

だカートリッジ1の口縁部の下面側を両手の指先で保持し、載置部10を内側から親指で押し下げようにして本体部2を成形時の状態に復元させることになる。但し、前記と同様の手法で機械的に側壁部6を折り返して反転させることも可能である。

【0029】また、側壁部6の折返しが円滑になされるように、図7～図9に示すカートリッジ1Bのように、本体部2Bの側壁部6Bの高さ方向の途中部に環状段部25を設け、環状段部25よりも上側の上側壁部26の直径を、環状段部25よりも下側の下側壁部27の直径より大きく構成すると、環状段部25を介して上側壁部26を容易に折曲させることが可能となる。さらに環状段部25と折り返す側の上側壁部26とを環状段部25の幅と略同じ半径の曲面R1で形成された円弧面状の案内面28で滑らかに連設させると、上側壁部26の折り返しがより一層容易になる。

【0030】また、折り返す側の壁部、即ちカートリッジ1Bにおいては上側壁部26に、折畳状態において外側へ突出する突条からなる縦リブ29を、伸縮方向としての上下方向の略全長にわたって、円周方向に一定間隔おきに設け、上側壁部26の内外面を反転させることに起因するシワの発生を縦リブ29で吸収してもよい。

【0031】更に、図10～図12に示すカートリッジ1Cのように、側壁部6Cの高さ方向の途中部に環状段部25Cを形成し、側壁部6Cのうちの環状壁部25Cよりも上側に上側壁部26Cを形成し、下側に上側壁部26Cよりも小径の下側壁部27Cを形成して、環状段部25Cを中心に下側壁部27Cを上側壁部26Cの内側に折り返して反転させ、カートリッジ1Cを折り畳むことも可能である。また、この場合には、環状段部25Cと反転させる下側壁部27Cとを環状段部25Cの幅と略同じ半径の曲面R2で形成された円弧面状の案内面28Cで滑らかに連設させると、下側壁部27Cの折り返しがより一層容易になる。更に、下側壁部27Cと載置部10間に折り畳んだ状態で載置部10の外周部から上方へ突出する高さの低い突出壁部30を形成し、この突出壁部30と載置部10とにわたって断面三角形形状のリブ部31を円周方向に一定間隔おきに形成してもよい。この場合には、カートリッジ1Cを使用状態に切り換えたときに、隣接するリブ部31間が略直角状に残った状態となり、載置部10の外縁部に角部32が形成されて、載置部10が平坦になるので、カートリッジ1Cをコーヒーカップ等に対して安定性よく載せることが可能となる。

【0032】次いで、ドリップ用カートリッジ1の製造方法について説明する。図1に示すドリップ用カートリッジ1は、予め、抽出口11になる抜き穴51を設けたポリプロピレン、ポリエステル等の熱可塑性合成樹脂シート50と、フィルターとしての機能を持った成形性を有する不織布シート52とをラミネートした材料シート

54をシート成形して製作したものである。

【0033】まず、図13に示すように、帯状の熱可塑性合成樹脂シート50に対してカートリッジ1の抽出口11となる抜き穴51を図15に示す成形装置60の成形型61の型配置に対応させて行列状に形成するとともに、熱可塑性合成樹脂シート50の側部に1ショット毎に1ヶ所の割合で、成形時の位置検出用の小孔53を形成する。但し、1つの抽出口11を複数の抜き穴51で構成することも可能である。また位置検出用の小孔53は抜き穴51と一体で抜き加工しても良いし、小孔53の代わりに樹脂シート50に位置検出用マークを印刷し、光電管等で位置合わせをしながら所定の位置に抜き穴51を抜き加工しても良い。

【0034】次に、図13、図14に示すように、抜き穴51及び小孔53を形成した熱可塑性合成樹脂シート50に対して、熱可塑性合成樹脂材料からなる長繊維スパンボンド不織布等の成形性を有する不織布シート52を、抜き穴51を覆うように熱ラミネートして、材料シート54を製作する。

【0035】次に、不織布シート52が下側に位置するように、材料シート54を成形装置60へ供給し、抜き穴51が、成形されたカートリッジ1の底面略中央に位置するように、位置検出用の小孔53を光電管等の検出手段62で検出し、材料シート54を位置調整するとともに、材料シート54をヒータ63で加熱してから、マッチモールド型からなる上下の成形型61間で熱プレス成形する。

【0036】次に、熱プレス成形した材料シート54を図外の打ち抜き手段でトリミングして、単体の本体部2を製作する。

【0037】次に、図示外の充填装置により本体部2の収容部3内に一定量の焙煎コーヒー粉末4を充填してから、収容部3の開口が閉塞されるように通水性を有する不織布シートからなる封止シート5を載置部10の上面にヒートシールや超音波シールなどで接着し、カートリッジ1を得ることになる。

【0038】この製造方法では、予め用意した材料シート54を成形することにより、フィルター機能を持った状態で抽出口11が一体成形されるため、別工程での抽出口11の穴抜き加工や、フィルター部材の接着加工を行う必要が無く、前記成形装置60に焙煎コーヒー粉末4の充填装置を連結し、インラインでコーヒーの充填加工と封止シート5の接着加工が可能となり、大幅に生産性を向上することが可能となる。

【0039】

【発明の効果】本発明に係るドリップ用カートリッジによれば、お湯を溜める本体部と抽出口のフィルター部材を一体成形できるので、別工程で底面に抽出用の穴をあけたり、フィルター部材を接着したりする必要が無く、低コストで製造できるため、使い捨て仕様として安価に

提供できる。また、別の成形容器等の他の器具を必要としないため、アウトドア等にも手軽に携帯でき利便性が高い。

【0040】カートリッジの側壁部の上側壁部又は下側壁部を高さ方向の途中部で折り返して反転させ、上側壁部の内側に下側壁部を配置させて全高を低く設定すると、個包装にしたときの容積を半減することができ、流通段階でのコストを大幅に抑制することができる。また、かさばらずアウトドア等への携帯もしやすくなって利便性が高まる。

【0041】カートリッジの側壁部の高さ方向の途中部に環状段部を形成し、環状段部と上側壁部とを円弧面で滑らかに連設させると、この環状段部と上側壁部の連設部分が屈曲し易くなり、側壁部の折り返しが容易になって、作業性を高めることができる。

【0042】反転させる上側壁部又は下側壁部に伸縮方向に延びる縦リブを円周方向に間隔をあけて形成すると円周方向に若干の伸縮性が生じ、円周の小さい側壁部内面が、円周の大きい側壁部外面と入れ替わることによって生じるシワを効果的に解消することができる。また、壁部の融通がきくため、反転した壁面を使用時に戻す際にも簡単に操作できる。

【0043】本発明に係るドリップ用カートリッジの製造方法によれば、お湯を溜める本体部とフィルター機能を持つ抽出口を、同時に、一体形成できるため、後加工で抽出口となる穴を抜いたり、フィルター部材を接着する必要が無く、安価にフィルター付きのドリップ用カートリッジを製造できる。また、材料シートの状態から、フィルター機能を持った容器の状態までを一貫して製造できるため、一般の成形装置付き自動充填シール機を用いると、最終製品までインラインで一貫加工が可能になり、生産性の向上ができる。

【図面の簡単な説明】

【図1】 ドリップ用カートリッジの斜視図

【図2】 同ドリップ用カートリッジの縦断面図

【図3】 同ドリップ用カートリッジの本体部の平面図

【図4】 他の構成のドリップ用フィルターの斜視図

【図5】 同ドリップ用フィルターの縦断面図

【図6】 (a) (b) はカートリッジの折返し方法の説明図

【図7】 他の構成のドリップ用カートリッジの斜視図

【図8】 同ドリップ用カートリッジの使用状態での縦断面図

【図9】 同ドリップ用カートリッジの折畳状態での縦断面図

【図10】 他の構成のドリップ用カートリッジの焙煎コーヒー粉末及び封止シートを除去した状態での使用状態の縦断面図

【図11】 同ドリップ用カートリッジの焙煎コーヒー粉末及び封止シートを除去した状態での折畳状態の縦断面図

【図12】 同ドリップ用カートリッジの焙煎コーヒー粉末及び封止シートを除去した状態での平面図

【図13】 材料シートの製造方法の説明図

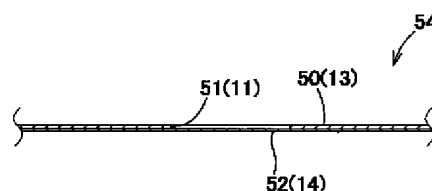
【図14】 材料シートの縦断面図

【図15】 製造装置の概略説明図

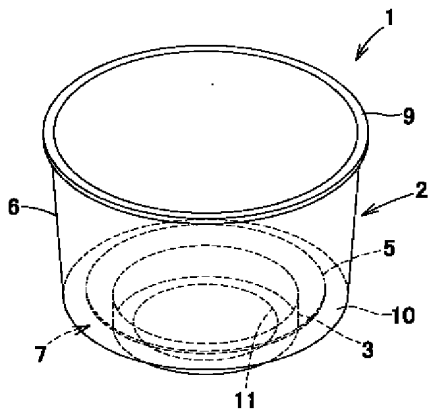
【符号の説明】

- | | |
|-----|-------------|
| 1 | ドリップ用カートリッジ |
| 2 | 本体部 |
| 3 | 収容部 |
| 4 | 焙煎コーヒー粉末 |
| 5 | 封止シート |
| 6 | 側壁部 |
| 7 | 底壁部 |
| 9 | フランジ部 |
| 10 | 載置部 |
| 11 | 抽出口 |
| 12 | フィルター |
| 13 | 基材層 |
| 14 | 不織布層 |
| 1A | カートリッジ |
| 15 | 位置規制部 |
| 20 | 受け台 |
| 21 | 折り返し治具 |
| 1B | カートリッジ |
| 2B | 本体部 |
| 6B | 側壁部 |
| 25 | 環状段部 |
| 26 | 上側壁部 |
| 27 | 下側壁部 |
| 28 | 案内面 |
| 29 | 縦リブ |
| 1C | カートリッジ |
| 6C | 側壁部 |
| 25C | 環状段部 |
| 26C | 上側壁部 |
| 27C | 下側壁部 |
| 28C | 案内面 |
| 30 | 突出壁部 |
| 31 | リブ部 |
| 32 | 角部 |
| 50 | 熱可塑性合成樹脂シート |
| 51 | 抜き穴 |
| 52 | 不織布シート |
| 53 | 小孔 |
| 54 | 材料シート |
| 60 | 成形装置 |
| 61 | 成型型 |
| 62 | 検出手段 |
| 63 | ヒータ |

