ausgeführt ist, deren eine Seite im wesentlichen parallel zur Bewegungsrichtung des Verriegelungselementes (4) liegt.

7. Gürteladapter nach einem der Ansprüche 1 bis 6, dadurch gekennzeichnet, dass die Stegplatte (2) anschließend an die Seite der Sperrnut (2) eine Führungsbahn (2a) für das Verriegelungselement (4) auf-

Anhängende Zeichnungen



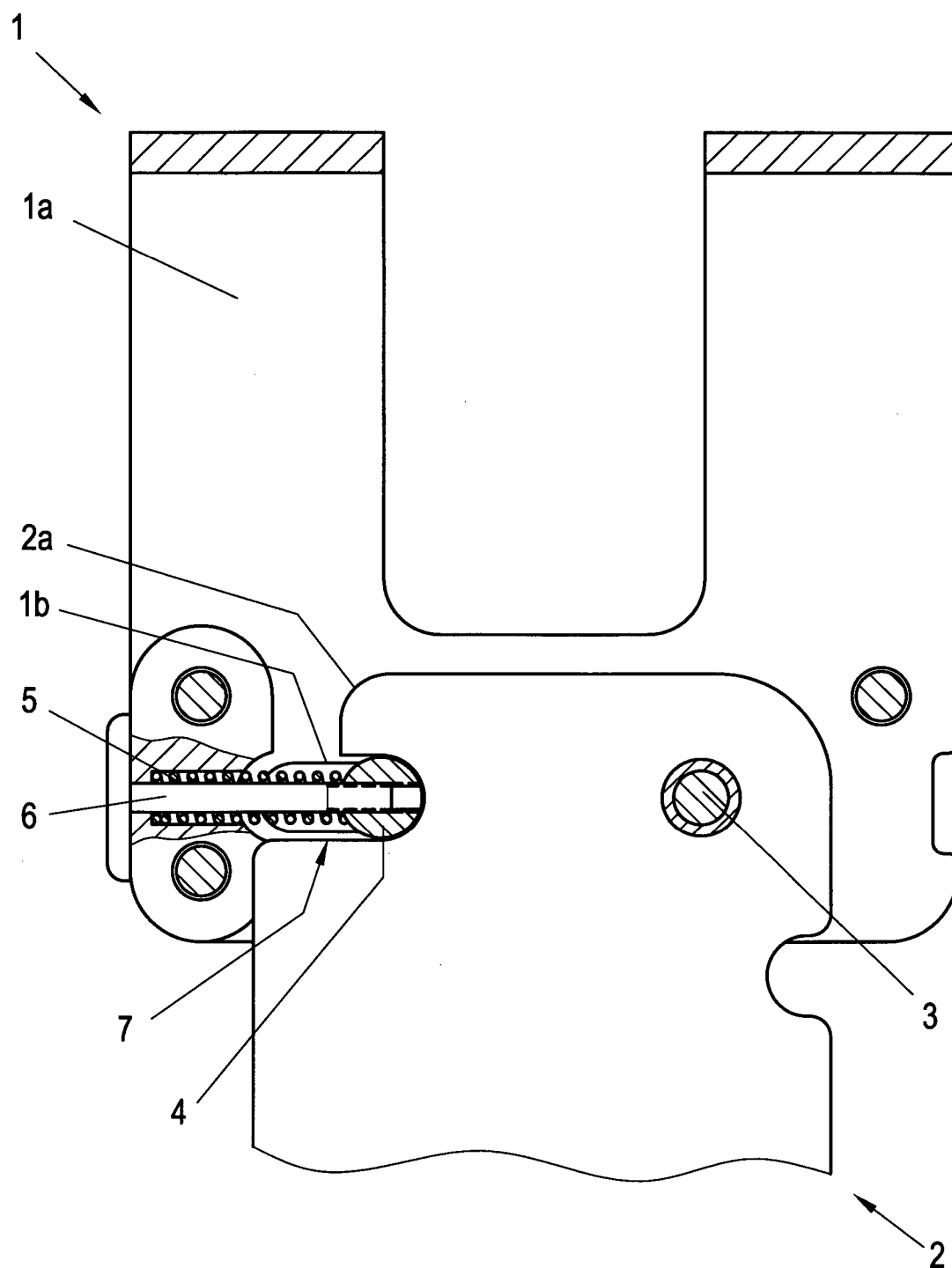


Fig. 3



Espacenet

Bibliographic data: DE3027550 (A1) — 1982-03-11

Quick-draw gun holster has pivoting attachment - for sitting in automobile but stiff pivot joint to give firm support

Inventor(s): JENNER PETER WILHELM [DE] ± (WILHELM JENNER,PETER)

Applicant(s): RICHARD KROPAC LEDERWARENFABRI [DE] ± (RICHARD KROPAC-LEDERWARENFABRIKATION-OSTERHOLZ-SCHARMBECK,INHABERIN BARBARA JENNER)

Classification: - **international:** F41C33/04; (IPC1-7): F41C33/02
- **cooperative:** F41C33/0227 (EP); F41C33/045 (EP); A45F2005/026 (EP)

Application number: DE19803027550 19800721

Priority number(s): DE19803027550 19800721

Abstract of DE3027550 (A1)

An attachment device for a gun holster to a belt consists of a coupling element fixed to a strap having a loop through which the belt passes and a second coupling element, the first element has a projecting bar with transverse head and a friction surface surrounding the bar and transverse to it, while the second coupling element fits over the end of this bar and has a complementary surface to bear against the friction. Esp. suitable for police and other individuals travelling in vehicles, it permits the gun holster to swing forward about the pivoting bar for comfortable sitting, but nevertheless provides a firm frictional hold to keep the holster fixed and permit a quick draw of the gun.

①⑨ BUNDESREPUBLIK
DEUTSCHLAND



DEUTSCHES
PATENTAMT

⑫ **Offenlegungsschrift**
⑪ **DE 3027550 A1**

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F41 C33/02

②① Aktenzeichen:	P 30 27 550.4
②② Anmeldetag:	21. 7. 80
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⑦① Anmelder:

Richard Kropac -
Lederwarenfabrikation-Osterholz-Scharmbeck, Inhaberin
Barbara Jenner, 2860 Osterholz-Scharmbeck, DE

⑦② Erfinder:

Jenner, Peter Wilhelm, 2860 Osterholz-Scharmbeck, DE

⑤④ Anhängenvorrichtung für ein Holster

DE 3027550 A1

A n s p r ü c h e

1. Anhängenvorrichtung für ein Holster, das mit einem ersten Kupplungselement ausgerüstet ist, und mit einer mit einem zweiten Kupplungselement versehenen Gürtellasche, wobei das erste und das zweite Kupplungselement zusammen eine lösbare Befestigungsvorrichtung bilden, dadurch gekennzeichnet, daß das zweite Kupplungselement (30) aus einem aus der Gürtellasche (2) vorstehenden Zapfen (24) und einer den Zapfen umgebenden Reibschlußfläche (18) besteht, und daß das zur Aufnahme des Zapfens (24) axial durchbohrte erste Kupplungselement (50) eine Gegenfläche (78) für die Reibschlußfläche (18) aufweist und an der der Gegenfläche (78) gegenüberliegenden Seite (76) mit einem verschwenkbaren Riegel (72) versehen ist, für welchen am äußeren Ende des Zapfens (24) eine Arretierschulter (27) ausgebildet ist.
2. Vorrichtung nach Anspruch 1, dadurch gekennzeichnet, daß zwischen Riegel (72) und Gegenfläche (78) ein axial wirkendes Federelement (74, 86) angeordnet ist.
3. Vorrichtung nach Anspruch 1 oder 2, dadurch gekennzeichnet, daß auf das vordere Ende des Zapfens (24) eine Schraube (28) aufgeschraubt ist, an deren Kopf (29) die Arretierschulter (27) ausgebildet ist.
4. Vorrichtung nach Anspruch 3, dadurch gekennzeichnet, daß der Zapfen (24) mit Innengewinde (25) versehen ist, wobei die Schraube (28) durch eine Gegenschraube (23) gesichert ist.

5. Vorrichtung nach einem der Ansprüche 1 - 4, dadurch gekennzeichnet, daß der Riegel (72) einen Längsschlitz (88) aufweist, der in einem ersten Abschnitt (92) eine dem Außengewinde der Schraube (28) entsprechende lichte Weite hat und an einem anschließenden zweiten Abschnitt (94) eine den Schraubenkopf (29) aufnehmende Erweiterung besitzt.

6. Vorrichtung nach einem der vorstehenden Ansprüche, dadurch gekennzeichnet, daß die Reibfläche 18 sowie die Gegenfläche (78) mehrere sich radial erstreckende und / nach vorn zu jeweils einem schmalen Kamm auslaufende Kerben (20) mit im wesentlichen dreieckigem Querschnitt besitzt.

7. Vorrichtung nach einem der vorstehenden Ansprüche, dadurch gekennzeichnet, daß die Reibfläche und die Gegenfläche aus einer Kunststoffplatte aus Hart-Nylon gebildet sind.

8. Vorrichtung nach einem der vorstehenden Ansprüche, dadurch gekennzeichnet, daß der Ansatz (52) und die Gürteltasche (2) durch einen zusätzlichen Druckknopf (40, 42) in einer bestimmten Stellung lösbar gesichert werden können.

Firma Richard Kropac, Hafenstraße 15, 2860 Osterholz-Scharmbeck

Anhängevorrichtung für ein Holster

Die Erfindung betrifft eine Anhängevorrichtung für ein Holster, das mit einem ersten Kupplungselement ausgerüstet ist, und mit einer mit einem zweiten Kupplungselement versehenen Gürteltasche, wobei das erste und das zweite Kupplungselement zusammen eine lösbare Befestigungsvorrichtung bilden.

Bei einer bekannten Anhängevorrichtung weist die Gürteltasche am oberen Ende eine Schlaufe zum Durchführen eines Gürtels auf und die Befestigungsvorrichtung ist nach Art eines Druckknopfes ausgebildet.

Das in dieser Art am Gürtel getragene Holster kann beim Sitzen beispielsweise in Kraftfahrzeugen leicht um die

HZ/sg/il

Befestigungsvorrichtung nach vorne geschwenkt werden, so daß das relativ lange, etwa für ^{eine} Dienst-Pistole der Polizei ausgelegte Holster beim Sitzen nicht stört. Nachteilig ist jedoch, daß das Holster um die Befestigungsvorrichtung frei schwingen kann. Wenn daher in einer plötzlich auftretenden Notsituation die Pistole aus dem Holster so rasch wie möglich gezogen werden muß, weicht das Holster leicht zur Seite aus, so daß der Beamte durch langwieriges Manipulieren unter Umständen wertvolle Sekunden verliert. Durch die un stabile Lage des Holsters als Ganzes kommt daher seine Eigenschaft als Schnellzieh-Holster nicht mehr voll zum Tragen.

Der Erfindung liegt daher die Aufgabe zugrunde, die eingangs genannte Anhängenvorrichtung so auszubilden, daß das Holster in jeder Lage, insbesondere während des Gehens und Stehens, fest gehalten ist.

Dazu ist erfindungsgemäß vorgesehen, daß das zweite Kupplungselement aus einem an der Gürteltasche vorstehenden Zapfen und einer den Zapfen umgebenden Reibschlußfläche besteht, und daß das erste Kupplungselement, das zur Aufnahme des Zapfens axial durchbohrt ist, eine Gegenfläche für die Reibschlußfläche aufweist und an der der Gegenfläche gegenüberliegenden Seite mit einem schwenkbaren Riegel versehen ist, für welchen am äußeren Ende des Zapfens eine Arretierschulter ausgebildet ist. Die Erfindung bringt den Vorteil, daß ^{durch} Umlegen des Riegels das Holster in der vertikalen Lage wie auch in jeder abgewinkelten Lage sicher arretiert ist. Dadurch wird das schnelle Ziehen der Pistole im Bedarfsfall wesentlich beschleunigt.

Das Verschwenken des Holsters wird erleichtert, wenn in Weiterbildung der Erfindung zwischen Riegel und Gegenfläche ein axial wirkendes Federelement angeordnet ist. Dabei kann der Anpreßdruck der Gegenfläche auf die Reibschlußfläche je nach Bedarf eingestellt werden, wenn auf das vordere Ende des Zapfens eine Schraube aufgeschraubt ist, an deren Kopf dann die Arretierschulter ausgebildet sein kann.

Die Reibfläche und ihre Gegenfläche sind zweckmäßig jeweils auf einer erhabenen Ringfläche einer Nylonplatte ausgebildet, welche mit radialen, konischen Kerben versehen ist.

Weitere Ausgestaltungen der Erfindung sind Gegenstand weiterer Unteransprüche.

Die Erfindung wird nachstehend anhand des in den beigefügten Zeichnungen dargestellten Ausführungsbeispiels im einzelnen erläutert. Es zeigen:

- Fig. 1 eine schematische Draufsicht auf den unteren Teil einer Gürteltasche;
- Fig. 2 einen Schnitt längs der Linie II-II der Gürteltasche aus Fig. 1;
- Fig. 3 einen Schnitt längs der Linie III-III durch den oberen Teil eines Holsters; und
- Fig. 4 eine Draufsicht auf den in Fig. 3 dargestellten oberen Teils des Holsters.

In den Figuren ist das Holster selbst nicht dargestellt, da die Erfindung an jedem an sich bekannten Holster benutzt werden kann. Erfindungsgemäß ist jedes Holster je-

ORIGINAL INSPECTED

doch so ausgebildet, daß es gemäß Figuren 3 und 4 an für die Hand frei zugänglicher Stelle, also etwa an einem oberen Ansatz des Holsters das im Ganzen mit 50 bezeichnete zweite Kupplungselement und den Riegel 72 trägt.

Auch die Gürteltasche ist in den Figuren 1 und 2 nicht vollständig dargestellt. Fig. 2 zeigt eine gestrichelte Schlaufe 11. Sie soll andeuten, daß am oberen Ende der im Ganzen mit 2 bezeichneten Gürteltasche eine Gürtelschlaufe angenäht sein kann, durch welche der Gürtel einer Uniformhose durchgezogen werden kann.

Die Gürtelschlaufe 2 besteht aus zwei am Rand zusammengefügten Lederstücken 4, 6, wobei in dem in Figur 1 dem Betrachter zugewandten Lederstück 4 ein kreisförmiger Ausschnitt gelassen ist. Zwischen die beiden Lederstücke 4, 6 ist eine aus Hart-Nylon bestehende Platte 8 mittels Nieten 10, 12, 14, 16 eingesetzt. Die scheibenförmige Platte 8 füllt den Ausschnitt im Lederstück 4 durch eine erhabene, kreisringförmige Reibfläche 18 vollständig aus, deren Außenfläche im wesentlichen mit der Oberseite des Lederstückes 4 abschließt. Die Reibfläche 18 weist mehrere sich jeweils radial erstreckende sich radial nach innen erweiternde und im Querschnitt konische Kerben 20 auf. Jede Kerbe 20 läuft nach vorne in einem schmalen Kamm aus und ist im Querschnitt dreieckig.

Die Reibfläche 18 umgibt eine ringförmige Einsenkung 22 vollständig. Aus der Mitte der Platte 8 erhebt sich ein zentraler Zapfen 24, dessen Gewindebohrung 25 mit einer Gewindebohrung 26 in der Platte 8 und einem Loch 27

im Lederstück 6 fluchtet.

Der obere Ansatz 52 eines an sich bekanntes Schnellzieh-Holsters besteht aus zwei am Rand bei 54 vernähten Ansatzstücken 56, 58 aus Leder oder Kunststoff. In einem mittleren Bereich ist zwischen die Ansatzstücke 56, 58 das erste Kupplungselement 50 durch Nieten 60, 62, 64, 66 eingesetzt.

Das erste Kupplungselement 50 besteht im wesentlichen aus zwei Teilen, einem dem zweiten Kupplungselement 30 zugewandten Kupplungsteil 68, auf welchem sich ein zweites Kupplungsteil 70 mittels einer Feder 74 in noch zu beschreibender Weise abstützt. Das erste Kupplungsteil 68 besteht aus einer Kunststoffplatte etwa aus Hart-Nylon, aus welcher eine Gegenfläche 78 für die Reibfläche 18 vorsteht. Diese Gegenfläche 78 steht bei eingebautem Kupplungselement 50 aus einer mittleren Öffnung 80 des Ansatzstückes 58 nach außen vor und ist so ausgebildet, daß sie bei auf den Zapfen 24 aufgeschobenem Ansatzstück 52 auf die Reibschlußfläche 18 paßt. Die Gegenfläche kann mit nicht dargestellten Kerben ähnlich den Kerben 20 versehen sein, oder kann eine aufgerauhte Oberfläche haben, wenn die Reibschlußfläche 18 entsprechend aufgerauht ist. Die Gegenfläche 78 braucht keine geschlossene Ringfläche zu sein, es genügen einige Ringsegmente.

In einer zentralen, abgestuften Bohrung 82 der Platte 78 ist eine Federhülse 84 eingesetzt, welche um ein geringfügig kleineres Stück als die Tiefe der Einsenkung 22 aus der Gegenfläche 78 vorsteht. Die Federhülse 84 ist axial durchbohrt mit einem Durchmesser, der um ein Spiel größer ist als der Außendurchmesser des Zapfens 24.

Die Federhülse 84 enthält ferner um ihre Bohrung die Druckfeder 74.

Das Kupplungsteil 70 besteht einerseits aus einer Federstahlplatte 86, welche an ihren äußeren Enden mit den Niete 60, 62, 64, 66 mit der Perlonplatte 78 verbunden ist. In eine zentrale Bohrung der Federstahlplatte 86 ist ein Gegenring 76 mit radialem Flansch und einer axialen Bohrung für den Zapfen 24 eingesetzt, an dessen auf die Federhülse 84 zuweisenden Seite sich das freie Ende der Feder 74 abstützt. Die axiale Länge des Gegenrings 76 ist etwa gleich der Stärke der Federstahlplatte 86 und dem Ansatzstück 56.

Auf dem Ansatzstück 56 ist ein Riegel 52 bei der dargestellten Ausführungsform in einem Bereich oberhalb der untersten Niete 64 mit der Federstahlplatte 86 derart verschwenkbar vernietet, daß der Riegel 52 um eine zur Achse des ersten Kupplungselements 50 parallelen Achse zwischen zwei noch zu erwähnenden Stellungen verschwenkbar ist. Der Riegel 52 ist eine mit Längsschlitz 88 und vorstehendem Handgriff 90 versehene Platte, welche vor dem von der Feder 74 wegweisenden Ende des Bauteils 76 verschwenkbar ist. Der Schlitz 88 besitzt einen Abschnitt 92, dessen lichte Weite geringfügig größer als das Außengewinde einer in die Innenbohrung 25 des Zapfens 24 eingeschraubten Schraube 28 ist. Dieser Abschnitt 92 geht in einen erweiterten Endabschnitt 94 über, dessen Bohrung so groß gewählt ist, daß der Kopf 29 der Schraube 28 leicht hindurchpaßt. In Fig. 4 ist der Riegel 52 in einer Betriebsstellung gezeigt, in der der Kopf 29 durch den Abschnitt 94 hindurchgeführt werden kann. Die andere Stellung des Riegels 52 ergibt sich dadurch, daß der Riegel 52 beispielsweise mit dem Handgriff 90 bei Be-

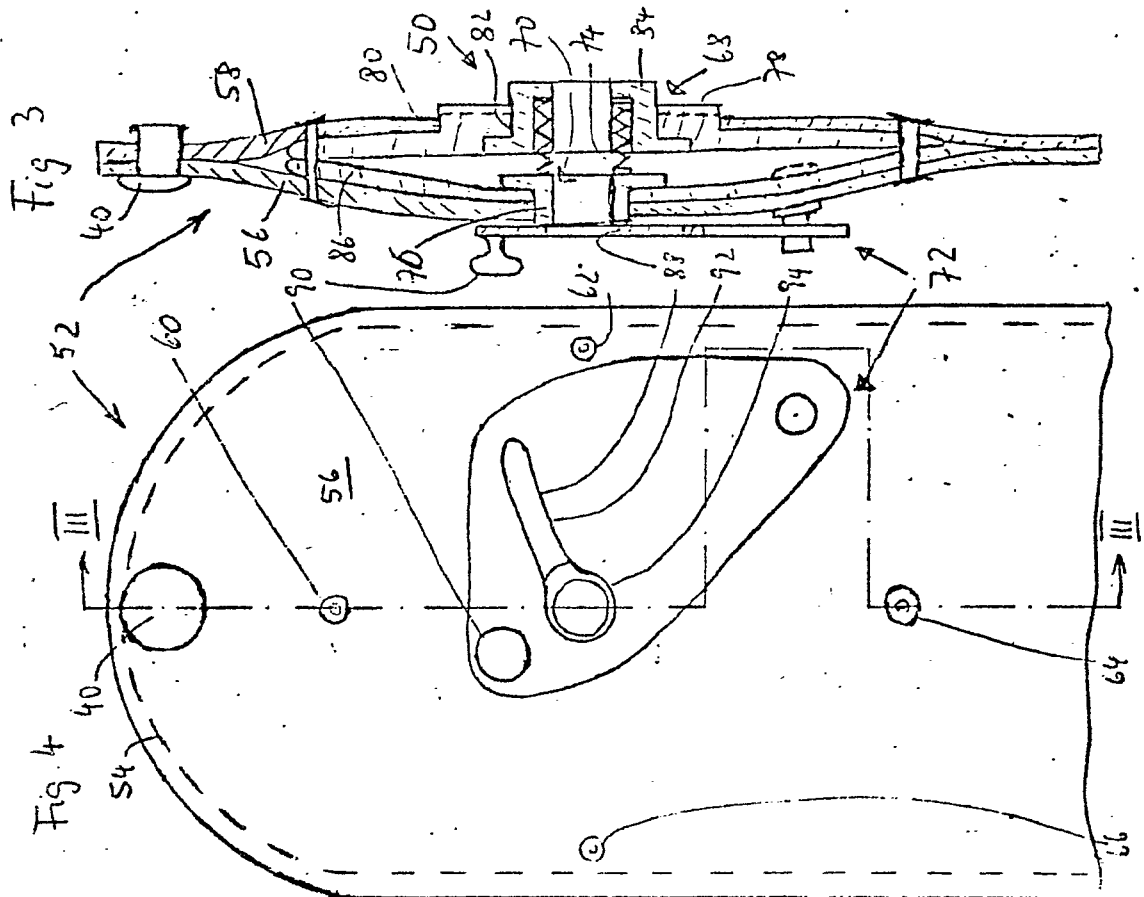
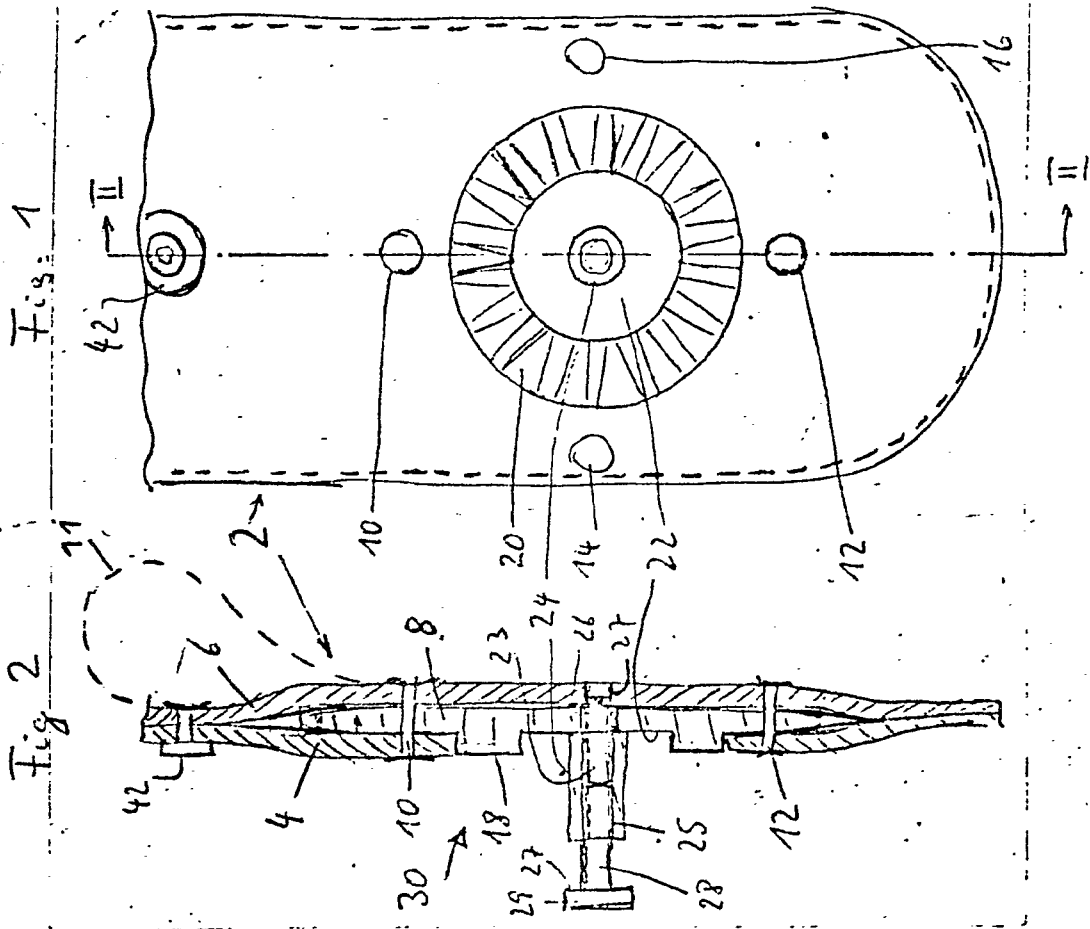
trachtung von Fig. 4 nach links so weit verschwenkt wird, bis das Ende des Abschnitts 92 am Gewinde der Schraube 28 anliegt.

Zum Anhängen des Holsters an die Gürteltasche 2 wird zunächst die Schraube 28 so weit in den Zapfen 24 eingeschraubt und dann mit der Gegenschraube 23 gesichert, daß der Abstand der nach rückwärts weisenden Arretierschulter 27 am Kopf 29 der Schraube 28 vom Boden der Einsenkung 22 etwas kleiner ist als der Abstand der Außenfläche der Ventilhülse 84 vom außen liegenden Ende des Gegenteils 76 bei entspannter Feder 74. Dann wird das Holster mit dem im Ansatz 52 befestigten Kupplungselement 50 auf den Zapfen 24 mit dem Riegel 72 in seine in Fig. 4 dargestellte Stellung geschoben. Durch Andrücken des Ansatzes 52 an die Gürteltasche 2 wird die Gegenfläche 78 auf die Reibschlußfläche 18 so weit aufgedrückt, daß die Arretierschulter 27 vom Abschnitt 92 des Riegels 72 hinterfaßt werden kann. Der Riegel 72 wird dann umgelegt und das Holster ist arretiert.

Die Arretierung kann durch Eindrehen oder Herausdrehen der Schraube 28 so stramm oder locker gemacht werden, daß das in beliebiger Stellung um den Zapfen 24 verschwenkte Holster in dieser Stellung voll arretiert ist oder aber von Hand in eine andere gewünschte Stellung mit Kraft verschwenkt werden kann. Sind die Reibschlußfläche 18 und die Gegenfläche 78 mit den erwähnten Kerben 20 versehen, bestimmen diese die stufenweise Verschwenkbarkeit des Holsters. Soll das Holster in einer bestimmten, beispielsweise der vertikal herabhängenden Stellung zusätzlich gesichert werden, kann am oberen Ende oder einem sonst leicht zugänglichen Abschnitt des Ansatzes 52 ein Druckknopf 40 vorgesehen sein, der in entsprechendes Gegenteil 42 an der Gürteltasche 2 zum lösbaren Festsetzen des Holsters eingedrückt werden kann.

- 10 -
Leerseite

3027550



**Espacenet****Bibliographic data: DE7810070 (U1) — 1978-07-20**

Holster for carrying hand guns

Inventor(s):

Applicant(s): CARL HEPTING & CO, LEDERWAREN- UND GUERTELFABRIK, GMBH, 7000 STUTTGART

Classification: - **international:** A45F5/02; F41C33/02; (IPC1-7): F41C33/02
- **cooperative:** A45F5/02 (EP); F41C33/0227 (EP); F41C33/041 (EP); A45F2200/0591 (EP); A45F5/021 (EP)

Application number: DE19780010070U 19780405

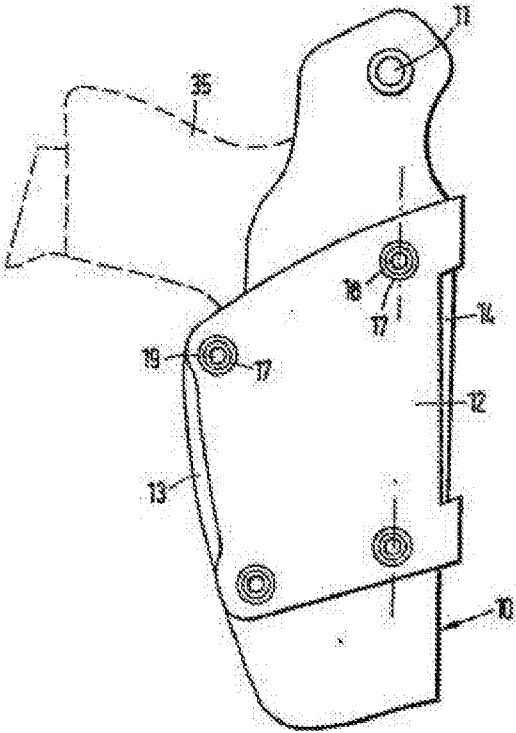
Priority number(s): DE19780010070U 19780405

Also published as: AT368629 (B) ATA246779 (A) CH636953 (A5)

Abstract not available for DE7810070 (U1)

Abstract of corresponding document: CH636953 (A5)

The holster (10) is used for carrying a hand gun (35). It can be used for carrying on a belt, by means of a belt loop (12). The belt-loop part is connected to the carrying part by means of hollow rivets (15). The hollow rivets are provided internally with a female thread (19) which allows the holster to be connected to a holster web which is provided with screws which can be screwed into the threaded holes (19). The holster web is connected to its belt loop such that it can pivot.





11 Gebrauchsmuster

U 1

F41C 33-02

GM 78 10 070

AT 05.04.78 ET 20.07.78 VT 20.07.78

Bez: Holster für das Tragen von Faust-
feuervaffen

Anm: Carl Hepting & Co, Lederwaren- und
Gürtelfabrik, GmbH, 7000 Stuttgart

Die Angaben sind mit den nachstehenden Abkürzungen in folgender Anordnung aufgeführt:

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| 51 | Int. Cl. | 21 | GM-Nummer | | | |
| NKI: | Nebenklasse(n) | | | | | |
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| | Beginn der Schauausstellung | | | Bezeichnung der Ausstellung | | |
| 64 | Bez.: | Bezeichnung des Gegenstandes | | | | |
| 71 | Anm.: | Anmelder - Name und Wohnsitz des Anmelders bzw. Inhabers | | | | |
| 74 | Vtr: | Vertreter - Name und Wohnsitz des Vertreters (nur bei ausländischen Inhabern) | | | | |
| | Modellhinweis | | | | | |

05.04.78

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vo/poe

28. März 1978

Carl Hepting & Co.
Lederwaren- und
Gürtelfabrik GmbH
Burgenlandstraße 44

7000 Stuttgart 30

Holster für das Tragen von Faustfeuerwaffen

Die Erfindung betrifft ein Holster für das Tragen von Faustfeuerwaffen, das mit einem Holstersteg zug- und reißfest, jedoch lösbar verbindbar ist.

Ein derartiges Holster ist durch das DE-GM 76 27 267 und die DE-OS 26 15 873 bekannt. Mit der Verbindung des Holsters und des Holstersteges werden neue Arten für das Tragen der Faustfeuerwaffen geschaffen. Dabei kommt es entscheidend darauf an, daß das Holster so fest am Holstersteg festgelegt ist, daß es nicht unbefugter Weise gelöst werden kann. Da das Holster auch ohne Holstersteg in anderen Arten getragen werden kann, ist es erforderlich, daß die Verbindung zwischen dem Holster und dem Holstersteg wieder gelöst werden kann.

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Bei dem bekannten Holster wird der Holstersteg von oben her in eine horizontale Schlaufe des Holsters eingeschoben und mittels Druckknöpfen mit diesem lösbar verbunden. Es hat sich nun gezeigt, daß diese Verbindung zwischen Holster und Holstersteg nicht ausreicht, insbesondere dann, wenn ein Angreifer das Holster mit Gewalt vom Holstersteg abzieht. Die Druckknopfverbindungen lösen sich, so daß der Holstersteg aus der Schlaufe herausgezogen werden kann.

Es ist Aufgabe der Erfindung, ein Holster der eingangs erwähnten Art so mit dem Holstersteg zu verbinden, daß die hergestellte Verbindung auch durch gewaltsames Reißen am Holster nicht gelöst werden kann, daß aber ein gewolltes Lösen dieser Verbindung nach wie vor möglich ist.

Diese Aufgabe wird nach der Erfindung dadurch gelöst, daß das Holster auf der dem Holstersteg zugekehrten Seite mindestens zwei eingelassene Gewindeaufnahmen trägt und daß im Holstersteg in entsprechender Anzahl und Verteilung zum Holster gerichtete Befestigungsschrauben unverlierbar, jedoch frei drehbar festgelegt sind.

Die im Holster eingelassenen Gewindeaufnahmen stehen am Holster nicht ab, so daß das Holster auch ohne Holstersteg und ohne Beeinträchtigung durch diese Verbindungselemente getragen werden kann. Die Schraubverbindungen stellen eindeutig sicher, daß die Verbindungen zwischen Holster und Holstersteg durch Zug am Holster nicht gelöst werden können, daß diese Verbindungen aber durch Herausschrauben der Befestigungsschrauben aus den Gewindeaufnahmen des Holsters wieder gewollt gelöst werden können. Das Vorsehen von mindestens

zwei Verbindungsstellen bringt den Vorteil, daß die Lage des Holsters am Holstersteg eindeutig festgelegt ist. Dies ist wiederum für den raschen und sicheren Zugriff zur Waffe im Holster von Bedeutung.

Da das Holster auf der dem Holstersteg zugekehrten Seite für andere Tragearten meistens ein Gürtelschlaufenteil trägt, kann nach einer Weiterbildung die Verbindung zwischen Holster und Holstersteg dadurch vereinfacht werden, daß das Holster auf der dem Holstersteg zugekehrten Seite ein Gürtelschlaufenteil trägt und daß zumindest ein Teil der das Gürtelschlaufenteil mit dem Holster verbindenden Befestigungselemente mit einer Gewindeaufnahme versehen sind. Dabei wird vorzugsweise vorgesehen, daß die Befestigungselemente als Hohlните ausgebildet sind, in die nachträglich von der Außenseite her eine Gewindeaufnahme eingeschnitten ist, um die Gewindeaufnahme beim Nietvorgang nicht zu beschädigen.

Damit die Verbindungselemente am Holster festsitzen und nicht herausgerissen werden können, sieht eine Weiterbildung vor, daß Hohlните mit breitem, massivem Kopf verwendet sind, die zum Holstersteg gerichtet in Durchbrüche von Holster und Gürtelschlaufenteil eingesteckt und auf abschließende Beilagscheiben vernietet sind.

Die Festlegung der Befestigungsschrauben am Holstersteg ist in einfachster Weise dadurch gelöst, daß die Befestigungsschrauben mit breitem Kopf in Durchbrüche des Holstersteges eingesteckt und mittels Sicherungsscheiben, die auf das Gewindeteil aufgesteckt sind, am Holstersteg gehalten sind. Die Durchbrüche im Holster, dem Gürtelschlaufenteil und dem Holstersteg sind dabei als Löcher in die aus Leder bestehenden Teile eingestanz.

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Damit die Schraubverbindungen festgezogen werden können, sieht eine weitere Ausgestaltung vor, daß die Länge des Gewindeteiles der Befestigungsschrauben gleich oder kleiner ist als die Tiefe der Gewindeaufnahme in den Hohlknoten.

Das Lösen und das Festziehen der Befestigungsschrauben werden dadurch erleichtert, daß die Köpfe der Befestigungsschrauben mit Schlitz für Schraubendreher versehen sind.

Die Erfindung wird anhand eines in den Zeichnungen dargestellten Ausführungsbeispiels näher erläutert. Es zeigen:

Fig. 1 die Ansicht auf die Befestigungsseite des Holsters,

Fig. 2 einen Teilschnitt entlang der Linie II-II des Holsters nach Fig. 1,

Fig. 3 die Ansicht auf die Befestigungsseite des Holstersteges und

Fig. 4 den Holstersteg in Seitenansicht.