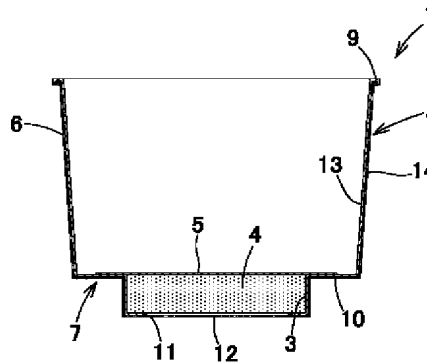
【図14】



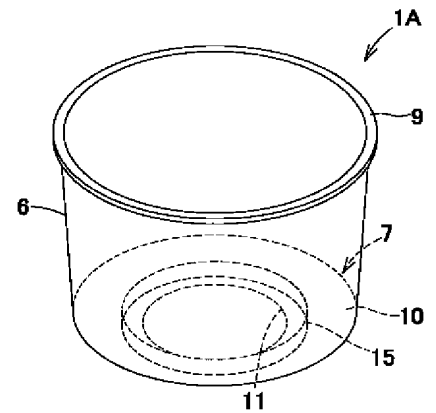
【図1】



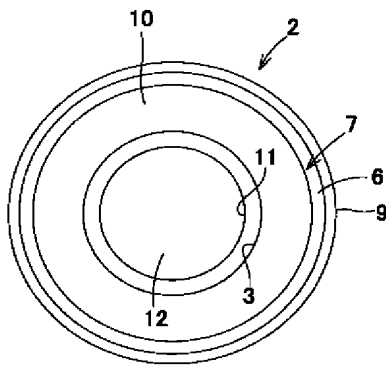
【図2】



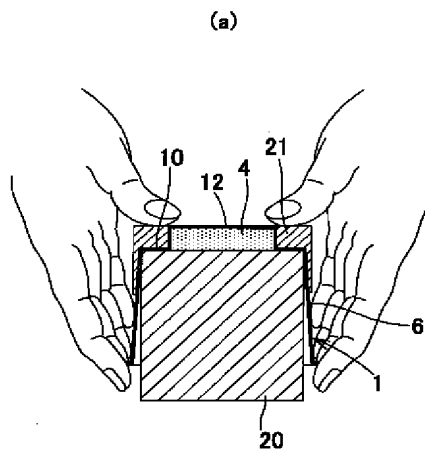
【図4】



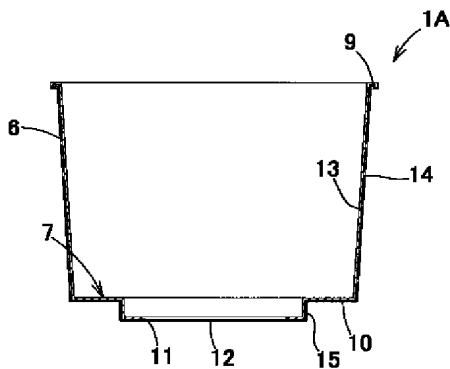
【図3】



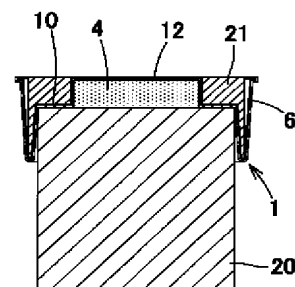
【図6】



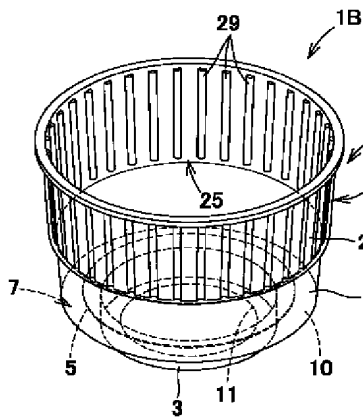
【図5】



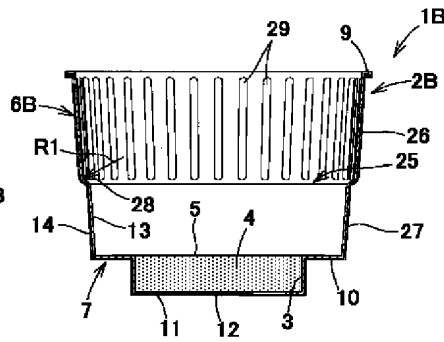
(b)



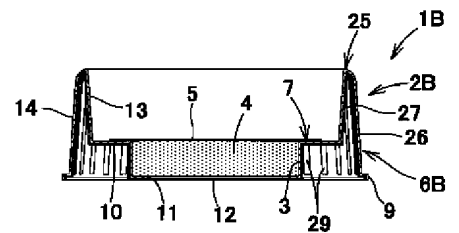
【図7】



【図8】

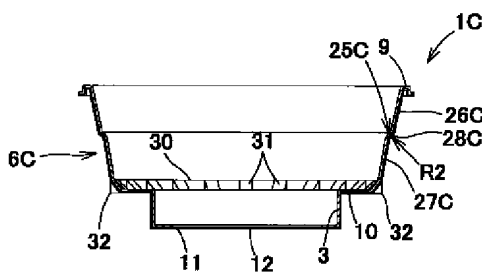


【図9】

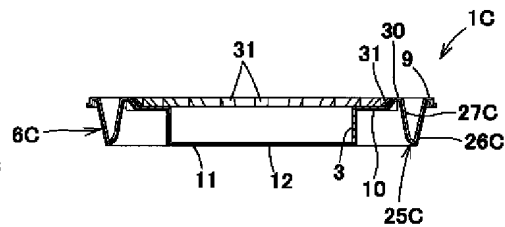


【図11】

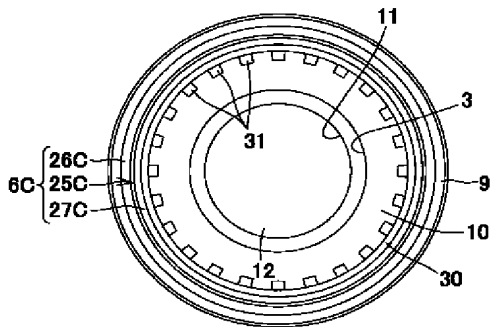
【図10】



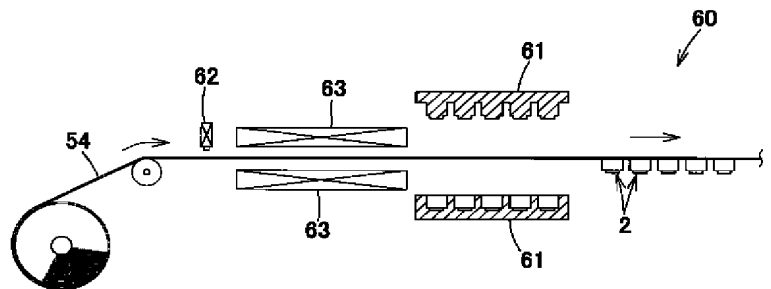
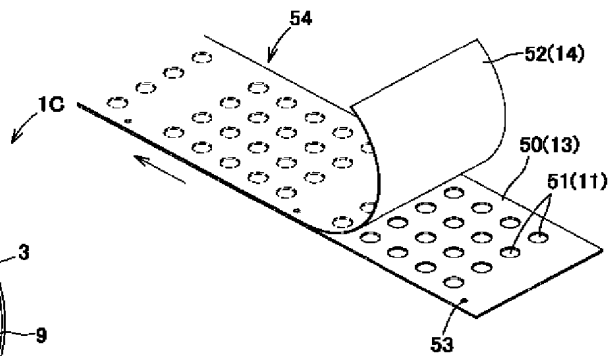
【図13】



【図12】



【図15】





PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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— relative au droit du déposant de revendiquer la priorité de la demande antérieure (règle 4.17.iii) pour toutes les désignations
— relative à la qualité d'inventeur (règle 4.17.iv) pour US seulement

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En ce qui concerne les codes à deux lettres et autres abréviations, se référer aux "Notes explicatives relatives aux codes et abréviations" figurant au début de chaque numéro ordinaire de la Gazette du PCT.

(3) introduit dans l'appareil, un microprocesseur (12) permettant de crypter/décrypter, analyser, comparer, approuver/refuser et stocker des informations (11) lues sur un réceptacle (3), et agencé pour sélectivement démarrer ou non un cycle d'opérations comprenant le perçage de la partie supérieure du réceptacle (3) et l'injection du liquide, ainsi que pour le stockage des informations (11) lues afin d'être prêt pour démarrer un nouveau cycle.

APPAREIL PERMETTANT D'ETABLIR LA TRAÇABILITE D'UN CONTENU DANS UN RECEPTACLE ET L'ORIGINE DUDIT RECEPTACLE

La présente invention est relative au domaine des réceptacles, plus particulièrement aux réceptacles permettant l'emmagasinage ou le transport de substances destinées à aromatiser des boissons.

Un réceptacle est un contenant qui reçoit son contenu de diverses provenances.

La traçabilité est la possibilité d'identifier l'origine d'un produit tout en reconstituant son parcours, depuis sa production jusqu'à sa diffusion.

- 10 Il est connu d'utiliser des appareils permettant d'obtenir du café par infusion, ce dernier étant conservé dans un réceptacle appelé capsule.

- Un tel appareil est décrit dans la publication EP 0607159 A1 qui présente une machine pour produire automatiquement des cafés ou boissons similaires à partir d'une pluralité de réceptacles préformés. Ce type d'appareil n'utilise pas
15 de moyens électroniques de reconnaissance des réceptacles dont la seule fonction est de préserver l'arôme du contenu afin qu'il conserve les meilleures saveurs.

- Un procédé pour extraire une substance aromatique contenue dans un réceptacle hermétique est décrit dans le document EP 025810 A1 qui préconise
20 l'injection d'eau chaude dans ledit réceptacle et, une fois des conditions de température/pression obtenues, amener une membrane de celui-ci à s'ouvrir permettant au liquide imprégné de la substance aromatique de s'en échapper. Ce dispositif n'utilise pas des réceptacles sécurisés permettant la traçabilité du contenu desdits réceptacles.

- 25 Le document DE20105605U présente un dispositif qui garantit l'hermétisme d'un réceptacle, assurant ainsi la qualité du produit qu'il contient. Il est à noter que ce dispositif est muni d'un transpondeur et permet de détruire un système visible de sécurité porté par les réceptacles qu'il utilise.

Le document WO02078498 présente un identificateur lisible situé sur le sommet de réceptacles utilisés par des machines à café Espresso, ce qui permet de garantir la qualité d'un produit en détruisant des informations d'hermétisme portées par ledit réceptacle. Ce dispositif est visible ce qui permet
5 la reprise des informations contenues dans le dispositif.

Le but de la présente invention est de proposer un appareil permettant de lire la traçabilité d'un contenu dans un réceptacle et de déterminer l'origine des contenants que ledit appareil utilise.

Ce but est atteint par un appareil permettant d'établir la traçabilité d'un contenu
10 dans un réceptacle et l'origine dudit réceptacle sur lequel figurent des informations lisibles au moyen d'un lecteur optique et/ou magnétique mais invisibles à l'œil nu, ledit réceptacle étant du type comportant une partie supérieure perforable pour l'injection du liquide dans le réceptacle et une membrane inférieure perforable sous pression pour la sortie dudit liquide
15 aromatisé par le contenu du réceptacle, l'appareil comprenant un lecteur optique et/ou magnétique pour la lecture desdites informations sur un réceptacle introduit dans l'appareil, et un microprocesseur permettant de crypter/décrypter, analyser, comparer, approuver/refuser et stocker des informations lues sur un réceptacle, et agencé pour sélectivement démarrer ou
20 non un cycle d'opérations comprenant le perçage de la partie supérieure du réceptacle et l'injection du liquide, ainsi que pour le stockage des informations lues afin d'être prêt pour démarrer un nouveau cycle.

On obtient ainsi un système qui identifie un réceptacle, compare l'information que porte celui-ci au code du fabricant contenu dans une mémoire du système,
25 accepte ou refuse l'information, mémorise celle-ci afin de ne pas permettre sa récupération, autorise la distribution de produits et recommence un cycle de travail. Il est à noter que l'information contient les données concernant la traçabilité du produit mais également celles concernant l'origine du réceptacle et sont apposées sur ce dernier par le fabricant au moment de la production de
30 celui-ci.

L'identification est opérée, notamment sur une base magnétique portant les informations de traçabilité et d'origine, par un lecteur à tête magnétique tournante qui lit l'information et la transmet.

5 L'acceptation/refus sont déterminés par un microprocesseur qui, après avoir crypter les informations d'origine, compare celles-ci aux codes clés du fabricant afin de libérer/refuser la distribution de produits.

La mémorisation est fournie par le fabricant au moyen notamment de puces électroniques qui sont installées sur le dispositif.

10 En fin de séquence, un redémarrage du cycle est entamé par logiciel incorporé ce qui permet à l'utilisateur de ne pas devoir agir manuellement d'une part et garantit la mise en place automatique des fonctions susmentionnées d'autre part.

15 Dans une forme d'exécution, l'information sur le réceptacle est indiquée sous forme de code-barre U.V. situé notamment autour de la surface latérale extérieure du réceptacle. Dans ce cas le dispositif comporte avantageusement des moyens de lecture à tête laser tridimensionnels. Le code-barre U.V. est inscrit à l'aide d'encre incolore, visible seulement sous exposition de rayons ultra violets (U.V.).

20 Dans une autre forme d'exécution, le réceptacle est en matière amagnétique et l'information se trouve sur un ruban circulaire à l'intérieur dudit réceptacle.

Enfin, une autre variante de l'invention présente un réceptacle où le code magnétique est placé entre le couvercle et le corps du réceptacle. Dans ce cas l'information est stockée dans une bande magnétique souple en forme d'anneau.

25 L'invention sera mieux comprise grâce à la description détaillée qui va suivre en se référant aux dessins annexés dans lesquels :

- La figure 1 représente, à titre d'exemple, un schéma de principe d'un système permettant de déterminer la traçabilité d'un contenu dans un réceptacle et l'origine dudit réceptacle.
- 5 - La figure 2 représente schématiquement une vue en perspective d'une information en code-barre visible par exposition aux rayons U.V. et lisible par lecture laser.
- La figure 3 représente une vue en perspective de la disposition du marquage code-barre sur un réceptacle.
- 10 - La figure 4 représente, en variante, une vue en perspective d'une bande magnétique contenant les informations de traçabilité/origine perpendiculaire à son support et introduite dans son support.
- La figure 5 représente, en variante, une vue en perspective et partiellement en coupe d'un assemblage du support des informations dans la base duquel s'introduit une bande magnétique contenant les informations.
15
- La figure 6 représente, en variante, une vue en perspective d'une bande magnétique contenant les informations de traçabilité/origine perpendiculaire à son support et située à l'extérieur dudit support.
- 20 - La figure 7 représente une vue en perspective et en coupe d'un fil magnétique entourant la base du support et contenant les informations de traçabilité/origine.

Dans une forme d'exécution, illustrée aux figures 1, 2 et 3, un système permettant la traçabilité d'un contenu dans un réceptacle (3) et l'origine dudit réceptacle comprend :

- 25 - un support (1),
- un microprocesseur (12),

- un module de distribution (18) de produits,
- un dispositif de lecture laser (9),
- un dispositif d'émission de rayons U.V. (10), et
- un réceptacle (3) comportant les informations (11) de traçabilité/origine.

5 Le support (1) est notamment une machine à café permettant l'injection de liquide dans le réceptacle (3).

Le microprocesseur (12) contrôle les fonctions suivantes et tel qu'illustré à la figure 1:

- 10 - L'identification (a) de la base portant les informations (11) de traçabilité/origine.
- Cryptage ou décryptage (b) des informations (11) situées sur le réceptacle (3).
- Analyse (c) des informations (11).
- Acceptation ou refus (d) des informations (11).
- 15 - Comparaison (e) des informations (11) situées sur le réceptacle (3) avec les données que contient le système.
- Approbation ou refus (f) de la distribution des produits (30, 31, 32).
- Stockage (g) des informations (11) après usage, notamment dans la mémoire.
- 20 - Redémarrage (h) automatique d'un cycle.

Le module de distribution de produits (18) comporte une électronique de commande des ouvertures notamment du liquide à injecter dans le réceptacle (3), des matières, telles que du sucre (31) et du lait (32), à insérer dans ledit

liquide aromatisé délivré par le réceptacle (3) et des dispositifs tels que des cuillères (30) permettant le brassage des matières au liquide et par simple numérotation de celle-ci, d'identifier le destinataire.

5 Le dispositif de lecture laser (9) est équipé notamment d'une tête de lecture (5 – Fig. 2) à travers laquelle les informations (11) sont distribuées au microprocesseur (12). La tête de lecture laser (5) est fixée au support (1) et située de manière à permettre la lecture des informations (11) sur un réceptacle (3) lorsque ce dernier est introduit dans le support (1).

10 Le réceptacle (3) comporte un support (13) de forme notamment cylindrique ou tronc conique sur lequel, dès son conditionnement, les informations (11) ont été apposées sur son pourtour, d'une base (14) circulaire qui permet de retenir la substance, notamment du café, devant être filtrée. Cette base (14) est perforable sous l'action de la pression du liquide de manière à laisser passer le liquide à filtrer et à aromatiser.

15 Les informations (11) se présentent sous forme de code-barre (23 – Fig. 2) invisible inscrit à l'aide d'une encre réactive à l'éclairage ultra-violet (U.V.). Le code-barre (23) est visible lorsqu'il est soumis à une source (6 – Fig. 2) de rayonnement ultra-violet (U.V.). Les informations (11) comportent toutes les indications relatives à la traçabilité du produit contenu dans le réceptacle (3) et
20 à l'origine de ce dernier.

Le réceptacle (3), disposant du code-barre (23), est acheminé sous la tête de lecture laser (5). Le code-barre (23) est soumis au rayonnement U.V. émis par la source (6).