Das Holster 10 nach Fig. 1 wird aus einem Lederzuschnitt gebildet, der aus den Teilen 13 und 14 besteht. Diese Teile

bilden eine Tasche zur Aufnahme der Waffe 35. Die beiden Teile 13 und 14 werden über die Druckknopfverbindung 11 oben zusammengehalten, so daß dadurch die Waffe 35 in der Tasche gehalten ist. Das Teil 13 kann ein auf die Befestigungsseite geführtes Gürtelschlaufenteil 12 aufweisen. Dieses Gürtelschlaufenteil 12 wird mittels vier Hohnieten 15 mit dem rückseitigen Teil 14 des Holsters 10 verbunden. Wie Fig. 2 zeigt, bildet das Gürtelschlaufenteil 12 zum Teil 14 des Holsters 10 eine Aufnahme zum Durchziehen eines Gürtels. Darüber läßt sich das Holster 10 direkt an einem Gürtel festlegen.

Zur Anbringung des Gürtelschlaufenteiles 12 am Teil 14 des Holsters 10 sind Löcher in die Lederteile eingestanz. Von der Tascheninnenseite her sind Hohnieten 15 mit breitem, massivem Kopf 16 in die Löcher des Teiles 14 eingesteckt. Auf die aus den Löchern des Gürtelschlaufenteiles 12 ragenden Enden der Hohnieten 15 sind Beilagscheiben 17 aufgeschoben, auf die die freien Enden der Hohnieten 15 vernietet sind, wie die verformten Endbereiche 18 der Hohnieten 15 erkennen lassen.

Nach diesem Vernieten der Hohnieten 15 werden von außen her Gewindeaufnahmen 19 in die Sacklochbohrungen der Hohniete 15 eingeschnitten. Dies hat den Vorteil, daß die letzten Schraubgewindgänge beim Nietvorgang nicht beschädigt werden.

Das Holster 10 nach Fig. 1 und 2 bietet über die Gewindeaufnahmen 19 der Hohnieten 15 die Möglichkeit zur zug- und reißfesten Verbindung mit einem Holstersteg 20 nach Fig. 3 und 4. Da die Gewindeaufnahmen 19 in das Holster 10 eingelassen sind, wird durch die Verbindungselemente ein direktes Tragen des Holsters 10 an einem Gürtel nicht beeinträchtigt.

Der Holstersteg 20 trägt in Anzahl und Verteilung auf die Gewindeaufnahmen 19 des Holsters 10 abgestimmt Befestigungsschrauben 21. Diese Befestigungsschrauben 21 sind von der Rückseite her in Löcher des Holstersteges 20 eingesteckt, wobei die breiten Köpfe 22 die Einsteckbewegung begrenzen. An der Befestigungsseite des Holstersteges 20 stehen die Gewindeteile 23 der Befestigungsschrauben 21 vor. Auf die Gewindeteile 23 sind Sicherungsscheiben 24 aufgesteckt, die die Befestigungsschrauben 21 unverlierbar am Holstersteg 20 festlegen. Dabei bleiben die Befestigungsschrauben 21 in den eingestanzten Löchern des Holstersteges 20 frei drehbar, können axial jedoch nicht verstellt werden. Die Gewindeteile 23 sind in ihrer freien Länge auf die Tiefe der Gewindeaufnahmen 19 der Hohlrieten 15 abgestimmt, so daß die Schraubverbindungen festgezogen werden können. Die freie Länge der Gewindeteile 23 ist daher gleich oder kleiner als die Tiefe der Gewindeaufnahmen 19.

Die Köpfe 22 der Befestigungsschrauben 21 sind mit Schlitz für Schraubendreher versehen, damit sie leicht festgezogen und wieder gelöst werden können.

Am oberen Ende des Holstersteges 20 ist mit den Verbindungselementen 29 und 30, die mittels einer Sicherungsscheibe 32 auf dem Bolzen 31 zusammengehalten werden, eine Gürtelschleife drehbar angebracht. Mit der Druckknopfverbindung 33 können die Gürtelschleife und der Holstersteg 20 in einer definierten Stellung zueinander festgelegt werden. Die Gürtelschleife wird aus den Teilen 28 und 25 gebildet, die im Bereich der Verbindungselemente 29 und 30 fest miteinander verbunden sind. Das Teil 28 ist als Klappe 26 über die Oberkante

des Teiles 25 geschlagen und wird mittels Druckknopfverbindungen 27 unter Bildung einer geschlossenen Aufnahme für einen Gürtel lösbar mit dem Teil 25 verbunden.

0 Mit den Befestigungsschrauben 21 wird der Holstersteg 20 in eindeutiger Zuordnung mit dem Holster 10 verbunden, wobei diese Verbindung zug- und reißfest ist und durch Zug am Holster 10 sicher nicht gelöst werden kann. Die Verbindung kann durch Lösen der Schraubverbindungen jedoch jederzeit gewollt gelöst werden. Damit sind mit einfachsten Mitteln die Bedingungen an eine derartige Verbindung zwischen dem Holster 10 und dem Holstersteg 20 eingehalten.

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A n s p r ü c h e

1. Holster für das Tragen von Faustfeuerwaffen, das mit einem Holstersteg zug- und reißfest, jedoch lösbar verbindbar ist, dadurch gekennzeichnet, daß das Holster (10) auf der dem Holstersteg (20) zugekehrten Seite mindestens zwei eingelassene Gewindeaufnahmen (19) trägt und daß im Holstersteg (20) in entsprechender Anzahl und Verteilung zum Holster (10) gerichtete Befestigungsschrauben (21) unverlierbar, jedoch frei drehbar festgelegt sind.
2. Holster nach Anspruch 1, dadurch gekennzeichnet, daß das Holster (10) auf der dem Holstersteg (20) zugekehrten Seite ein Gürtelschlaufenteil (12) trägt und daß zumindest ein Teil der das Gürtelschlaufenteil (12) mit dem Holster (10) verbindenden Befestigungselemente mit einer Gewindeaufnahme (19) versehen sind.
3. Holster nach Anspruch 2, dadurch gekennzeichnet, daß die Befestigungselemente als Hohlriete (15) ausgebildet sind, in die nachträglich von der Außenseite her eine Gewindeaufnahme (19) eingeschnitten ist.
4. Holster nach Anspruch 2 und 3, dadurch gekennzeichnet, daß Hohlrieten (15) mit breitem, massivem Kopf (16) verwendet sind, die zum Holstersteg (20) gerichtet in Durchbrüche von Holster (10) und Gürtelschlaufenteil (12) eingesteckt und auf abschließende Beilagscheiben (17) vernietet (18) sind.

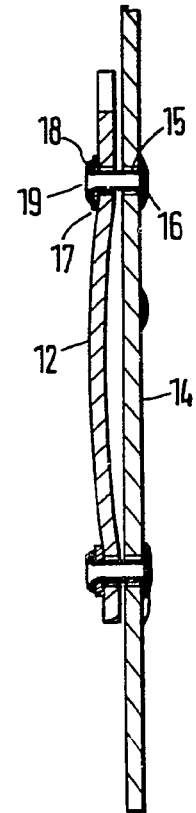
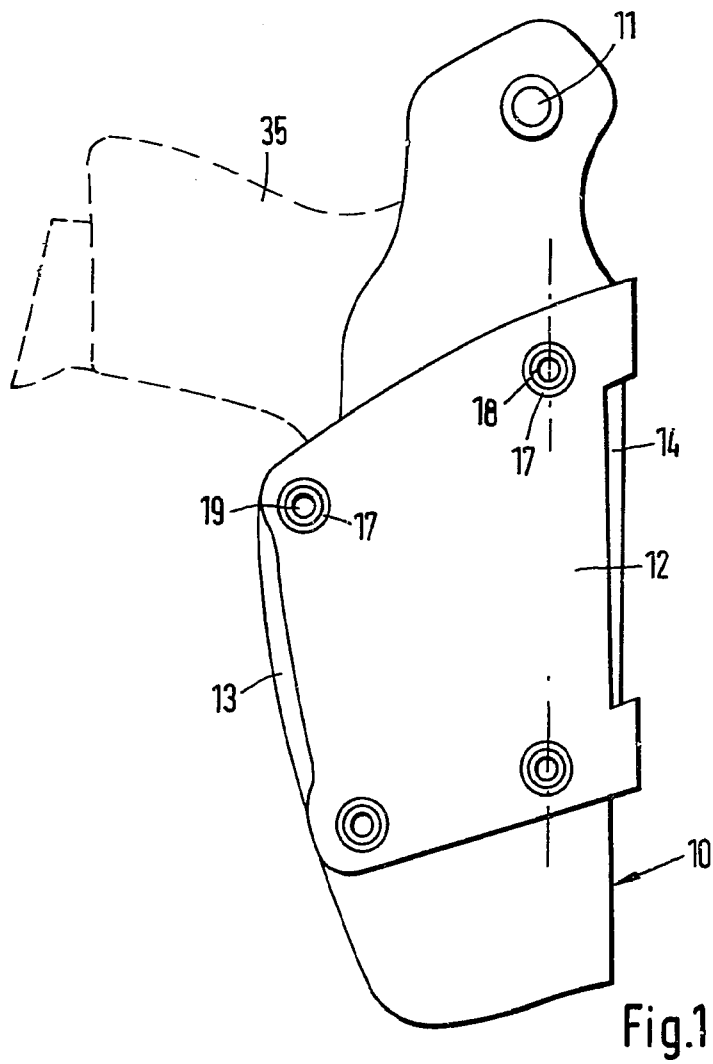
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5. Holster nach einem der Ansprüche 1 bis 4, dadurch gekennzeichnet, daß die Befestigungsschrauben (21) mit breitem Kopf (22) in Durchbrüche des Holstersteges (20) eingesteckt und mittels Sicherungsscheiben (24), die auf das Gewindeteil (23) aufgesteckt sind, am Holstersteg (20) gehalten sind.
6. Holster nach Anspruch 4 und 5, dadurch gekennzeichnet, daß die Durchbrüche in dem Holster (10), dem Gürtelschlaufenteil (12) und dem Holstersteg (20) als Löcher in die aus Leder bestehenden Teile eingestanz sind.
7. Holster nach einem der Ansprüche 1 bis 6, dadurch gekennzeichnet, daß die Länge des Gewindeteiles (23) der Befestigungsschrauben (21) gleich oder kleiner ist als die Tiefe der Gewindeaufnahme (19) in den Hohnieten (15).
8. Holster nach einem der Ansprüche 1 bis 7, dadurch gekennzeichnet, daß die Köpfe (22) der Befestigungsschrauben (21) mit Schlitz für Schraubendreher versehen sind.

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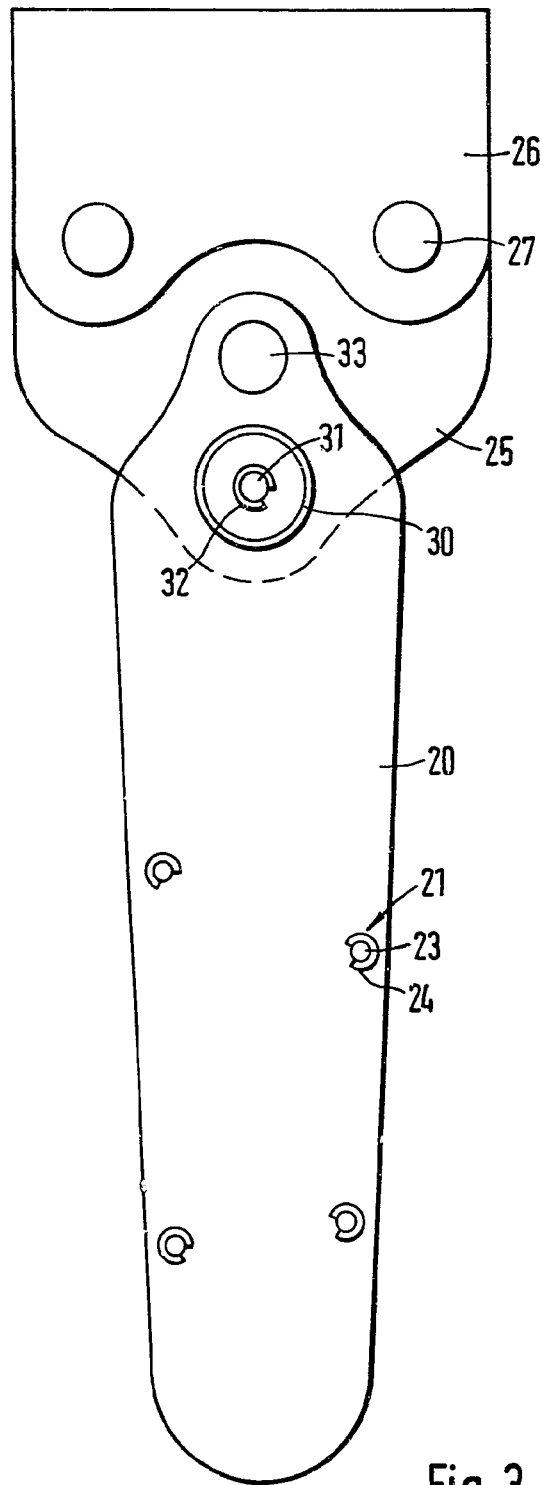


Fig. 3

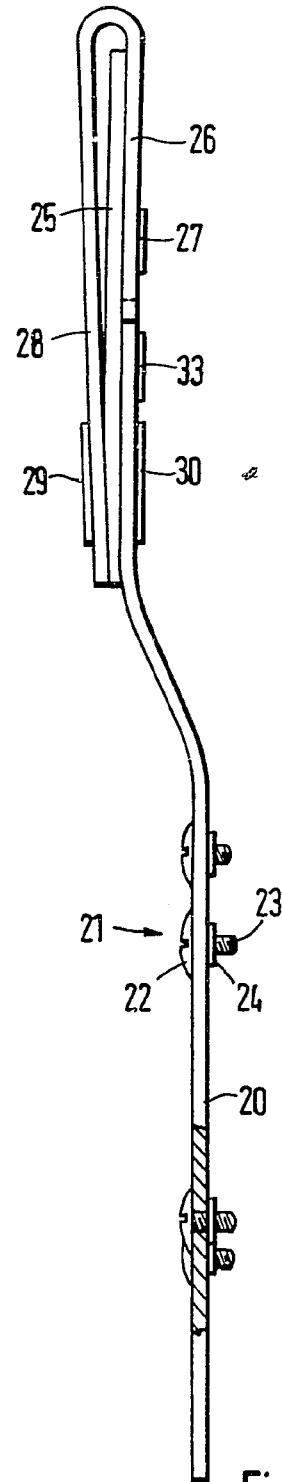


Fig. 4

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No title available

Inventor(s):**Applicant(s):** ALBRECHT KIND GMBH & CO, 5270 GUMMERSBACH, DE**Classification:** - **international:** A45F5/02; F41C33/02; (IPC1-7): F41C33/02
- **cooperative:** A45F5/02 (EP); F41C33/0218 (EP); F41C33/0227 (EP); F41C33/045 (EP); A45F2005/026 (EP); A45F5/021 (EP)**Application number:** DE19880010011U 19880805**Priority number(s):** DE19880010011U 19880805

Abstract not available for DE8810011 (U1)

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DEUTSCHES



PATENTAMT

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Gebrauchsmuster

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Vorrichtung zum Tragen einer Handfeuerwaffe am
Hosengürtel
 - (71) Name und Wohnsitz des Inhabers
Albrecht Kind GmbH & Co, 5270 Gummersbach, DE
 - (74) Name und Wohnsitz des Vertreters
Freischem, W., Dipl.-Ing.; Freischem, I.,
Dipl.-Ing., Pat.-Anwälte, 5000 Köln

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1 Anmelderin: Albrecht Kind GmbH & Co.
Hermann-Kind-Straße 18-20
5270 Gummersbach-Hunstig
Bezeichnung: Vorrichtung zum Tragen einer Handfeuerwaffe
5 am Hosengürtel

Die Erfindung geht aus von einer Vorrichtung zum Tragen einer Handfeuerwaffe am Hosengürtel, mit einer am Hosengürtel mittels einer Schlaufe befestigbaren Tragplatte, die mit
10 einem Kupplungselement versehen ist, das mit einem Kupplungselement zusammenwirkt, das an einem Pendelsteg angeordnet ist, der mit einem Holster zur Aufnahme der Handfeuerwaffe verbunden ist, wobei sich die lösbar miteinander verbindbaren Kupplungselemente einerseits aus einer Ausnehmung und
15 einem damit verbundenen Pendellager und andererseits aus einem Pendelbolzen und einer an dessen freiem Ende angeordneten, in die Ausnehmung einsetzbaren und hinter das Pendellager schiebbaren Sicherungsplatte zusammensetzen.

20 Tragevorrichtungen dieser Art sind bekannt aus den deutschen Gebrauchsmusterschriften 78 18 432 und 82 28 534.

Bei den bekannten Tragevorrichtungen kann das Holster nur über die Tragplatte und deren Schlaufe an einem Gürtel befestigt werden. Die am Hosengürtel befestigte Tragplatte
25 wird durch einen Schlitz in der Uniformjacke hindurchgeführt, so daß das Holster mit seinem Pendelsteg an die Tragplatte angekoppelt werden kann. Dabei sind die Kupplungselemente so ausgebildet, daß ein leichtes Ankuppeln möglich ist, aber zum Entkuppeln eine bestimmte Stellung des Pendelsteges oder aber das Lösen einer Sicherungssperre notwendig
30 ist.

Der Erfindung liegt die Aufgabe zugrunde, die eingangs beschriebene Tragevorrichtung für Handfeuerwaffen so weiterzubilden, daß das Holster auch ohne Tragplatte an einem Gurt
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1 bzw. an einem Koppel befestigt werden kann.

5 Diese Aufgabe wird erfindungsgemäß dadurch gelöst, daß der Pendelsteg mit einer Koppelschleife versehen ist, die sich im wesentlichen zwischen dem oberen Teil des Holsters und dem oberen Teil des Pendelsteges befindet.

10 Durch diese Ausbildung der Tragevorrichtung ist es möglich, das Holster auch unmittelbar am Hosengürtel bzw. am Koppel zu befestigen. Es hat sich gezeigt, daß das Kupplungsteil auf dem Pendelsteg bei dieser Tragweise nicht oder nur wenig stört. Wenn am Pendelsteg der Pendelbolzen mit Sicherungsplatte befestigt ist, dann ist es zweckmäßig, die

15 Sicherungsplatte relativ großflächig auszubilden, so daß der etwas vorspringende Pendelbolzen mit Sicherungsplatte beim Tragen unmittelbar am Gürtel nicht drückt.

20 Es ist aber auch möglich, den Tragbolzen mit Sicherungsplatte an der Tragplatte vorzusehen und am Pendelsteg die über die Sicherungsplatte des Pendelbolzens schiebbare Ausnehmung sowie das Pendellager vorzusehen.

25 In weiterer Ausbildung der Erfindung wird vorgeschlagen, daß der Pendelsteg bis in den unteren Bereich des Holsters hinunterreicht und in seinem mittleren Bereich und am unteren Ende unter Zwischenfügen je einer Distanzlage derart mit der innenliegenden Wand des Holsters verbunden ist, daß zwischen den beiden Distanzlagen, der innenliegenden Wand des Holsters und dem Pendelsteg ein weiterer Gurtdurchlaß gebildet

30 ist. Auf diese Weise kann das Holster ohne Tragplatte auf zwei unterschiedlichen Weisen unmittelbar am Hosengürtel befestigt werden.

35 Weitere Merkmale der Erfindung ergeben sich aus den Schutzansprüchen.

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1 In der folgenden Beschreibung wird unter Bezugnahme auf die Zeichnungen eines Ausführungsbeispiels die Erfindung näher erläutert. Die Zeichnungen zeigen in

5 Fig. 1 eine Rückansicht und
Fig. 2 eine Seitenansicht der Tragevorrichtung nach der Erfindung (teilweise geschnitten),
Fig. 3 eine Frontansicht der Tragplatte und eine Rückansicht des dazugehörigen Holsters mit Pendelsteg.

10

Wie die Fig. 1 und 2 zeigen, setzt sich die Tragevorrichtung zusammen aus einer Tragplatte 1, die mittels einer Schlaufe 2 an einem Hosengürtel befestigbar ist und mit einem Kupplungselement versehen ist, das mit einem Kupplungselement zusammen-
15 wirkt, das an einem Pendelsteg 4 angeordnet ist, der mit einem Holster 5 zur Aufnahme der Handfeuerwaffe verbunden ist.

Wie insbesondere die Fig. 3 zeigt, setzen sich die lösbar miteinander verbindbaren Kupplungselemente zusammen einerseits
20 aus einer Ausnehmung 7 und einem damit verbundenen Pendellager 8 und andererseits aus einem Pendelbolzen 9 und einer an dessen freiem Ende angeordneten, in die Ausnehmung 7 einsetzbaren und hinter das Pendellager 8 schiebbaren Sicherungsplatte 10. Bei dem dargestellten Ausführungsbeispiel ist der
25 Pendelbolzen 9 mit Sicherungsplatte 10 am Pendelsteg 4 angebracht, während die Ausnehmung 7 mit Pendellager 8 in der Tragplatte 1 eingearbeitet sind. Es ist aber auch möglich, den Pendelbolzen 9 mit Sicherungsplatte 10 an der Tragplatte 1 anzuordnen und die Ausnehmung 7 mit Pendellager 8 am Pendel-
30 steg 4 vorzusehen.

Wie insbesondere die Fig. 2 zeigt, ist der Pendelsteg 4 mit einer Koppelschlaufe 11 versehen, die sich im wesentlichen zwischen dem oberen Teil des Holsters 5 und dem oberen Teil
35 des Pendelsteges 4 befindet. Aufgrund dieser Ausbildung kann das Holster 5 auch ohne Tragplatte 1 an einem Koppel oder

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6 einem Gürtel befestigt werden. Der Pendelsteg 4 und die Koppelschlaufe 11 sind unterhalb der Koppelschlaufe 11 mit der innenliegenden Wand 16, d.h. dem Körper des Trägers zugewandten Wand des Holsters 5, verbunden. Der Pendelsteg 4 ist in einer Lederhülle 6 eingesetzt, welche auch die Koppelschlaufe 11 bildet. In ähnlicher Weise ist die Tragplatte 1 in einer Lederhülle 3 eingefaßt, welche auch die Koppelschlaufe 2 bildet.

10 Wie die Fig. 1 und 2 zeigen, erstreckt sich der Pendelsteg 4 bis in den unteren Bereich des Holsters 5 und ist in seinem mittleren Bereich und am unteren Ende unter Zwischenfügen je einer Distanzlage 12 und 13 derart mit der innenliegenden Wand 16 des Holsters 5 verbunden, daß zwischen den beiden
15 Distanzlagen 12 und 13 der innenliegenden Wand 16 und dem Pendelsteg 4 ein weiterer Gurtdurchlaß 17 gebildet ist. Mit Hilfe dieses zweiten Durchlasses kann das Holster 5 auch in einer höheren Stellung am Koppel bzw. am Gürtel befestigt werden. Diese Trageweise wird insbesondere von
20 schlanken Trägern bevorzugt, die Auto fahren, weil in dieser höheren Anordnung des Holsters die Waffe beim Autofahren am wenigsten stört.

25 Die obere Befestigung des Pendelsteges 4 an der Innenwand 16 des Holsters erfolgt durch Nieten 14, während die untere Befestigung des Pendelsteges 4 an der Innenwand 16 des Holsters 5 durch Nieten 15 erfolgt. Die Koppelschlaufe 11 und der Durchlaß 17 sind im Vergleich zur Schlaufe 2 etwas geneigt, so daß die Handfeuerwaffe in allen drei Stellungen, nämlich in der tieferen Stellung bei Verwenden der Tragplatte 1 mit der oberen Schlaufe 2, beim Verwenden der mittleren
30 Schlaufe 11 und beim Benutzen des unteren Gurtdurchlasses 17 die Waffe in eine griffgünstige Position gehalten wird.

35 Der Pendelsteg 4 kann pendelnd mit der Tragplatte 1 verbunden werden oder aber mittels einer von einem Druckknopf ge-

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1 bildeten Pendelsicherung 21 in die aus Fig. 1 ersichtliche
Stellung festgelegt werden. Die Pendelsicherung 21 setzt
sich aus einem mit der Tragplatte 1 verbundenen Lappen 23
und einem am Pendelsteg 4 befestigten Druckknopfteil 22
5 zusammen.

Wie die Fig. 3 zeigt, ist hinter der Tragplatte 1 eine
Blattfeder 18 angeordnet, die eine Sperrkante 19 aufweist,
welche sich über den äußeren Rand der Sicherungsplatte 10
10 legt, wenn der Pendelbolzen 9 im Pendellager 8 eingerastet
ist. Durch Drücken des Entsicherungsknopfes 20 kann die
Sperrkante 19 zurückgedrückt werden, so daß der Pendelbolzen
9 aus seinem Pendellager 8 nach oben geschoben werden kann
und die Sicherungsplatte 10 durch die Ausnehmung 7 heraus-
15 gebracht werden kann. Zum leichten Zusammenfügen und Trennen
der Kupplungsteile sind die Kanten der Sicherungsplatte 10
angefast.

Bei eingerasteter Pendelsicherung 21 bedeckt - wie Fig. 1
20 und 2 zeigen - das obere Ende der Koppelschlaufe 11 zumin-
dest teilweise den Entsicherungsknopf 20, so daß zum Ab-
kuppen des Holsters 5 von der Tragplatte 1 das Holster 5
mit dem Pendelsteg 4 um etwa 90° geschwenkt werden muß.

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1 Bezugszeichenliste

- 1 Tragplatte
- 2 Schlaufe
- 5 3 Lederhülle
- 4 Pendelsteg
- 5 Holster
- 6 Lederhülle
- 7 Ausnehmung
- 10 8 Pendellager
- 9 Pendelbolzen
- 10 Sicherungsplatte
- 11 Koppelschlaufe
- 12 Distanzlage
- 15 13 Distanzlage
- 14 Niet
- 15 Niet
- 16 innenliegende Wand
- 17 Durchlaß
- 20 18 Blattfeder
- 19 Sperrkante
- 20 Entsicherungsknopf
- 21 Pendelsicherung
- 22 Durckknopfteil
- 25 23 Lappen

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1 SCHUTZANSPRÜCHE:

1. Vorrichtung zum Tragen einer Handfeuerwaffe am Hosengürtel, mit einer am Hosengürtel mittels einer Schlaufe (2) befestigbaren Tragplatte (1), die mit einem Kupplungselement versehen ist, das mit einem Kupplungselement zusammenwirkt, das an einem Pendelsteg (4) angeordnet ist, der mit einem Holster (5) zur Aufnahme der Handfeuerwaffe verbunden ist, wobei sich die lösbar miteinander verbindbaren Kupplungselemente einerseits aus einer Ausnehmung (7) und einem damit verbundenen Pendellager (8) und andererseits aus einem Pendelbolzen (9) und einer an dessen freiem Ende angeordneten, in die Ausnehmung (7) einsetzbaren und hinter das Pendellager (8) schiebbaren Sicherungsplatte (10) zusammensetzen,

dadurch gekennzeichnet, daß der Pendelsteg (4) mit einer Koppelschlaufe (11) versehen ist, die sich im wesentlichen zwischen dem oberen Teil des Holsters (5) und dem oberen Teil des Pendelsteges (4) befindet.

2. Vorrichtung nach Anspruch 1, dadurch gekennzeichnet, daß der Pendelsteg (4) und die Koppelschlaufe (11) unterhalb der Koppelschlaufe (11) mit der innenliegenden Wand (16) des Holsters (5) verbunden ist.

3. Vorrichtung nach Anspruch 2, dadurch gekennzeichnet, daß der Pendelsteg (4) bis in den unteren Bereich des Holsters (5) herunterreicht und in seinem mittleren Bereich und am unteren Ende unter Zwischenfügen je einer Distanzlage (12, 13) derart mit der innenliegenden Wand (16) des Holsters (5) verbunden ist, daß zwischen den beiden Distanzlagen (12, 13), der innenliegenden Wand des Holsters (16) und dem Pendelsteg (4) ein weiterer Gurtdurchlaß (17) gebildet ist.

4. Vorrichtung nach Anspruch 3, dadurch gekennzeichnet, daß die obere Distanzlage (12) vom Endbereich der Koppelschlaufe (11) gebildet ist.

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1 5. Vorrichtung nach einem der Ansprüche 1 bis 4, dadurch gekennzeichnet, daß die Koppelschlaufe (11) und der Durchlaß (17) zur Schlaufe (2) der Tragplatte (1) geneigt verlaufen.

10 6. Vorrichtung nach einem der Ansprüche 1 bis 5, dadurch gekennzeichnet, daß eine aus zwei Druckknopfteilen sich zusammensetzende Pendelsicherung (21) vorgesehen ist, bei der ein Teil (22) des Druckknopfes an der Innenseite des Pendelsteges (4) und der andere Teil des Druckknopfes an einem beweglichen Lappen (23) befestigt ist, der von der Lederhülle (3) der Tragplatte (1) gebildet ist.

15 7. Vorrichtung nach einem der Ansprüche 1 bis 6, dadurch gekennzeichnet, daß an der Tragplatte (1) eine den Pendelbolzen (9) im Pendellager (8) haltende Sicherungseinrichtung (18,19) angeordnet ist, die durch einen Entsicherungsknopf (20) lösbar ist, der in solcher Höhe angeordnet ist, daß er bei eingerasteter Pendelsicherung (21) vom oberen
20 Ende der Koppelschlaufe (11) zumindest teilweise abgedeckt ist.

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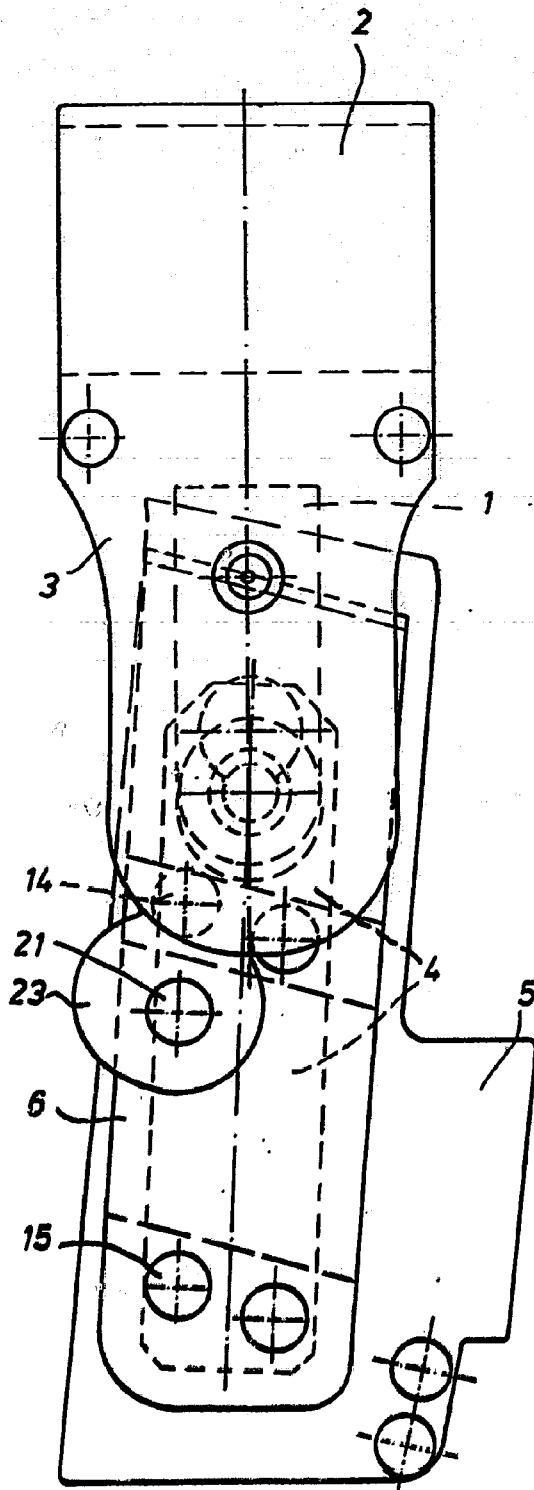


FIG. 1

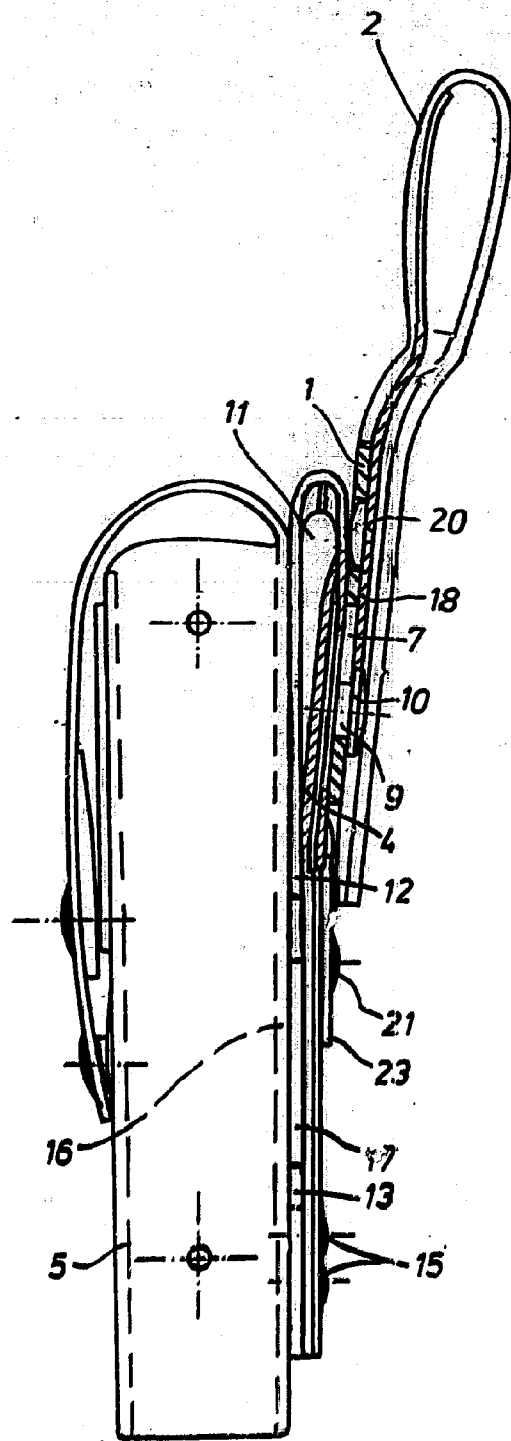


FIG. 2

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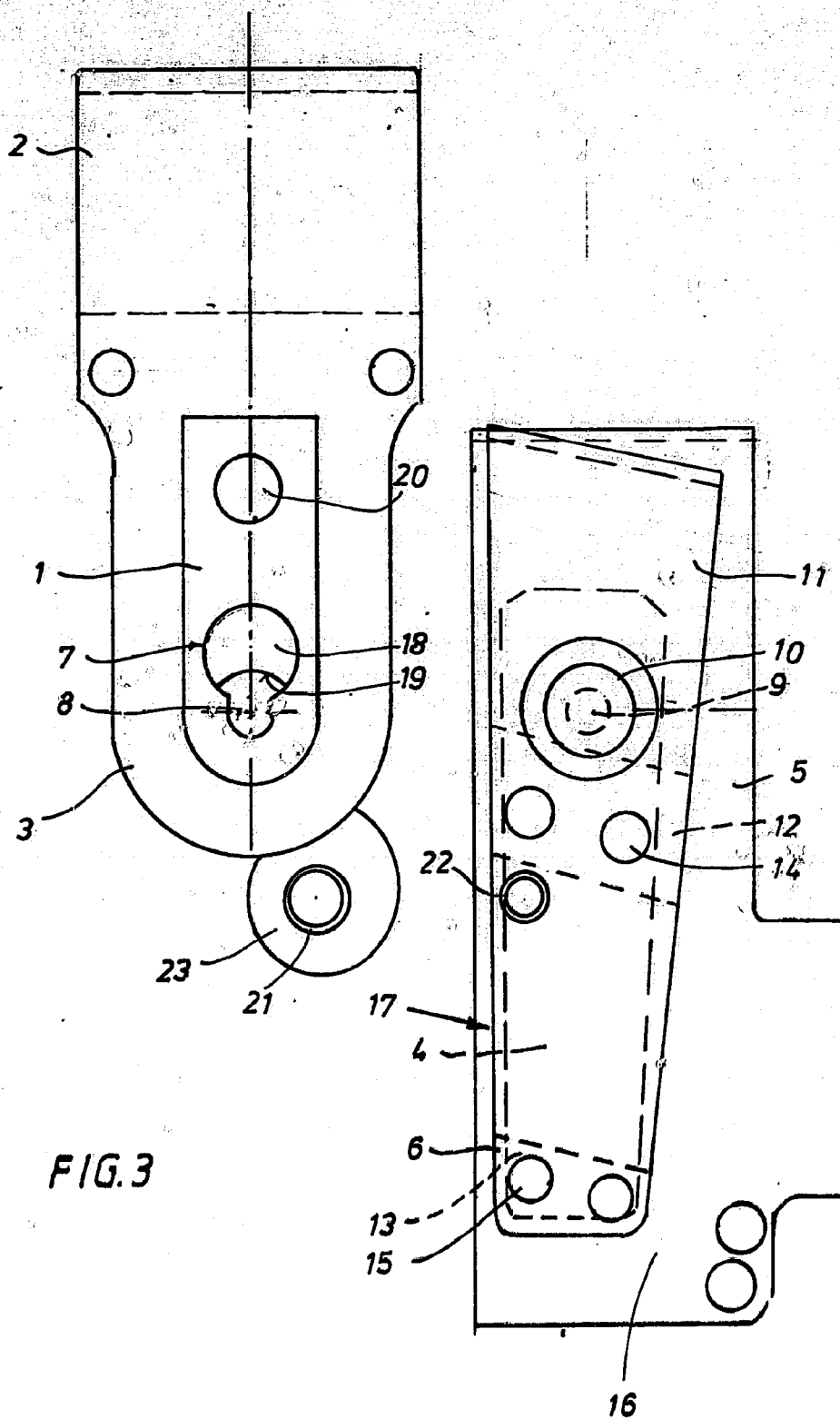


FIG. 3

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	Tool Attachment System			
First Named Inventor/Applicant Name:	Aaron S. Blumenthal			
Filer:	Bradley G. Jubber/Andrea Dietzel			
Attorney Docket Number:	066749-2567			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
Miscellaneous-Filing:				
LATE FILING FEE FOR OATH OR DECLARATION	1051	1	160	160
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1880

Electronic Acknowledgement Receipt

EFS ID:	38680626
Application Number:	16800336
International Application Number:	
Confirmation Number:	3982
Title of Invention:	Tool Attachment System
First Named Inventor/Applicant Name:	Aaron S. Blumenthal
Customer Number:	142078
Filer:	Bradley G. Jubber/Andrea Dietzel
Filer Authorized By:	Bradley G. Jubber
Attorney Docket Number:	066749-2567
Receipt Date:	25-FEB-2020
Filing Date:	
Time Stamp:	14:24:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 1880
RAM confirmation Number	E20202OE25198581
Deposit Account	180882
Authorized User	Andrea Dietzel

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)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	066749-2567_App_Transmittal.pdf	64859	no	2
			aba63e81f5b7022f0eee0ec40e91f7c1148f99bd		

Warnings:

Information:

2	Application Data Sheet	066749-2567_ADS.pdf	79572	no	4
			e71df67f3f5c500ea16b6b18b806f884d570630		

Warnings:

Information:

This is not an USPTO supplied ADS fillable form

3		066749-2567_Application.pdf	139903	yes	19
			9fcb77f66c71138b8f4bf485c795c63d8c6bb11a		

Multipart Description/PDF files in .zip description

	Document Description	Start	End
	Specification	1	13
	Claims	14	18
	Abstract	19	19

Warnings:

Information:

4	Drawings-only black and white line drawings	066749-2567_Drawings.pdf	182895	no	8
			6e7ad24d0e8b89e04cd9a724484cf8d4289be605		

Warnings:

Information:

5	Power of Attorney	066749-2567_PoA.pdf	181210	no	2
			7308f9bf8581cdfcfb0387a3614236f5c26ae583		
Warnings:					
Information:					
6	Transmittal Letter	066749-2567_IDS_Transmittal.pdf	80483	no	2
			9072bf3fd6e3ad85b01992bb6dead5a230af38de		
Warnings:					
Information:					
7	Information Disclosure Statement (IDS) Form (SB08)	066749-2567_SB08.pdf	107539	no	2
			9abf73c0bcbe23a94dcb40a88625e2dbd9c66f04		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
8	Foreign Reference	DE102010046583.pdf	452733	no	9
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9	Foreign Reference	DE3027550.pdf	479721	no	13
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10	Foreign Reference	DE7810070.pdf	474662	no	14
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11	Foreign Reference	DE8810011.pdf	610285	no	12
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12	Non Patent Literature	spider-camera-position-guide.pdf	1050533 26f254f06129a564eeea857794880510ad5dfa3	no	12
Warnings:					
Information:					
13	Fee Worksheet (SB06)	fee-info.pdf	36881 65382db7031368f55d8b8863cd5dd181e2d6f87b	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				3941276	
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation

Title: Tool Attachment System

Prior Appl. No.: PCT/US2020/017742

Prior Appl.