25 Les informations (11) sont lues et transmises au microprocesseur (12) qui déclenche, en cas de reconnaissance positive de celle-ci, les opérations susmentionnées et, en cas de reconnaissance négative, rejette lesdites informations (11) et arrête la procédure de déclenchement du module de distribution (18) pour interrompre la procédure de perçage de la partie supérieure du réceptacle (3) et d'extraction des produits (30, 31, 32).

Il est à noter que le microprocesseur (12) émet une clé, recalculée par algorithme, sous forme de chiffres et de lettres ce qui représente l'indication comparée aux données du fabricant. Toutes les clés, après traitement, sont mémorisées dans la mémoire interne du microprocesseur (12).

- 5 Une clé est attribuée avantageusement à un seul code-barre (23) ce qui permet d'utiliser le réceptacle (3) une seule fois. Un réceptacle (3) sans code-barre (23) est automatiquement rejeté de même qu'un code-barre (23) erroné et la réutilisation d'un code-barre (23) usagé sont rejetés par comparaison des clés.

- 10 Les figures 4 et 5 illustrent une forme d'exécution où le réceptacle (3) est en matière amagnétique et les informations (11) se trouvent sur un ruban notamment magnétique circulaire (20) à l'intérieur dudit réceptacle (3).

La figure 6 illustre une variante de l'invention qui présente un réceptacle (3) où les informations (11) sont placées entre un couvercle (17) perforable et la base (14) du réceptacle (3), sous la forme d'un anneau (15).

- 15 La figure 7 illustre une variante qui consiste à loger un fil métallique (8) dans la base (14) du réceptacle (3) de telle façon que les informations (11) soient enregistrées notamment sous forme magnétique.

20

25

REVENDICATIONS

1. Appareil permettant d'établir la traçabilité d'un contenu dans un réceptacle (3) et l'origine dudit réceptacle (3) sur lequel figurent des informations (11) lisibles au moyen d'un lecteur optique et/ou magnétique
5 mais invisibles à l'œil nu, ledit réceptacle (3) étant du type comportant une partie supérieure perforable pour l'injection du liquide dans le réceptacle (3) et une membrane inférieure perforable sous pression pour la sortie dudit liquide aromatisé par le contenu du réceptacle (3), l'appareil comprenant :
- 10 - un lecteur (9) optique et/ou magnétique pour la lecture desdites informations (11) sur un réceptacle (3) introduit dans l'appareil,
- un microprocesseur (12) permettant de crypter/décrypter, analyser, comparer, approuver/refuser et stocker des informations (11) lues sur un réceptacle (3), et agencé pour sélectivement démarrer ou non un
15 cycle d'opérations comprenant le perçage de la partie supérieure du réceptacle (3) et l'injection du liquide, ainsi que pour le stockage des informations (11) lues afin d'être prêt pour démarrer un nouveau cycle.
2. Appareil selon la revendication 1 caractérisé en ce qu'il comporte un dispositif d'émission de rayons UV permettant la lecture d'un code-barre
20 (23) invisible à l'œil nu situé sur le réceptacle (3).
3. Appareil selon la revendication 1 ou 2 caractérisé en ce qu'il comporte une tête de lecture magnétique qui lit les informations (11) magnétiques portées par le réceptacle (3).
4. Appareil selon l'une des revendications précédentes caractérisé en ce
25 qu'il comporte un module (18) pour distribuer des produits, tels que du sucre (31) et du lait (32) et des dispositifs tels que des cuillères (30) permettant le brassage avec le liquide et permettant l'identification du destinataire, ceci conjointement avec la sortie du liquide aromatisé.

5. Appareil selon l'une des revendications précédentes caractérisé en ce qu'il comporte une tête de lecture laser (5) fixée au support (1).
6. Réceptacle du type comportant une partie supérieure perforable pour l'injection du liquide dans le réceptacle (3) et une membrane inférieure perforable sous pression pour la sortie dudit liquide aromatisé par le contenu du réceptacle (3), utilisable par l'appareil selon l'une quelconque des revendications précédentes caractérisé en ce qu'il comporte des informations (11) lisibles au moyen d'un lecteur optique et/ou magnétique mais invisibles à l'œil nu.
7. Réceptacle utilisable par l'appareil selon la revendication 6 caractérisé en ce qu'il est en matière amagnétique et les informations (11) se trouvent sur un ruban circulaire (20) à l'intérieur dudit réceptacle (3).
8. Réceptacle utilisable par l'appareil selon l'une des revendications 6 ou 7 caractérisé en ce qu'il dispose d'un code magnétique (15) placé entre son couvercle (17) et sa base (14).
9. Réceptacle utilisable par l'appareil selon l'une des revendications 6, 7 ou 8 caractérisé en ce que les informations (11) qu'il porte se présentent sous forme de code-barre (23) invisible inscrit à l'aide d'une encre réactive à l'éclairage ultra-violet (UV).
10. Réceptacle utilisable par l'appareil selon l'une des revendications 6 à 9 caractérisé en ce que les informations (11) qu'il porte comportent des indications relatives à la traçabilité.
11. Réceptacle utilisable par l'appareil selon l'une des revendications 6 à 10 caractérisé en ce que les informations (11) qu'il porte comportent des indications relatives à l'origine du réceptacle (3).
12. Réceptacle utilisable par l'appareil selon l'une des revendications 6 à 11 caractérisé en ce que les informations (11) qu'il porte sont stockées sur une bande magnétique (15) souple.

13. Réceptacle utilisable par l'appareil selon l'une des revendications 6 à 12 caractérisé en ce que les informations (11) qu'il porte sont stockées sur un anneau (8).
- 5 14. Système permettant d'établir la traçabilité d'un contenu dans un réceptacle (3) et l'origine dudit réceptacle (3), comportant un appareil selon l'une des revendications 1 à 5 et une pluralité de réceptacles selon l'une des revendications 6 à 13.
- 10 15. Procédé d'utilisation d'un appareil selon l'une des revendications 1 à 5 et/ou d'un réceptacle selon l'une des revendications 6 à 13 caractérisé en ce qu'il comporte les étapes suivantes :
- identification (a) de la base portant les informations (11) de traçabilité du contenu dans le réceptacle (3) et d'origine dudit réceptacle (3),
 - cryptage/décryptage (b) des informations (11) situées sur le réceptacle (3),
 - 15 - analyse (c) des informations (11),
 - acceptation ou refus (d) des informations (11),
 - comparaison (e) des informations (11) situées sur le réceptacle (3) avec les données qu'il contient,
 - 20 - approbation/refus (f) du perçage de la partie supérieure du réceptacle (3) et l'injection du liquide, éventuellement aussi de la distribution des produits (30, 31, 32) conjointement avec la sortie du liquide aromatisé.
 - stockage (g) des informations (11) dans la mémoire interne après usage,
 - redémarrage (h) automatique d'un cycle.

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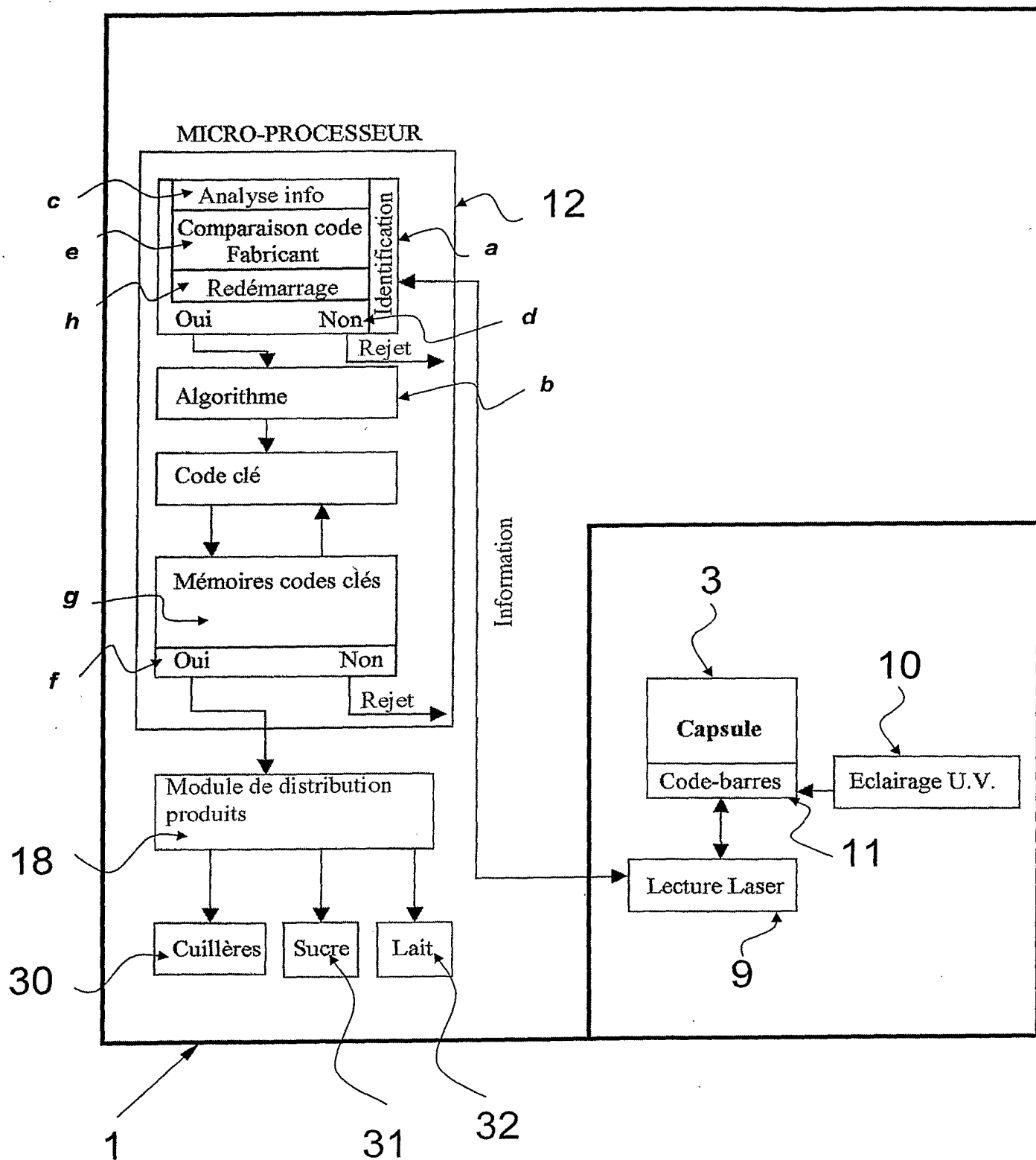


Fig. 1

2/4

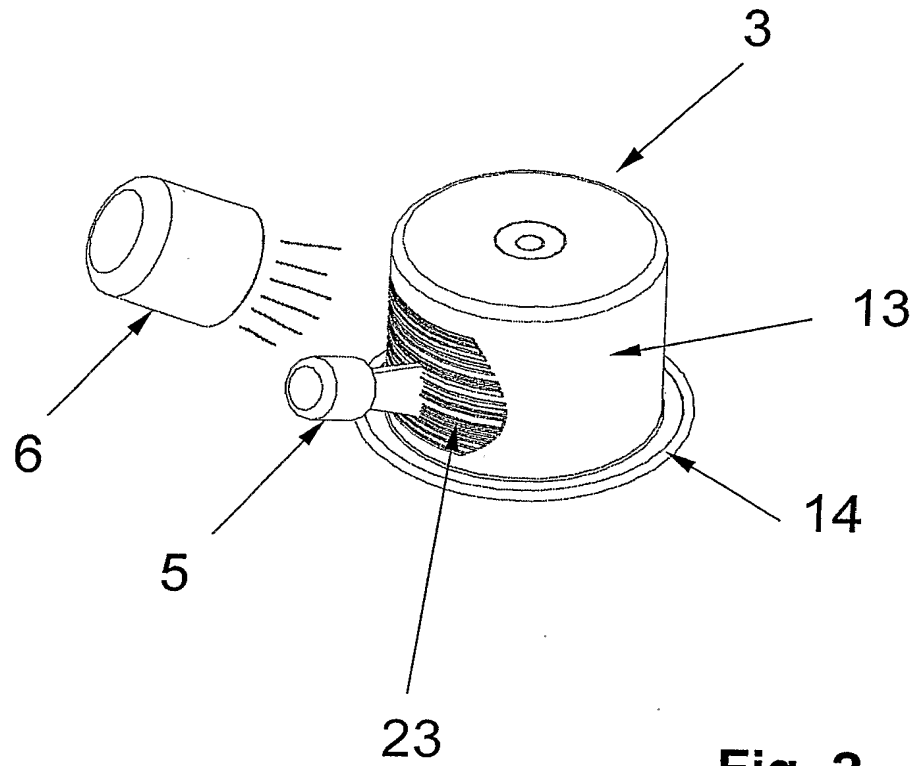


Fig. 2

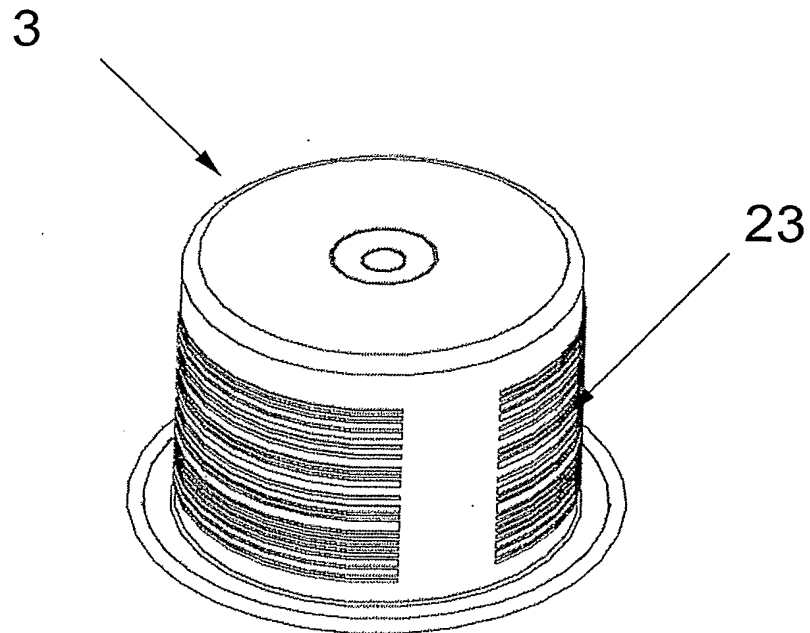


Fig. 3

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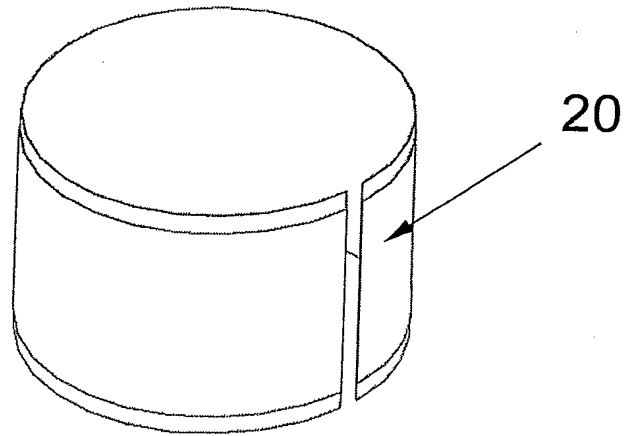