Filing Date: February 11, 2020

Examiner: To be determined

Art Unit: To be determined

CONTINUING PATENT APPLICATION
TRANSMITTAL LETTER

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

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is a:

☒ Continuation ☐ Division ☐ Continuation-In-Part (CIP)

of the above-identified copending prior application in which no patenting, abandonment, or termination of proceedings has occurred. Priority to the above-identified prior application is hereby claimed under 35 U.S.C. § 120 for this continuing application. The entire disclosure of the above-identified prior application is considered as being part of the disclosure of the accompanying continuing application and is hereby incorporated by reference therein in its entirety.

Enclosed are:

- ☒ Application Data Sheet (37 CFR 1.76)
- ☒ Cover Page, Description, Claims and Abstract
- ☒ Formal drawings
- ☒ Power of Attorney from Assignee/Applicant

[X] Information Disclosure Statement

[X] Form PTO/SB/08

[X] References

The requisite fees are being charged to Deposit Account No. 18-0882.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 18-0882.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date February 25, 2020

By /Brad G. Jubber/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8350
Facsimile: (414) 298-8097

Brad G. Jubber
Attorney for Applicant
Registration No. 68,946

Application Data Sheet

Application Information

Application Number:	To Be Determined
Application Type:	Nonprovisional
Subject Matter:	Utility
CD-ROM or CD-R:	None
Computer Readable Form (CRF):	No
Title:	Tool Attachment System
Attorney Docket Number:	066749-2567
Request for Early Publication:	No
Request for Non-Publication:	No
Suggested Drawing Figure:	1
Total Drawing Sheets:	8
Small Entity:	No
Petition included:	No
Secrecy Order in Parent Appl.:	No

Inventor Information

Status:	Full Capacity
Given Name:	Aaron S.
Family Name:	Blumenthal
City of Residence:	Wauwatosa
State or Province of Residence:	Wisconsin
Country of Residence:	US
Street of mailing address:	2624 North 62 nd Street
City of mailing address:	Wauwatosa

State or Province of mailing address: Wisconsin

Country of mailing address: US

Postal or Zip Code of mailing address: 53213

Status: Full Capacity

Given Name: Jason D.

Family Name: Thurner

City of Residence: Menomonee Falls

State or Province of Residence: Wisconsin

Country of Residence: US

Street of mailing address: N87W15705 Belleview Blvd.

City of mailing address: Menomonee Falls

State or Province of mailing address: Wisconsin

Country of mailing address: US

Postal or Zip Code of mailing address: 53051

Status: Full Capacity

Given Name: Christopher S.

Family Name: Hoppe

City of Residence: Milwaukee

State or Province of Residence: Wisconsin

Country of Residence: US

Street of mailing address: 3126 South Burrell Street

City of mailing address: Milwaukee

State or Province of mailing address: Wisconsin

Country of mailing address: US
Postal or Zip Code of mailing address: 53207

Correspondence Information

Correspondence Customer Number: 142078
E-Mail address: ipadmin@reinhartlaw.com

Representative Information

Representative Customer Number:	142078	
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Domestic Priority Information

Application:	Continuity Type:	Prior Application No.:	Parent Filing Date:	Prior Application Status:	Patent No.:
This Application	Is a continuation of	PCT/US2020 /017742	February 11, 2020	Pending	N/A
PCT/US2020 /017742	Claims the benefit under 35 U.S.C. 119(e)	62/804,547	February 12, 2019	Expired	N/A

Foreign Priority Information

Country:	Application number:	Filing Date:	Priority Claimed:
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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Applicant Information

Applicant 1:

☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Person to whom the inventor is obligated to assign	☐ Person who shows sufficient proprietary interest
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Assignee is an Organization check here ☒			

Organization Name:	Milwaukee Electric Tool Corporation
13135 West Lisbon Road Brookfield, Wisconsin 53005	

Signature:	/Brad G. Jubber/	Date:	February 25, 2020
First Name:	Brad G.	Last Name:	Jubber
Registration No.:	68,946		

U.S. PATENT APPLICATION

for

TOOL ATTACHMENT SYSTEM

Inventors: Aaron S. Blumenthal
 Jason D. Thurner
 Christopher S. Hoppe

TOOL ATTACHMENT SYSTEM

CROSS-REFERENCE TO RELATED PATENT APPLICATION

[0001] The present application is a continuation of International Application No. PCT/US2020/017742, filed on February 11, 2020, which claims the benefit of and priority to U.S. Provisional Application 62/804,547, filed on February 12, 2019, which are incorporated herein by reference in their entireties.

BACKGROUND OF THE INVENTION

[0002] The present invention relates generally to the field of tools. The present invention relates specifically to a system for removably attaching items to a belt, such as a tool belt, and/or to a job site location.

SUMMARY OF THE INVENTION

[0003] One embodiment of the invention relates to a tool attachment system. The tool attachment system has a receiver configured to attach to a tool belt and a tool attachment device. The tool attachment device has a locking mechanism and removably couples to the receiver. The locking mechanism locks the tool attachment device to the receiver when the locking mechanism is in a locked position. An actuator is also coupled to the tool attachment device. When a force is applied to the actuator, the actuator causes the locking mechanism to move to an unlocked position, and the force causes the tool attachment device to disengage from the receiver.

[0004] Another embodiment of the invention relates to a tool attachment system. The tool attachment system has a tool attachment device and a receiver. The tool attachment device has comprising a disk and a locking pin. The receiver has a channel, a hole, and an actuator. The channel engages the disk of the tool attachment device to secure the tool attachment device to the receiver. The hole receives the locking pin and prevents lateral movement of the tool attachment device relative to the receiver. The actuator has a button and a post coupled to the button. The post has an angled surface and a slot that receives the locking pin, such that in a locked position

the locking pin passes through the slot to the hole. When the tool attachment device is coupled to the receiver, the locking pin is received in the hole of the receiver and the tool attachment device is locked in the receiver. When a force is applied to the button of the actuator, the angled surface of the post on the actuator generates a force on the locking pin that is transverse to the force on the button and causes the locking pin to move out of the hole of the receiver to an unlocked position.

[0005] Another embodiment of the invention relates to a tool attachment system with a tool attachment device and a receiver. The tool attachment device has a body, a disk, and a locking pin. The body forms an upper wall and is attached to a pouch. The disk extends outwardly from the upper wall. The locking pin extends through the disk. The receiver has a channel, an overhanging flange, and a hole. The channel engages with the disk of the tool attachment device. The overhanging flange captures the disk within the channel. The hole receives the locking pin in a locked position. The actuator has a button and a post. The post has an angled surface and an angled slot that receives the locking pin, such that the locking pin passes through the slot to the hole in the locked position. When the tool attachment device is coupled to the receiver, the locking pin is received in the hole of the receiver and the tool attachment device is locked in the receiver. When a force is applied to the button of the actuator, the angled slot of the post on the actuator generates a force on the locking pin that is transverse to the force on the button and causes the locking pin to move out of the hole of the receiver to an unlocked position.

[0006] Another embodiment of the invention relates to a tool attachment system. The tool attachment system includes a tool attachment device configured to support a pouch or tool holder. The tool attachment system includes a receiver configured to attach to a tool belt. The tool attachment device is removably coupled to the receiver and includes a locking mechanism that locks the tool attachment device to the receiver when the locking mechanism is in the locked position. The tool attachment device includes an actuator, and when force is applied to the actuator, the actuator causes the locking mechanism to move to an unlocked position, and the force causes the tool attachment device to disengage from the receiver.

[0007] In various embodiments, the tool attachment device includes a disk-shaped coupling element that is received within a channel defined within the receiver. In various embodiments,

the tool attachment device is pivotally coupled to the receiver such that the tool attachment device rotates relative to the receiver about an axis perpendicular to a front face of the channel. In various embodiments, the tool attachment system has a low profile having a width measured from the tool belt of less than 1 inch.

[0008] Additional features and advantages will be set forth in the detailed description which follows, and, in part, will be readily apparent to those skilled in the art from the description or recognized by practicing the embodiments as described in the written description and claims hereof, as well as the appended drawings. It is to be understood that both the foregoing general description and the following detailed description are exemplary.

[0009] The accompanying drawings are included to provide a further understanding and are incorporated in and constitute a part of this specification. The drawings illustrate one or more embodiments and together with the description serve to explain principles and operation of the various embodiments.

[0010] Alternative exemplary embodiments relate to other features and combinations of features as may be generally recited in the claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011] This application will become more fully understood from the following detailed description, taken in conjunction with the accompanying figures, wherein like reference numerals refer to like elements in which:

[0012] FIG. 1 is a front perspective view of a pouch or tool attachment device, according to an exemplary embodiment.

[0013] FIG. 2 is a perspective view of a receiver to which the tool attachment device of FIG. 1 is removably coupled, according to an exemplary embodiment.

[0014] FIGS. 3A-3D show various perspective views of the tool attachment device of FIG. 1, according to an exemplary embodiment.

[0015] FIG. 4 is a front view of the tool attachment device of FIG. 1, according to an exemplary embodiment.

[0016] FIG. 5 is a detailed rear view of the tool attachment device of FIG. 1, according to an exemplary embodiment.

[0017] FIG. 6 is a cross-sectional view of the tool attachment device of FIG. 1, according to an exemplary embodiment.

[0018] FIG. 7 is a detailed front perspective view of an actuator of the tool attachment device of FIG. 1, according to an exemplary embodiment.

[0019] FIGS. 8A-8D show various perspective views of the receiver of FIG. 2, according to an exemplary embodiment.

[0020] FIG. 9 is a detailed front view of the receiver of FIG. 2, according to an exemplary embodiment.

[0021] FIG. 10 is a detailed perspective cross-sectional view of the receiver of FIG. 2, according to an exemplary embodiment.

DETAILED DESCRIPTION

[0022] Referring generally to the figures, various embodiments of a tool attachment system are shown. In general, the tool attachment system discussed herein includes a tool attachment device/component that is coupled to a pouch, loop, or other tool/item supporting component and a receiver that is coupled to a tool belt (or other structure/device from which a tool pouch may be supported as discussed below). In general, the receiver includes a coupling structure, such as a channel, that removably couples to a corresponding mating structure on attachment device. A locking mechanism is operable via an actuator supported by the tool attachment device to unlock the tool attachment device from the receiver allowing the pouch and the tool attachment device to be released from the receiver.

[0023] In the specific embodiments discussed herein, the actuator is configured and positioned relative to the tool attachment device in a manner such that force applied by the user to the actuator to release the locking mechanism also causes the tool attachment device to decouple from the receiver. Applicant believes that this arrangement provides a design that will allow the users to conveniently remove tools and other items from the tool belt with a single fluid motion. In the particular design discussed herein, this movement is an upward movement.

[0024] Further, Applicant has found that the design of the tool attachment device and receiver provides for a tool belt attachment system with a relatively low width. This allows the tool/items supported by the pouch to be worn on a tool belt close to the user's body and reduces torque applied to the tool belt and receiver. In addition, in specific embodiments, the tool belt attachment device is rotatably coupled to the receiver allowing the tool belt attachment device to rotate about an axis generally perpendicular to the receiver. Applicant believes that this swiveling action allows for the tool attachment device and associated pouch to swivel such that the pouch remains upright as the user's body position changes.

[0025] Referring to FIG. 1 and FIG. 2, a tool attachment system, including a tool attachment device 10 and a receiver 12, is shown according to an exemplary embodiment. Tool attachment device 10 includes a body 14 that is attached to a holder, loop, pouch, etc., shown as schematically as pouch 16 in FIG. 1. In general, receiver 12 is coupled to a tool belt and tool attachment device 10, and the tool/item supported by pouch 16 is removably coupled to the tool belt via engagement between corresponding coupling structures of receiver 12 and tool attachment device 10. Thus, this allows the user to easily add and remove tools/items to and from a tool belt or other structure to which receiver 12 is attached. In various embodiments, pouch 16 comprises ballistic nylon, leather, or plastic.

[0026] Body 14 includes a shroud 18, and as will be discussed in more detail below, shroud 18 partially surrounds an actuator button to limit inadvertent disengagement from receiver 12. Body 14 also includes an upper wall 20 that extends upward and away from shroud 18. Tool attachment device 10 includes a mating structure, shown as disk 22, that extends outward from upper wall 20. A bag securing mechanism or coupling structure 24 is configured to securely couple pouch 16 to body 14, e.g., under shroud 18 of tool attachment device 10. Upper wall 20 and/or coupling structure 24 are outward faces of tool attachment device 10. For example, upper wall 20 and/or coupling structure 24 face outwardly when pouch 16 is attached to a user's belt.

[0027] In some embodiments, pouch 16 is coupled to body 14. For example, fasteners couple pouch 16 to coupling structure 24 of tool attachment device 10. As another example, coupling structure 24 includes a plurality of attachment points or holes 50 to secure pouch 16 to body 14 and rivets through holes 50 of coupling structure 24 attach pouch 16 to tool attachment

device 10 and/or hold portions of housings that make up tool attachment device 10. Coupling structure 24 captures and/or fastens pouch 16 to tool attachment device 10 to securely and interchangeably couple contents of pouch 16 (e.g., tools) to different receivers 12. For example, tool attachment device 10 is coupled to a first receiver 12 on a user's belt and a second receiver 12 at the job site.

[0028] Receiver 12 includes a coupling structure or body 30, shown as channel 32, that is sized to reversibly, non-permanently engage with disk 22. Receiver 12 receives disk 22 and secures disk 22 of tool attachment device 10 within receiver 12. While in the locked position, disk 22 pivots or rotates about a rotational axis 33 of receiver 12. In general, disk 22 is slidably received within channel 32 through a channel entrance opening 34 such that tool attachment device 10 is coupled to receiver 12. A front face 35 of channel 32 is formed on an interior of receiver 12. Body 30 includes an overhanging flange 36 that captures disk 22 within channel 32 and prevents tool attachment device 10 from disengaging from receiver 12 via lateral movement (e.g., movement in a direction other than along the length of channel 32).

[0029] Referring to FIGS. 3A-3D, detailed perspective views of tool attachment device 10 are shown. As shown best in FIGS. 3B and 3C, tool attachment device 10 includes an actuator 40 that includes a button portion 42. In some embodiments, actuator 40 is coupled to tool attachment device 10 to release disk 22 from receiver 12. As shown, the inner surface of shroud 18 defines a hollow chamber 43 within which button portion 42 is received. In this manner, shroud 18 partially surrounds actuator 40 and/or button 42 and protects button 42 from inadvertent contact/actuation and inadvertent disengagement of tool attachment device 10 from receiver 12.

[0030] In a locked position (FIG. 6), tool attachment device 10 is removably coupled to receiver 12 via disk 22 that locks or secures translation of tool attachment device 10 relative to receiver 12. In some embodiments, disk 22 rotates within receiver 12 to removably and pivotally couple tool attachment device 10 to receiver 12. For example, pouch 16 can rotate and/or swivel about receiver 12 attached to the belt of a user to remain upright when the user bends over. When the user applies a force to actuator 40, disk 22 moves to an unlocked position (FIGS. 1 and 2). The force on actuator 40 causes tool attachment device 10 to disengage from receiver 12.

Thus, a user can press button 42 to release both the locking mechanism 45 (e.g., move locking pin 60) and remove tool attachment device 10 from receiver 12.

[0031] Referring to FIG. 4, body 14 of tool attachment device 10 includes a plurality of attachment points, shown as holes 50, that can be used to couple pouch 16 or other containers to tool attachment device 10. Further, shroud 18 protrudes a short distance away from the front face of tool attachment device 10, which allows for the user to access button portion 42 when pouch 16 is attached to body 14 via holes 50.

[0032] Referring to FIG. 5 and FIG. 6, tool attachment device 10 includes a locking mechanism 45 that retains tool attachment device 10 to receiver 12 until button 42 of actuator 40 is pressed. In the specific embodiment shown, locking mechanism 45 of tool attachment device 10 includes a locking pin 60 that extends through a pinhole 62 through disk 22. In some embodiments, both disk 22 and locking pin 60 are configured to be received in channel 32 defined within receiver 12. In the locked position shown in FIG. 6, the outer end 64 of locking pin 60 extends out of pinhole 62 past the rear face of disk 22 and then is received within a pinhole 70 in receiver 12 (see FIG. 9). The engagement between pin 60 and pinhole 70 in receiver 12 locks tool attachment mechanism 10 to receiver 12 to prevent lateral movement of tool attachment device 10 relative to receiver 12.

[0033] As shown in FIG. 6 and FIG. 7, actuator 40 includes a post 44 that extends upward from button 42. Post 44 includes an angled surface 46 and a pin slot 48. For example, angled surface 46 surrounds pin slot 48 to form an angled pin slot 48. Pin slot 48 receives the inner end of pin 60, and angled surface 46 engages with a portion of pin 60 to move pin 60 between locked and unlocked positions

[0034] To move tool attachment device 10 from the locked position of FIG. 6 to the unlocked position in which tool attachment device 10 can be disengaged from receiver 12, an upward (in the orientation of FIG. 6) force is applied to button 42. This upward force causes upward movement of actuator post 44, and the interaction between angled surface 46 and inner pin end 66 draws pin 60 to the left in the orientation of FIG. 6 and into pinhole 62. When pin 60 is within pinhole 62, it is no longer within pinhole 70 of receiver 12 and thus, pin 60 is no longer in position to prevent tool attachment device 10 from being disengaged from receiver 12 via

operation of button 42. This configuration allows the user to continue to provide an upward force to tool attachment device 10, causing disk 22 to slide out from receiver 12 and disengage tool attachment device 10 from receiver 12.

[0035] In this configuration, when tool attachment device 10 is coupled to receiver 12, locking pin 60 passes through pinhole 62 of disk 22 and slot 48 of post 44 and is received in pinhole 70 of receiver 12. This configuration locks the translational movement of tool attachment device 10 in receiver 12. When a user applies a force to button 42, angled surface 46 of slot 48 on post 44 generates a force on locking pin 60 that is transverse to the force on button 42 and causes locking pin 60 to move out of pinhole 60 of receiver 12 and to an unlocked position. Thus, as can be seen, this arrangement allows for both unlocking and removal of tool attachment device 10 from receiver 12 with the same single application of force.

[0036] Referring still to FIG. 6, tool attachment device 10 includes at least two biasing elements to maintain tool attachment device 10 in the locked position until a user actuates button 42. For example, tool attachment device 10 includes both a pin spring 67 and a button spring 68. In general, pin spring 67 biases locking pin 60 into a locked position and button spring 68 biases actuator 40 (e.g., button 42). Pin spring 67 is oriented in the horizontal direction between body 14 and pin 60 to bias pin 60 in the locked position of FIG. 6. Button spring 68 is oriented in the vertical direction between body 14 and actuator post 44 to bias actuator 40 downward to the locked position of FIG. 6. In some embodiments, pin spring 67 and/or button spring 68 are compression springs. In various embodiments, angled surface 48, pin spring 67, and/or button spring 68 cooperate to bias button 42 downward to bias locking mechanism 45 into the locked position of FIG. 6.

[0037] Further, the design discussed herein allows for a removable tool belt pouch 16 while at the same time keeping pouch 16 relatively close to the belt and user's body, improving the stability and comfort of the tool belt. In various embodiments, the horizontal distance from the tool belt to button 42 is less than 1 inch, more specifically, less than 0.75 inches.

[0038] Referring to FIG. 8A-8D, FIG. 9, and FIG. 10, details of receiver 12 are shown. As noted above, receiver 12 includes a pin receiving hole 70 for receiving pin 60 to providing locking, as discussed above. In some embodiments, receiver 12 includes a pin ramp 76. Pin

ramp 76 is an angled surface that pushes locking pin 60 into disk 22 as disk 22 is inserted into channel 32. For example, pin ramp 76 is located in a radial center of disk 22 to depress locking pin 22 at the radial center into disk 22 until pin 60 is aligned with pinhole 70. As disk 22 and locking pin 60 are depressed within channel 32, pin 60 moves within disk 22 as pin ramp 76 slopes towards and approaches face 35. Between pin ramp 76 and pinhole 70, locking pin 60 may be fully inserted within disk 22. Once aligned, locking pin 60 slides into pinhole 70 to lock tool attachment device 10 relative to receiver 12 about a rotational axis 37 of locking pin 60. Pin ramp 76 reduces interference of pin 60 with other structures on receiver 12, for example, fastener holes 74. Using a pin ramp 76, locking pin 60 travels through channel 32 over fastener holes 74 without catching on an edge or other interference with hole 74.

[0039] Receiver 12 includes a belt slot 72 through which a user belt is threaded to attach receiver 12 to the belt. Belt slot 72 is configured to thread a belt or rope through slot 72 and attach receiver 12. The belt can then be attached to the user or a suitable structure, such as a wall, railing, toolbox, or rack. Additional attachment methods such as fasteners, adhesives, hook-loop fasteners, and/or welding may be used to couple receiver 12 to a supporting structure and releasably secure pouch 16 at the desired location. In some embodiments, receiver 12 is constructed within a tool, such as a lift, so that the user can detach pouch 16 from a belt and secure pouch 16 to the tool.

[0040] Receiver 12 also includes fastener holes 74. Fastener holes 74 allow the user to fasten receiver 12 to a structure as desired via a fastener, such as a screw. Holes 74 allow tool attachment system 10 discussed herein to provide from tool/item support locations at a wide variety of locations throughout a job site. Thus, in this manner, tool attachment device 10 and receiver 12 allow a user to attach several pouches 16 for a job onto a tool belt, walk to the job site, then unload some or all of the pouches 16 from the belt. Additional receivers 12 may be located at the location where work is to be performed, such as on the side of a ladder, on a bucket truck, on a wall, on a railing, on a cart, etc. This allows the user to conveniently transfer pouches 16 supported from the tool belt to the onsite receivers 12 without needing to remove the tool or items from the pouch 16.

[0041] As noted above, tool attachment device 10 and receiver 12 are configured to allow tool attachment device 10 and the attached pouch 16 to swivel or pivot within receiver 12 such that the pouch remains upright as the user moves/changes position preventing the contents of the pouching from being spilled. In general, the circular cross-sectional shape of disk 22 and the shape of channel 32 of receiver 12 and the circular shape of pin 60 and pinhole 70 in receiver 12 allows for the pivoting movement tool attachment device 10 relative to receiver 12. As the user moves, tool attachment device 10 rotates about an axis 33 perpendicular to face 35 of receiver 12, providing the swiveling movement that allows tool attachment device 10 and the associated pouch to remain upright. For example, when tool attachment device 10 is pivotally coupled to receiver 12, tool attachment device 10 and/or pouch 16 rotate relative to receiver 12 about axis 33 that is perpendicular to front face 35 of channel 32 of receiver 12.

[0042] It should be understood that the figures illustrate the exemplary embodiments in detail, and it should be understood that the present application is not limited to the details or methodology set forth in the description or illustrated in the figures. It should also be understood that the terminology is for the purpose of description only and should not be regarded as limiting.

[0043] Further modifications and alternative embodiments of various aspects of the invention will be apparent to those skilled in the art in view of this description. Accordingly, this description is to be construed as illustrative only. The construction and arrangements, shown in the various exemplary embodiments, are illustrative only. Although only a few embodiments have been described in detail in this disclosure, many modifications are possible (e.g., variations in sizes, dimensions, structures, shapes and proportions of the various elements, values of parameters, mounting arrangements, use of materials, colors, orientations, etc.) without materially departing from the novel teachings and advantages of the subject matter described herein. Some elements shown as integrally formed may be constructed of multiple parts or elements, the position of elements may be reversed or otherwise varied, and the nature or number of discrete elements or positions may be altered or varied. The order or sequence of any process, logical algorithm, or method steps may be varied or re-sequenced according to alternative embodiments. Other substitutions, modifications, changes, and omissions may also be made in

the design, operating conditions and arrangement of the various exemplary embodiments without departing from the scope of the present invention.

[0044] For purposes of this disclosure, the term “coupled” means the joining of two components directly or indirectly to one another. Such joining may be stationary in nature or movable in nature. Such joining may be achieved with the two members and any additional intermediate members being integrally formed as a single unitary body with one another or with the two members or the two members and any additional member being attached to one another. Such joining may be permanent in nature or alternatively may be removable or releasable in nature.

[0045] Unless otherwise expressly stated, it is in no way intended that any method set forth herein be construed as requiring that its steps be performed in a specific order. Accordingly, where a method claim does not actually recite an order to be followed by its steps or it is not otherwise specifically stated in the claims or descriptions that the steps are to be limited to a specific order, it is in no way intended that any particular order be inferred. In addition, as used herein the article "a" is intended to include one or more components or elements, and is not intended to be construed as meaning only one.

[0046] While the current application recites particular combinations of features in the claims appended hereto, various embodiments of the invention relate to any combination of any of the features described herein whether or not such combination is currently claimed, and any such combination of features may be claimed in this or future applications. Any of the features, elements, or components of any of the exemplary embodiments discussed above may be used alone or in combination with any of the features, elements, or components of any of the other embodiments discussed above.

[0047] In various exemplary embodiments, the relative dimensions, including angles, lengths, and radii, as shown in the Figures, are to scale. Actual measurements of the Figures will disclose relative dimensions, angles and proportions of the various exemplary embodiments. Various exemplary embodiments extend to various ranges around the absolute and relative dimensions, angles and proportions that may be determined from the Figures. Various exemplary embodiments include any combination of one or more relative dimensions or angles

that may be determined from the Figures. Further, actual dimensions not expressly set out in this description can be determined by using the ratios of dimensions measured in the Figures in combination with the express dimensions set out in this description. In addition, in various embodiments, the present disclosure extends to a variety of ranges (e.g., plus or minus 30%, 20%, or 10%) around any of the absolute or relative dimensions disclosed herein or determinable from the Figures.

WHAT IS CLAIMED IS:

1. A tool attachment system, comprising:
a receiver configured to attach to a tool belt;
a tool attachment device comprising a locking mechanism, the tool attachment device removably coupled to the receiver, wherein the locking mechanism locks the tool attachment device to the receiver when the locking mechanism is in a locked position; and
an actuator coupled to the tool attachment device, wherein, when a force is applied to the actuator, the actuator causes the locking mechanism to move to an unlocked position, and the force causes the tool attachment device to disengage from the receiver.
2. The tool attachment system of claim 1, further comprising a disk and a locking pin on the tool attachment device that are received in a channel defined within the receiver.
3. The tool attachment system of claim 1, wherein the tool attachment device is pivotally coupled to the receiver and rotates relative to the receiver about an axis that is perpendicular to a front face of a channel of the receiver.
4. The tool attachment system of claim 1, wherein the tool attachment system has a low profile having a width measured from a tool belt to a button of the actuator that is less than 1 inch.
5. The tool attachment system of claim 1, further comprising a bag securing mechanism that attaches a pouch under a shroud of the tool attachment device.
6. The tool attachment system of claim 5, wherein the tool attachment device is pivotally coupled to the receiver such that the pouch rotates relative to the receiver, wherein the pouch is coupled to the tool attachment device through a plurality of attachment points, and the

tool attachment device rotates about an axis that is perpendicular to a front face of a channel of the receiver.

7. The tool attachment system of claim 6, wherein the actuator comprises a button, wherein the shroud partially surrounds the actuator to limit inadvertent disengagement of the tool attachment device from the receiver.

8. The tool attachment system of claim 1, further comprising at least two biasing elements in the tool attachment device to bias the locking mechanism in the locked position.

9. The tool attachment system of claim 8, wherein the two biasing elements are a pin spring and a button spring; wherein the pin spring biases a locking pin into a locked position; and wherein the button spring biases the actuator.

10. A tool attachment system, comprising:
a tool attachment device, comprising a disk and a locking pin;
a receiver comprising:
a channel that engages the disk of the tool attachment device to secure the tool attachment device to the receiver; and
a hole that receives the locking pin and that prevents lateral movement of the tool attachment device relative to the receiver; and
an actuator, comprising:
a button; and
a post coupled to the button, the post having an angled surface and a slot that receives the locking pin, such that in a locked position the locking pin passes through the slot to the hole;
wherein, when the tool attachment device is coupled to the receiver, the locking pin is received in the hole of the receiver and the tool attachment device is locked in the receiver, and when a force is applied to the button of the actuator, the angled surface of the post on the

actuator generates a force on the locking pin that is transverse to the force on the button and causes the locking pin to move out of the hole of the receiver to an unlocked position.

11. The tool attachment system of claim 10, wherein the tool attachment device is pivotally coupled to the receiver and rotates relative to the receiver about an axis that is perpendicular to a front face of a channel of the receiver.

12. The tool attachment system of claim 10, wherein the tool attachment system has a low profile having a width measured from a tool belt to the button of the actuator that is less than 1 inch.

13. The tool attachment system of claim 10, further comprising a pin spring and a button spring; wherein the pin spring is oriented between the tool attachment device and the locking pin to bias locking pin into a locked position; and wherein the button spring is oriented between the tool attachment device and the post of the actuator to bias the actuator.

14. The tool attachment system of claim 10, wherein the receiver further comprises a belt slot and fastener holes, the belt slot configured to thread a belt and attach the receiver to the belt, and the fastener holes configured to fasten the receiver with a screw.

15. The tool attachment system of claim 10, further comprising a bag securing mechanism that attaches a pouch under a shroud of the tool attachment device, wherein the tool attachment device is pivotally coupled to the receiver such that the pouch rotates relative to the receiver, wherein the pouch is coupled to the tool attachment device through a plurality of attachment points, and the tool attachment device rotates about an axis that is perpendicular to a front face of a channel of the receiver.

16. The tool attachment system of claim 10, further comprising a shroud that partially surrounds the button to limit inadvertent disengagement of the tool attachment device from the receiver.

17. A tool attachment system, comprising:
a tool attachment device, comprising:
a body forming an upper wall, the body attached to a pouch;
a disk that extends outward from the upper wall; and
a locking pin extending through the disk;
a receiver comprising:
a channel that engages with the disk of the tool attachment device;
an overhanging flange that captures the disk within the channel; and
a hole that receives the locking pin in a locked position; and
an actuator, comprising:
a button; and
a post having an angled surface and an angled slot that receives the locking pin, such that the locking pin passes through the slot to the hole in the locked position;
wherein when the tool attachment device is coupled to the receiver, the locking pin is received in the hole of the receiver and the tool attachment device is locked in the receiver, and when a force is applied to the button of the actuator, the angled slot of the post on the actuator generates a force on the locking pin that is transverse to the force on the button and causes the locking pin to move out of the hole of the receiver to an unlocked position.