Fig. 4

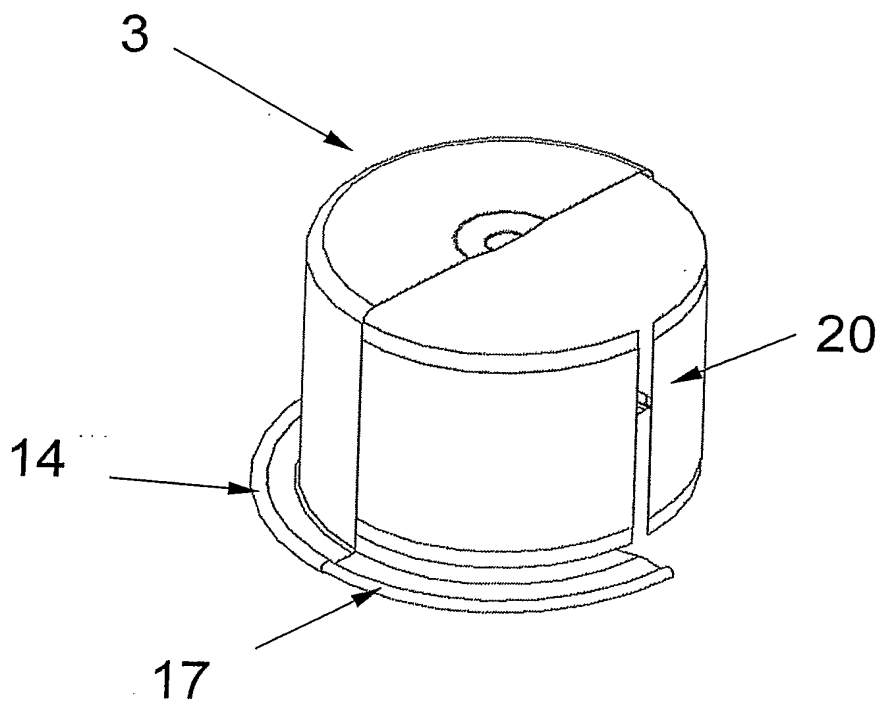


Fig. 5

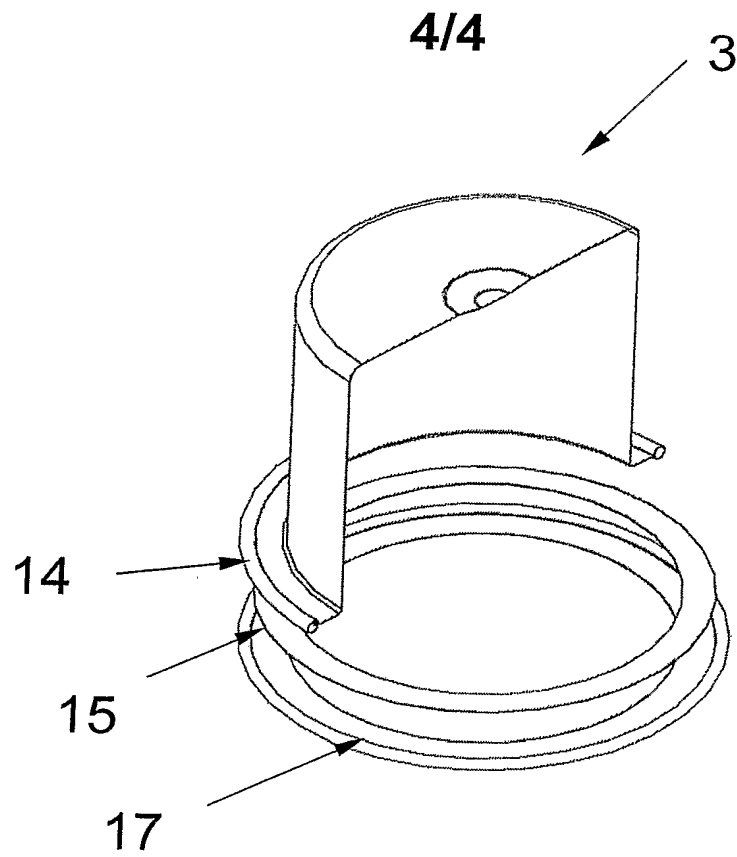


Fig. 6

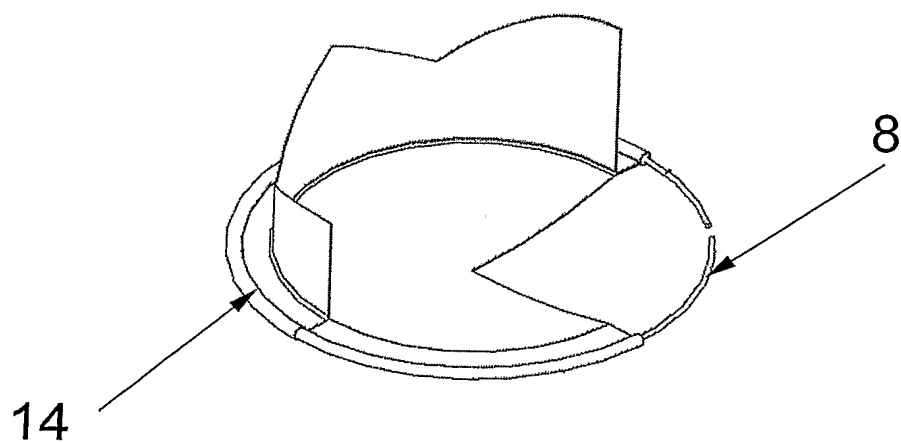


Fig. 7

INTERNATIONAL SEARCH REPORT

International Application No

IB2004/003524

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A47J31/40 B65D81/00

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A47J B65D

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

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

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/28241 A (BOYD COFFEE CO) 11 April 2002 (2002-04-11) page 5, paragraph 4 - page 11, paragraph 3 page 11, paragraph 3; figures claim 7	1,3,4,6, 8,10-15
A	WO 02/078498 A (EUGSTER FRISMAG AG ; MAHLICH GOTTHARD (DE)) 10 October 2002 (2002-10-10) cited in the application page 8, line 6 - page 10, line 9; figures	6-13
A	US 6 117 471 A (KING ALAN M) 12 September 2000 (2000-09-12) column 3, line 39 - column 5, line 23; figures	1,6,14, 15
	----- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International Application No

IB2004/003524

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 858 523 A (HELBLING EDWARD) 22 August 1989 (1989-08-22) column 10, lines 25-35; claims 11,12; figure 2 -----	1,6

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No

IB2004/003524

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0228241	A	11-04-2002	AU 1148902 A	15-04-2002
			WO 0228241 A1	11-04-2002
			US 2002048621 A1	25-04-2002
WO 02078498	A	10-10-2002	DE 10116239 A1	17-10-2002
			CA 2442389 A1	10-10-2002
			DE 20121494 U1	17-10-2002
			WO 02078498 A1	10-10-2002
			EP 1379153 A1	14-01-2004
			JP 2004525829 T	26-08-2004
			NO 20034325 A	05-11-2003
			US 2004089158 A1	13-05-2004
US 6117471	A	12-09-2000	US 5974950 A	02-11-1999
US 4858523	A	22-08-1989	US 4967648 A	06-11-1990
			US 5080008 A	14-01-1992
			US 5072660 A	17-12-1991
			US 5158793 A	27-10-1992

RAPPORT DE RECHERCHE INTERNATIONALE

Demande Internationale No

IB2004/003524

A. CLASSEMENT DE L'OBJET DE LA DEMANDE CIB 7 A47J31/40 B65D81/00		
Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB		
B. DOMAINES SUR LESQUELS LA RECHERCHE A PORTE Documentation minimale consultée (système de classification suivi des symboles de classement) CIB 7 A47J B65D		
Documentation consultée autre que la documentation minimale dans la mesure où ces documents relèvent des domaines sur lesquels a porté la recherche		
Base de données électronique consultée au cours de la recherche internationale (nom de la base de données, et si réalisable, termes de recherche utilisés) EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERES COMME PERTINENTS		
Catégorie °	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées
X	WO 02/28241 A (BOYD COFFEE CO) 11 avril 2002 (2002-04-11) page 5, alinéa 4 – page 11, alinéa 3 page 11, alinéa 3; figures revendication 7 -----	1,3,4,6, 8,10-15
A	WO 02/078498 A (EUGSTER FRISMAG AG ; MAHLICH GOTTHARD (DE)) 10 octobre 2002 (2002-10-10) cité dans la demande page 8, ligne 6 – page 10, ligne 9; figures -----	6-13
A	US 6 117 471 A (KING ALAN M) 12 septembre 2000 (2000-09-12) colonne 3, ligne 39 – colonne 5, ligne 23; figures -----	1,6,14, 15
----- -/-		
☒ Voir la suite du cadre C pour la fin de la liste des documents ☒ Les documents de familles de brevets sont indiqués en annexe		
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C.(suite) DOCUMENTS CONSIDERES COMME PERTINENTS		
Catégorie °	Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents	no. des revendications visées
A	US 4 858 523 A (HELBLING EDWARD) 22 août 1989 (1989-08-22) colonne 10, ligne 25-35; revendications 11,12; figure 2 -----	1,6

Formulaire PCT/ISA/210 (suite de la deuxième feuille) (Janvier 2004)

RAPPORT DE RECHERCHE INTERNATIONALE

IB2004/003524

Document brevet cité au rapport de recherche		Date de publication	Membre(s) de la famille de brevet(s)	Date de publication
WO 0228241	A	11-04-2002	AU 1148902 A	15-04-2002
			WO 0228241 A1	11-04-2002
			US 2002048621 A1	25-04-2002
WO 02078498	A	10-10-2002	DE 10116239 A1	17-10-2002
			CA 2442389 A1	10-10-2002
			DE 20121494 U1	17-10-2002
			WO 02078498 A1	10-10-2002
			EP 1379153 A1	14-01-2004
			JP 2004525829 T	26-08-2004
			NO 20034325 A	05-11-2003
			US 2004089158 A1	13-05-2004
US 6117471	A	12-09-2000	US 5974950 A	02-11-1999
US 4858523	A	22-08-1989	US 4967648 A	06-11-1990
			US 5080008 A	14-01-1992
			US 5072660 A	17-12-1991
			US 5158793 A	27-10-1992

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- (72) **Inventor; and**
- (71) **Applicant : RAPPARINI, Gino** [IT/IT]; Via Croara 3/5,
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- (74) **Agent: TORTI, Carlo;** Grünecker, Kinkeldey, Stockmair
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(54) **Title:** FILTERING AND PERMEABLE CONTAINER FOR SUBSTANCES SUITABLE FOR THE PREPARATION OF BEVERAGES

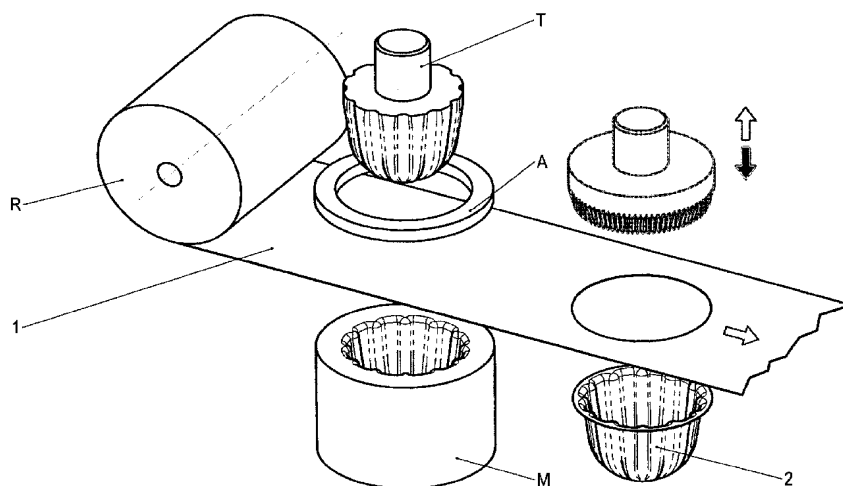


FIG. 5

(57) **Abstract:** Filtering and permeable container for substances (6) suitable for the preparation of beverages, the container being made by means of thermoforming starting from a flat strip (1) of permeable, filtering and thermoformable material, wherein the body (2) of the container comprises longitudinal stiffening ribs (4) wherein the length of the ribs (4) is variable along the surface of the body (2). The container can be adapted to contain water-soluble products or coffee, tea, herbal tea, or similar substances adapted to obtain hot or cold beverages.