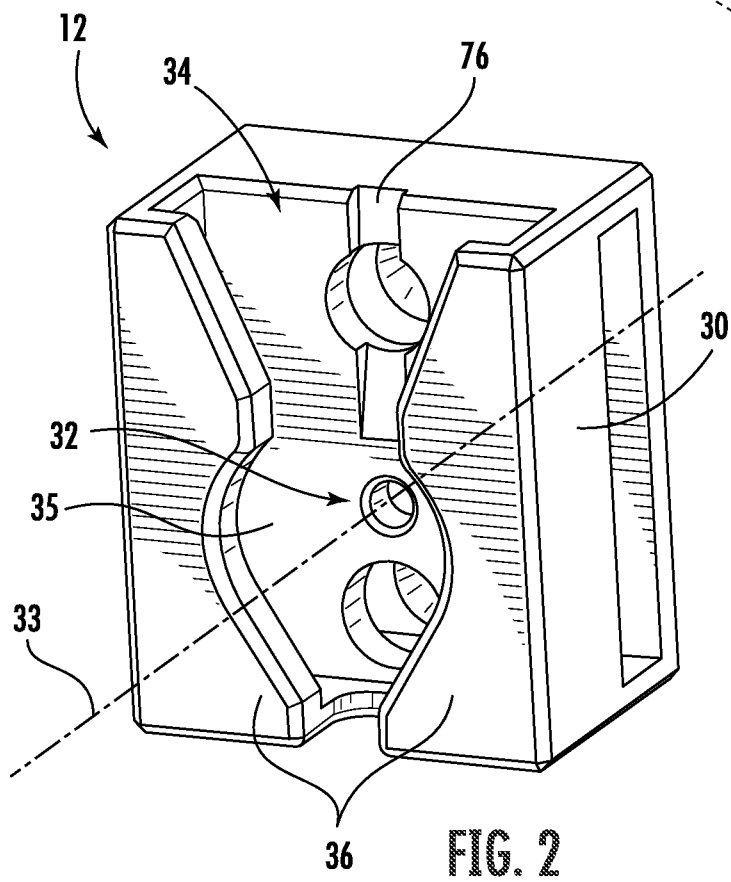
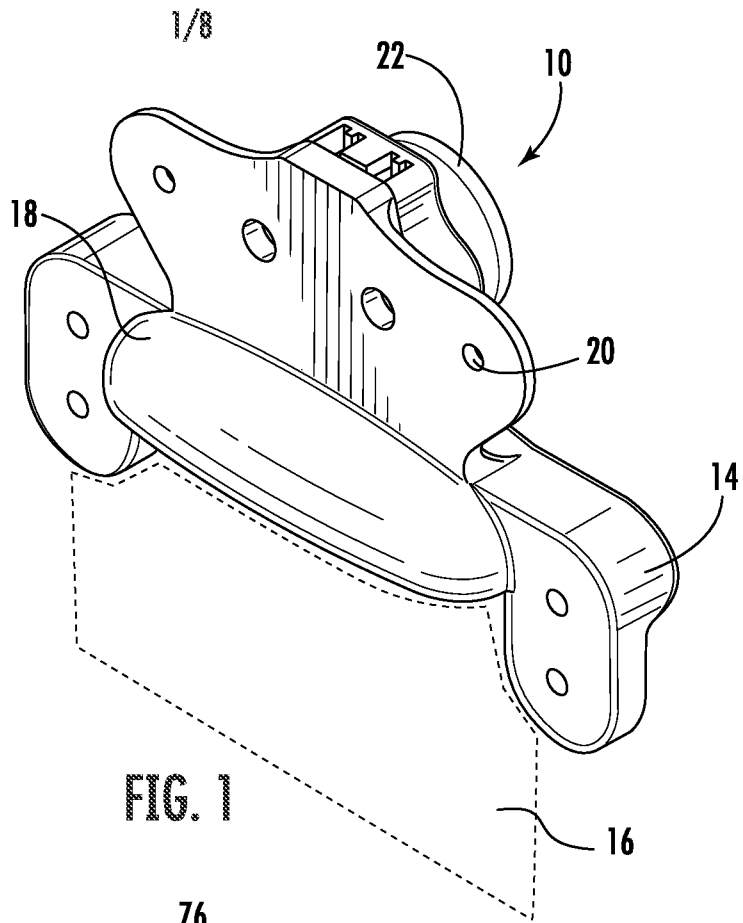
18. The tool attachment system of claim 17, further comprising a pin spring and a button spring; wherein the pin spring is oriented between the body of the tool attachment device and the locking pin to bias locking pin into a locked position; and wherein the button spring is oriented between the body of the tool attachment device and the post of the actuator to bias the actuator.

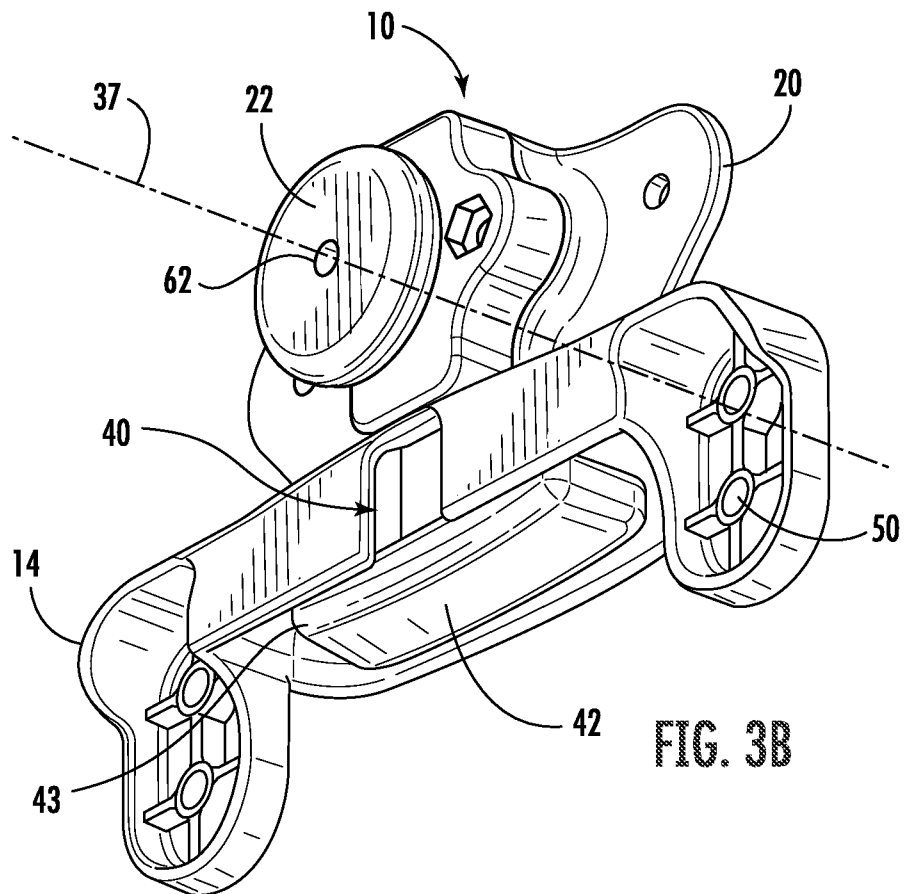
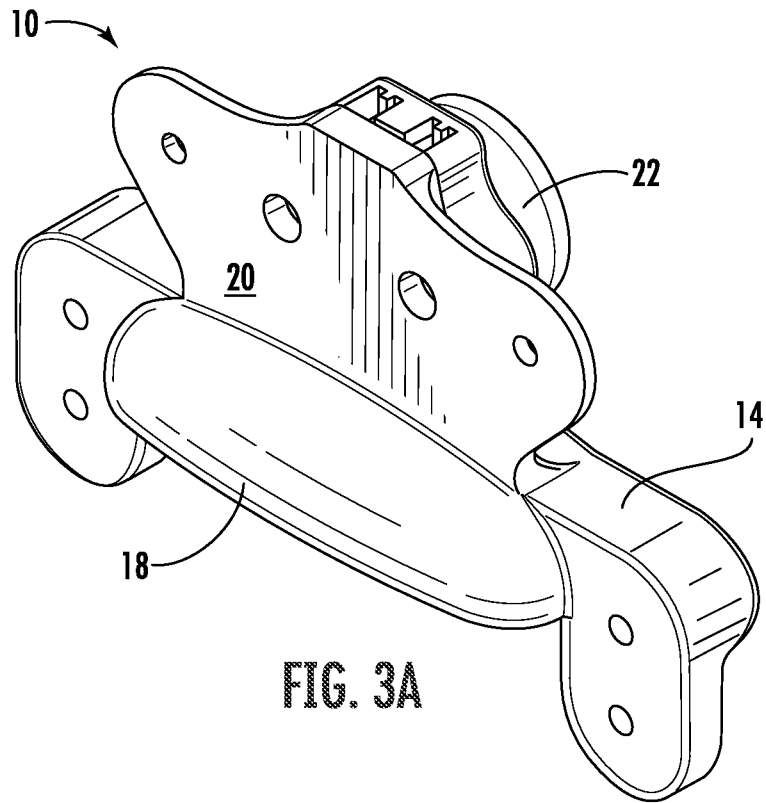
19. The tool attachment system of claim 17, further comprising a belt slot and fastener holes in the receiver.

20. The tool attachment system of claim 17, wherein the tool attachment device is pivotally coupled to the receiver and rotates relative to the receiver about an axis that is perpendicular to a front face of the channel of the receiver.

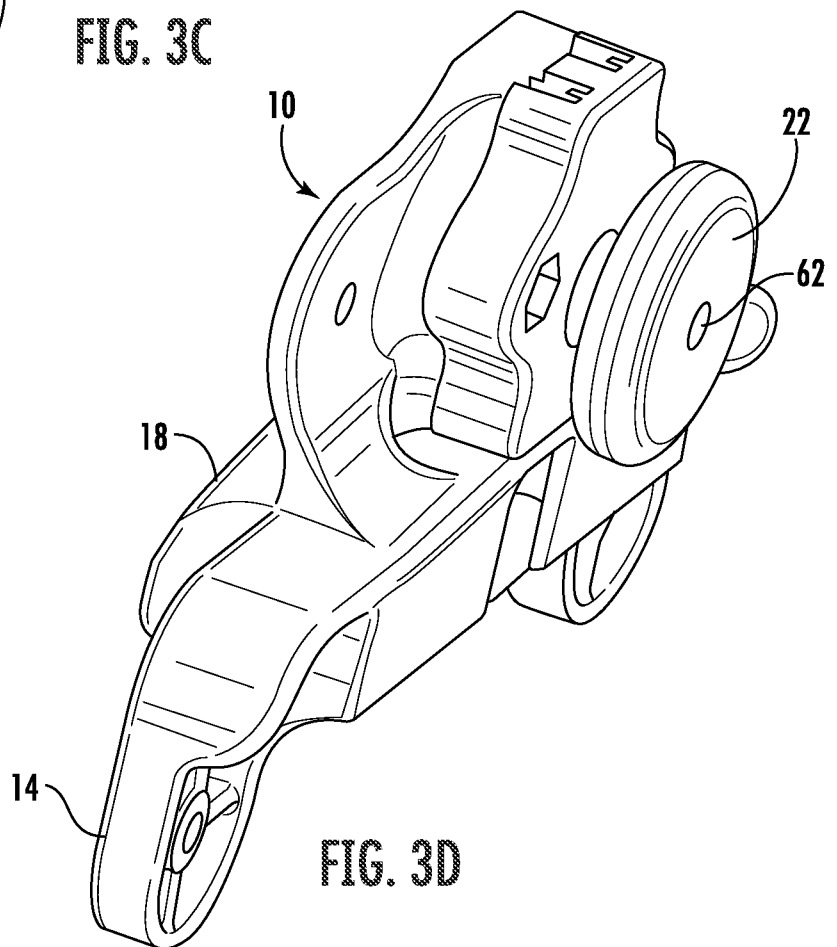
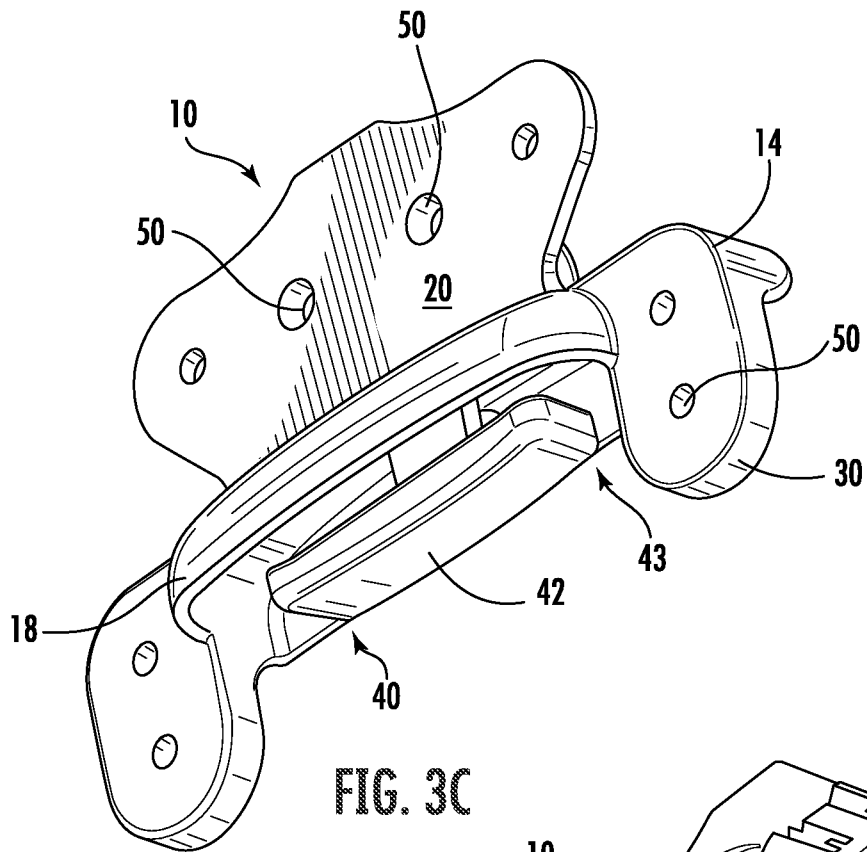
ABSTRACT

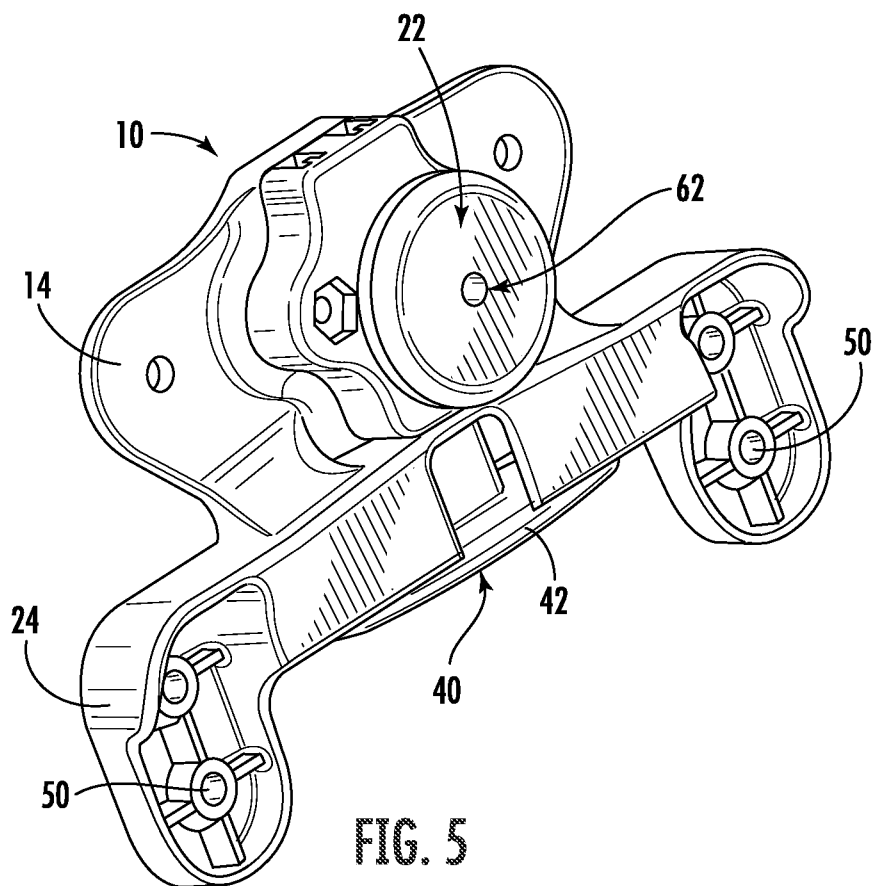
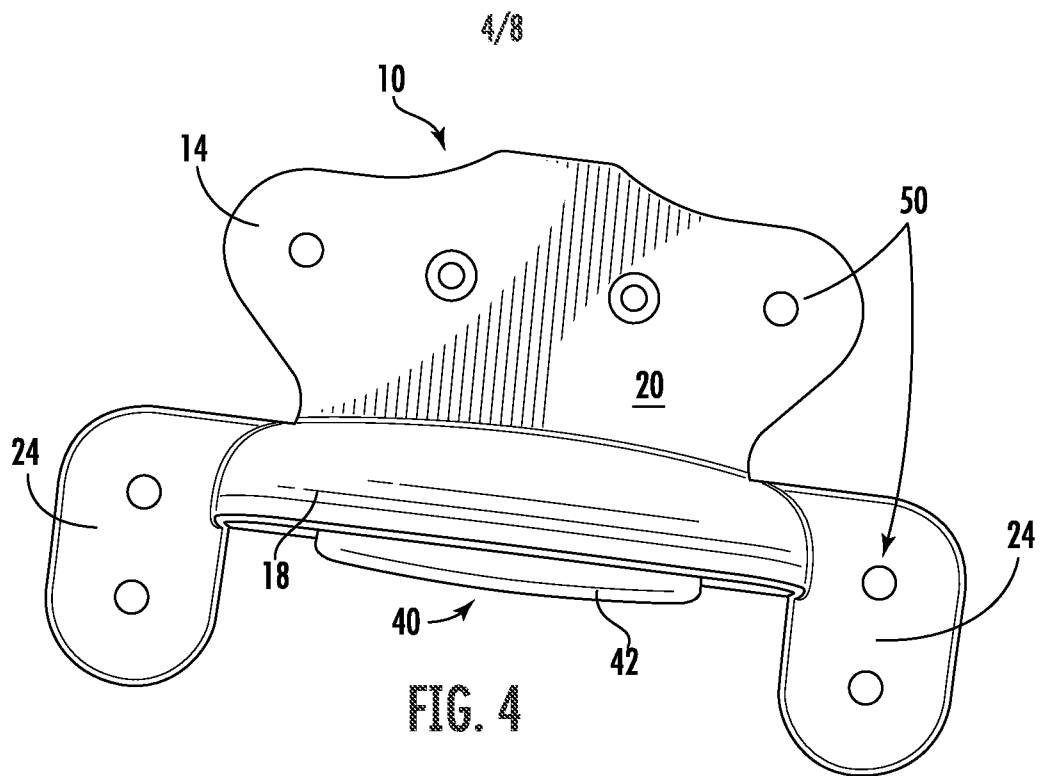
A tool attachment system is provided. The tool attachment system includes a tool attachment device and a receiver that cooperate to lock or secure, for example, a bag or pouch. When the tool attachment device is coupled to the receiver, a locking mechanism locks the tool attachment device to the receiver in a locked position. To remove the tool attachment device, a user applies a force to a button to cause the tool attachment device to disengage from the receiver.

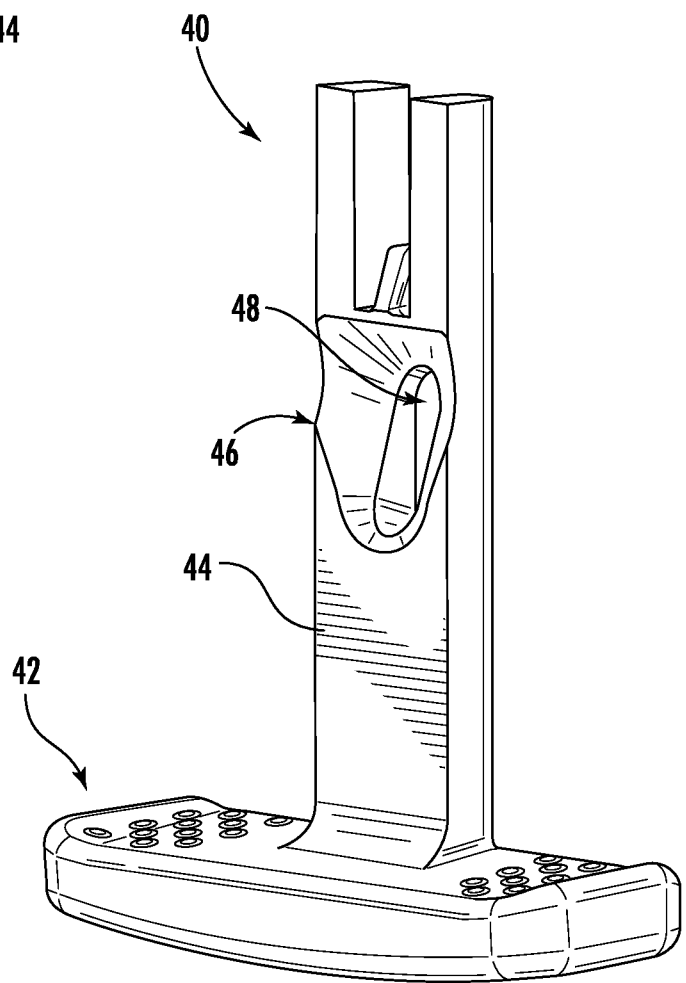
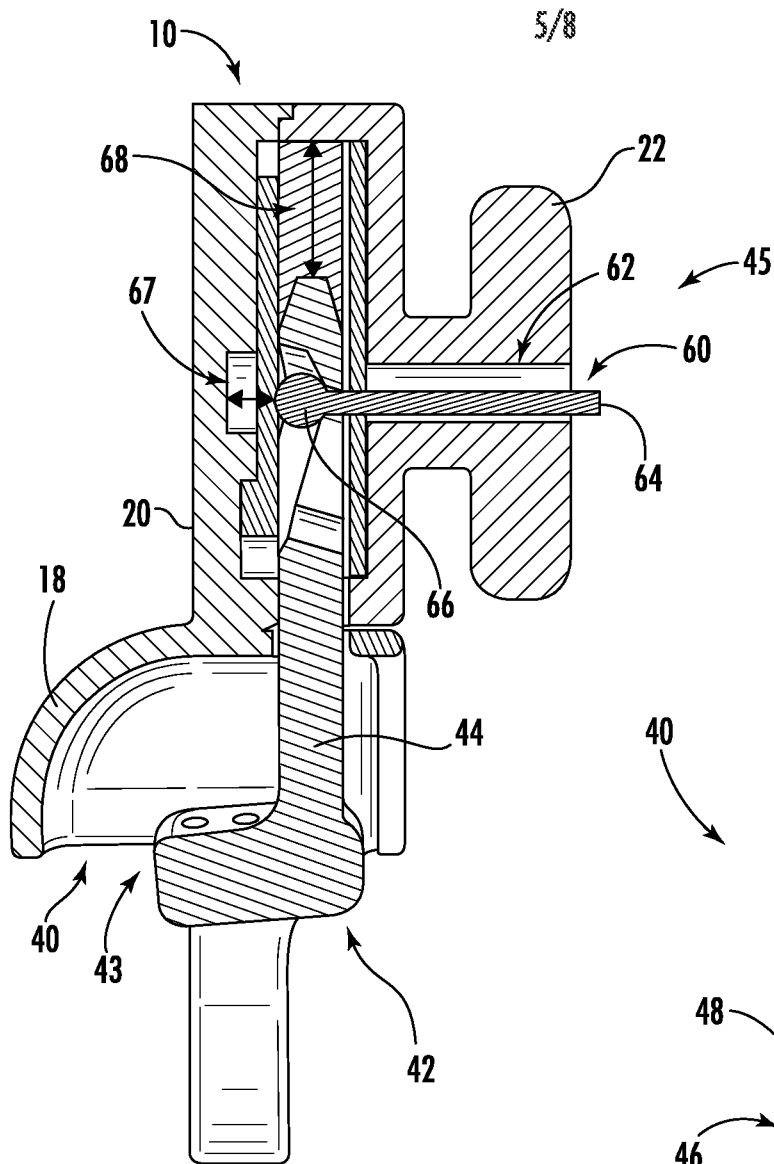


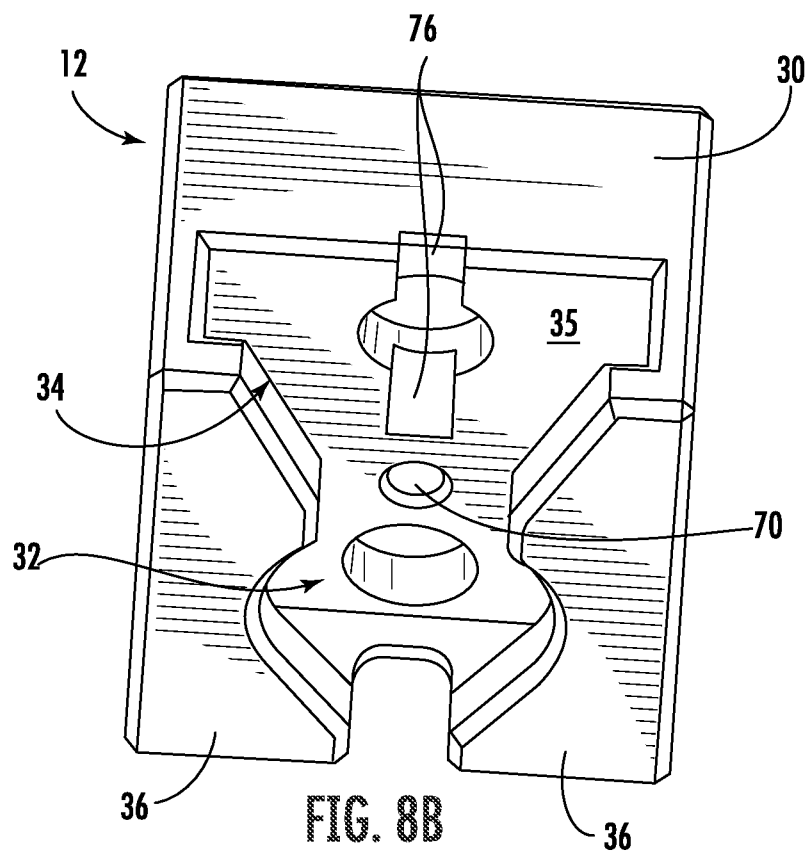
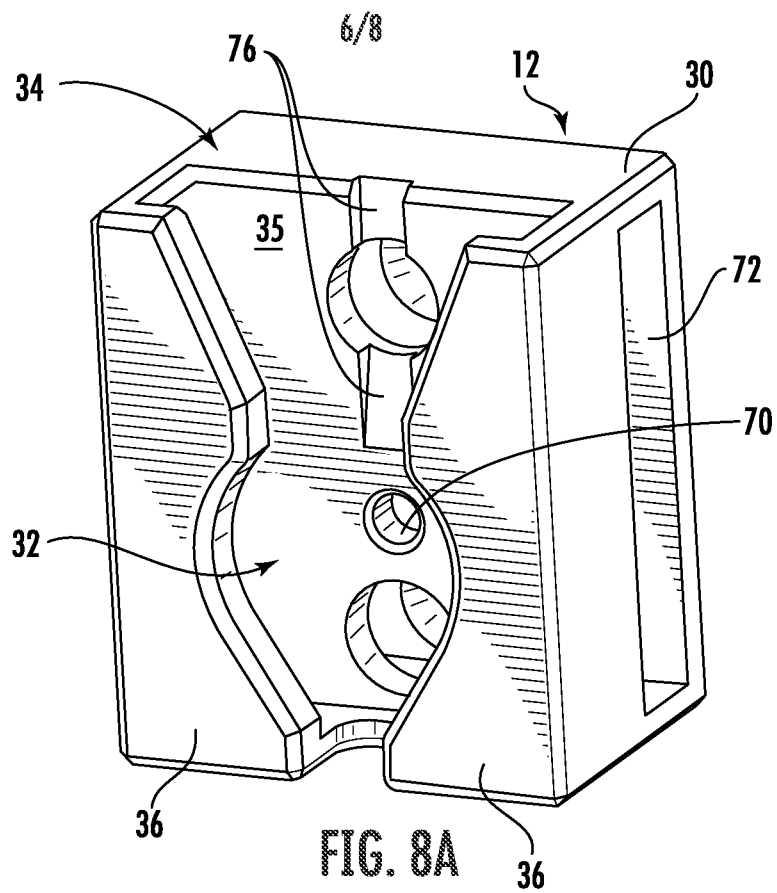


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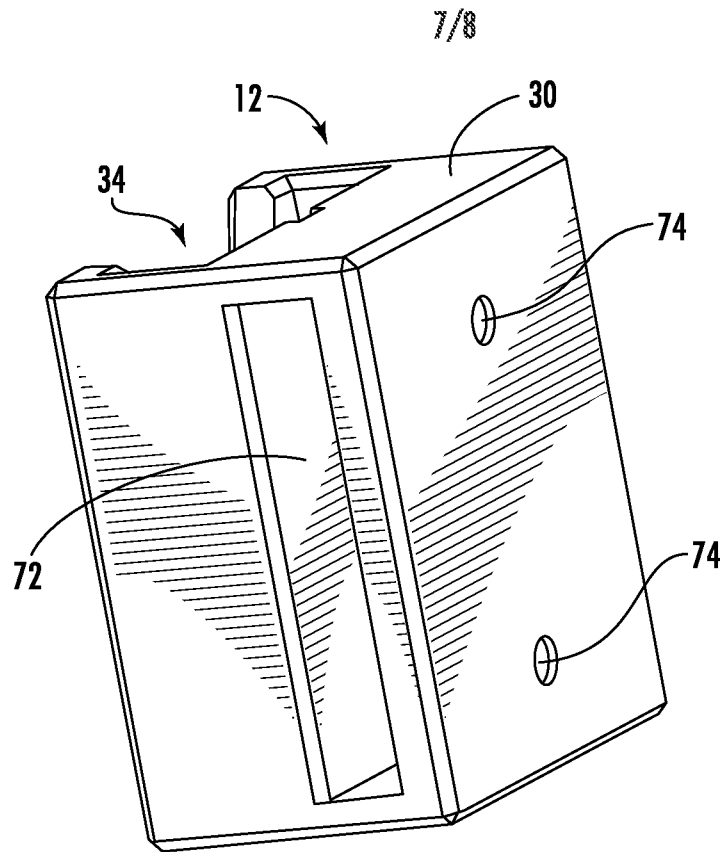


FIG. 8C

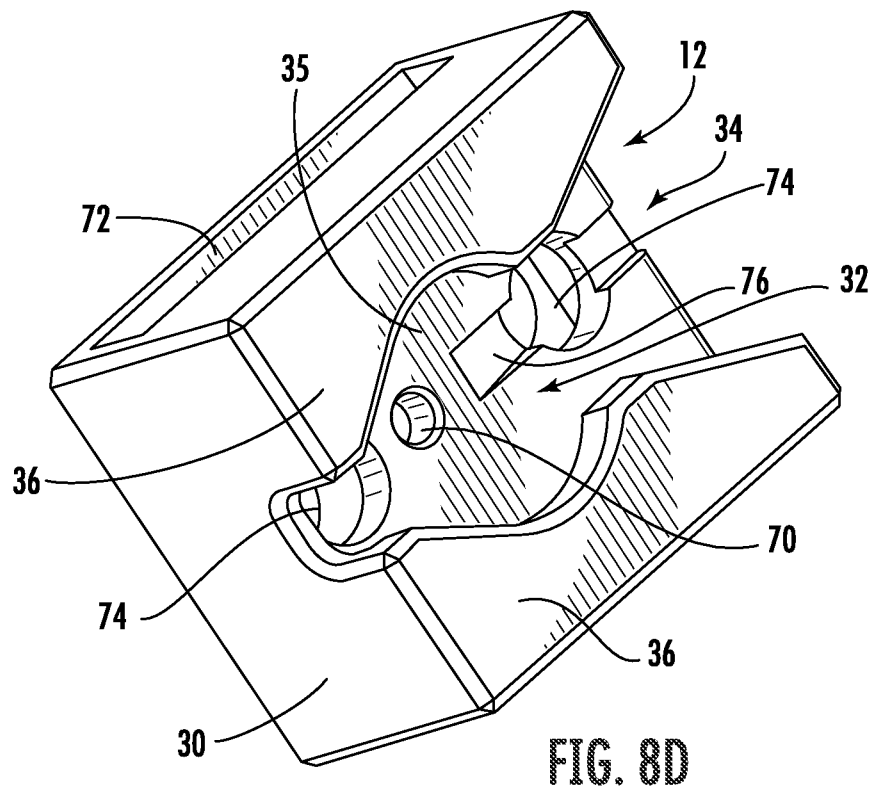
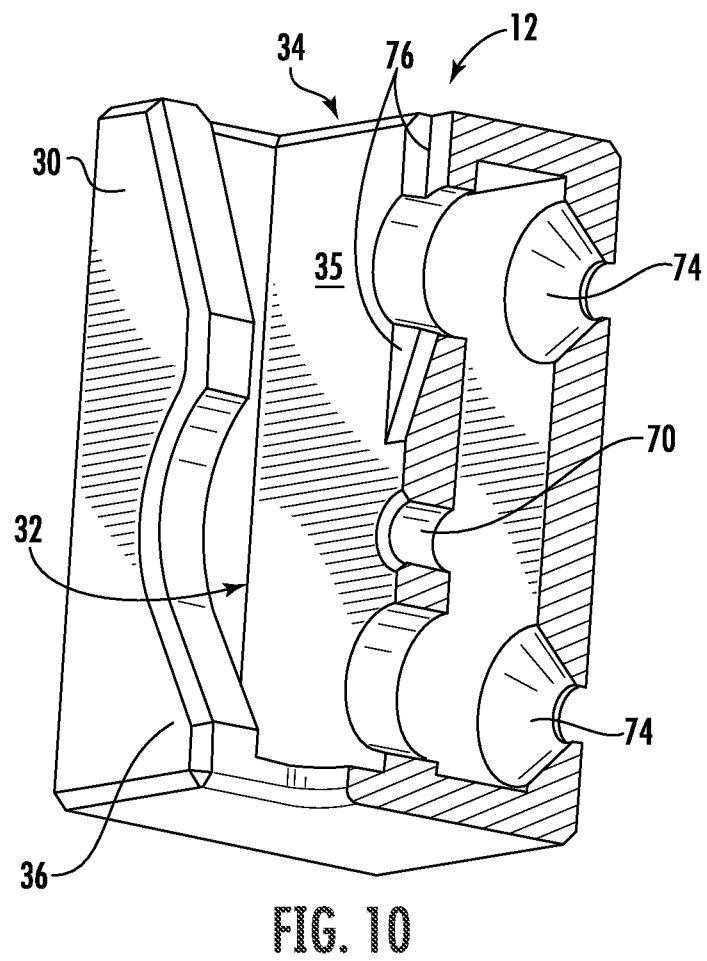
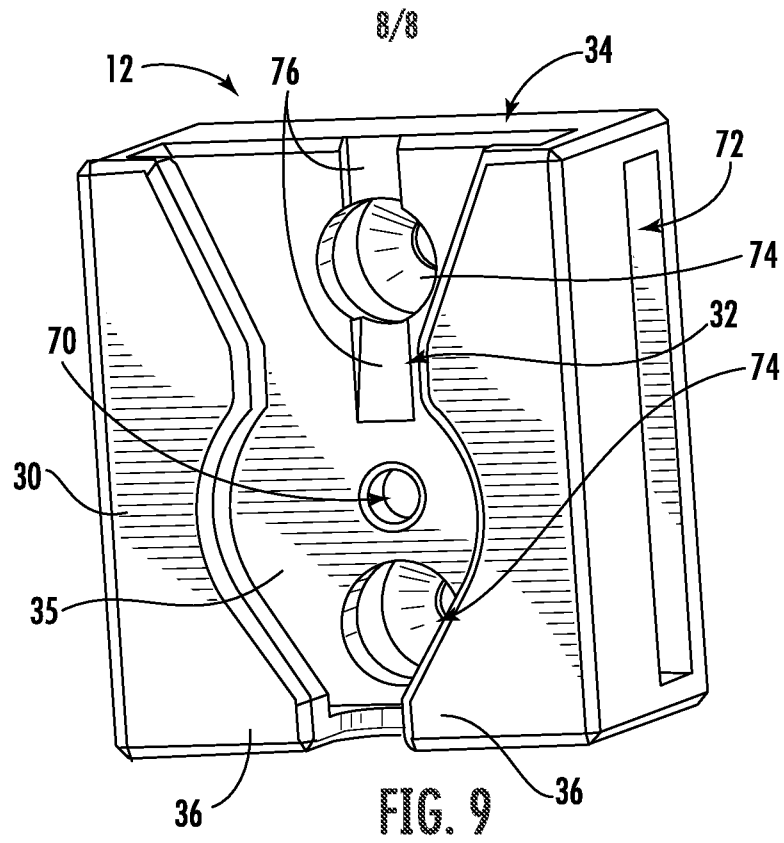


FIG. 8D



PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/800,336			
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA		RATE(\$)	FEE(\$)	RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A		N/A	300		
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A		N/A	660		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A		N/A	760		
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*				x 100 =	0.00		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x 460 =	0.00		
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00		
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00		
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	1720		
APPLICATION AS AMENDED - PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)	RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		x =	
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
TOTAL ADD'L FEE								TOTAL ADD'L FEE	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)	RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		x =	
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
TOTAL ADD'L FEE								TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/800,336	02/25/2020	2845	1880	066749-2567	20	3

CONFIRMATION NO. 3982

FILING RECEIPT



CC000000115316118

142078
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

Date Mailed: 03/12/2020

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Aaron S. Blumenthal, Wauwatosa, WI;
Jason D. Thurner, Menomonee Falls, WI;
Christopher S. Hoppe, Milwaukee, WI;

Applicant(s)

Milwaukee Electric Tool Corporation, Brookfield, WI;

Power of Attorney: The patent practitioners associated with Customer Number 142078

Domestic Priority data as claimed by applicant

This application is a CON of PCT/US2020/017742 02/11/2020
which claims benefit of 62/804,547 02/12/2019

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 03/10/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/800,336**

Projected Publication Date: 08/13/2020

Non-Publication Request: No

Early Publication Request: No
Title

Tool Attachment System

Preliminary Class

343

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

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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
16/800,336	02/25/2020	Aaron S. Blumenthal	066749-2567

CONFIRMATION NO. 3982

INFORMAL NOTICE



142078
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

Date Mailed: 03/12/2020

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file 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 actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
Aaron S. Blumenthal
Jason D. Thurner
Christopher S. Hoppe

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.