⑫

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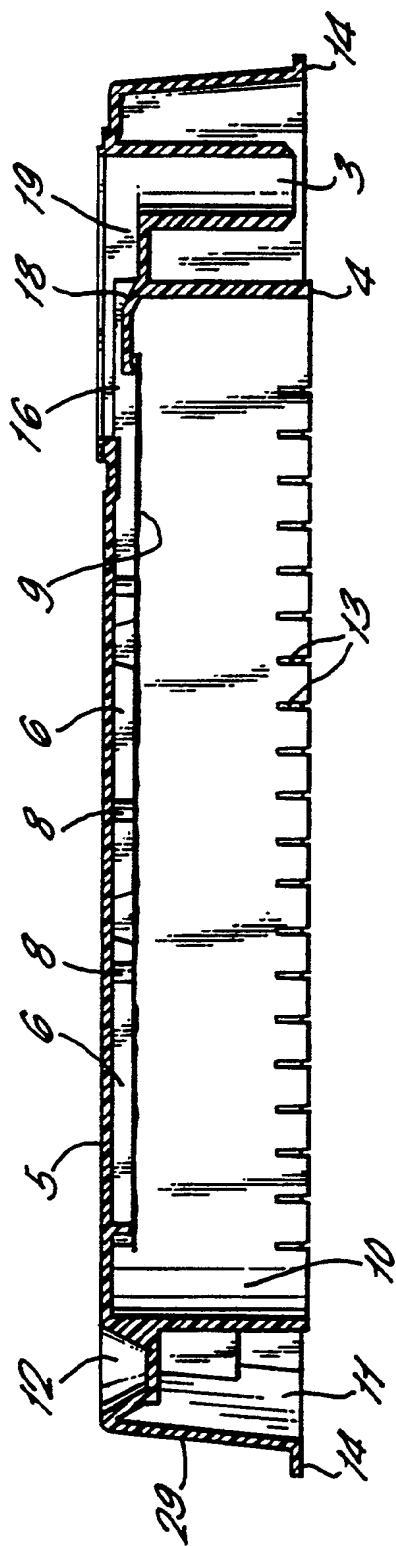
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⑤④ **Beverage preparation cartridge.**

⑤⑦ A beverage package (1) containing one or more beverage preparation ingredients and being formed from substantially air- and water-impermeable materials, the said package comprising a compartment (2) containing the beverage preparation ingredient(s), an inlet (12) which communicates with the said compartment and an outlet (3), a filter (9) being disposed between the compartment and at least a part of the under surface (5) of the top of the package, one or more passages (15) being formed between the filter and the top of the package, which passage(s) communicate with the outlet whereby, in use, a liquid medium is passed into the compartment containing the beverage preparation ingredient(s), filtered upwardly through the filter and collected through the outlet.

EP 0 455 337 A1

FIG. 5.



The present invention relates to packages containing ingredients for the preparation of beverages and, in particular, to sealed packages which are formed from a substantially air- and water-impermeable material and which contain one or more ingredients for the preparation of beverages.

It has previously been proposed to seal beverage preparation ingredients in individual air-impermeable packages. For example, cartridges or capsules containing compacted ground coffee are known for use in certain coffee making machines which are generally termed "espresso" machines. In the production of coffee using these coffee machines the coffee cartridge is placed in a brewing chamber and hot water is generally caused to pass under pressure through the cartridge, thereby extracting the aromatic coffee constituents from the ground coffee and producing a coffee beverage.

Cartridges containing roast and ground coffee in which hot water flows under gravimetric force through the cartridge are also known. A cartridge of this general type is described in British Patent No. 1397116.

In our European Patent Application No. 87311325.2 there is described a package which contains at least one beverage preparation ingredient, e.g. roast and ground coffee. In a preferred embodiment the package is formed from a substantially air- and water-impermeable material and comprises a sealed body portion having a compartment containing the beverage ingredient and an outlet channel, the compartment and the outlet channel co-operating in such a manner that, in use, the beverage is filtered, thereby avoiding the necessity for an external filter.

There is also described in European Patent Application No. 87311325.2, a method for preparing a beverage which comprises positioning a beverage containing package at a brewing station, introducing water through water introduction means into the package, allowing the water to commingle with the beverage ingredient, and collecting the beverage so-formed through an outlet formed in the package.

The beverage packages as described in European Patent Application No. 87311325.2 are primarily intended to be used with a beverage preparation machine which handles the packages automatically or semi-automatically. A machine of this type is described in our European Patent Application No. 89302708.6. The packages may contain roast and ground coffee, leaf tea or one or more powdered beverage preparation ingredients such as powdered chocolate, powdered coffee or powdered soup.

We have now developed a package containing one or more ingredients for the preparation of beverages in which a filter is disposed in such a manner that the beverage so produced is filtered upwardly through the filter.

Accordingly, the present invention provides a beverage package containing one or more beverage

preparation ingredients and being formed from substantially air- and water-impermeable materials, the said package comprising a compartment containing the beverage preparation ingredient(s), an inlet which communicates with the said compartment and an outlet, a filter being disposed between the compartment and at least a part of the under surface of the top of the package, one or more passages being formed between the filter and the top of the package, which passage(s) communicate with the outlet whereby, in use, a liquid medium is passed into the compartment containing the beverage preparation ingredient(s), filtered upwardly through the filter and collected through the outlet.

The beverage package of the present invention preferably has a body portion which may be formed, for example, from a moulded plastics material. The inlet and/or outlet of the package may be closed by a plug of a plastics material moulded into the inlet and/or outlet nozzle during the moulding of the body portion. Alternatively, the inlet and/or outlet may be covered by a substantially air- and water-impermeable material, for example aluminium foil or a laminated material, such as a laminate of plastic material/metal foil/plastic material, prior to the opening of the inlet and/or outlet. Specific examples of materials which can be used are aluminium foil having a thickness in the range of from 30 to 60 micrometres coated with a layer of polypropylene or a laminate of polypropylene/aluminium foil/polyester.

The outlet in the package may be prepared during the beverage preparation cycle using a cutting and piercing tool for example of the type as described in our European Patent Application No. 89302708.6.

Alternatively, the inlet and/or outlet may be open and the beverage package provided with an outer wrapping or the like. For example, a plurality of packages may be provided with a shrink wrapped outer layer.

In the packages of the present invention, the communication between the inlet and the compartment containing the beverage preparation ingredient(s) is preferably via a channel which is separated from the compartment by a wall which has a plurality of openings formed therein for the entry of a liquid medium into the compartment. The channel preferably extends along at least one side of the compartment, more preferably along three sides of the compartment. The openings in the wall are preferably in the form of elongate slots which are generally arranged in a manner such that an even distribution of the liquid medium through the beverage preparation ingredients is achieved.

The filter is preferably made from a material with a high wet strength, for example a non-woven polyester fibre material or polypropylene. Other materials which may be used include a water-permeable cellulosic material, such as a cellulosic material compris-

ing woven paper fibres. The woven paper fibres may be admixed with fibres of polypropylene, polyvinylchloride and/or polyethylene. The incorporation of these plastics materials into the cellulosic material renders the cellulosic material heat-sealable. The filter material may also be coated with a material which is activated by heat and/or pressure so that it can readily be sealed to ribs formed in the under surface of the top of the package, thereby forming one or more passages which communicate with the outlet.

The beverage preparation ingredients contained in the packages of the invention are preferably roast and ground coffee, or leaf tea, and according to individual taste, powdered milk or creamer, sugar or artificial sweetener.

It will be understood that it may be convenient for the compartment containing the beverage preparation ingredients to be separated into two or more sections, for example, one section containing roast and ground coffee and another section containing powdered milk or creamer. In such an arrangement the means for the entry of the liquid medium into the separate compartments would be varied to suit the requirements for filtration or dissolution of the particular ingredients.

The package of the present invention, when filled with roast and ground coffee, preferably contains from 2.5 to 10 grams of roast and ground coffee, preferably from 4.5 to 6 grams for the preparation of a single cup. However, packages which are intended to provide multiple servings of coffee will contain an appropriate amount of roast and ground coffee, for example, packages intended to provide say five cups of coffee will contain from 20 to 50 grams of roast and ground coffee, preferably from 25 to 30 grams. The roast and ground coffee is generally compacted when the beverage package is filled in order to aid the distribution and transport of water through the package.

In use of the beverage packages of the present invention a liquid medium is passed via the inlet of the package into the compartment containing the beverage preparation ingredient(s). The filter is disposed at the top of the compartment containing the beverage preparation ingredient(s) and the liquid medium is thereby caused to flow upwardly through the beverage preparation ingredients. The beverage so formed flows upwardly through the filter into the passage or passages which communicate with the outlet.

Filtering the beverage in an upwardly direction has been found to be advantageous in that the smaller and lighter particles of the beverage preparation ingredients settle to the bottom of the compartment and hence the clogging of the filter by these small particles is mitigated. The beverage thus filters more rapidly upwardly through the filter than it would if the filter were placed beneath the beverage ingredients and the liquid medium caused to flow in a downwardly direction. Furthermore, the flow of water in an

upwardly direction through the package is advantageous in that the particles of the beverage preparation ingredient(s) float up towards the filter, thereby re-establishing the filter bed. This is of particular advantage if the particles of the beverage preparation ingredient(s) have settled during transport and/or storage and if holes or cracks have formed in the bed. The upward filtration causes the filter bed to re-establish in these situations, thereby providing a more effective filtration of the beverage preparation ingredient(s). With regard to the preparation of a beverage from tea leaves the upward filtration is particularly advantageous because the tea leaves float initially and then sink and the configuration of the beverage packages of the present invention prevents the wetted tea leaves from blinding the filter.

The quality of the filtration of beverage preparation ingredients, in particular roast and ground coffee, is known to affect the flavour of the beverage. The brewing and flavour characteristics for roast and ground coffee change with the roasting and grinding conditions and are effected by the size and shape of the particles. The beverage packages of the present invention enable efficient filtration to be achieved and thereby give rise to beverages which have little or no turbidity and a good flavour.

Another advantage of the package of the present invention is that with the continuous flow of water in an upwardly direction through the package a more effective wetting of the beverage preparation ingredient(s) is achieved. This is of importance for roast and ground coffee since the wetting of the particles causes the particles to swell and thus assists in preventing fine particles from passing through the filter. It will be appreciated that for the preparation of coffee from roast and ground coffee, or the preparation of tea from leaf tea, the liquid medium is hot water.