/tnguyen/

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.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 24, 2020 <i>(use as many sheets as necessary)</i>		Application Number	16/800,336
		Filing Date	February 25, 2020
		First Named Inventor	Aaron S. Blumenthal
		Art Unit	3734
		Examiner Name	To be determined
Sheet 1	of 1	Attorney Docket Number	066749-2567

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	9,780,583	10-03-2017	Nobuyasu Furui et al.	
	A2	2008/0083803	04-10-2008	Connie S. Brantner et al.	
	A3	2009/0095785	04-16-2009	Andre A. Woolery	
	A4	2014/0291362	10-02-2014	Scals Victor	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Application Document	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

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 ⁶
	A5	International Search Report and Written Opinion for International Application No. PCT/US2020/017742, dated June 16, 2020, 13 pages.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. 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 2 hours 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, 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 (1-800-786-9199) and select option 2.

43805945

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
JUBBER, Brad G.

1000 North Water Street Suite 1700 Milwaukee, Wisconsin
53202 USA

PCT

**NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION**

(PCT Rule 44.1)

Date of mailing
(day/month/year) 16 June 2020 (16.06.2020)

Applicant's or agent's file reference
066749-2568

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/US2020/017742

International filing date
(day/month/year) **11 February 2020 (11.02.2020)**

Applicant

MILWAUKEE ELECTRIC TOOL CORPORATION

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.
Filing of amendments and statement under Article 19:
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.
How? Directly to the International Bureau of WIPO preferably through ePCT or on paper to, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70
For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 - 9.011.
2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.
☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90bis.1 and 90bis.3).

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Within **22 months** from the priority date, the applicant may request that a supplementary international search be carried out by a different International Searching Authority, that offers this service (Rule 45bis.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the ISA/KR
International Application Division
Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon, 35208, Republic of Korea

Facsimile No. 82-42-481-8578

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5571



Form PCT/ISA/220 (July 2017)

* Attention

Copies of the documents cited in the international search report can be searched in the following Korean Intellectual Property Office English website for six months(expire date : **2020.12.16**) from the date of mailing of the international search report.

<http://www.kipo.go.kr/en/> => PCT ISA Portal => PCT Status

ID : PCT international application number

PW : **L28932B5#**

Inquiries related to PCT International Search Report or Written Opinion prepared by KIPO as an International Searching Authority can be answered not only by KIPO but also through IPKC (Intellectual Property Korea Center), located in Vienna, VA, which functions as a PCT Help Desk for PCT applicants.

Homepage: <http://www.ipkcenter.com>

Email: ipkc@ipkcenter.com

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 066749-2568	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2020/017742	International filing date (day/month/year) 11 February 2020 (11.02.2020)	(Earliest) Priority Date (day/month/year) 12 February 2019 (12.02.2019)
Applicant MILWAUKEE ELECTRIC TOOL CORPORATION		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of :

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1
☒ as suggested by the applicant.
☐ as selected by this Authority, because the applicant failed to suggest a figure.
☐ as selected by this Authority, because this figure better characterizes the invention.
b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER**A45F 5/02(2006.01)i, B25H 3/00(2006.01)i**

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

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
A45F 5/02; A41F 9/00; A45F 5/00; A45F 5/00; B25F 5/02; H02J 7/00; B25H 3/00Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: tool attachment, belt, clip, pin, actuator**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6626336 B1 (MARCUS KRUSELL) 30 September 2003 column 3, lines 17-26, 64-67; column 4, lines 33-43; claims 1-3, 8, 15-16; and figures 4-41	1-20
A	US 2014-0291362 A1 (SCALS VICTOR) 02 October 2014 paragraphs [0034]-[0035]; claim 1; and figures 5-6	1-20
A	US 9780583 B2 (NOBUYASU FURUI et al.) 03 October 2017 column 29, lines 20-22; claim 1; and figure 31	1-20
A	US 2009-0095785 A1 (ANDRE A. WOOLERY) 16 April 2009 paragraphs [0036]-[0037]; claims 1-2; and figures 1-5	1-20
A	US 2008-0083803 A1 (CONNIE S. BRANTNER et al.) 10 April 2008 paragraphs [0016]-[0021]; claims 1-16; and figures 1-4	1-20

☐ 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

"D" document cited by the applicant in the international application

"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

16 June 2020 (16.06.2020)

Date of mailing of the international search report

16 June 2020 (16.06.2020)

Name and mailing address of the ISA/KR


 International Application Division
 Korean Intellectual Property Office
 189 Cheongsu-ro, Seo-gu, Daejeon, 35208, Republic of Korea

Facsimile No. +82-42-481-8578

Authorized officer

Kim, Yeonkyung

Telephone No. +82-42-481-3325



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2020/017742

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6626336 B1	30/09/2003	AU 1999-48124 A1	05/01/2000
		CA 2341369 A1	23/12/1999
		CA 2341369 C	08/01/2008
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		JP 2017-126560 A	20/07/2017
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		JP 6382104 B2	29/08/2018

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2020/017742

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		JP 6392116 B2	19/09/2018
		JP 6696029 B2	20/05/2020
		US 10090692 B2	02/10/2018
		US 10124455 B2	13/11/2018
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		US 2014-0151079 A1	05/06/2014
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US 2008-0083803 A1	10/04/2008	None	

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
JUBBER, Brad G.

1000 North Water Street Suite 1700 Milwaukee, Wisconsin
53202 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) **16 June 2020 (16.06.2020)**

Applicant's or agent's file reference
066749-2568

FOR FURTHER ACTION

See paragraph 2 below

International application No.
PCT/US2020/017742

International filing date (day/month/year)
11 February 2020 (11.02.2020)

Priority date(day/month/year)
12 February 2019 (12.02.2019)

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

A45F 5/02(2006.01)i, B25H 3/00(2006.01)i

Applicant

MILWAUKEE ELECTRIC TOOL CORPORATION

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR
International Application Division
Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon,
35208, Republic of Korea
Facsimile No. +82-42-481-8578



Date of completion of this opinion

16 June 2020 (16.06.2020)

Authorized officer

Kim, Yeonkyung

Telephone No. +82-42-481-3325



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2020/017742

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - ☒ the international application in the language in which it was filed
 - ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(b))
3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
 - a. ☐ forming part of the international application as filed:
 - ☐ in the form of an Annex C/ST.25 text file.
 - ☐ on paper or in the form of an image file.
 - b. ☐ furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
 - ☐ in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
 - ☐ on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2020/017742

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following document:

D1: US 6626336 B1 (MARCUS KRUSELL) 30 September 2003

I. Novelty and Inventive Step (PCT Article 33(2) and (3))

1. Claims 1-9

1.1. Claim 1

D1, which is considered to be the closest prior art to the subject matter of claim 1, discloses an adapter system (see claim 1) comprising:

a holder comprising a clip intended to be able to be fixed over a pocket opening, a belt, or a trousers band (see claim 1); and

a belt clip (51) comprising a spring biased back part (52), a central body (53) and a spring arranged between the parts (52 and 53), wherein in the central body (53) there is a pin (56) which, by means of the spring, is arranged to be introduced into and maintained in a hole (25) of a button holder (22) or a hole (12) of a clip (9) (see column 4, lines 34-39; and figures 35-36).

Claim 1 differs from D1 in that a tool attachment system comprises an actuator coupled to a tool attachment device. However, the different feature would be easily derived from the feature of D1 (see column 4, lines 41-43; and figure 38: means of a release fork (57) forced by a spring (60), wherein the fork (57) is provided with two fingers (58) with oblique surfaces (59) which act upon the pin (56)).

Accordingly, claim 1 would have been obvious over D1 and lacks an inventive step.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of : Box No. V

1.2. Claims 2-9

The additional feature of claim 2 would be easily derived from the feature of D1 (see column 4, lines 39-41; and figures 8-12: a pin (56) is arranged to be moved out of its locking position of hole (12, 25)).

The additional features of claims 3, 7 would be easily derived from the feature of D1 (see column 4, lines 42-43; and figure 38: a fork (57) is provided with two fingers (58) with oblique surfaces (59) which act upon the pin (56)).

The additional feature of claim 4 would be easily derived from the feature of D1 (see column 4, lines 41-42; and figure 38: means of a release fork (57) forced by a spring (60)).

The additional feature of claim 5 would be easily derived from the feature of D1 (see column 3, lines 64-66; and figures 23-25: a second holder (vehicle holder) (27) comprises a back part (28) and a forwards facing pocket (29) provided with a U-shaped recess (30)).

The additional feature of claim 6 would be easily derived from the feature of D1 (see claim 16: a second holder comprises a key bit of such size and dimensions to fit inside the key hole of the holder, the second holder attachable to the holder by inserting the key bit into the key hole and rotating the second holder until the key bit is locked into the key holder).

The additional features of claims 8-9 would be easily derived from the feature of D1 (see column 4, lines 34-39; and figures 35-36: a belt clip (51) comprises a spring biased back part (52), a central body (53) and a spring arranged between the parts (52 and 53), wherein in the central body (53) there is a pin (56) which, by means of the spring, is arranged to be introduced into and maintained in a hole (25) of a button holder (22) or a hole (12) of a clip (9)).

Accordingly, claims 2-9 would have been obvious over D1 and lack an inventive step.

2. Claims 10-16

2.1. Claim 10

D1, which is considered to be the closest prior art to the subject matter of claim 10, discloses an adapter system (see claim 1) comprising:

a belt clip (51) comprising a spring biased back part (52), a central body (53) and a spring arranged between the parts (52 and 53), wherein in the central body (53) there is a

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Supplemental Box

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pin (56) which, by means of the spring, is arranged to be introduced into and maintained in a hole (25) of a button holder (22) or a hole (12) of a clip (9) (see column 4, lines 34-39; and figures 35-36);

a holder comprising a clip intended to be able to be fixed over a pocket opening, a belt, or a trousers band (see claim 1); and a stiffening plate attached to the inside of a case, wherein the plate is fixed to an adapter by through-going pins (see claim 3).

Claim 10 differs from D1 in that a tool attachment system comprises an actuator comprising: a button and a post coupled to the button. However, the different feature would be easily derived from the feature of D1 (see column 4, lines 41-43; and figure 38: means of a release fork (57) forced by a spring (60), which the fork (57) is provided with two fingers (58) with oblique surfaces (59) which act upon the pin (56)).

Accordingly, claim 10 would have been obvious over D1 and lacks an inventive step.

2.2. Claims 11-16

The additional features of claims 11, 13 would be easily derived from the feature of D1 (see column 4, lines 34-39; and figures 35-36: a belt clip (51) comprises a spring biased back part (52), a central body (53) and a spring arranged between the parts (52 and 53), wherein in the central body (53) there is a pin (56) which, by means of the spring, is arranged to be introduced into and maintained in a hole (25) of a button holder (22) or a hole (12) of a clip (9)).

Claim 12 specifies that a tool attachment system has a low profile having a width measured from a tool belt to a button of an actuator that is less than 1 inch. However, the feature of this claim is the general knowledge in relevant field of the art, so it can be easily derived by a person skilled in the art.

The additional feature of claim 14 would be easily derived from the feature of D1 (see column 3, lines 66-67; and figures 23-25: a vehicle holder (27) is arranged to become either screwed via screw holes (31)).

The additional feature of claim 15 would be easily derived from the feature of D1 (see column 3, lines 64-66; and figures 23-25: a second holder (vehicle holder) (27) comprises a back part (28) and a forwards facing pocket (29) provided with a U-shaped recess (30)).

The additional feature of claim 16 would be easily derived from the feature of D1 (see column 3, lines 17-19; and figure 4: a rear wall of the adapter (4) comprises a locking snapping tongue made up of a resilient tongue (6) with a pin (7) intended to lock a holder

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of : Previous Page

to the adapter (4)).

Accordingly, claims 11-16 would have been obvious over D1 and lack an inventive step.

3. Claims 17-20

3.1. Claim 17

D1, which is considered to be the closest prior art to the subject matter of claim 17, discloses an adapter system (see claim 1) comprising:

a belt clip (51) (see column 4, lines 34-39; and figures 35-36) comprising: an adapter (4) having a rear wall comprising a locking snapping tongue made up of a resilient tongue (6) with a pin (7) intended to lock a holder to the adapter (4) (see column 3, lines 17-19; and figure 4); a holder (a button holder) (22) (see figures 11-16); and through-going pins (see claim 3); and

the holder (see claim 1) comprising: U-shaped space provided with a flange (see claim 1); and the pin (7) tightening into a hole (12) arranged in a back part of a clip (9) (see column 3, lines 24-26; and figures 4-7)

Claim 17 differs from D1 in that a tool attachment system comprises an actuator comprising: a button; and a post having an angled surface and an angled slot. However, the different feature would be easily derived from the feature of D1 (see column 4, lines 41-43; and figure 38: means of a release fork (57) forced by a spring (60), wherein the fork (57) is provided with two fingers (58) with oblique surfaces (59) which act upon a pin (56)).

Accordingly, claim 17 would have been obvious over D1 and lacks an inventive step.

3.2. Claims 18-20

The additional feature of claim 18 would be easily derived from the features of D1 (see column 4, lines 33-36; claims 14-15; and figures 35-41: a circular button; a pin; a stiffening plate attached to the inside of a case whose plate is fixed to an adapter by through-going pins; and an alternative of a belt holder (32) is a belt clip (51) which comprises a spring biased back part (52), a central body (53) and a spring arranged between the parts (52 and 53)).

The additional feature of claim 19 would be easily derived from the features of D1 (see claims 2, 8: a clip forms a slot with the plate such that a belt fits into the slot; and a key

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In case the space in any of the preceding boxes is not sufficient.
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hole is formed to receive a key bit which in turn is attached to a second holder).

The additional feature of claim 20 would be easily derived from the feature of D1 (see column 4, lines 34-39; and figures 35-36: a belt clip (51) comprises a spring biased back part (52), a central body (53) and a spring arranged between the parts (52 and 53), wherein in the central body (53) there is a pin (56) which, by means of the spring, is arranged to be introduced into and maintained in a hole (25) of a button holder (22) or a hole (12) of a clip (9)).

Accordingly, claims 18-20 would have been obvious over D1 lack an inventive step.

II. Industrial Applicability (PCT Article 33(4))

Claims 1-20 are industrially applicable.

Electronic Acknowledgement Receipt

EFS ID:	39816404
Application Number:	16800336
International Application Number:	
Confirmation Number:	3982
Title of Invention:	Tool Attachment System
First Named Inventor/Applicant Name:	Aaron S. Blumenthal
Customer Number:	142078
Filer:	Bradley G. Jubber/Andrea Dietzel
Filer Authorized By:	Bradley G. Jubber
Attorney Docket Number:	066749-2567
Receipt Date:	24-JUN-2020
Filing Date:	25-FEB-2020
Time Stamp:	16:35:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	066749-2567_Transmittal.pdf	79572	no	2
			0f305997afc113133b8e2759b77c2a6749adcd07		

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	066749-2567_SB08.pdf	103489 99d6032033e40bbbac25229cd9ca03a2c446a97d	no	1
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Other Reference-Patent/App/Search documents	ISR_WO.pdf	4774679 26963eccc5893b0f50d3156f3ee4f301312a58d	no	13
Warnings:					
Information:					
Total Files Size (in bytes):			4957740		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation

Title: Tool Attachment System

Appl. No.: 16/800,336

Filing Date: February 25, 2020

Examiner: To Be Determined

Art Unit: 3734

Confirmation Number: 3982

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Submitted herewith on Form PTO/SB/08 is a listing of the documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR § 1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR § 1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b)(3), before the mailing date of the first Office action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 18-0882.

Respectfully submitted,

Date June 24, 2020

By /Brad G. Jubber/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8350
Facsimile: (414) 298-8097

Brad G. Jubber
Attorney for Applicant
Registration No. 68,946



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
16/800,336	02/25/2020	Aaron S. Blumenthal	066749-2567

CONFIRMATION NO. 3982

PUBLICATION NOTICE



0000000119192500

142078
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

Title:Tool Attachment System

Publication No.US-2020-0253365-A1

Publication Date:08/13/2020

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation

Title: Tool Attachment System

Appl. No.: 16/800,336

Filing Date: February 25, 2020

Examiner: NASH, BRIAN D.

Art Unit: 3734

Conf. No.: 3982

TRANSMITTAL OF UPDATED APPLICATION DATA SHEET

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

Kindly amend the Applicant Information for Inventor 1, as shown below and in the attached annotated Application Data Sheet in compliance with 37 C.F.R. §1.76(c):

Status:	Full Capacity
Given Name:	Aaron S.
Family Name:	Blumenthal
City of Residence:	~~Wauwatosa~~ <u>Shorewood</u>
State or Province of Residence:	Wisconsin
Country of Residence:	US
Street of mailing address:	~~2624 North 62nd Street~~ <u>4443 N. Woodburn Street</u>
City of mailing address:	~~Wauwatosa~~ <u>Shorewood</u>
State or Province of mailing address:	Wisconsin
Country of mailing address:	US
Postal or Zip Code of mailing address:	~~53213~~ <u>53211</u>

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 18-0882.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date: January 13, 2021

By: /Derek H. Campbell/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8374
Facsimile: (414) 298-8097

Derek H. Campbell
Attorney for Applicant
Registration No. 70,608

Electronic Acknowledgement Receipt

EFS ID:	41631422
Application Number:	16800336
International Application Number:	
Confirmation Number:	3982
Title of Invention:	Tool Attachment System
First Named Inventor/Applicant Name:	Aaron S. Blumenthal
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2567
Receipt Date:	13-JAN-2021
Filing Date:	25-FEB-2020
Time Stamp:	14:32:34
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	Oath or Declaration filed	066749-2567_Declaration-EXECUTED.pdf	1719102 d56994aa0792957952b53479dd2c2667e5c7c6b8	no	5

Warnings:

Information:					
2	Application Data Sheet	066749-2567_ADS.pdf	94674	no	4
			0159a52ef364c0be6c729f48cac45637d9a30c00		
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Transmittal Letter	066749-2567_ADS_Transmittal.pdf	129869	no	2
			a4f8817d6d5e24f6c93655c0387aff4c0cf8bd3b		
Warnings:					
Information:					
Total Files Size (in bytes):			1943645		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below next to my name;

THAT I believe I am the original inventor or an original joint inventor of a claimed invention in the application identified below

TOOL ATTACHMENT SYSTEM

(Attorney Docket No. 066749-2568)

the specification of which (check one)

 is attached hereto.

 X was filed on February 11, 2020 as PCT International Application Number PCT/US2020/017742.

THAT the above-identified application was made or authorized by me;

THAT I do not know and do not believe that the same invention was invented by another and was patented, described in any printed publication, in public use, on sale or otherwise available to the public in any country, prior to the effective filing date of this United States application or before I (we) had publicly disclosed the invention (if applicable);

THAT I do not know and do not believe that the same invention was patented, described in any printed publication, in public use, on sale or otherwise available to the public in any country, for more than one year prior to the effective filing date of this United States application;

THAT I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above;

THAT I believe that the above-identified specification contains a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date
62/804,547	February 12, 2019

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Application Number	Parent Filing Date	Parent Patent Number

I HEREBY APPOINT the registered attorneys and agents at Customer Number

142078

to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith.

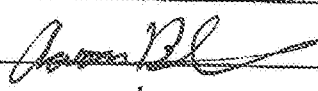
I request that all correspondence be directed to:

James D. Borchardt
Reinhart Boerner Van Deuren s.c.
Customer Number: 142078

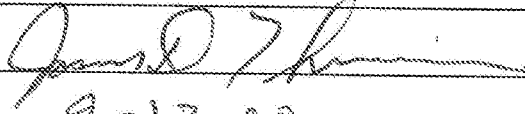
Telephone: (414) 298-8160
Facsimile: (414) 298-8097

I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I HEREBY ACKNOWLEDGE THAT any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Name of first inventor	Aaron S. Blumenthal
Residence	Wauwatosa, Wisconsin
Citizenship Country	U.S.
Post Office Address	2624 North 62nd Street, Wauwatosa, Wisconsin 53213
Inventor's signature	
Date	6 Oct 2020

4443 N
Woodlawn, Greenwood
WI, 53211

Name of second inventor	Jason D. Thurner
Residence	Menomonee Falls, Wisconsin
Citizenship Country	U.S.
Post Office Address	N87W15705 Belleview Blvd., Menomonee Falls, Wisconsin 53051
Inventor's signature	
Date	9-23-20

Name of third inventor	Christopher S. Hoppe
Residence	Milwaukee, Wisconsin
Citizenship Country	U.S.
Post Office Address	3126 South Burrell Street, Milwaukee, Wisconsin 53207
Inventor's signature	<u>Christopher Hoppe</u> Christopher Hoppe (Oct 20, 2020 12:23 CDT)
Date	2020-10-20

Updated Application Data Sheet

Application Information

Application Number:	~~To Be Determined~~ <u>16/800,336</u>
<u>Filing Date:</u>	<u>February 25, 2020</u>
Application Type:	Nonprovisional
Subject Matter:	Utility
CD-ROM or CD-R:	None
Computer Readable Form (CRF):	No
Title:	Tool Attachment System
Attorney Docket Number:	066749-2567
Request for Early Publication:	No
Request for Non-Publication:	No
Suggested Drawing Figure:	1
Total Drawing Sheets:	8
Small Entity:	No
Petition included:	No
Secrecy Order in Parent Appl.:	No

Inventor Information

Status:	Full Capacity
Given Name:	Aaron S.
Family Name:	Blumenthal
City of Residence:	~~Wauwatosa~~ <u>Shorewood</u>
State or Province of Residence:	Wisconsin
Country of Residence:	US
Street of mailing address:	~~2624 North 62nd Street~~ <u>4443 N. Woodburn Street</u>
City of mailing address:	~~Wauwatosa~~ <u>Shorewood</u>

State or Province of mailing address: Wisconsin
Country of mailing address: US
Postal or Zip Code of mailing address: ~~53243~~ 53211

Status: Full Capacity
Given Name: Jason D.
Family Name: Thurner
City of Residence: Menomonee Falls
State or Province of Residence: Wisconsin
Country of Residence: US
Street of mailing address: N87W15705 Belleview Blvd.
City of mailing address: Menomonee Falls
State or Province of mailing address: Wisconsin
Country of mailing address: US
Postal or Zip Code of mailing address: 53051

Status: Full Capacity
Given Name: Christopher S.
Family Name: Hoppe
City of Residence: Milwaukee
State or Province of Residence: Wisconsin
Country of Residence: US
Street of mailing address: 3126 South Burrell Street
City of mailing address: Milwaukee
State or Province of mailing address: Wisconsin

Country of mailing address: US
Postal or Zip Code of mailing address: 53207

Correspondence Information

Correspondence Customer Number: 142078
E-Mail address: ipadmin@reinhartlaw.com

Representative Information

Representative Customer Number:	142078	
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Domestic Priority Information

Application:	Continuity Type:	Prior Application No.:	Parent Filing Date:	Prior Application Status:	Patent No.:
This Application	Is a continuation of	PCT/US2020 /017742	February 11, 2020	Pending	N/A
PCT/US2020 /017742	Claims the benefit under 35 U.S.C. 119(e)	62/804,547	February 12, 2019	Expired	N/A

Foreign Priority Information

Country:	Application number:	Filing Date:	Priority Claimed:
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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Applicant Information

Applicant 1:

☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Person to whom the inventor is obligated to assign	☐ Person who shows sufficient proprietary interest
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Assignee is an Organization check here ☒			

Organization Name:	Milwaukee Electric Tool Corporation
13135 West Lisbon Road Brookfield, Wisconsin 53005	

Signature:	/Derek H. Campbell/	Date:	January 13, 2021
First Name:	Derek H.	Last Name:	Campbell
Registration No.:	70,608		



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/800,336	02/25/2020	Aaron S. Blumenthal	066749-2567	3982
142078	7590	09/14/2021		
Reinhart (Milwaukee Tool)			EXAMINER	
ATTN: TRAVIS MCDONNELL, PARALEGAL			NASH, BRIAN D	
1000 NORTH WATER STREET				
SUITE 2100			ART UNIT	PAPER NUMBER
MILWAUKEE, WI 53202			3734	
			NOTIFICATION DATE	DELIVERY MODE
			09/14/2021	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):

IPAdmin@reinhartlaw.com

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Examiner's Comments

The Examiner notes that the office action below may reference support found in the cited prior art by indicating element numbers, figures or by pointing out a specific paragraph (PAR) number in which support can be found. The PAR number referenced corresponds to paragraph number beginning in the "Detailed Description" of the disclosure unless otherwise noted. The pending claims are 1-20.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

Claims 1-4, are rejected under 35 U.S.C. 102(a)(1) as being anticipated by US 6,161,741 to French.

With regard to claim 1, a tool attachment system, comprising: a receiver (18) configured to attach to a tool belt (14 via 20); a tool attachment device (10) comprising a locking mechanism (40, 42, 68), the tool attachment device removably coupled to the receiver, wherein the locking mechanism locks the tool attachment device to the receiver when the locking mechanism is in a locked position (PAR 6-7); and an actuator

(button 64) coupled to the tool attachment device, wherein, when a force is applied to the actuator, the actuator causes the locking mechanism to move to an unlocked position, and the force causes the tool attachment device to disengage from the receiver (PAR 8, figs. 4A-C).

With regard to claim 2, further comprising a disk (48) and a locking pin (56) on the tool attachment device (10) that are received in a channel defined within the receiver (48 received in channel defined between surfaces 74 and 76, PAR 6).

With regard to claim 3, wherein the tool attachment device (10) is pivotally coupled to the receiver (18) and rotates relative to the receiver about an axis that is perpendicular to a front face of a channel of the receiver (fig. 1, PAR 7-9).

With regard to claim 4, wherein the tool attachment system has a low profile having a width measured from a tool belt to a button of the actuator that is less than 1 inch (figs. 4-5 show the system to have a low profile not more than an inch).

Allowable Subject Matter

Claims 5-9, are objected to as being dependent upon a rejected base claim, but appear to be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 10-20 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Refer to attachment (PTO-892) for notice of references cited and recommended for consideration based on their disclosure of limitations of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Nash whose telephone number is 571-272-4465. The examiner can normally be reached on Monday – Friday from 11 a.m. to 7 p.m. EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Newhouse can be reached at 571-272-4544. The official fax number for this Group is: 571-273-8300; Inventor Assistance Center is 800-786-9199.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system; see www.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).

/BRIAN D NASH/
Primary Examiner, Art Unit 3734

9/9/2021

<i>Notice of References Cited</i>	Application/Control No. 16/800,336		Applicant(s)/Patent Under Reexamination Blumenthal et al.	
	Examiner BRIAN D NASH		Art Unit 3734	Page 1 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20100071168-A1	03-2010	Miller; David A.	A45F5/02	24/3.11
*	B	US-20070099469-A1	05-2007	Sorensen; Joseph	A45F5/02	439/289
*	C	US-11047644-B2	06-2021	Shearer; Jacob	F41C33/041	1/1
*	D	US-9664480-B2	05-2017	Faifer; Sagi	F41C33/045	1/1
*	E	US-8919623-B1	12-2014	Bergeron; Victor James	A45F5/021	224/148.4
*	F	US-8613564-B2	12-2013	Busch; Christopher	F41C33/007	403/322.1
*	G	US-8499986-B2	08-2013	Knight; Jonathan Arnold Manley	H04B1/385	224/197
*	H	US-8166694-B2	05-2012	Swan; Johnny E.	F41C33/007	42/90
*	I	US-8020821-B2	09-2011	Chen; Dong-Ying	G06F1/18	248/220.22
*	J	US-6955279-B1	10-2005	Mudd; John J.	A45F5/02	224/197
*	K	US-6880794-B1	04-2005	Kahn; Peter P.	A45F5/02	24/115R
*	L	US-6786372-B2	09-2004	Enkerlin; E. Michael	A45F5/02	224/196
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Notice of References Cited</i>	Application/Control No. 16/800,336		Applicant(s)/Patent Under Reexamination Blumenthal et al.	
	Examiner BRIAN D NASH		Art Unit 3734	Page 2 of 3

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*	B	US-6041444-A	03-2000	McKinney; John	A45F3/14	2/310
*	C	US-5850996-A	12-1998	Liang; Ying-Ping	H04M1/04	248/221.11
*	D	US-5779115-A	07-1998	Parkas; Tapio	H04B1/3833	224/269
*	E	US-5664292-A	09-1997	Chen; Tonny	A45F5/02	24/3.11
*	F	US-5622296-A	04-1997	Pirhonen; Ilkka	A45F5/02	224/197
*	G	US-5598958-A	02-1997	Ryan, III; Willis N.	F41C33/0245	224/198
*	H	US-5597102-A	01-1997	Saarikko; Anssi	H04B1/3822	224/197
*	I	US-5319349-A	06-1994	Smith, III; Frank E.	A45F5/02	24/11M
*	J	US-5201858-A	04-1993	Otrusina; Edward C.	A45F5/02	224/197
*	K	US-5054170-A	10-1991	Otrusina; Edward C.	A45F5/021	24/580.11
*	L	US-5014892-A	05-1991	Copeland; Anthony S.	A45F5/02	224/242
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FOREIGN PATENT DOCUMENTS

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	N					
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<i>Notice of References Cited</i>	Application/Control No. 16/800,336		Applicant(s)/Patent Under Reexamination Blumenthal et al.	
	Examiner BRIAN D NASH		Art Unit 3734	Page 3 of 3

U.S. PATENT DOCUMENTS						
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-4718586-A	01-1988	Hagino; Kiyohiko	A45F5/02	224/197
*	B	US-4419794-A	12-1983	Horton, Jr.; Harold O.	A45F5/02	224/197
*	C	US-2743894-A	05-1956	ARNE OSTNAS ANDERS KRISTOFFER	A45F5/02	248/317
	D					
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FOREIGN PATENT DOCUMENTS						
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	Q					
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*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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 Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Search Notes</i> 	Application/Control No. 16/800,336	Applicant(s)/Patent Under Reexamination Blumenthal et al.
	Examiner BRIAN D NASH	Art Unit 3734

CPC - Searched*		
Symbol	Date	Examiner
A45F 5/021, 2005/026, 2200/0575, 2200/0516; Y10T 24/1391; Y10S 24/60	09/10/2021	BN

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* 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
IDS, INVNTR SRCH, CPC (narrowed with text) - via EAST	09/10/2021	BN

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

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Bibliographic Data

Application No: 16/800,336

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged: /BRIAN D NASH/

/bn/

Examiner's Signature

Initials

Title: Tool Attachment System

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/25/2020	224	3734	066749-2567
RULE			

APPLICANTS

Milwaukee Electric Tool Corporation, Brookfield, WI,

INVENTORS

Aaron S. Blumenthal, Wauwatosa, WI, UNITED STATES

Jason D. Thurner, Menomonee Falls, WI, UNITED STATES

Christopher S. Hoppe, Milwaukee, WI, UNITED STATES

CONTINUING DATA

This application is a CON of PCT/US2020/017742 02/11/2020

PCT/US2020/017742 has PRO of 62804547 02/12/2019

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

03/10/2020

STATE OR COUNTRY

UNITED STATES

ADDRESS

Reinhart (Milwaukee Tool)

ATTN: TRAVIS MCDONNELL, PARALEGAL

1000 NORTH WATER STREET

SUITE 2100

MILWAUKEE, WI 53202

UNITED STATES

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: February 25, 2020 <i>(use as many sheets as necessary)</i>		Application Number	To be determined
		Filing Date	February 25, 2020
		First Named Inventor	Aaron S. Blumenthal
		Art Unit	To be determined
		Examiner Name	To be determined
Sheet	1	of	2
		Attorney Docket Number	066749-2567

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	2,990,987	07-04-1961	Handler et al.	
	A2	5,163,591	11-17-1992	Leiserson et al.	
	A3	5,983,686	11-16-1999	Lee	
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	A27	2019/0014893	01-17-2019	Record et al.	

Examiner Signature	/BRIAN D NASH/	Date Considered	09/09/2021
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		Application Number	To be determined		
		Filing Date	February 25, 2020		
		First Named Inventor	Aaron S. Blumenthal		
		Art Unit	To be determined		
Examiner Name	To be determined				
Sheet	2	of	2	Attorney Docket Number	066749-2567

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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 Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	A28	DE102010046583	05-05-2011	SPIELBERGER		
	A29	DE3027550	03-11-1982	RICHARD KROPAC LEDERWARENFABRI		
	A30	DE7810070	07-20-1978	CARL HEPTING & CO, LEDERWAREN- UND GUERTELFABRIK		
	A31	DE8810011	09-22-1988	ALBRECHT KIND GMBH & CO		

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 ⁶
	A32	Spider Holster SpiderPro Dual Camera System (DCS), Amazon.com, https://www.amazon.com/exec/obidos/ASIN/B004TGP0DS/ezvid02-20 , believed to be commercially available as early as May 2011, 12 pages.	

Examiner Signature	/BRIAN D NASH/	Date Considered	09/09/2021
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	39	(US-20110019081-\$ or US-20140291362-\$ or US-20170122701-\$ or US-20070099469-\$ or US-20100071168-\$).did. or (US-6041444-\$ or US-6719178-\$ or US-6098858-\$ or US-5201858-\$ or US-5597102-\$ or US-5622296-\$ or US-5779115-\$ or US-5850996-\$ or US-6626336-\$ or US-6786372-\$ or US-6955279-\$ or US-8919623-\$ or US-11047644-\$ or US-6161741-\$ or US-4419794-\$ or US-4718586-\$ or US-4721276-\$ or US-5054170-\$ or US-5598958-\$ or US-6669155-\$ or US-8166694-\$ or US-9664480-\$ or US-9101198-\$ or US-9780583-\$ or US-10271634-\$ or US-5014892-\$).did. or (US-6880794-\$ or US-8020821-\$ or US-8499986-\$ or US-8613564-\$ or US-5664292-\$ or US-5319349-\$).did. or (US-2743894-\$).did. or (US-20150076192-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2021/09/09 22:11
L2	5,470	a45f2200/0516.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:17
L3	604	y10t24/1391.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:17
L4	315	y10s24/60.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:17
L5	1	2 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2021/09/09 22:18

			JPO; DERWENT			
L6	1	3 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:18
L7	0	4 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:18
L8	1	4 and device and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:18
L9	39	(US-20110019081-\$ or US-20140291362-\$ or US-20170122701-\$ or US-20070099469-\$ or US-20100071168-\$).did. or (US-6041444-\$ or US-6719178-\$ or US-6098858-\$ or US-5201858-\$ or US-5597102-\$ or US-5622296-\$ or US-5779115-\$ or US-5850996-\$ or US-6626336-\$ or US-6786372-\$ or US-6955279-\$ or US-8919623-\$ or US-11047644-\$ or US-6161741-\$ or US-4419794-\$ or US-4718586-\$ or US-4721276-\$ or US-5054170-\$ or US-5598958-\$ or US-6669155-\$ or US-8166694-\$ or US-9664480-\$ or US-9101198-\$ or US-9780583-\$ or US-10271634-\$ or US-5014892-\$).did. or (US-6880794-\$ or US-8020821-\$ or US-8499986-\$ or US-8613564-\$ or US-5664292-\$ or US-5319349-\$).did. or (US-2743894-\$).did. or (US-20150076192-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2021/09/10 00:29
L10	31	(US-20180331708-\$ or US-20170235211-\$ or US-20170122701-\$ or US-20140291362-\$ or US-20130008933-\$ or US-20110142436-\$ or US-20110019081-\$ or US-20090095785-\$ or US-20080083803-\$ or US-20060104735-\$ or US-20050258204-\$).did. or (US-10271634-\$ or US-9780583-\$ or US-9657893-\$ or US-D741161-\$ or US-9101198-\$ or US-	US-PGPUB; USPAT	OR	OFF	2021/09/10 00:29

		7699197-\$ or US-7690541-\$ or US-7686196-\$ or US-6685067-\$ or US-6626336-\$ or US-6439017-\$ or US-6290534-\$ or US-6279362-\$ or US-6193546-\$ or US-6161741-\$ or US-6098858-\$ or US-5983686-\$ or US-5163591-\$ or US-2990987-\$ or US-0000002-\$).did.				
L11	30	9 not 10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/10 00:29
S1	7	("20020043545" "20020153400" "20040048639" "20040180631" "20050127123" "20090023484" "20090050658").PN.	US-PGPUB; USPAT	OR	OFF	2014/02/09 22:41
S2	1	("20120248160").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 22:41
S3	97	224/220.ccls.	US-PGPUB; USPAT	OR	OFF	2014/02/09 22:43
S4	41	224/610,194,257.ccls. and (transparent or translucent)	US-PGPUB; USPAT	OR	OFF	2014/02/09 23:21
S5	38	("2159995" "2755837" "3078897" "3521689" "3545659" "3818963" "3874435" "3945415" "4068786").PN. OR ("4236559").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 23:39
S6	41	("0882178" "1188955" "1779207" "2295143" "2618086" "2897865" "3361312" "3469768" "4037633" "4069955" "4088136" "4315641" "4347956" "4411267" "4416315" "4420078" "4637535" "4674664" "4793486" "4872599" "5116306" "5121864" "5244136" "5255833" "5392973" "D358475").PN. OR ("5524802").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 23:41
S7	36	("3829995" "3999317" "4194655" "4492390" "4570688" "4687036" "4744497" "4890728" "5059052" "5285833" "5388739" "5678620" "5784816" "5829657" "6170087" "D205948" "D261077" "D380606" "D463665").PN. OR ("6681972").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 23:43
S8	27	("20010054245" "20020108284" "20030188815" "20030201293" "20040040194" "2544618" "3657834"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 23:45

		"3999317" "4416315" "4815510" "4937963" "5178311" "5217056" "6073378" "6108957" "6681972" "D479647").PN. OR ("6862827").URPN.				
S9	4,618	455/575.1,575.6.ccls.	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:45
S10	4	455/575.1,575.6.ccls. and ((bag or pouch) same (transparent or translucent))	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:46
S11	11,448	((bag or pouch) same (transparent or translucent))	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:47
S12	7,296	((bag or pouch) same (transparent or translucent)) and (phone or device)	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:47
S13	2,278	((bag or pouch) same (transparent or translucent)) and (phone or electronic)	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:47
S14	47	"224"/\$.ccls. and ((bag or pouch) same (transparent or translucent)) and (phone or electronic)	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:47
S15	52	"455"/\$.ccls. and ((bag or pouch) same (transparent or translucent)) and (phone or electronic)	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:48
S16	99	S14 S15	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:48
S17	42	("20020090980" "20020151327" "20040233930" "20040268005" "20050020327" "20050159184" "20060003804" "20060105722" "20060190321" "20060241353" "20070004450" "20070018957" "20070079030" "20070161404" "20070288583" "20080009325" "20080040354" "20080140886" "20090111540" "5625673" "5628055" "5809115" "5893037" "5907815" "6188917" "6201867" "6243578" "6477357" "6516202" "6640113" "6690947" "6898283" "6907264" "6999792" "7085542" "7149557" "7194285" "7266391" "7463247" "7477919" "7515937" "8175656").PN. OR ("8406826").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/10 09:51
S18	21	(US-20020153400-\$ or US- 20040048639-\$ or US-20090023484-\$ or US-20020053585-\$ or US- 20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US- 20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-	US-PGPUB; USPAT	OR	OFF	2014/02/10 11:23

		20090057357-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$).did.				
S19	7	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$).did.	US-PGPUB	OR	OFF	2014/02/10 11:23
S20	18	S18 not S19	US-PGPUB; USPAT	OR	OFF	2014/02/10 11:24
S21	113	224/645,650.ccls. and (clip or attach)	US-PGPUB; USPAT	OR	OFF	2014/04/07 12:58
S22	26	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$).did.	US-PGPUB; USPAT	OR	OFF	2014/04/07 12:58
S23	1,442	"224"/\$.ccls. and ((phone or device) same clip)	US-PGPUB; USPAT	OR	OFF	2014/04/07 13:00
S24	926	"224"/\$.ccls. and ((phone or device) same clip) and belt	US-PGPUB; USPAT	OR	OFF	2014/04/07 13:00
S25	100	"224"/\$.ccls. and (backpack same clip) and belt	US-PGPUB; USPAT	OR	OFF	2014/04/07 13:29
S26	3	("20040144481" "20050022286" "6286736").PN.	US-PGPUB; USPAT	OR	OFF	2014/04/07 13:30
S27	39	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$	US-PGPUB; USPAT	OR	OFF	2014/04/11 14:01

		or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$).did.				
S28	523	224/148.4	US-PGPUB; USPAT	OR	OFF	2014/04/11 15:23
S29	568	224/148.4,158,159.ccls.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:57
S30	7	((Melissa) near2 (Rogers)).INV.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:58
S31	6	((Billy) near2 (McDonald)).INV.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:58
S32	104	((Donald) near2 (Rogers)).INV.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:59
S33	19	((Mark) near2 (Gabriel)).INV.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:59
S34	134	S30 S31 S32 S33	US-PGPUB; USPAT	OR	OFF	2014/04/11 17:00
S35	43	("2128554" "2508918" "2883523" "3049711" "3577196" "3631994" "3721989").PN. OR ("3956701").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/11 17:27
S36	94	("0690277" "1423590" "2637885" "3170209").PN. OR ("4419794").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/11 17:28
S37	61	("4419794" "4897900" "5014892" "5054170" "5375749" "5584423" "5597102").PN. OR ("5850996").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/11 17:37
S38	1,874	"224"/\$.ccls. and (beverage or can or sleeve) and lock and release	US-PGPUB; USPAT	OR	OFF	2014/04/11 23:11
S39	1,855	"224"/\$.ccls. and (beverage or can) and lock and release	US-PGPUB; USPAT	OR	OFF	2014/04/11 23:12
S40	1,322	"224"/\$.ccls. and (beverage or can) and lock and release and member	US-PGPUB; USPAT	OR	OFF	2014/04/11 23:12
S41	138	"224"/\$.ccls. and (beverage or can) and lock and release and member and automatic	US-PGPUB; USPAT	OR	OFF	2014/04/11 23:12

S42	60	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$).did.	US-PGPUB; USPAT	OR	OFF	2014/12/13 22:40
S43	1	("20140339274").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:40
S44	56	("1164928" "3160158" "3543977" "3747171" "4135653" "4414969" "4420104" "4432477" "4500019" "4509667" "4690316" "4715364" "4728123" "4733808" "4771927" "4848624" "4856149" "4862563" "4958758" "4991234" "5014692" "5033142" "5154506" "5187744" "5214874" "5221031" "5253292").PN. OR ("5433359").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:48
S45	38	("1605195" "3543976" "3600734" "4762257" "4796790" "5427291" "5622346" "5664712" "5806730"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:49

		"5820000" "5855306" "6029870").PN. OR ("6131780").URPN.				
S46	39	("20010008075" "20020005418" "20020046984" "20050115996" "20060163301" "20060289713" "2457195" "3543976" "3698042" "4096977" "4564957" "4964419" "5147079" "5161351" "5397039" "5413261" "5427291" "5464183" "5823486" "5855306" "5992715" "6029870" "6032841" "6036066" "6131780" "6264153" "6327751" "6533148" "6606768" "7204468" "D388604" "D413984").PN. OR ("D625512").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:51
S47	30	("20020084240" "20030111496" "20050035080" "2317820" "3192555" "4770305" "4815999" "5301857" "5573152" "5593074" "5613657" "5636740" "5695232" "5944238" "5954247" "6019335" "6029870" "6131779" "6131780" "6533148" "6550271" "6626333" "6695371" "6837472" "D347734" "D419880" "D474938" "D491465").PN. OR ("8272545").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:53
S48	26	("20020195472" "20080209698" "20100071168" "20110076095" "20110083353" "20120030986" "20120174286" "5201858" "5642847" "5669170" "5673836" "5718363" "5730342" "5850996" "5991925" "6266910" "6325258" "6363532" "6517133" "6736136" "6824028" "7841496" "8166694" "D562549" "D577093").PN. OR ("8613564").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 23:00
S49	107	"224"/\$.ccls. and rubber and (cord or tubing) and bottle	US-PGPUB; USPAT	OR	OFF	2014/12/13 23:40
S50	7	"224"/\$.ccls. and (water with bottle) and ((latex or rubber) with tubing)	US-PGPUB; USPAT	OR	OFF	2014/12/14 16:52
S51	205	(water with bottle) and ((latex or rubber) with tubing)	US-PGPUB; USPAT	OR	OFF	2014/12/14 16:53
S52	4	("20110315734" "20170332771" "8485406" "9392863").PN.	US-PGPUB; USPAT	OR	ON	2018/06/25 07:55
S53	47	("0551359" "1816284" "20070205244" "20080121673" "20090127304" "3127076" "3813017" "4057757" "4399934" "4420104" "4982885" "5104076" "5147079"	US-PGPUB; USPAT; USOCR	OR	ON	2018/06/25 07:56

		"5184762" "5535928" "5622346" "5806730" "6056174" "6076789" "6081695" "6321958" "6412674" "6533150" "7640632" "8162285" "8573458" "D275815" "D281830" "D347522" "D419392" "D467069" "D490237" "D517314" "D540031" "D547618" "D654265" "D737569" "D738104" "D739137" "D739138" "D744747" "D750369" "D750376" "D752858").PN. OR ("9392863").URPN.				
S54	78	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20030127478-\$ or US-20050227833-\$).did. or (US-20080081747-\$ or US-20140339274-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$ or US-5427291-\$ or US-5664712-\$ or US-6029870-\$ or US-D625512-\$ or US-8272545-\$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2018/06/25 07:58

		6327751-\$ or US-6533148-\$ or US-5954247-\$ or US-6695371-\$ or US-5427259-\$ or US-6443338-\$).did. or (US-2457195-\$).did.				
S55	22	(US-20080121673-\$ or US-20090127304-\$ or US-20020053585-\$ or US-20030111496-\$ or US-20060163301-\$).did. or (US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-6321958-\$ or US-D490237-\$ or US-8573458-\$ or US-5427291-\$ or US-5433359-\$ or US-5664712-\$ or US-6029870-\$ or US-6131780-\$ or US-6443338-\$ or US-D625512-\$).did. or (US-0551359-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2018/06/25 12:26
S56	4	(US-20170332771-\$ or US-20110315734-\$).did. or (US-9392863-\$ or US-8485406-\$).did.	US-PGPUB; USPAT	OR	ON	2018/06/25 12:26
S57	21	S55 not S56	US-PGPUB; USPAT	OR	ON	2018/06/25 12:26
S58	22	(US-20080121673-\$ or US-20090127304-\$ or US-20020053585-\$ or US-20030111496-\$ or US-20060163301-\$).did. or (US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-6321958-\$ or US-D490237-\$ or US-8573458-\$ or US-5427291-\$ or US-5433359-\$ or US-5664712-\$ or US-6029870-\$ or US-6131780-\$ or US-6443338-\$ or US-D625512-\$).did. or (US-0551359-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 11:23
S59	3,719	(a45f5/02 or a45f5/021 or a45f5/10 or a45f2005/006 or a45f2005/008).cpc.	USPAT; EPO	OR	OFF	2018/12/27 11:27
S60	1,684	S59 and belt	USPAT; EPO	OR	OFF	2018/12/27 11:27
S61	850	S59 and belt and strap	USPAT; EPO	OR	OFF	2018/12/27 11:27
S62	438	S59 and belt and strap and fastener	USPAT; EPO	OR	OFF	2018/12/27 11:27
S63	22	("2092222" "2346185" "2756913" "4479596" "4588116" "4907729" "4932576" "5392975" "5443192" "5540368" "5855307" "D280357").PN. OR ("6196431").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 12:58

S64	57	("4479596" "4573573" "4771927" "5535928" "5833100" "6182878" "6330430" "D345646" "D345647" "D377117" "D416132").PN. OR ("6568576").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 12:59
S65	53	("1900490" "2663877" "2819650" "3073367" "3106717" "3751732" "3848270" "3908875" "3920166" "3977638" "4024608" "4058853" "4063313" "4126902" "4136934" "4151936" "4320863" "4404689" "4446997" "4471509" "4697288" "4710983" "5033127" "5299682" "5358159" "5409151" "5460308" "5465466" "5680679" "5819320" "5878443" "5970526" "5974591" "6230331" "6311336" "6339848" "6378746" "6449775").PN. OR ("6647555").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:01
S66	62	("2567602" "4479596" "4771927" "4800592" "4951817" "5009346" "5064109" "5217294" "5503316" "5535928" "5816459" "6081695" "D329750" "D329945" "D371137" "D373241" "D374768" "D377117" "D389641" "D398777" "D406695" "D419290" "D420506" "D437111").PN. OR ("6880737").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:04
S67	10	("20050067319" "20070084976" "6186321" "7207539" "D555351").PN. OR ("7843432").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:06
S68	70	("0842498" "20060206986" "2343142" "4668202" "4712646" "5259093" "5724707" "6108816" "6279804" "6371346" "6431420" "6582267" "7047570" "7080430" "7200871" "7240404").PN. OR ("8002159").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:07
S69	73	("0551359" "1816284" "20070205244" "20080121673" "20090127304" "20130119098" "3127076" "3813017" "4057757" "4399934" "4420104" "4982885" "5104076" "5147079" "5184762" "5535928" "5622346" "5806730" "6056174" "6076789" "6081695" "6321958" "6412674" "6533150" "7640632" "8162285" "D275815" "D281830" "D347522" "D419392" "D467069" "D490237" "D517314"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:11

		"D540031" "D547618" "D654265").PN. OR ("8573458").URPN.				
S70	55	("0272067" "0738462" "2530695" "3087277" "3377007" "3813017" "3960302" "4114838" "4337938" "4496088" "4815172").PN. OR ("4982885").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:12
S71	47	("2539698" "3977638" "4315641" "4537341" "4564957" "4630793" "4858249" "4865239" "4982885" "5044538" "5397039" "5460308" "5582335" "5662252" "5666701" "5715571" "5873551" "5957515" "D337133" "D426699").PN. OR ("6606768").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:14
S72	39	("1648565" "3148812" "4174793" "4214686" "4356943" "5103884" "5392974" "5533656" "5964386" "D266202" "D323744" "D410331").PN. OR ("6321958").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:20
S73	25	(US-4022361-\$ or US-4801059-\$ or US- 5443192-\$ or US-5964386-\$ or US- 5979851-\$ or US-6029870-\$ or US- 6065659-\$ or US-6196431-\$ or US- 6568576-\$ or US-6647555-\$ or US- 6880737-\$ or US-7843432-\$ or US- 8002159-\$ or US-8573458-\$ or US- 5460308-\$ or US-4982885-\$ or US- 0738462-\$ or US-6606768-\$ or US- 4315641-\$ or US-D625512-\$ or US- 5806730-\$ or US-6321958-\$ or US- 4174793-\$).did. or (US-0551359-\$ or US-3148812-\$).did.	USPAT; USOCR	OR	OFF	2018/12/27 16:42
S74	4	(US-20170332771-\$ or US- 20110315734-\$).did. or (US-9392863-\$ or US-8485406-\$).did.	US-PGPUB; USPAT	OR	OFF	2018/12/27 16:42
S75	21	(US-20090127304-\$ or US- 20080121673-\$ or US-20060163301-\$ or US-20030111496-\$ or US- 20020053585-\$).did. or (US-8573458-\$ or US-D625512-\$ or US-D490237-\$ or US-6443338-\$ or US-6321958-\$ or US- 6131780-\$ or US-6076789-\$ or US- 6029870-\$ or US-5664712-\$ or US- 5622346-\$ or US-5535928-\$ or US- 5433359-\$ or US-5427291-\$ or US- 5147079-\$ or US-D281830-\$ or US- 4420104-\$).did.	US-PGPUB; USPAT	OR	OFF	2018/12/27 16:42
S76	18	S74 S75	USPAT; EPO	OR	OFF	2018/12/27 16:42

S77	19	S73 not S76	USPAT; EPO	OR	OFF	2018/12/27 16:42
S78	13	("20060032996" "20110011910" "20120018471" "20120068504" "20140151418" "7070237" "7201443" "7364230" "7658153" "8136777" "8561863" "8733831" "9010597").PN.	US-PGPUB; USPAT	OR	OFF	2018/12/30 13:15
S79	114	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20030127478-\$ or US-20050227833-\$).did. or (US-20080081747-\$ or US-20140339274-\$ or US-20170332771-\$ or US-20110315734-\$ or US-20080121673-\$ or US-20090127304-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$ or US-5427291-\$ or US-5664712-\$ or US-6029870-\$ or US-D625512-\$ or US-8272545-\$ or US-6327751-\$ or US-6533148-\$ or US-5954247-\$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 18:58

		6695371-\$ or US-5427259-\$ or US-6443338-\$ or US-4022361-\$ or US-4801059-\$ or US-5443192-\$ or US-5964386-\$).did. or (US-5979851-\$ or US-6065659-\$ or US-6196431-\$ or US-6568576-\$ or US-6647555-\$ or US-6880737-\$ or US-7843432-\$ or US-8002159-\$ or US-8573458-\$ or US-5460308-\$ or US-4982885-\$ or US-0738462-\$ or US-6606768-\$ or US-4315641-\$ or US-5806730-\$ or US-6321958-\$ or US-4174793-\$ or US-9392863-\$ or US-8485406-\$ or US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-D490237-\$).did. or (US-2457195-\$ or US-0551359-\$ or US-3148812-\$).did.				
S80	79	("0551359" "1816284" "20070205244" "20080121673" "20090127304" "20130119098" "3127076" "3813017" "4057757" "4399934" "4420104" "4982885" "5104076" "5147079" "5184762" "5535928" "5622346" "5806730" "6056174" "6076789" "6081695" "6321958" "6412674" "6533150" "7640632" "8162285" "D275815" "D281830" "D347522" "D419392" "D467069" "D490237" "D517314" "D540031" "D547618" "D654265").PN. OR ("8573458").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:01
S81	151	(belt same adjustable) and pocket and speaker and (power or battery)	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 19:04
S82	20	("20080179478" "20110248060" "20130181584" "20130288743" "20130329115" "20130334072" "20140171150" "20150038200" "6557437" "7422379" "8128295" "8246001" "8382059" "8531834").PN. OR ("9402016").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:22
S83	48	("0551359" "1816284" "20070205244" "20080121673" "20090127304" "3127076" "3813017" "4057757" "4399934" "4420104" "4982885" "5104076" "5147079" "5184762" "5535928" "5622346" "5806730" "6056174" "6076789" "6081695" "6321958" "6412674" "6533150" "7640632" "8162285" "8573458" "D275815" "D281830"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:22

		"D347522" "D419392" "D467069" "D490237" "D517314" "D540031" "D547618" "D654265" "D737569" "D738104" "D739137" "D739138" "D744747" "D750369" "D750376" "D752858").PN. OR ("9392863").URPN.				
S84	146	("3884403" "3919475" "4033488" "4051534" "4131919" "4446997" "4526308" "4536066" "4714184" "4837817" "5012335" "5146353" "5185667" "5262856" "5295089" "5396583" "5416310" "5436542" "5438362" "5467271" "5477331" "5486852" "5488409" "5510830" "5514861" "5524193" "5546145" "5550754" "5575443" "5583571" "5594498" "5604551" "5613032" "5678793" "5684514" "5692661" "5694474" "5713021" "5717814" "5717869" "5726660" "5729108" "5740037" "5742339" "5742517" "5749010" "5752113" "5768640" "5768648" "5796426" "5826206" "5886739" "5940004" "5982979" "6118925" "6160950" "6243725" "6351599" "6360234" "6377519").PN. OR ("6825875").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:23
S85	68	("4438772" "4798539" "4934998" "5109421").PN. OR ("5913834").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:23
S86	28	("2298600" "4073416" "4450495" "4569465" "4620653" "D278761").PN. OR ("4798539").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:25
S87	65	("3728664" "3943564" "3983483").PN. OR ("4450495").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:26
S88	1,341	(waist with belt) and (pocket or holder) and phone	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:28
S89	452	((waist with belt) same (pocket or holder)) and phone	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:28
S90	25	(US-20090127304-\$ or US- 20180249133-\$ or US-20140025140-\$ or US-20090274323-\$ or US- 20070009117-\$ or US-20110248060-\$ or US-20140124559-\$ or US- 20130276210-\$ or US-20130048687-\$ or US-20100299800-\$ or US- 20080190980-\$).did. or (US-9392863-\$	US-PGPUB; USPAT	OR	OFF	2019/06/18 20:01

		or US-5289960-\$ or US-9402016-\$ or US-6825875-\$ or US-5913834-\$ or US-4798539-\$ or US-6454789-\$ or US-8194891-\$ or US-4450495-\$ or US-5353975-\$ or US-4569465-\$ or US-7243824-\$ or US-8225973-\$ or US-6913176-\$).did.				
S91	449	(y10s224/93).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:03
S92	3,952	(a45f2003/144 or a45f2200/0516 or a45f5/021 or a45f2200/0508).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:04
S93	392	(a45f2003/144).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:04
S94	1,653	(a45f2200/0516).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:04
S95	2,497	(a45f5/021).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:05
S96	368	(a45f2200/0508).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:05
S97	136	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20030127478-\$ or US-20050227833-\$).did. or (US-20080081747-\$ or US-20140339274-\$ or US-20170332771-\$ or US-20110315734-\$ or US-20080121673-\$ or US-20090127304-\$ or US-20180249133-\$ or US-20140025140-\$ or US-20090274323-\$ or US-20070009117-\$ or US-20110248060-\$ or US-20140124559-\$ or US-20130276210-\$ or US-20130048687-\$ or US-20100299800-\$ or US-20080190980-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 17:02

		6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$ or US-5427291-\$ or US-5664712-\$ or US-6029870-\$ or US-D625512-\$ or US-8272545-\$ or US-6327751-\$ or US-6533148-\$ or US-5954247-\$ or US-6695371-\$ or US-5427259-\$ or US-6443338-\$ or US-4022361-\$ or US-4801059-\$ or US-5443192-\$ or US-5964386-\$).did. or (US-5979851-\$ or US-6065659-\$ or US-6196431-\$ or US-6568576-\$ or US-6647555-\$ or US-6880737-\$ or US-7843432-\$ or US-8002159-\$ or US-8573458-\$ or US-5460308-\$ or US-4982885-\$ or US-0738462-\$ or US-6606768-\$ or US-4315641-\$ or US-5806730-\$ or US-6321958-\$ or US-4174793-\$ or US-9392863-\$ or US-8485406-\$ or US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-D490237-\$ or US-9402016-\$).did. or (US-6825875-\$ or US-5913834-\$ or US-4798539-\$ or US-6454789-\$ or US-8194891-\$ or US-4450495-\$ or US-5353975-\$ or US-4569465-\$ or US-7243824-\$ or US-8225973-\$ or US-6913176-\$).did. or (US-2457195-\$ or US-0551359-\$ or US-3148812-\$).did.				
S98	2	("10018447" "2893615").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:43
S99	17	belt and (tool with caddy) and pocket and sleeve	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:45
S100	582	belt and waist and tool and pocket and sleeve	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:46

S101	881	((("Evans") near3 ("Richard"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 17:49
S102	881	((("Evans") near3 ("Richard"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 17:49
S103	109	S102 and tool	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:49
S104	5	S102 and waist	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:51
S105	5,623	(a45f5/00 or a45f3/00 or a45f3/02 or b65d33/10).cpc.	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:53
S106	194	S105 and tool and waist and pocket	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:54
S107	12	(US-20160120293-\$ or US-20160101646-\$ or US-20150237992-\$ or US-20080179368-\$ or US-20070241158-\$ or US-20020145027-\$).did. or (US-10018447-\$ or US-9326555-\$ or US-6390348-\$ or US-5988315-\$ or US-5833095-\$ or US-5511703-\$).did.	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:57
S108	2,725	(a45f5/021 or y10s224/904).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 18:42
S109	208	S108 and tool and waist and pocket	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 18:42
S110	22	("20020185509" "20030111497" "20040195280" "20110259891" "20120037634" "20140061275" "20150250296" "20150305478" "20160101646" "4325503" "4363433" "4433801" "5489051" "5490618" "5497921" "6006966" "6045017" "6283345" "6719178" "8418309").PN. OR ("9463662").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 20:32
S111	1	window and wash and caddy and hinge	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 20:59
S112	4,120	window and wash and tool and hinge	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 20:59
S113	86	(window same wash) and tool and hinge	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 21:00
S114	20	(US-20160120293-\$ or US-20160101646-\$ or US-20150237992-\$ or US-20080179368-\$ or US-20070241158-\$ or US-20020145027-\$ or US-20150014382-\$ or US-20140361063-\$ or US-20090095751-\$	US-PGPUB; USPAT	OR	OFF	2019/09/27 00:00

		or US-20080093406-\$ or US-20020014507-\$).did. or (US-10018447-\$ or US-9326555-\$ or US-6390348-\$ or US-5988315-\$ or US-5833095-\$ or US-5511703-\$ or US-9463662-\$ or US-6179185-\$ or US-5826762-\$).did.				
S115	2	(US-10018447-\$ or US-2893615-\$).did.	USPAT	OR	OFF	2019/09/27 00:00
S116	19	S114 not S115	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/27 00:00
S117	1	("20190322124").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 18:59
S118	7	("20020185509" "20040195280" "3493152" "4363433" "4746042" "5072868" "5489051").PN.	US-PGPUB; USPAT	OR	OFF	2020/03/21 21:11
S119	36	("0515899" "1238830" "2057828" "2140688" "3283971" "3997092" "Re11302").PN. OR ("4363433").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:52
S120	79	("1238830" "2863690" "2945614" "2985349" "3619817" "3887103" "3893725" "4145789" "4159838" "4172542" "4325503" "4363433" "4433801" "4527720" "4746042" "4797040" "4865282" "5005710" "5016791" "5085317").PN. OR ("5489051").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:54
S121	17	("20030024959" "20030089748" "4325503" "4363433" "4746042" "5400916" "5489051" "6006966" "6557738" "6719178" "6945440" "8281952" "8505788" "8783538" "8931669" "9463662").PN. OR ("9713374").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:55
S122	157	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:56

20060163301-\$ or US-20030111496-\$
or US-20030127478-\$ or US-
20050227833-\$).did. or (US-
20080081747-\$ or US-20140339274-\$
or US-20170332771-\$ or US-
20110315734-\$ or US-20080121673-\$
or US-20090127304-\$ or US-
20180249133-\$ or US-20140025140-\$
or US-20090274323-\$ or US-
20070009117-\$ or US-20110248060-\$
or US-20140124559-\$ or US-
20130276210-\$ or US-20130048687-\$
or US-20100299800-\$ or US-
20080190980-\$ or US-20160120293-\$
or US-20160101646-\$ or US-
20150237992-\$ or US-20080179368-\$
or US-20070241158-\$ or US-
20020145027-\$ or US-20150014382-\$
or US-20140361063-\$ or US-
20090095751-\$ or US-20080093406-\$
or US-20020014507-\$).did. or (US-
4236559-\$ or US-5524802-\$ or US-
5829657-\$ or US-6681972-\$ or US-
6862827-\$ or US-6886283-\$ or US-
4570688-\$ or US-5059052-\$ or US-
D479647-\$ or US-8180395-\$ or US-
3956701-\$ or US-4294386-\$ or US-
4419794-\$ or US-4635836-\$ or US-
4974764-\$ or US-5289960-\$ or US-
5433359-\$ or US-6131780-\$ or US-
6311884-\$ or US-6286736-\$ or US-
8231094-\$ or US-7959121-\$ or US-
5054170-\$ or US-5375749-\$ or US-
5593121-\$ or US-5604958-\$).did. or
(US-5620120-\$ or US-5641102-\$ or US-
5850996-\$ or US-6786372-\$ or US-
5014892-\$ or US-5584423-\$ or US-
6006969-\$ or US-6098858-\$ or US-
6286737-\$ or US-7409237-\$ or US-
7980435-\$ or US-8613564-\$ or US-
5427291-\$ or US-5664712-\$ or US-
6029870-\$ or US-D625512-\$ or US-
8272545-\$ or US-6327751-\$ or US-
6533148-\$ or US-5954247-\$ or US-
6695371-\$ or US-5427259-\$ or US-
6443338-\$ or US-4022361-\$ or US-
4801059-\$ or US-5443192-\$ or US-
5964386-\$).did. or (US-5979851-\$ or
US-6065659-\$ or US-6196431-\$ or US-
6568576-\$ or US-6647555-\$ or US-
6880737-\$ or US-7843432-\$ or US-
8002159-\$ or US-8573458-\$ or US-
5460308-\$ or US-4982885-\$ or US-

		0738462-\$ or US-6606768-\$ or US-4315641-\$ or US-5806730-\$ or US-6321958-\$ or US-4174793-\$ or US-9392863-\$ or US-8485406-\$ or US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-D490237-\$ or US-9402016-\$).did. or (US-6825875-\$ or US-5913834-\$ or US-4798539-\$ or US-6454789-\$ or US-8194891-\$ or US-4450495-\$ or US-5353975-\$ or US-4569465-\$ or US-7243824-\$ or US-8225973-\$ or US-6913176-\$ or US-10018447-\$ or US-9326555-\$ or US-6390348-\$ or US-5988315-\$ or US-5833095-\$ or US-5511703-\$ or US-9463662-\$ or US-6179185-\$ or US-5826762-\$ or US-2893615-\$).did. or (US-2457195-\$ or US-0551359-\$ or US-3148812-\$).did.				
S123	4	S122 and paint	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/21 23:57
S124	24	("20020185509" "20030111497" "20040195280" "20110259891" "20120037634" "20140061275" "20150250296" "20150305478" "20160101646" "4325503" "4363433" "4433801" "5489051" "5490618" "5497921" "6006966" "6045017" "6283345" "6719178" "8418309").PN. OR ("9463662").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:57
S125	10	(US-20030089748-\$ or US-20160101646-\$).did. or (US-4363433-\$ or US-5135144-\$ or US-5489051-\$ or US-6719178-\$ or US-8887940-\$ or US-9463662-\$ or US-9713374-\$).did. or (US-3283971-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:58
S126	24	("20020185509" "20030111497" "20040195280" "20110259891" "20120037634" "20140061275" "20150250296" "20150305478" "20160101646" "4325503" "4363433" "4433801" "5489051" "5490618" "5497921" "6006966" "6045017" "6283345" "6719178" "8418309").PN. OR ("9463662").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/22 11:31
S127	3,115	(b44d3/126 or a45f5/021).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/22 12:55
S128	524	S127 and paint	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/22 12:56

S129	65	S127 and paint and (aperture or hole) and (band or strap)	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/22 12:56
S130	7	("20120024927" "20140353352" "3876125" "4527720" "4826059" "4972982" "5826762").PN. OR ("10420414").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/22 12:57
S131	7	("20020185509" "20040195280" "3493152" "4363433" "4746042" "5072868" "5489051").PN.	US-PGPUB; USPAT	OR	OFF	2020/03/22 13:02
S132	15	(US-20030089748-\$ or US-20160101646-\$ or US-20120037634-\$ or US-20170055684-\$ or US-20160324301-\$).did. or (US-4363433-\$ or US-5135144-\$ or US-5489051-\$ or US-6719178-\$ or US-8887940-\$ or US-9463662-\$ or US-9713374-\$ or US-10420414-\$ or US-5163591-\$).did. or (US-3283971-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/22 13:03
S133	12	S132 not S131	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/22 13:03
S134	7	(US-20040195280-\$ or US-20020185509-\$).did. or (US-5489051-\$ or US-5072868-\$ or US-4746042-\$ or US-4363433-\$ or US-3493152-\$).did.	US-PGPUB; USPAT	OR	OFF	2020/07/06 00:12
S135	15	(US-20030089748-\$ or US-20160101646-\$ or US-20120037634-\$ or US-20170055684-\$ or US-20160324301-\$).did. or (US-4363433-\$ or US-5135144-\$ or US-5489051-\$ or US-6719178-\$ or US-8887940-\$ or US-9463662-\$ or US-9713374-\$ or US-10420414-\$ or US-5163591-\$).did. or (US-3283971-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/06 00:12
S136	19	S134 S135	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/06 00:12
S137	1	("20190335884").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/16 22:58
S138	5	("20040232187" "20060226182" "6032337" "6193122" "6499637").PN.	US-PGPUB; USPAT	OR	OFF	2020/07/16 22:59
S139	176	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/17 14:36

or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20030127478-\$ or US-20050227833-\$).did. or (US-20080081747-\$ or US-20140339274-\$ or US-20170332771-\$ or US-20110315734-\$ or US-20080121673-\$ or US-20090127304-\$ or US-20180249133-\$ or US-20140025140-\$ or US-20090274323-\$ or US-20070009117-\$ or US-20110248060-\$ or US-20140124559-\$ or US-20130276210-\$ or US-20130048687-\$ or US-20100299800-\$ or US-20080190980-\$ or US-20160120293-\$ or US-20160101646-\$ or US-20150237992-\$ or US-20080179368-\$ or US-20070241158-\$ or US-20020145027-\$ or US-20150014382-\$ or US-20140361063-\$ or US-20090095751-\$ or US-20080093406-\$ or US-20020014507-\$).did. or (US-20030089748-\$ or US-20120037634-\$ or US-20170055684-\$ or US-20160324301-\$ or US-20190322124-\$ or US-20040195280-\$ or US-20020185509-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$ or US-5427291-\$ or US-5664712-\$ or US-6029870-\$ or US-

		D625512-\$ or US-8272545-\$ or US-6327751-\$ or US-6533148-\$ or US-5954247-\$ or US-6695371-\$ or US-5427259-\$ or US-6443338-\$ or US-4022361-\$ or US-4801059-\$ or US-5443192-\$ or US-5964386-\$).did. or (US-5979851-\$ or US-6065659-\$ or US-6196431-\$ or US-6568576-\$ or US-6647555-\$ or US-6880737-\$ or US-7843432-\$ or US-8002159-\$ or US-8573458-\$ or US-5460308-\$ or US-4982885-\$ or US-0738462-\$ or US-6606768-\$ or US-4315641-\$ or US-5806730-\$ or US-6321958-\$ or US-4174793-\$ or US-9392863-\$ or US-8485406-\$ or US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-D490237-\$ or US-9402016-\$).did. or (US-6825875-\$ or US-5913834-\$ or US-4798539-\$ or US-6454789-\$ or US-8194891-\$ or US-4450495-\$ or US-5353975-\$ or US-4569465-\$ or US-7243824-\$ or US-8225973-\$ or US-6913176-\$ or US-10018447-\$ or US-9326555-\$ or US-6390348-\$ or US-5988315-\$ or US-5833095-\$ or US-5511703-\$ or US-9463662-\$ or US-6179185-\$ or US-5826762-\$ or US-2893615-\$ or US-4363433-\$ or US-5135144-\$ or US-5489051-\$ or US-6719178-\$ or US-8887940-\$ or US-9713374-\$).did. or (US-10420414-\$ or US-5163591-\$ or US-5072868-\$ or US-4746042-\$ or US-3493152-\$).did. or (US-2457195-\$ or US-0551359-\$ or US-3148812-\$ or US-3283971-\$).did.				
S140	5	(US-20060226182-\$ or US-20040232187-\$).did. or (US-6499637-\$ or US-6193122-\$ or US-6032337-\$).did.	US-PGPUB; USPAT	OR	OFF	2020/07/17 14:36
S141	2	((("Zamarron") near3 ("Salvador"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:19
S142	5	(US-20060226182-\$ or US-20040232187-\$).did. or (US-6499637-\$ or US-6193122-\$ or US-6032337-\$).did.	US-PGPUB; USPAT	OR	OFF	2020/07/20 12:20
S143	1	("7077303").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:22

S144	20	("2664231" "3343735" "4321755" "4372468" "4638530" "4790461" "4955518" "5232136" "5605263" "6193122" "D221123").PN. OR ("6499637").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:22
S145	36	("20020117521" "3599847" "4106679" "4358036" "4372468" "4638530" "4645104" "4757927" "4790461" "5195667" "5248072" "6102264" "6499637" "D329748" "D330806" "D452610").PN. OR ("7077303").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:24
S146	32	("1109161" "2987231" "4325503" "4452383" "5052603" "5060836" "5067643" "5170918" "5261584" "5441186" "5511705" "5511706" "5711467" "5944242").PN. OR ("6193122").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:25
S147	37	("3623189" "3808642" "4635836" "4741074" "5008988" "5356060" "5613236" "5730348").PN. OR ("6032337").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:26
S148	7	(US-6499637-\$ or US-7077303-\$ or US-4325503-\$ or US-5060836-\$ or US-4741074-\$).did. or (US-2664231-\$ or US-3623189-\$).did.	USPAT; USOCR	OR	OFF	2020/07/20 12:27
S149	2,722	(a45f5/021).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:32
S150	291	(y10t24/1391).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:32
S151	1,289	(y10t24/44026).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:32
S152	1,296	(y10t24/44017).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:32
S153	426	(a45f5/021).cpc. and tool and holder	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:33
S154	129	(a45f5/021).cpc. and tool and (spring or torque) and rotate	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:43
S155	5	(y10t24/1391).cpc. and tool and holder	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:45
S156	63	(y10t24/1391).cpc. and (spring or torque) and rotate	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:45
S157	2,423	S151 S152	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:46
S158	81	S157 and tool and (spring or torque) and rotate	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:47

S159	5	(US-20060226182-\$ or US-20040232187-\$).did. or (US-6499637-\$ or US-6193122-\$ or US-6032337-\$).did.	US-PGPUB; USPAT	OR	OFF	2020/07/20 14:57
S160	11	(US-20040045992-\$ or US-20110108588-\$ or US-20190104832-\$).did. or (US-6499637-\$ or US-7077303-\$ or US-4325503-\$ or US-5060836-\$ or US-4741074-\$ or US-5864924-\$).did. or (US-2664231-\$ or US-3623189-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 14:57
S161	8	S160 not S159	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 14:57
S162	2	("20200253365").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 13:00
S163	31	("0000002" "20080083803" "20090095785" "20140291362" "9780583" "10271634" "20050258204" "20060104735" "20110019081" "20110142436" "20130008933" "20170122701" "20170235211" "20180331708" "2990987" "5163591" "5983686" "6098858" "6161741" "6193546" "6279362" "6290534" "6439017" "6626336" "6685067" "7686196" "7690541" "7699197" "9101198" "9657893" "D741161").PN.	US-PGPUB; USPAT	OR	OFF	2021/09/09 13:00
S164	31	("3268130" "4325503" "4420104" "5004136" "5016791" "5067643").PN. OR ("5163591").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:07
S165	70	("0267112" "0806632" "0926401" "1212511" "1302067" "1304403" "1419408" "1484508" "1724003" "1848032" "4113156" "4391113" "4821543" "4828153" "5279021" "5446947").PN. OR ("5983686").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:08
S166	32	("5201858" "5597102" "5622296" "5779115" "5850996" "5927580").PN. OR ("6098858").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:11
S167	108	("2410640" "2641395" "3894667" "3952930" "4273276" "4419794" "4424924" "4483501" "4591081" "4718586" "4721276" "4750656" "4874118" "5018653" "5054170" "5100036" "5167355" "5176347"	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:12

		"5193725" "5213240" "5265781" "5275317" "5421497" "5522527" "5551610" "5551611" "5564610" "5598958" "5622297" "5632426" "5730342" "5810221" "5839630" "5850996" "6006969").PN. OR ("6161741").URPN.				
S168	5	("6161741").PN. OR ("7690541").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:16
S169	10	("20030042279" "20060246963" "20100071168" "6736136" "8613564" "8919622").PN. OR ("9101198").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:17
S170	77	("20010010455" "20020122707" "20030090239" "20030107470" "20030182916" "20030203669" "20040069920" "20040070369" "20040144552" "20050069391" "20050075149" "20050111214" "20050173142" "20050267998" "20060096771" "20060112572" "20060142894" "20060155582" "20060244414" "20070170220" "20070276457" "20080008928" "20080238609" "20090096430" "20090145621" "20090291330" "20100096151" "20100134984" "20100171367" "20110140654" "20110148344" "20110189512" "20120104991" "20120104992" "20120111589" "20120170204" "20120238119" "20120267134" "20130044002" "20140151079" "20140159640" "20140159919" "20140159920" "20150054447" "20150054464" "3629680" "4827534" "5680026" "5809432" "5914585" "6043626" "6154007" "6502949" "6577104" "6803744" "6845279" "6870089" "6872121" "7030590" "7227335" "7273159" "7357526" "7394347" "7863862" "8319376").PN. OR ("9780583").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:18
S171	13	("20060261116" "20070099469" "20110019081" "20110142436" "20170235211" "2743894" "5014892" "5201858" "5375749" "6880794" "7980771").PN. OR ("10271634").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:18
S172	61	("1833690" "20020101311" "2361069" "2379378" "3131900" "3223369" "3239181" "3246867"	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:19

		"4025016" "4036463" "4186903" "4455717" "4662954" "4884824" "5020192" "5118064" "5697128" "5743451" "5791022" "5806822" "5842584" "6062449" "6254045" "6338459" "6443342").PN. OR ("6880794").URPN.				
S173	90	("4419794" "4897900" "5014892" "5054170" "5375749" "5584423" "5597102").PN. OR ("5850996").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 17:25
S174	67	("1519380" "20020170933" "2543313" "3261519" "3370236" "3743147" "3878589" "4419794" "4479596" "4598027" "4676420" "4718586" "4754528" "4819847" "4858798" "4929116" "5014892" "5016326" "5025966" "5054170" "5201858" "5213240" "5230159" "5253292" "5480115" "5528770" "5577303" "5584423" "5597102" "5622296" "5664292" "5730342" "5850954" "5850996" "5898647" "5957421" "5995622" "5996184" "6098858" "6141417" "6176401" "6283348" "6364184" "6443340" "6722539" "6824028" "6955279" "6955280" "7070049" "D443199").PN. OR ("8499986").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 17:32
S175	33	("20020195472" "20080209698" "20100071168" "20110076095" "20110083353" "20120030986" "20120174286" "5201858" "5642847" "5669170" "5673836" "5718363" "5730342" "5850996" "5991925" "6266910" "6325258" "6363532" "6517133" "6736136" "6824028" "7841496" "8166694" "D562549" "D577093").PN. OR ("8613564").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 17:34
S176	6,565	A45F5/021.CPC.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:37
S177	535	A45F2005/026.CPC.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:37

S178	2,161	A45F2200/0575.CPC.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:37
S179	15	S176 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:39
S180	1	S177 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:40
S181	29	S178 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:40

9/10/2021 12:30:06 AM

C:\Users\bnash\Documents\EAST\Workspaces\CLASS 224\16800336_tool attchmnt sys - like on a tool belt.wsp

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.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 24, 2020 <i>(use as many sheets as necessary)</i>		Application Number	16/800,336
		Filing Date	February 25, 2020
		First Named Inventor	Aaron S. Blumenthal
		Art Unit	3734
		Examiner Name	To be determined
Sheet 1 of 1	Attorney Docket Number	066749-2567	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	9,780,583	10-03-2017	Nobuyasu Furui et al.	
	A2	2008/0083803	04-10-2008	Connie S. Brantner et al.	
	A3	2009/0095785	04-16-2009	Andre A. Woolery	
	A4	2014/0291362	10-02-2014	Scals Victor	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Application Document	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Serial Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

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 ⁶
	A5	International Search Report and Written Opinion for International Application No. PCT/US2020/017742, dated June 16, 2020, 13 pages.	

Examiner Signature	/BRIAN D NASH/	Date Considered	09/09/2021
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. 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 2 hours 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, 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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43805945

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /B.D.N/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation

Title: Tool Attachment System

Appl. No.: 16/800,336

Filing Date: February 25, 2020

Examiner: NASH, BRIAN D

Art Unit: 3734

Confirmation No: 3982

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.111

This communication is responsive to the Non-Final Office Action dated September 14, 2021, concerning the above-referenced patent application.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this document.

Remarks begin on page 7 of this document.

Please amend the application as follows:

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A tool attachment system, comprising:
a receiver configured to attach to a tool belt;
a tool attachment device comprising a locking mechanism, the tool attachment device removably coupled to the receiver, wherein the locking mechanism locks the tool attachment device to the receiver when the locking mechanism is in a locked position; ~~and~~
an actuator coupled to the tool attachment device, wherein, when a force is applied to the actuator, the actuator causes the locking mechanism to move to an unlocked position, and the force causes the tool attachment device to disengage from the receiver; and
a bag securing mechanism that attaches a pouch under a shroud of the tool attachment device.
2. (Original) The tool attachment system of claim 1, further comprising a disk and a locking pin on the tool attachment device that are received in a channel defined within the receiver.
3. (Original) The tool attachment system of claim 1, wherein the tool attachment device is pivotally coupled to the receiver and rotates relative to the receiver about an axis that is perpendicular to a front face of a channel of the receiver.
4. (Original) The tool attachment system of claim 1, wherein the tool attachment system has a low profile having a width measured from a tool belt to a button of the actuator that is less than 1 inch.
5. (Cancelled)

6. (Currently Amended) The tool attachment system of claim [[5]] 1, wherein the tool attachment device is pivotally coupled to the receiver such that the pouch rotates relative to the receiver, wherein the pouch is coupled to the tool attachment device through a plurality of attachment points, and the tool attachment device rotates about an axis that is perpendicular to a front face of a channel of the receiver.

7. (Original) The tool attachment system of claim 6, wherein the actuator comprises a button, wherein the shroud partially surrounds the actuator to limit inadvertent disengagement of the tool attachment device from the receiver.

8. (Original) The tool attachment system of claim 1, further comprising at least two biasing elements in the tool attachment device to bias the locking mechanism in the locked position.

9. (Original) The tool attachment system of claim 8, wherein the two biasing elements are a pin spring and a button spring; wherein the pin spring biases a locking pin into a locked position; and wherein the button spring biases the actuator.

10. (Original) A tool attachment system, comprising:
a tool attachment device, comprising a disk and a locking pin;
a receiver comprising:
a channel that engages the disk of the tool attachment device to secure the tool attachment device to the receiver; and
a hole that receives the locking pin and that prevents lateral movement of the tool attachment device relative to the receiver; and
an actuator, comprising:
a button; and

a post coupled to the button, the post having an angled surface and a slot that receives the locking pin, such that in a locked position the locking pin passes through the slot to the hole;

wherein, when the tool attachment device is coupled to the receiver, the locking pin is received in the hole of the receiver and the tool attachment device is locked in the receiver, and when a force is applied to the button of the actuator, the angled surface of the post on the actuator generates a force on the locking pin that is transverse to the force on the button and causes the locking pin to move out of the hole of the receiver to an unlocked position.

11. (Original) The tool attachment system of claim 10, wherein the tool attachment device is pivotally coupled to the receiver and rotates relative to the receiver about an axis that is perpendicular to a front face of a channel of the receiver.

12. (Original) The tool attachment system of claim 10, wherein the tool attachment system has a low profile having a width measured from a tool belt to the button of the actuator that is less than 1 inch.

13. (Original) The tool attachment system of claim 10, further comprising a pin spring and a button spring; wherein the pin spring is oriented between the tool attachment device and the locking pin to bias locking pin into a locked position; and wherein the button spring is oriented between the tool attachment device and the post of the actuator to bias the actuator.

14. (Original) The tool attachment system of claim 10, wherein the receiver further comprises a belt slot and fastener holes, the belt slot configured to thread a belt and attach the receiver to the belt, and the fastener holes configured to fasten the receiver with a screw.

15. (Original) The tool attachment system of claim 10, further comprising a bag securing mechanism that attaches a pouch under a shroud of the tool attachment device, wherein the tool attachment device is pivotally coupled to the receiver such that the pouch rotates relative

to the receiver, wherein the pouch is coupled to the tool attachment device through a plurality of attachment points, and the tool attachment device rotates about an axis that is perpendicular to a front face of a channel of the receiver.

16. (Original) The tool attachment system of claim 10, further comprising a shroud that partially surrounds the button to limit inadvertent disengagement of the tool attachment device from the receiver.

17. (Original) A tool attachment system, comprising:
a tool attachment device, comprising:
a body forming an upper wall, the body attached to a pouch;
a disk that extends outward from the upper wall; and
a locking pin extending through the disk;
a receiver comprising:
a channel that engages with the disk of the tool attachment device;
an overhanging flange that captures the disk within the channel; and
a hole that receives the locking pin in a locked position; and
an actuator, comprising:
a button; and
a post having an angled surface and an angled slot that receives the locking pin, such that the locking pin passes through the slot to the hole in the locked position;
wherein when the tool attachment device is coupled to the receiver, the locking pin is received in the hole of the receiver and the tool attachment device is locked in the receiver, and when a force is applied to the button of the actuator, the angled slot of the post on the actuator generates a force on the locking pin that is transverse to the force on the button and causes the locking pin to move out of the hole of the receiver to an unlocked position.

18. (Original) The tool attachment system of claim 17, further comprising a pin spring and a button spring; wherein the pin spring is oriented between the body of the tool

attachment device and the locking pin to bias locking pin into a locked position; and wherein the button spring is oriented between the body of the tool attachment device and the post of the actuator to bias the actuator.

19. (Original) The tool attachment system of claim 17, further comprising a belt slot and fastener holes in the receiver.

20. (Original) The tool attachment system of claim 17, wherein the tool attachment device is pivotally coupled to the receiver and rotates relative to the receiver about an axis that is perpendicular to a front face of the channel of the receiver.

21. (New) A tool attachment system, comprising:
a receiver configured to attach to a tool belt;
a tool attachment device comprising a locking mechanism and at least two biasing elements, the tool attachment device removably coupled to the receiver, wherein the locking mechanism locks the tool attachment device to the receiver when the locking mechanism is in a locked position, and wherein the at least two biasing elements bias the locking mechanism in the locked position; and

an actuator coupled to the tool attachment device, wherein, when a force is applied to the actuator, the actuator causes the locking mechanism to move to an unlocked position, and the force causes the tool attachment device to disengage from the receiver.

REMARKS

This reply is intended to be completely responsive to the Non-Final Office Action dated September 14, 2021.

Status

Claims 1-20 are pending in this application. Claims 10-20 were allowed, claims 1-4 were rejected, and claims 5-9 were identified as reciting allowable subject matter but were objected to as depending from a rejected base claim.

With this amendment, claims 1 and 6 are amended, new independent claim 21 is added, and claim 5 is cancelled, based on the amendment to independent claim 1.

Applicant believes that each of the rejections raised by the Examiner has been addressed and the application is in condition for allowance. Reconsideration and allowance of the application is respectfully requested.

Claim Rejections - 35 U.S.C. § 102(a)(1)

On pages 2-3 of the Office Action, the Examiner rejected claims 1-4 under 35 U.S.C. § 102(a)(1) as being anticipated by French, U.S. Patent No. 6,161,741. On page 3 of the Office Action, the Examiner indicated that dependent claims 5-9 appear to be allowable if re-written in independent form including all limitations of claim 1 and any intervening claims.

Independent claim 1 is amended to recite the allowable subject matter of dependent claim 5. As such, Applicant respectfully asserts that amended independent claim 1 and related dependent claims 2-4 are allowable for at least the same reasons as dependent claim 5 and thus, are not anticipated by French under 35 U.S.C. § 102(a)(1).

Allowable Subject Matter

On page 3 of the Office Action, the Examiner indicated that dependent claims 5-9 recite allowable subject matter but are objected to as depending from a rejected independent claim.

Independent claim 1 is amended to recite the allowable subject matter of dependent claim 5. Dependent claim 5 is accordingly cancelled, and claim 6 is amended to depend from amended claim 1, rather than cancelled claim 5. As such, Applicant respectfully asserts that amended claim 1 is allowable for at least the same reasons as dependent claim 5.

It should be noted that Applicant has cancelled claim 5 and amended claims 1 and 6 to obtain prompt allowance of claims including subject matter indicated as allowable by the Examiner only and does not intend to indicate agreement with the Examiner's rejections. Further, Applicant reserves the right to pursue the subject matter of the amended or cancelled claims in this or future applications.

New Claim

Applicant has added new independent claim 21 to include the allowable subject matter of claim 8 in combination with the subject matter of base claim 1. No new matter has been added. Accordingly, Applicant respectfully asserts that new claim 21 is allowable for at least the same reasons as dependent claim 8.

Conclusion

Applicant believes that the present application is in condition for allowance. Favorable reconsideration of the application is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 18-0882. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Respectfully submitted,

Date 12/2/2021

By /Madeline Schlederer/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8402
Facsimile: (414) 298-8097

Madeline Schlederer
Attorney for Applicant
Registration No. 75,699

Electronic Patent Application Fee Transmittal

Application Number:	16800336			
Filing Date:	25-Feb-2020			
Title of Invention:	Tool Attachment System			
First Named Inventor/Applicant Name:	Aaron S. Blumenthal			
Filer:	Madeline Schlederer/Andrea Dietzel			
Attorney Docket Number:	066749-2567			
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:				
INDEPENDENT CLAIMS IN EXCESS OF 3	1201	1	480	480
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt

EFS ID:	44421534
Application Number:	16800336
International Application Number:	
Confirmation Number:	3982
Title of Invention:	Tool Attachment System
First Named Inventor/Applicant Name:	Aaron S. Blumenthal
Customer Number:	142078
Filer:	Madeline Schlederer/Andrea Dietzel
Filer Authorized By:	Madeline Schlederer
Attorney Docket Number:	066749-2567
Receipt Date:	02-DEC-2021
Filing Date:	25-FEB-2020
Time Stamp:	16:48:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 480
RAM confirmation Number	E2021B2G49224420
Deposit Account	180882
Authorized User	Andrea Dietzel

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)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		066749-2567_Amendment.pdf	108915	yes	9
			3550bbe4b4d1c9d557f83266a134cfb29ce17ab5		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	6	
	Applicant Arguments/Remarks Made in an Amendment		7	9	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	38035	no	2
			888e4471eaea210ea0b21ade919601df936d82e7		
Warnings:					
Information:					
Total Files Size (in bytes):			146950		

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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

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/800,336		Filing Date 02/25/2020		☐ To be Mailed			
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO											
APPLICATION AS FILED - PART I											
		(Column 1)	(Column 2)								
FOR		NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)				
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A		N/A						
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A	N/A		N/A						
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A		N/A						
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 = *		x \$100 =							
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *		x \$460 =							
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))											
* If the difference in column 1 is less than zero, enter "0" in column 2.					TOTAL						
APPLICATION AS AMENDED - PART II											
		(Column 1)	(Column 2)		(Column 3)						
AMENDMENT	12/02/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)				
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	x \$100 =	0				
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 3	= 1	x \$480 =	480				
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
							TOTAL ADD'L FEE		480		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)				
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =					
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =					
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
							TOTAL ADD'L FEE				
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.							LIE				
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".							/DAWN BREWER/				
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".											
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											

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142078 7590 12/22/2021
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

EXAMINER

NASH, BRIAN D

ART UNIT

PAPER NUMBER

3734

DATE MAILED: 12/22/2021

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/800,336	02/25/2020	Aaron S. Blumenthal	066749-2567	3982

TITLE OF INVENTION: Tool Attachment System

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	03/22/2022

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.

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Commissioner for Patents
P.O. Box 1450
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By fax, send to: (571)-273-2885

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

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.

142078 7590 12/22/2021
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

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.
16/800,336	02/25/2020	Aaron S. Blumenthal	066749-2567	3982

TITLE OF INVENTION: Tool Attachment System

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	03/22/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
NASH, BRIAN D	3734	224-197000

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/AIA/122 or PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 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.
16/800,336	02/25/2020	Aaron S. Blumenthal	066749-2567	3982
142078	7590	12/22/2021	EXAMINER	
Reinhart (Milwaukee Tool)			NASH, BRIAN D	
ATTN: TRAVIS MCDONNELL, PARALEGAL			ART UNIT	
1000 NORTH WATER STREET			PAPER NUMBER	
SUITE 2100			3734	
MILWAUKEE, WI 53202			DATE MAILED: 12/22/2021	

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.

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. 16/800,336	Applicant(s) Blumenthal et al.	
	Examiner BRIAN D NASH	Art Unit 3734	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 amendment filed 12/2/2021.
☐ 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 1-4 and 6-21. 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)	5. ☒ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☐ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	

/BRIAN D NASH/ Primary Examiner, Art Unit 3734	
---	--

DETAILED ACTION

Examiner's Comments

This action is in response to applicant's amendment received 12/2/2021.

All matters of form have been remedied and applicant's amendment has combined the indicated allowable subject matter with their respective base claims which now places the application in condition for allowance over the prior art of record.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Nash whose telephone number is 571-272-4465. The examiner can normally be reached on Monday – Friday from 8 a.m. to 4 p.m. EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Newhouse can be reached at 571-272-4544. The official fax number for this Group is: 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. For more information about the PAIR system, see www.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).

/BRIAN D NASH/
Primary Examiner, Art Unit 3734

12/8/2021

Issue Classification 	Application/Control No. 16/800,336	Applicant(s)/Patent Under Reexamination Blumenthal et al.
	Examiner BRIAN D NASH	Art Unit 3734

CPC						
Symbol					Type	Version
A45F	/	5	/	021	F	2013-01-01
A45F	/	2200	/	0575	A	2013-01-01
A45F	/	2005	/	026	A	2013-01-01

CPC Combination Sets							
Symbol				Type	Set	Ranking	Version
	/		/				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/BRIAN D NASH/ Primary Examiner, Art Unit 3734	08 December 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6

Issue Classification 	Application/Control No. 16/800,336	Applicant(s)/Patent Under Reexamination Blumenthal et al.
	Examiner BRIAN D NASH	Art Unit 3734

INTERNATIONAL CLASSIFICATION			
CLAIMED			
A45F5/02	/	5	/ 02
NON-CLAIMED			
/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

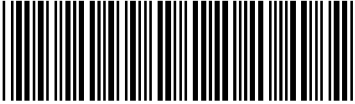
CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/BRIAN D NASH/ Primary Examiner, Art Unit 3734	08 December 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	6

Issue Classification 	Application/Control No. 16/800,336	Applicant(s)/Patent Under Reexamination Blumenthal et al.
	Examiner BRIAN D NASH	Art Unit 3734

☒ 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

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 20	
/BRIAN D NASH/ Primary Examiner, Art Unit 3734 (Primary Examiner) _____ (Date) 08 December 2021		O.G. Print Claim(s) 1	O.G. Print Figure 6

<i>Search Notes</i> 	Application/Control No. 16/800,336	Applicant(s)/Patent Under Reexamination Blumenthal et al.
	Examiner BRIAN D NASH	Art Unit 3734

CPC - Searched*		
Symbol	Date	Examiner
A45F 5/021, 2005/026, 2200/0575, 2200/0516; Y10T 24/1391; Y10S 24/60	09/10/2021	BN

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* 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
IDS, INVNTR SRCH, CPC (narrowed with text) - via EAST	09/10/2021	BN
updated above	12/08/2021	BN

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
US PGPubs	claim text	12/08/2021	BN

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	56	("0337194" "0892991" "1207154" "1601624" "1723147" "3191828" "3664560" "4114788" "4189076" "4303186" "4372468" "4600134" "4747527" "4923105" "4962873" "5064108" "5067643" "5106082" "5160073" "5163591" "5170918" "5183194" "5193725" "5265781" "5329884" "5341974" "5341975" "5413262" "5477997" "5489051" "5497923" "5553759" "5564612").PN. OR ("6041444").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/12/08 17:05
L5	1	(tool and belt and lock and actuator and bag and attachment).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/12/08 17:10
L6	2	(tool and belt and lock and actuator and (bias or spring) and attachment).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/12/08 17:11
S1	7	("20020043545" "20020153400" "20040048639" "20040180631" "20050127123" "20090023484" "20090050658").PN.	US-PGPUB; USPAT	OR	OFF	2014/02/09 22:41
S2	1	("20120248160").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 22:41
S3	97	224/220.ccls.	US-PGPUB; USPAT	OR	OFF	2014/02/09 22:43
S4	41	224/610,194,257.ccls. and (transparent or translucent)	US-PGPUB; USPAT	OR	OFF	2014/02/09 23:21
S5	38	("2159995" "2755837" "3078897" "3521689" "3545659" "3818963" "3874435" "3945415" "4068786").PN. OR ("4236559").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 23:39
S6	41	("0882178" "1188955" "1779207" "2295143" "2618086" "2897865" "3361312" "3469768" "4037633"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 23:41

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S7	36	("3829995" "3999317" "4194655" "4492390" "4570688" "4687036" "4744497" "4890728" "5059052" "5285833" "5388739" "5678620" "5784816" "5829657" "6170087" "D205948" "D261077" "D380606" "D463665").PN. OR ("6681972").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 23:43
S8	27	("20010054245" "20020108284" "20030188815" "20030201293" "20040040194" "2544618" "3657834" "3999317" "4416315" "4815510" "4937963" "5178311" "5217056" "6073378" "6108957" "6681972" "D479647").PN. OR ("6862827").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/09 23:45
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S10	4	455/575.1,575.6.ccls. and ((bag or pouch) same (transparent or translucent))	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:46
S11	11,448	((bag or pouch) same (transparent or translucent))	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:47
S12	7,296	((bag or pouch) same (transparent or translucent)) and (phone or device)	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:47
S13	2,278	((bag or pouch) same (transparent or translucent)) and (phone or electronic)	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:47
S14	47	"224"/\$.ccls. and ((bag or pouch) same (transparent or translucent)) and (phone or electronic)	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:47
S15	52	"455"/\$.ccls. and ((bag or pouch) same (transparent or translucent)) and (phone or electronic)	US-PGPUB; USPAT	OR	OFF	2014/02/10 09:48
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S17	42	("20020090980" "20020151327" "20040233930" "20040268005" "20050020327" "20050159184" "20060003804" "20060105722" "20060190321" "20060241353" "20070004450" "20070018957" "20070079030" "20070161404" "20070288583" "20080009325"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/02/10 09:51

		"20080040354" "20080140886" "20090111540" "5625673" "5628055" "5809115" "5893037" "5907815" "6188917" "6201867" "6243578" "6477357" "6516202" "6640113" "6690947" "6898283" "6907264" "6999792" "7085542" "7149557" "7194285" "7266391" "7463247" "7477919" "7515937" "8175656").PN. OR ("8406826").URPN.				
S18	21	(US-20020153400-\$ or US- 20040048639-\$ or US-20090023484-\$ or US-20020053585-\$ or US- 20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US- 20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US- 20090057357-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US- 6886283-\$ or US-4570688-\$ or US- 5059052-\$ or US-D479647-\$ or US- 8180395-\$).did.	US-PGPUB; USPAT	OR	OFF	2014/02/10 11:23
S19	7	(US-20090050658-\$ or US- 20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US- 20040048639-\$ or US-20020153400-\$ or US-20020043545-\$).did.	US-PGPUB	OR	OFF	2014/02/10 11:23
S20	18	S18 not S19	US-PGPUB; USPAT	OR	OFF	2014/02/10 11:24
S21	113	224/645,650.ccls. and (clip or attach)	US-PGPUB; USPAT	OR	OFF	2014/04/07 12:58
S22	26	(US-20090050658-\$ or US- 20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US- 20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US- 20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US- 20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US- 20030073413-\$ or US-20040033788-\$ or US-20090057357-\$).did. or (US- 4236559-\$ or US-5524802-\$ or US- 5829657-\$ or US-6681972-\$ or US- 6862827-\$ or US-6886283-\$ or US- 4570688-\$ or US-5059052-\$ or US- D479647-\$ or US-8180395-\$).did.	US-PGPUB; USPAT	OR	OFF	2014/04/07 12:58
S23	1,442	"224"/\$.ccls. and ((phone or device) same clip)	US-PGPUB; USPAT	OR	OFF	2014/04/07 13:00

S24	926	"224"/\$.ccls. and ((phone or device) same clip) and belt	US-PGPUB; USPAT	OR	OFF	2014/04/07 13:00
S25	100	"224"/\$.ccls. and (backpack same clip) and belt	US-PGPUB; USPAT	OR	OFF	2014/04/07 13:29
S26	3	("20040144481" "20050022286" "6286736").PN.	US-PGPUB; USPAT	OR	OFF	2014/04/07 13:30
S27	39	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$).did.	US-PGPUB; USPAT	OR	OFF	2014/04/11 14:01
S28	523	224/148.4	US-PGPUB; USPAT	OR	OFF	2014/04/11 15:23
S29	568	224/148.4,158,159.ccls.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:57
S30	7	((Melissa) near2 (Rogers)).INV.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:58
S31	6	((Billy) near2 (McDonald)).INV.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:58
S32	104	((Donald) near2 (Rogers)).INV.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:59
S33	19	((Mark) near2 (Gabriel)).INV.	US-PGPUB; USPAT	OR	OFF	2014/04/11 16:59
S34	134	S30 S31 S32 S33	US-PGPUB; USPAT	OR	OFF	2014/04/11 17:00
S35	43	("2128554" "2508918" "2883523" "3049711" "3577196" "3631994" "3721989").PN. OR ("3956701").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/11 17:27

S36	94	("0690277" "1423590" "2637885" "3170209").PN. OR ("4419794").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/11 17:28
S37	61	("4419794" "4897900" "5014892" "5054170" "5375749" "5584423" "5597102").PN. OR ("5850996").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/11 17:37
S38	1,874	"224"/\$.ccls. and (beverage or can or sleeve) and lock and release	US-PGPUB; USPAT	OR	OFF	2014/04/11 23:11
S39	1,855	"224"/\$.ccls. and (beverage or can) and lock and release	US-PGPUB; USPAT	OR	OFF	2014/04/11 23:12
S40	1,322	"224"/\$.ccls. and (beverage or can) and lock and release and member	US-PGPUB; USPAT	OR	OFF	2014/04/11 23:12
S41	138	"224"/\$.ccls. and (beverage or can) and lock and release and member and automatic	US-PGPUB; USPAT	OR	OFF	2014/04/11 23:12
S42	60	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$).did.	US-PGPUB; USPAT	OR	OFF	2014/12/13 22:40

S43	1	("20140339274").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:40
S44	56	("1164928" "3160158" "3543977" "3747171" "4135653" "4414969" "4420104" "4432477" "4500019" "4509667" "4690316" "4715364" "4728123" "4733808" "4771927" "4848624" "4856149" "4862563" "4958758" "4991234" "5014692" "5033142" "5154506" "5187744" "5214874" "5221031" "5253292").PN. OR ("5433359").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:48
S45	38	("1605195" "3543976" "3600734" "4762257" "4796790" "5427291" "5622346" "5664712" "5806730" "5820000" "5855306" "6029870").PN. OR ("6131780").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:49
S46	39	("20010008075" "20020005418" "20020046984" "20050115996" "20060163301" "20060289713" "2457195" "3543976" "3698042" "4096977" "4564957" "4964419" "5147079" "5161351" "5397039" "5413261" "5427291" "5464183" "5823486" "5855306" "5992715" "6029870" "6032841" "6036066" "6131780" "6264153" "6327751" "6533148" "6606768" "7204468" "D388604" "D413984").PN. OR ("D625512").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:51
S47	30	("20020084240" "20030111496" "20050035080" "2317820" "3192555" "4770305" "4815999" "5301857" "5573152" "5593074" "5613657" "5636740" "5695232" "5944238" "5954247" "6019335" "6029870" "6131779" "6131780" "6533148" "6550271" "6626333" "6695371" "6837472" "D347734" "D419880" "D474938" "D491465").PN. OR ("8272545").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 22:53
S48	26	("20020195472" "20080209698" "20100071168" "20110076095" "20110083353" "20120030986" "20120174286" "5201858" "5642847" "5669170" "5673836" "5718363" "5730342" "5850996" "5991925" "6266910" "6325258" "6363532" "6517133" "6736136" "6824028"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/12/13 23:00

		"7841496" "8166694" "D562549" "D577093").PN. OR ("8613564").URPN.				
S49	107	"224"/\$.ccls. and rubber and (cord or tubing) and bottle	US-PGPUB; USPAT	OR	OFF	2014/12/13 23:40
S50	7	"224"/\$.ccls. and (water with bottle) and ((latex or rubber) with tubing)	US-PGPUB; USPAT	OR	OFF	2014/12/14 16:52
S51	205	(water with bottle) and ((latex or rubber) with tubing)	US-PGPUB; USPAT	OR	OFF	2014/12/14 16:53
S52	4	("20110315734" "20170332771" "8485406" "9392863").PN.	US-PGPUB; USPAT	OR	ON	2018/06/25 07:55
S53	47	("0551359" "1816284" "20070205244" "20080121673" "20090127304" "3127076" "3813017" "4057757" "4399934" "4420104" "4982885" "5104076" "5147079" "5184762" "5535928" "5622346" "5806730" "6056174" "6076789" "6081695" "6321958" "6412674" "6533150" "7640632" "8162285" "8573458" "D275815" "D281830" "D347522" "D419392" "D467069" "D490237" "D517314" "D540031" "D547618" "D654265" "D737569" "D738104" "D739137" "D739138" "D744747" "D750369" "D750376" "D752858").PN. OR ("9392863").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2018/06/25 07:56
S54	78	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20030127478-\$ or US-20050227833-\$).did. or (US-20080081747-\$ or US-20140339274-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2018/06/25 07:58

		8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$ or US-5427291-\$ or US-5664712-\$ or US-6029870-\$ or US-D625512-\$ or US-8272545-\$ or US-6327751-\$ or US-6533148-\$ or US-5954247-\$ or US-6695371-\$ or US-5427259-\$ or US-6443338-\$).did. or (US-2457195-\$).did.				
S55	22	(US-20080121673-\$ or US-20090127304-\$ or US-20020053585-\$ or US-20030111496-\$ or US-20060163301-\$).did. or (US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-6321958-\$ or US-D490237-\$ or US-8573458-\$ or US-5427291-\$ or US-5433359-\$ or US-5664712-\$ or US-6029870-\$ or US-6131780-\$ or US-6443338-\$ or US-D625512-\$).did. or (US-0551359-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2018/06/25 12:26
S56	4	(US-20170332771-\$ or US-20110315734-\$).did. or (US-9392863-\$ or US-8485406-\$).did.	US-PGPUB; USPAT	OR	ON	2018/06/25 12:26
S57	21	S55 not S56	US-PGPUB; USPAT	OR	ON	2018/06/25 12:26
S58	22	(US-20080121673-\$ or US-20090127304-\$ or US-20020053585-\$ or US-20030111496-\$ or US-20060163301-\$).did. or (US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-6321958-\$ or US-D490237-\$ or US-8573458-\$ or US-5427291-\$ or US-5433359-\$ or US-5664712-\$ or US-6029870-\$ or US-6131780-\$ or US-6443338-\$ or US-D625512-\$).did. or (US-0551359-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 11:23

S59	3,719	(a45f5/02 or a45f5/021 or a45f5/10 or a45f2005/006 or a45f2005/008).cpc.	USPAT; EPO	OR	OFF	2018/12/27 11:27
S60	1,684	S59 and belt	USPAT; EPO	OR	OFF	2018/12/27 11:27
S61	850	S59 and belt and strap	USPAT; EPO	OR	OFF	2018/12/27 11:27
S62	438	S59 and belt and strap and fastener	USPAT; EPO	OR	OFF	2018/12/27 11:27
S63	22	("2092222" "2346185" "2756913" "4479596" "4588116" "4907729" "4932576" "5392975" "5443192" "5540368" "5855307" "D280357").PN. OR ("6196431").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 12:58
S64	57	("4479596" "4573573" "4771927" "5535928" "5833100" "6182878" "6330430" "D345646" "D345647" "D377117" "D416132").PN. OR ("6568576").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 12:59
S65	53	("1900490" "2663877" "2819650" "3073367" "3106717" "3751732" "3848270" "3908875" "3920166" "3977638" "4024608" "4058853" "4063313" "4126902" "4136934" "4151936" "4320863" "4404689" "4446997" "4471509" "4697288" "4710983" "5033127" "5299682" "5358159" "5409151" "5460308" "5465466" "5680679" "5819320" "5878443" "5970526" "5974591" "6230331" "6311336" "6339848" "6378746" "6449775").PN. OR ("6647555").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:01
S66	62	("2567602" "4479596" "4771927" "4800592" "4951817" "5009346" "5064109" "5217294" "5503316" "5535928" "5816459" "6081695" "D329750" "D329945" "D371137" "D373241" "D374768" "D377117" "D389641" "D398777" "D406695" "D419290" "D420506" "D437111").PN. OR ("6880737").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:04
S67	10	("20050067319" "20070084976" "6186321" "7207539" "D555351").PN. OR ("7843432").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:06
S68	70	("0842498" "20060206986" "2343142" "4668202" "4712646" "5259093" "5724707" "6108816" "6279804" "6371346" "6431420" "6582267" "7047570" "7080430"	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:07

		"7200871" "7240404").PN. OR ("8002159").URPN.				
S69	73	("0551359" "1816284" "20070205244" "20080121673" "20090127304" "20130119098" "3127076" "3813017" "4057757" "4399934" "4420104" "4982885" "5104076" "5147079" "5184762" "5535928" "5622346" "5806730" "6056174" "6076789" "6081695" "6321958" "6412674" "6533150" "7640632" "8162285" "D275815" "D281830" "D347522" "D419392" "D467069" "D490237" "D517314" "D540031" "D547618" "D654265").PN. OR ("8573458").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:11
S70	55	("0272067" "0738462" "2530695" "3087277" "3377007" "3813017" "3960302" "4114838" "4337938" "4496088" "4815172").PN. OR ("4982885").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:12
S71	47	("2539698" "3977638" "4315641" "4537341" "4564957" "4630793" "4858249" "4865239" "4982885" "5044538" "5397039" "5460308" "5582335" "5662252" "5666701" "5715571" "5873551" "5957515" "D337133" "D426699").PN. OR ("6606768").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:14
S72	39	("1648565" "3148812" "4174793" "4214686" "4356943" "5103884" "5392974" "5533656" "5964386" "D266202" "D323744" "D410331").PN. OR ("6321958").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2018/12/27 13:20
S73	25	(US-4022361-\$ or US-4801059-\$ or US-5443192-\$ or US-5964386-\$ or US-5979851-\$ or US-6029870-\$ or US-6065659-\$ or US-6196431-\$ or US-6568576-\$ or US-6647555-\$ or US-6880737-\$ or US-7843432-\$ or US-8002159-\$ or US-8573458-\$ or US-5460308-\$ or US-4982885-\$ or US-0738462-\$ or US-6606768-\$ or US-4315641-\$ or US-D625512-\$ or US-5806730-\$ or US-6321958-\$ or US-4174793-\$).did. or (US-0551359-\$ or US-3148812-\$).did.	USPAT; USOCR	OR	OFF	2018/12/27 16:42
S74	4	(US-20170332771-\$ or US-20110315734-\$).did. or (US-9392863-\$ or US-8485406-\$).did.	US-PGPUB; USPAT	OR	OFF	2018/12/27 16:42

S75	21	(US-20090127304-\$ or US-20080121673-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20020053585-\$).did. or (US-8573458-\$ or US-D625512-\$ or US-D490237-\$ or US-6443338-\$ or US-6321958-\$ or US-6131780-\$ or US-6076789-\$ or US-6029870-\$ or US-5664712-\$ or US-5622346-\$ or US-5535928-\$ or US-5433359-\$ or US-5427291-\$ or US-5147079-\$ or US-D281830-\$ or US-4420104-\$).did.	US-PGPUB; USPAT	OR	OFF	2018/12/27 16:42
S76	18	S74 S75	USPAT; EPO	OR	OFF	2018/12/27 16:42
S77	19	S73 not S76	USPAT; EPO	OR	OFF	2018/12/27 16:42
S78	13	("20060032996" "20110011910" "20120018471" "20120068504" "20140151418" "7070237" "7201443" "7364230" "7658153" "8136777" "8561863" "8733831" "9010597").PN.	US-PGPUB; USPAT	OR	OFF	2018/12/30 13:15
S79	114	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20030127478-\$ or US-20050227833-\$).did. or (US-20080081747-\$ or US-20140339274-\$ or US-20170332771-\$ or US-20110315734-\$ or US-20080121673-\$ or US-20090127304-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 18:58

		5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$ or US-5427291-\$ or US-5664712-\$ or US-6029870-\$ or US-D625512-\$ or US-8272545-\$ or US-6327751-\$ or US-6533148-\$ or US-5954247-\$ or US-6695371-\$ or US-5427259-\$ or US-6443338-\$ or US-4022361-\$ or US-4801059-\$ or US-5443192-\$ or US-5964386-\$).did. or (US-5979851-\$ or US-6065659-\$ or US-6196431-\$ or US-6568576-\$ or US-6647555-\$ or US-6880737-\$ or US-7843432-\$ or US-8002159-\$ or US-8573458-\$ or US-5460308-\$ or US-4982885-\$ or US-0738462-\$ or US-6606768-\$ or US-4315641-\$ or US-5806730-\$ or US-6321958-\$ or US-4174793-\$ or US-9392863-\$ or US-8485406-\$ or US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-D490237-\$).did. or (US-2457195-\$ or US-0551359-\$ or US-3148812-\$).did.				
S80	79	("0551359" "1816284" "20070205244" "20080121673" "20090127304" "20130119098" "3127076" "3813017" "4057757" "4399934" "4420104" "4982885" "5104076" "5147079" "5184762" "5535928" "5622346" "5806730" "6056174" "6076789" "6081695" "6321958" "6412674" "6533150" "7640632" "8162285" "D275815" "D281830" "D347522" "D419392" "D467069" "D490237" "D517314" "D540031" "D547618" "D654265").PN. OR ("8573458").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:01
S81	151	(belt same adjustable) and pocket and speaker and (power or battery)	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 19:04

S82	20	("20080179478" "20110248060" "20130181584" "20130288743" "20130329115" "20130334072" "20140171150" "20150038200" "6557437" "7422379" "8128295" "8246001" "8382059" "8531834").PN. OR ("9402016").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:22
S83	48	("0551359" "1816284" "20070205244" "20080121673" "20090127304" "3127076" "3813017" "4057757" "4399934" "4420104" "4982885" "5104076" "5147079" "5184762" "5535928" "5622346" "5806730" "6056174" "6076789" "6081695" "6321958" "6412674" "6533150" "7640632" "8162285" "8573458" "D275815" "D281830" "D347522" "D419392" "D467069" "D490237" "D517314" "D540031" "D547618" "D654265" "D737569" "D738104" "D739137" "D739138" "D744747" "D750369" "D750376" "D752858").PN. OR ("9392863").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:22
S84	146	("3884403" "3919475" "4033488" "4051534" "4131919" "4446997" "4526308" "4536066" "4714184" "4837817" "5012335" "5146353" "5185667" "5262856" "5295089" "5396583" "5416310" "5436542" "5438362" "5467271" "5477331" "5486852" "5488409" "5510830" "5514861" "5524193" "5546145" "5550754" "5575443" "5583571" "5594498" "5604551" "5613032" "5678793" "5684514" "5692661" "5694474" "5713021" "5717814" "5717869" "5726660" "5729108" "5740037" "5742339" "5742517" "5749010" "5752113" "5768640" "5768648" "5796426" "5826206" "5886739" "5940004" "5982979" "6118925" "6160950" "6243725" "6351599" "6360234" "6377519").PN. OR ("6825875").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:23
S85	68	("4438772" "4798539" "4934998" "5109421").PN. OR ("5913834").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:23
S86	28	("2298600" "4073416" "4450495" "4569465" "4620653" "D278761").PN. OR ("4798539").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:25

S87	65	("3728664" "3943564" "3983483").PN. OR ("4450495").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:26
S88	1,341	(waist with belt) and (pocket or holder) and phone	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:28
S89	452	((waist with belt) same (pocket or holder)) and phone	US-PGPUB; USPAT; USOCR	OR	OFF	2019/06/18 19:28
S90	25	(US-20090127304-\$ or US-20180249133-\$ or US-20140025140-\$ or US-20090274323-\$ or US-20070009117-\$ or US-20110248060-\$ or US-20140124559-\$ or US-20130276210-\$ or US-20130048687-\$ or US-20100299800-\$ or US-20080190980-\$).did. or (US-9392863-\$ or US-5289960-\$ or US-9402016-\$ or US-6825875-\$ or US-5913834-\$ or US-4798539-\$ or US-6454789-\$ or US-8194891-\$ or US-4450495-\$ or US-5353975-\$ or US-4569465-\$ or US-7243824-\$ or US-8225973-\$ or US-6913176-\$).did.	US-PGPUB; USPAT	OR	OFF	2019/06/18 20:01
S91	449	(y10s224/93).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:03
S92	3,952	(a45f2003/144 or a45f2200/0516 or a45f5/021 or a45f2200/0508).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:04
S93	392	(a45f2003/144).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:04
S94	1,653	(a45f2200/0516).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:04
S95	2,497	(a45f5/021).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:05
S96	368	(a45f2200/0508).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/06/18 20:05
S97	136	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 17:02

or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20030127478-\$ or US-20050227833-\$).did. or (US-20080081747-\$ or US-20140339274-\$ or US-20170332771-\$ or US-20110315734-\$ or US-20080121673-\$ or US-20090127304-\$ or US-20180249133-\$ or US-20140025140-\$ or US-20090274323-\$ or US-20070009117-\$ or US-20110248060-\$ or US-20140124559-\$ or US-20130276210-\$ or US-20130048687-\$ or US-20100299800-\$ or US-20080190980-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$ or US-5427291-\$ or US-5664712-\$ or US-6029870-\$ or US-D625512-\$ or US-8272545-\$ or US-6327751-\$ or US-6533148-\$ or US-5954247-\$ or US-6695371-\$ or US-5427259-\$ or US-6443338-\$ or US-4022361-\$ or US-4801059-\$ or US-5443192-\$ or US-5964386-\$).did. or (US-5979851-\$ or US-6065659-\$ or US-6196431-\$ or US-6568576-\$ or US-6647555-\$ or US-6880737-\$ or US-7843432-\$ or US-8002159-\$ or US-8573458-\$ or US-5460308-\$ or US-4982885-\$ or US-0738462-\$ or US-6606768-\$ or US-4315641-\$ or US-5806730-\$ or US-6321958-\$ or US-4174793-\$ or US-9392863-\$ or US-8485406-\$ or US-4420104-\$ or US-

		D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-D490237-\$ or US-9402016-\$).did. or (US-6825875-\$ or US-5913834-\$ or US-4798539-\$ or US-6454789-\$ or US-8194891-\$ or US-4450495-\$ or US-5353975-\$ or US-4569465-\$ or US-7243824-\$ or US-8225973-\$ or US-6913176-\$).did. or (US-2457195-\$ or US-0551359-\$ or US-3148812-\$).did.				
S98	2	("10018447" "2893615").PN.	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:43
S99	17	belt and (tool with caddy) and pocket and sleeve	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:45
S100	582	belt and waist and tool and pocket and sleeve	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:46
S101	881	((("Evans") near3 ("Richard"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 17:49
S102	881	((("Evans") near3 ("Richard"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 17:49
S103	109	S102 and tool	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:49
S104	5	S102 and waist	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:51
S105	5,623	(a45f5/00 or a45f3/00 or a45f3/02 or b65d33/10).cpc.	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:53
S106	194	S105 and tool and waist and pocket	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:54
S107	12	(US-20160120293-\$ or US-20160101646-\$ or US-20150237992-\$ or US-20080179368-\$ or US-20070241158-\$ or US-20020145027-\$).did. or (US-10018447-\$ or US-9326555-\$ or US-6390348-\$ or US-5988315-\$ or US-5833095-\$ or US-5511703-\$).did.	US-PGPUB; USPAT	OR	OFF	2019/09/26 17:57
S108	2,725	(a45f5/021 or y10s224/904).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 18:42
S109	208	S108 and tool and waist and pocket	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 18:42
S110	22	("20020185509" "20030111497" "20040195280" "20110259891" "20120037634" "20140061275" "20150250296" "20150305478"	US-PGPUB; USPAT; USOCR	OR	OFF	2019/09/26 20:32

		"20160101646" "4325503" "4363433" "4433801" "5489051" "5490618" "5497921" "6006966" "6045017" "6283345" "6719178" "8418309").PN. OR ("9463662").URPN.				
S111	1	window and wash and caddy and hinge	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 20:59
S112	4,120	window and wash and tool and hinge	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 20:59
S113	86	(window same wash) and tool and hinge	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/26 21:00
S114	20	(US-20160120293-\$ or US-20160101646-\$ or US-20150237992-\$ or US-20080179368-\$ or US-20070241158-\$ or US-20020145027-\$ or US-20150014382-\$ or US-20140361063-\$ or US-20090095751-\$ or US-20080093406-\$ or US-20020014507-\$).did. or (US-10018447-\$ or US-9326555-\$ or US-6390348-\$ or US-5988315-\$ or US-5833095-\$ or US-5511703-\$ or US-9463662-\$ or US-6179185-\$ or US-5826762-\$).did.	US-PGPUB; USPAT	OR	OFF	2019/09/27 00:00
S115	2	(US-10018447-\$ or US-2893615-\$).did.	USPAT	OR	OFF	2019/09/27 00:00
S116	19	S114 not S115	US-PGPUB; USPAT; EPO	OR	OFF	2019/09/27 00:00
S117	1	("20190322124").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 18:59
S118	7	("20020185509" "20040195280" "3493152" "4363433" "4746042" "5072868" "5489051").PN.	US-PGPUB; USPAT	OR	OFF	2020/03/21 21:11
S119	36	("0515899" "1238830" "2057828" "2140688" "3283971" "3997092" "Re11302").PN. OR ("4363433").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:52
S120	79	("1238830" "2863690" "2945614" "2985349" "3619817" "3887103" "3893725" "4145789" "4159838" "4172542" "4325503" "4363433" "4433801" "4527720" "4746042" "4797040" "4865282" "5005710" "5016791" "5085317").PN. OR ("5489051").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:54
S121	17	("20030024959" "20030089748" "4325503" "4363433" "4746042" "5400916" "5489051" "6006966" "6557738" "6719178" "6945440"	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:55

		"8281952" "8505788" "8783538" "8931669" "9463662").PN. OR ("9713374").URPN.				
S122	157	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20030127478-\$ or US-20050227833-\$).did. or (US-20080081747-\$ or US-20140339274-\$ or US-20170332771-\$ or US-20110315734-\$ or US-20080121673-\$ or US-20090127304-\$ or US-20180249133-\$ or US-20140025140-\$ or US-20090274323-\$ or US-20070009117-\$ or US-20110248060-\$ or US-20140124559-\$ or US-20130276210-\$ or US-20130048687-\$ or US-20100299800-\$ or US-20080190980-\$ or US-20160120293-\$ or US-20160101646-\$ or US-20150237992-\$ or US-20080179368-\$ or US-20070241158-\$ or US-20020145027-\$ or US-20150014382-\$ or US-20140361063-\$ or US-20090095751-\$ or US-20080093406-\$ or US-20020014507-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:56

		(US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$ or US-5427291-\$ or US-5664712-\$ or US-6029870-\$ or US-D625512-\$ or US-8272545-\$ or US-6327751-\$ or US-6533148-\$ or US-5954247-\$ or US-6695371-\$ or US-5427259-\$ or US-6443338-\$ or US-4022361-\$ or US-4801059-\$ or US-5443192-\$ or US-5964386-\$).did. or (US-5979851-\$ or US-6065659-\$ or US-6196431-\$ or US-6568576-\$ or US-6647555-\$ or US-6880737-\$ or US-7843432-\$ or US-8002159-\$ or US-8573458-\$ or US-5460308-\$ or US-4982885-\$ or US-0738462-\$ or US-6606768-\$ or US-4315641-\$ or US-5806730-\$ or US-6321958-\$ or US-4174793-\$ or US-9392863-\$ or US-8485406-\$ or US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-D490237-\$ or US-9402016-\$).did. or (US-6825875-\$ or US-5913834-\$ or US-4798539-\$ or US-6454789-\$ or US-8194891-\$ or US-4450495-\$ or US-5353975-\$ or US-4569465-\$ or US-7243824-\$ or US-8225973-\$ or US-6913176-\$ or US-10018447-\$ or US-9326555-\$ or US-6390348-\$ or US-5988315-\$ or US-5833095-\$ or US-5511703-\$ or US-9463662-\$ or US-6179185-\$ or US-5826762-\$ or US-2893615-\$).did. or (US-2457195-\$ or US-0551359-\$ or US-3148812-\$).did.				
S123	4	S122 and paint	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/21 23:57
S124	24	("20020185509" "20030111497" "20040195280" "20110259891" "20120037634" "20140061275" "20150250296" "20150305478" "20160101646" "4325503" "4363433" "4433801" "5489051" "5490618" "5497921" "6006966" "6045017" "6283345" "6719178" "8418309").PN. OR ("9463662").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:57

S125	10	(US-20030089748-\$ or US-20160101646-\$).did. or (US-4363433-\$ or US-5135144-\$ or US-5489051-\$ or US-6719178-\$ or US-8887940-\$ or US-9463662-\$ or US-9713374-\$).did. or (US-3283971-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/21 23:58
S126	24	("20020185509" "20030111497" "20040195280" "20110259891" "20120037634" "20140061275" "20150250296" "20150305478" "20160101646" "4325503" "4363433" "4433801" "5489051" "5490618" "5497921" "6006966" "6045017" "6283345" "6719178" "8418309").PN. OR ("9463662").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/22 11:31
S127	3,115	(b44d3/126 or a45f5/021).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/22 12:55
S128	524	S127 and paint	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/22 12:56
S129	65	S127 and paint and (aperture or hole) and (band or strap)	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/22 12:56
S130	7	("20120024927" "20140353352" "3876125" "4527720" "4826059" "4972982" "5826762").PN. OR ("10420414").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/22 12:57
S131	7	("20020185509" "20040195280" "3493152" "4363433" "4746042" "5072868" "5489051").PN.	US-PGPUB; USPAT	OR	OFF	2020/03/22 13:02
S132	15	(US-20030089748-\$ or US-20160101646-\$ or US-20120037634-\$ or US-20170055684-\$ or US-20160324301-\$).did. or (US-4363433-\$ or US-5135144-\$ or US-5489051-\$ or US-6719178-\$ or US-8887940-\$ or US-9463662-\$ or US-9713374-\$ or US-10420414-\$ or US-5163591-\$).did. or (US-3283971-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/03/22 13:03
S133	12	S132 not S131	US-PGPUB; USPAT; EPO	OR	OFF	2020/03/22 13:03
S134	7	(US-20040195280-\$ or US-20020185509-\$).did. or (US-5489051-\$ or US-5072868-\$ or US-4746042-\$ or US-4363433-\$ or US-3493152-\$).did.	US-PGPUB; USPAT	OR	OFF	2020/07/06 00:12
S135	15	(US-20030089748-\$ or US-20160101646-\$ or US-20120037634-\$ or US-20170055684-\$ or US-20160324301-\$).did. or (US-4363433-\$ or US-5135144-\$ or US-5489051-\$ or	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/06 00:12

		US-6719178-\$ or US-8887940-\$ or US-9463662-\$ or US-9713374-\$ or US-10420414-\$ or US-5163591-\$).did. or (US-3283971-\$).did.				
S136	19	S134 S135	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/06 00:12
S137	1	("20190335884").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/16 22:58
S138	5	("20040232187" "20060226182" "6032337" "6193122" "6499637").PN.	US-PGPUB; USPAT	OR	OFF	2020/07/16 22:59
S139	176	(US-20090050658-\$ or US-20090023484-\$ or US-20050127123-\$ or US-20040180631-\$ or US-20040048639-\$ or US-20020153400-\$ or US-20020043545-\$ or US-20120248160-\$ or US-20020053585-\$ or US-20120273541-\$ or US-20030213826-\$ or US-20090120980-\$ or US-20030188815-\$ or US-20030073413-\$ or US-20040033788-\$ or US-20090057357-\$ or US-20020166881-\$ or US-20050022286-\$ or US-20040144481-\$ or US-20140042195-\$ or US-20140027477-\$ or US-20100294816-\$ or US-20060163301-\$ or US-20030111496-\$ or US-20030127478-\$ or US-20050227833-\$).did. or (US-20080081747-\$ or US-20140339274-\$ or US-20170332771-\$ or US-20110315734-\$ or US-20080121673-\$ or US-20090127304-\$ or US-20180249133-\$ or US-20140025140-\$ or US-20090274323-\$ or US-20070009117-\$ or US-20110248060-\$ or US-20140124559-\$ or US-20130276210-\$ or US-20130048687-\$ or US-20100299800-\$ or US-20080190980-\$ or US-20160120293-\$ or US-20160101646-\$ or US-20150237992-\$ or US-20080179368-\$ or US-20070241158-\$ or US-20020145027-\$ or US-20150014382-\$ or US-20140361063-\$ or US-20090095751-\$ or US-20080093406-\$ or US-20020014507-\$).did. or (US-20030089748-\$ or US-20120037634-\$ or US-20170055684-\$ or US-20160324301-\$ or US-20190322124-\$ or US-20040195280-\$ or US-	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/17 14:36

20020185509-\$).did. or (US-4236559-\$ or US-5524802-\$ or US-5829657-\$ or US-6681972-\$ or US-6862827-\$ or US-6886283-\$ or US-4570688-\$ or US-5059052-\$ or US-D479647-\$ or US-8180395-\$ or US-3956701-\$ or US-4294386-\$ or US-4419794-\$ or US-4635836-\$ or US-4974764-\$ or US-5289960-\$ or US-5433359-\$ or US-6131780-\$ or US-6311884-\$ or US-6286736-\$ or US-8231094-\$ or US-7959121-\$ or US-5054170-\$ or US-5375749-\$ or US-5593121-\$ or US-5604958-\$).did. or (US-5620120-\$ or US-5641102-\$ or US-5850996-\$ or US-6786372-\$ or US-5014892-\$ or US-5584423-\$ or US-6006969-\$ or US-6098858-\$ or US-6286737-\$ or US-7409237-\$ or US-7980435-\$ or US-8613564-\$ or US-5427291-\$ or US-5664712-\$ or US-6029870-\$ or US-D625512-\$ or US-8272545-\$ or US-6327751-\$ or US-6533148-\$ or US-5954247-\$ or US-6695371-\$ or US-5427259-\$ or US-6443338-\$ or US-4022361-\$ or US-4801059-\$ or US-5443192-\$ or US-5964386-\$).did. or (US-5979851-\$ or US-6065659-\$ or US-6196431-\$ or US-6568576-\$ or US-6647555-\$ or US-6880737-\$ or US-7843432-\$ or US-8002159-\$ or US-8573458-\$ or US-5460308-\$ or US-4982885-\$ or US-0738462-\$ or US-6606768-\$ or US-4315641-\$ or US-5806730-\$ or US-6321958-\$ or US-4174793-\$ or US-9392863-\$ or US-8485406-\$ or US-4420104-\$ or US-D281830-\$ or US-5147079-\$ or US-5535928-\$ or US-5622346-\$ or US-6076789-\$ or US-D490237-\$ or US-9402016-\$).did. or (US-6825875-\$ or US-5913834-\$ or US-4798539-\$ or US-6454789-\$ or US-8194891-\$ or US-4450495-\$ or US-5353975-\$ or US-4569465-\$ or US-7243824-\$ or US-8225973-\$ or US-6913176-\$ or US-10018447-\$ or US-9326555-\$ or US-6390348-\$ or US-5988315-\$ or US-5833095-\$ or US-5511703-\$ or US-9463662-\$ or US-6179185-\$ or US-5826762-\$ or US-2893615-\$ or US-4363433-\$ or US-5135144-\$ or US-5489051-\$ or US-6719178-\$ or US-

		8887940-\$ or US-9713374-\$).did. or (US-10420414-\$ or US-5163591-\$ or US-5072868-\$ or US-4746042-\$ or US-3493152-\$).did. or (US-2457195-\$ or US-0551359-\$ or US-3148812-\$ or US-3283971-\$).did.				
S140	5	(US-20060226182-\$ or US-20040232187-\$).did. or (US-6499637-\$ or US-6193122-\$ or US-6032337-\$).did.	US-PGPUB; USPAT	OR	OFF	2020/07/17 14:36
S141	2	((("Zamarron") near3 ("Salvador"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:19
S142	5	(US-20060226182-\$ or US-20040232187-\$).did. or (US-6499637-\$ or US-6193122-\$ or US-6032337-\$).did.	US-PGPUB; USPAT	OR	OFF	2020/07/20 12:20
S143	1	("7077303").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:22
S144	20	("2664231" "3343735" "4321755" "4372468" "4638530" "4790461" "4955518" "5232136" "5605263" "6193122" "D221123").PN. OR ("6499637").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:22
S145	36	("20020117521" "3599847" "4106679" "4358036" "4372468" "4638530" "4645104" "4757927" "4790461" "5195667" "5248072" "6102264" "6499637" "D329748" "D330806" "D452610").PN. OR ("7077303").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:24
S146	32	("1109161" "2987231" "4325503" "4452383" "5052603" "5060836" "5067643" "5170918" "5261584" "5441186" "5511705" "5511706" "5711467" "5944242").PN. OR ("6193122").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:25
S147	37	("3623189" "3808642" "4635836" "4741074" "5008988" "5356060" "5613236" "5730348").PN. OR ("6032337").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 12:26
S148	7	(US-6499637-\$ or US-7077303-\$ or US-4325503-\$ or US-5060836-\$ or US-4741074-\$).did. or (US-2664231-\$ or US-3623189-\$).did.	USPAT; USOCR	OR	OFF	2020/07/20 12:27
S149	2,722	(a45f5/021).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:32
S150	291	(y10t24/1391).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:32

S151	1,289	(y10t24/44026).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:32
S152	1,296	(y10t24/44017).cpc.	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:32
S153	426	(a45f5/021).cpc. and tool and holder	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:33
S154	129	(a45f5/021).cpc. and tool and (spring or torque) and rotate	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:43
S155	5	(y10t24/1391).cpc. and tool and holder	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:45
S156	63	(y10t24/1391).cpc. and (spring or torque) and rotate	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:45
S157	2,423	S151 S152	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:46
S158	81	S157 and tool and (spring or torque) and rotate	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 12:47
S159	5	(US-20060226182-\$ or US-20040232187-\$).did. or (US-6499637-\$ or US-6193122-\$ or US-6032337-\$).did.	US-PGPUB; USPAT	OR	OFF	2020/07/20 14:57
S160	11	(US-20040045992-\$ or US-20110108588-\$ or US-20190104832-\$).did. or (US-6499637-\$ or US-7077303-\$ or US-4325503-\$ or US-5060836-\$ or US-4741074-\$ or US-5864924-\$).did. or (US-2664231-\$ or US-3623189-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2020/07/20 14:57
S161	8	S160 not S159	US-PGPUB; USPAT; EPO	OR	OFF	2020/07/20 14:57
S162	2	("20200253365").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 13:00
S163	31	("0000002" "20080083803" "20090095785" "20140291362" "9780583" "10271634" "20050258204" "20060104735" "20110019081" "20110142436" "20130008933" "20170122701" "20170235211" "20180331708" "2990987" "5163591" "5983686" "6098858" "6161741" "6193546" "6279362" "6290534" "6439017" "6626336" "6685067" "7686196" "7690541" "7699197" "9101198" "9657893" "D741161").PN.	US-PGPUB; USPAT	OR	OFF	2021/09/09 13:00

S164	31	("3268130" "4325503" "4420104" "5004136" "5016791" "5067643").PN. OR ("5163591").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:07
S165	70	("0267112" "0806632" "0926401" "1212511" "1302067" "1304403" "1419408" "1484508" "1724003" "1848032" "4113156" "4391113" "4821543" "4828153" "5279021" "5446947").PN. OR ("5983686").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:08
S166	32	("5201858" "5597102" "5622296" "5779115" "5850996" "5927580").PN. OR ("6098858").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:11
S167	108	("2410640" "2641395" "3894667" "3952930" "4273276" "4419794" "4424924" "4483501" "4591081" "4718586" "4721276" "4750656" "4874118" "5018653" "5054170" "5100036" "5167355" "5176347" "5193725" "5213240" "5265781" "5275317" "5421497" "5522527" "5551610" "5551611" "5564610" "5598958" "5622297" "5632426" "5730342" "5810221" "5839630" "5850996" "6006969").PN. OR ("6161741").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:12
S168	5	("6161741").PN. OR ("7690541").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:16
S169	10	("20030042279" "20060246963" "20100071168" "6736136" "8613564" "8919622").PN. OR ("9101198").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:17
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S171	13	("20060261116" "20070099469" "20110019081" "20110142436" "20170235211" "2743894" "5014892" "5201858" "5375749" "6880794" "7980771").PN. OR ("10271634").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:18
S172	61	("1833690" "20020101311" "2361069" "2379378" "3131900" "3223369" "3239181" "3246867" "4025016" "4036463" "4186903" "4455717" "4662954" "4884824" "5020192" "5118064" "5697128" "5743451" "5791022" "5806822" "5842584" "6062449" "6254045" "6338459" "6443342").PN. OR ("6880794").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 13:19
S173	90	("4419794" "4897900" "5014892" "5054170" "5375749" "5584423" "5597102").PN. OR ("5850996").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 17:25
S174	67	("1519380" "20020170933" "2543313" "3261519" "3370236" "3743147" "3878589" "4419794" "4479596" "4598027" "4676420" "4718586" "4754528" "4819847" "4858798" "4929116" "5014892" "5016326" "5025966" "5054170" "5201858" "5213240" "5230159" "5253292" "5480115" "5528770" "5577303" "5584423" "5597102" "5622296" "5664292" "5730342" "5850954" "5850996" "5898647" "5957421" "5995622" "5996184" "6098858" "6141417" "6176401" "6283348" "6364184" "6443340" "6722539" "6824028" "6955279" "6955280" "7070049" "D443199").PN. OR ("8499986").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 17:32
S175	33	("20020195472" "20080209698" "20100071168" "20110076095" "20110083353" "20120030986" "20120174286" "5201858" "5642847"	US-PGPUB; USPAT; USOCR	OR	OFF	2021/09/09 17:34

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S176	6,565	A45F5/021.CPC.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:37
S177	535	A45F2005/026.CPC.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:37
S178	2,161	A45F2200/0575.CPC.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:37
S179	15	S176 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:39
S180	1	S177 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:40
S181	29	S178 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 17:40
S182	39	(US-20110019081-\$ or US- 20140291362-\$ or US-20170122701-\$ or US-20070099469-\$ or US- 20100071168-\$).did. or (US-6041444-\$ or US-6719178-\$ or US-6098858-\$ or US-5201858-\$ or US-5597102-\$ or US- 5622296-\$ or US-5779115-\$ or US- 5850996-\$ or US-6626336-\$ or US-	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2021/09/09 22:11

		6786372-\$ or US-6955279-\$ or US-8919623-\$ or US-11047644-\$ or US-6161741-\$ or US-4419794-\$ or US-4718586-\$ or US-4721276-\$ or US-5054170-\$ or US-5598958-\$ or US-6669155-\$ or US-8166694-\$ or US-9664480-\$ or US-9101198-\$ or US-9780583-\$ or US-10271634-\$ or US-5014892-\$).did. or (US-6880794-\$ or US-8020821-\$ or US-8499986-\$ or US-8613564-\$ or US-5664292-\$ or US-5319349-\$).did. or (US-2743894-\$).did. or (US-20150076192-\$).did.				
S183	5,470	a45f2200/0516.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:17
S184	604	y10t24/1391.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:17
S185	315	y10s24/60.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:17
S186	1	S183 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:18
S187	1	S184 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:18
S188	0	S185 and tool and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:18

S189	1	S185 and device and (actuator same (lever or button or release))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/09 22:18
S190	39	(US-20110019081-\$ or US-20140291362-\$ or US-20170122701-\$ or US-20070099469-\$ or US-20100071168-\$).did. or (US-6041444-\$ or US-6719178-\$ or US-6098858-\$ or US-5201858-\$ or US-5597102-\$ or US-5622296-\$ or US-5779115-\$ or US-5850996-\$ or US-6626336-\$ or US-6786372-\$ or US-6955279-\$ or US-8919623-\$ or US-11047644-\$ or US-6161741-\$ or US-4419794-\$ or US-4718586-\$ or US-4721276-\$ or US-5054170-\$ or US-5598958-\$ or US-6669155-\$ or US-8166694-\$ or US-9664480-\$ or US-9101198-\$ or US-9780583-\$ or US-10271634-\$ or US-5014892-\$).did. or (US-6880794-\$ or US-8020821-\$ or US-8499986-\$ or US-8613564-\$ or US-5664292-\$ or US-5319349-\$).did. or (US-2743894-\$).did. or (US-20150076192-\$).did.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2021/09/10 00:29
S191	31	(US-20180331708-\$ or US-20170235211-\$ or US-20170122701-\$ or US-20140291362-\$ or US-20130008933-\$ or US-20110142436-\$ or US-20110019081-\$ or US-20090095785-\$ or US-20080083803-\$ or US-20060104735-\$ or US-20050258204-\$).did. or (US-10271634-\$ or US-9780583-\$ or US-9657893-\$ or US-D741161-\$ or US-9101198-\$ or US-7699197-\$ or US-7690541-\$ or US-7686196-\$ or US-6685067-\$ or US-6626336-\$ or US-6439017-\$ or US-6290534-\$ or US-6279362-\$ or US-6193546-\$ or US-6161741-\$ or US-6098858-\$ or US-5983686-\$ or US-5163591-\$ or US-2990987-\$ or US-0000002-\$).did.	US-PGPUB; USPAT	OR	OFF	2021/09/10 00:29
S192	30	S190 not S191	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2021/09/10 00:29

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/800,336	02/25/2020	3734	2360	066749-2567	20	3

142078
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

CONFIRMATION NO. 3982
CORRECTED FILING RECEIPT



0000000130691801

Date Mailed: 12/27/2021

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Aaron S. Blumenthal, Shorewood, WI;
Jason D. Thurner, Menomonee Falls, WI;
Christopher S. Hoppe, Milwaukee, WI;

Applicant(s)

Milwaukee Electric Tool Corporation, Brookfield, WI;

Power of Attorney: The patent practitioners associated with Customer Number 142078

Domestic Priority data as claimed by applicant

This application is a CON of PCT/US2020/017742 02/11/2020
which claims benefit of 62/804,547 02/12/2019

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

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If Required, Foreign Filing License Granted: 03/10/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/800,336**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
Title

Tool Attachment System

Preliminary Class

224

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milwaukee Electric Tool Corporation
Title: Tool Attachment System
Appl. No.: 16/800,336
Filing Date: February 25, 2020
Examiner: NASH, BRIAN D
Art Unit: 3734
Confirmation No.: 3982

ISSUE FEE TRANSMITTAL

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Enclosed herewith please find Issue Fee Transmittal Form PTOL-85(B).

The requisite fees for payment of the Issue Fee are being charged to Deposit Account No. 18-0882.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 18-0882.

Respectfully submitted,

Date 3-21-22

By / Madeline Schlederer /

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8402
Facsimile: (414) 298-8097

Madeline Schlederer
Attorney for Applicant
Registration No. 75,699

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)

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.

142078 7590 12/22/2021
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

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.
16/800,336	02/25/2020	Aaron S. Blumenthal	066749-2567	3982

TITLE OF INVENTION: Tool Attachment System

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	03/22/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
NASH, BRIAN D	3734	224-197000

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/AIA/122 or PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 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 Reinhart Boerner Van Deuren s.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)

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. 180882

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 /Madeline Schlederer/ Date 3-21-22
Typed or printed name Madeline Schlederer Registration No. 75,699

Electronic Patent Application Fee Transmittal

Application Number:	16800336			
Filing Date:	25-Feb-2020			
Title of Invention:	Tool Attachment System			
First Named Inventor/Applicant Name:	Aaron S. Blumenthal			
Filer:	Madeline Schlederer/Andrea Dietzel			
Attorney Docket Number:	066749-2567			
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	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1200

Electronic Acknowledgement Receipt

EFS ID:	45278077
Application Number:	16800336
International Application Number:	
Confirmation Number:	3982
Title of Invention:	Tool Attachment System
First Named Inventor/Applicant Name:	Aaron S. Blumenthal
Customer Number:	142078
Filer:	Madeline Schlederer/Andrea Dietzel
Filer Authorized By:	Madeline Schlederer
Attorney Docket Number:	066749-2567
Receipt Date:	21-MAR-2022
Filing Date:	25-FEB-2020
Time Stamp:	17:31:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 1200
RAM confirmation Number	E20223KH32201918
Deposit Account	180882
Authorized User	Andrea Dietzel

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)
37 CFR 1.20 (Post Issuance fees)
37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	066749-2567_Transmittal.pdf	72036	no	2
			e7d887365f1d79862a9cf2e7ac4ea63d279c67bd		

Warnings:

Information:

2	Issue Fee Payment (PTO-85B)	066749-2567_PTOL.pdf	84768	no	1
			0f03c5f1e973d751c48672c2db9e6ffe14c3df43		

Warnings:

Information:

3	Fee Worksheet (SB06)	fee-info.pdf	37690	no	2
			07538e0c08004bc6b66ca7b6bede9a0d90340dc6		

Warnings:

Information:

Total Files Size (in bytes):			194494
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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 NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/800,336	04/19/2022	11304503	066749-2567	3982

142078 7590 03/30/2022
Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

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 142 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 Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional inventors):

Aaron S. Blumenthal, Shorewood, WI;
Jason D. Thurner, Menomonee Falls, WI;
Christopher S. Hoppe, Milwaukee, WI;

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Milwaukee Electric Tool Corporation, Brookfield, 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.