The present invention also includes within its scope a method for the preparation of a beverage from a sealed package containing one or more beverage preparation ingredients located in a compartment in the package, which method comprises introducing a liquid medium suitable for the preparation of the beverage under pressure into the package through an inlet formed therein, causing the liquid medium to enter the compartment thereby forming the beverage, filtering the beverage in an upwardly direction through a filter, and collecting the beverage so formed from an outlet formed in the package.

The packages of the present invention are preferably provided with a recognition means whereby, in use, the package is identified by the machine into which it is placed for treatment and the identification of the package thereby causes it to be subjected to the correct treatment steps including the introduction of a liquid medium into the package. For the preparation of beverages from beverage preparation ingredients the liquid medium introduced into the package

will generally be water or a water/air mixture.

The recognition means may comprise one or more surface features formed in the body of the beverage package. For example, the package body may be provided with one or more indents, cut outs, protrusions or holes which can be identified by a mechanical sensor in the beverage preparation machine, the mechanical sensor registering the presence or absence of the indents, cut outs, protrusions or holes.

The recognition means may, alternatively, comprise a system which can be sensed by a simple optical device, for example a bar code printed onto the body of the package, a pattern of through holes in the package, a pattern of contrasting tones or colours printed onto the package or packages containing different comestibles being of different colours.

The recognition means may also comprise one or more strips of a magnetic material applied to the body of the package which can be read by an appropriate magnetic sensor; one or more shaped or divided areas of metal foil applied to the package body which cause an inductive effect on movement of the package in the machine, which inductive effect can be sensed; or one or more electrically conductive areas formed on the body of the package which can be sensed electrically.

As mentioned above, the package of the present invention contains one or more beverage preparation ingredients, for example, roast and ground coffee or leaf tea and sugar and/or creamer, as desired. One machine which can readily be adapted for the preparation of a beverage from the preferred beverage package of the invention which includes a recognition means is described in our European Patent Application No. 89302708.6. The only modification required to be made to such a beverage preparation machine is to incorporate an appropriate sensor or sensors into it, the sensor or sensors being designed to read the particular coding on the capsule and to send a signal to the controller, which then selects the appropriate beverage preparation cycle.

The recognition system used on the beverage packages of the present invention enables a single beverage preparation machine to prepare from different beverage packages a great number of different beverages which require different beverage preparation conditions.

The packages of the present invention may be treated by a machine which includes therein one or more sensors which are adapted to sense and identify a recognition means provided on a package inserted into the machine.

The sensor may be, for example, a mechanical sensor, an optical sensor, a magnetic sensor, an electrical sensor or an inductive sensor. The machine is preferably adapted so that the package is handled automatically following its insertion into the machine. For example, a machine of the type as described in

our European Patent Application No. 89302708.6 can be fitted with an appropriate sensor to sense and identify a recognition means provided on beverage packages intended for use therewith.

The present invention will be further described with reference to the accompanying drawings, in which:-

Figure 1 is a perspective view of part of a beverage package of the invention;

Figure 2 is a top plan view of the beverage package of Figure 1;

Figure 3 is a section through the beverage package of Figure 1 along line A-A of Figure 2;

Figure 4 is a section through the beverage package of Figure 1 along line B-B of Figure 2; and
Figure 5 is a section along the line C-C of Figure 2;

Referring to the drawings a beverage package body is shown at 1. The body may be formed, for example, from a moulded plastics material. The body 1 has a compartment 2 in which the beverage preparation ingredient or ingredients are contained. The package body has an outlet nozzle 3 and an inlet 12 formed therein. The compartment 2 is separated from the area of the body in which the nozzle 3 is formed by means of a wall 4. The top 5 of the package 1 has four longitudinal ribs 6 moulded to the underside thereof which are shown as a plurality of dotted lines in Figure 2. The four ribs 6 are joined at either end by transverse ribs 7 which are also shown in dotted outline in Figure 2. The ribs 6 and 7 are strengthened at intervals by posts 8 which are also moulded to the underside of the top 5 of package 1. These posts 8 are also shown in dotted outline in Figure 2. A filter material 9 is heat sealed to ribs 6, ribs 7 and posts 8, the filter material 9 extends across a substantial part of the top of compartment 2.

Compartment 2 is separated from the outlet nozzle by a wall 4 and surrounded on its other three sides by a U-shaped wall 10. The wall 10 has a U-shaped channel 11 surrounding it, the channel 11 communicating with inlet 12. The wall 10 has a plurality of small slots 13 formed in the two longitudinal arms thereof.

In use of the beverage package as shown in the drawings, the bottom of the package 1 is sealed by means of an aluminium foil or a laminated foil which is heat sealed to the lower edges of walls 4 and 10 and to the lower edge 14 of the package. Water enters the package at a pressure of about 10^5 Pa via inlet 12 which is opened by piercing or cutting the material covering the said opening. The water enters the channel 11 surrounding three sides of the compartment 2 containing the beverage ingredients. The water, which is under pressure, is forced through the elongate slots 13 formed in the wall 10 which separates channel 11 from compartment 2. The water mixes with the beverage preparation ingredients contained in

compartment 2 and is forced upwardly through the beverage preparation ingredients. The beverage formed by passage of the water through the beverage preparation ingredients passes through filter material 9 into passages 15 which are formed between the ribs 6. The sealing of the filter material 9 onto ribs 6 and 7 prevents any short circuit and all of the beverage has to pass through the filter. The passages 15 are closed at the end remote from the outlet by transverse rib 7. The beverage formed by the passage of water through the beverage preparation ingredients also passes directly through the filter material 9 into areas 16 which communicate with passages 15. The beverage passes along passages 15, commingles with the beverage collected in areas 16 and is then funnelled by means of angled extensions 17 of the middle two ribs 6 over a weir 18 to a beverage collection area 19 and thence into outlet nozzle 3. The beverage is then collected in a cup or other receptacle placed below the outlet nozzle 3. It may be desirable to support the filter material 9 by means of additional support ribs in the passages 15 in order to prevent the filter material from bowing and sealing the passages.

Additional strengthening of the package of the invention is provided in the area adjacent the outlet nozzle, as best shown in Figure 4, by a hollow post 20 which is attached by ribs 21 arranged in cruciform fashion to the end wall 22, side wall 27 and wall 4.

Using the beverage package as illustrated in Figures 1 to 5 it is possible to prepare 160 ml of coffee from roast and ground coffee contained in compartment 2 in 20 seconds by passing water at a pressure of 10⁵Pa through the package.

The beverage package as illustrated in Figures 1 to 5 incorporates the recognition means which is a preferred feature of the invention. The package of the invention 1 containing one or more beverage preparation ingredients has a generally rectangular shape with flat top and bottom surfaces and is thereby suitable for insertion into a beverage preparation machine, for example of the type as described in our European Patent Application No. 89302708.6, longitudinally through a slot.

The package is also provided, as best shown in Figure 2, with teeth 25 moulded along one side wall of compartment 2. The teeth 25 have recesses 26 formed therebetween. These teeth 25 are intended to enable the beverage package to be driven through a beverage preparation machine by the engagement of the teeth 25 with the tooth of a cam (not shown). The side wall 27 of the beverage package has a flange 28 extending at right angles thereto. The flange 28 has an upstanding rib 30 at the end thereof near to the leading end 29 of the package.

As the package is driven into the beverage preparation machine the flange 28 is sensed as the side edge of the package passes beneath a sensing arm (not shown). The flange 28 has a plurality of upstand-

ing pegs 31,32,33,34 located therein and as the package is driven into the machine by the engagement of the teeth 25 with the tooth of a cam, the sensor senses the presence or absence of upstanding pegs 31,32,33,34.

If one or more of pegs 31,32,33,34 is not present the sensing arm will thereby identify a different type of beverage package. The sensing arm operates a switch (not shown) which thereby transmits information concerning the presence or absence of the pegs on the package to the control mechanism for the beverage dispensing machine. The arrangement of pegs 31,32,33,34 on the package thus identifies the type of package to the controller which then selects the appropriate beverage preparation conditions.

The presence or absence of three pegs provides scope for the sensing arm to sense up to 8 different types of beverage packages. Thus, if the presence of a peg at a particular location is coded as 1 and the absence of a peg coded as 0, the following code combinations can be achieved.

000
001
010
100
101
110
011
111

The presence of the additional fourth peg formed in flange 28 provides an even larger number of code combinations.

When the beverage preparation machine has selected the appropriate beverage preparation conditions, the water inlet 12 of the package is pierced or cut, the outlet 3 is uncovered in the package and water caused to flow under pressure through the compartment containing the beverage ingredient(s). The chosen beverage then being collected in a cup or receptacle placed below the outlet 3 of the package.

It will be appreciated that for different types of packages the beverage or other ingredient may require significantly different treatment. Thus, some beverages will be prepared with hot water and some with cold water, whilst others, such as espresso coffee, will require a smaller amount of water for their preparation. Preparation times may require to be varied. Similarly water and/or air may be required either for preparing/dispensing the beverage/content of the package or for the purpose of pre-cleaning an inlet pipe or flushing out a used package. Furthermore, a user may require a particular beverage to be dispensed in combination with one or more ingredients from independent sources, e.g. powdered milk and/or sugar.

The present invention will be further illustrated with reference to the following non-limiting Example.

EXAMPLE

The following experiments were conducted in respect of the preparation of beverages from coffee capsules, adapted for upward or downward filtration, which had been subject to vibration during transport and distribution. The capsules were each tapped prior to the preparation of the beverages.

Downward Filtration**Sample 1**

6.3g of roast and ground coffee contained in a capsule adapted for downward filtration gave 153cc of a coffee beverage at 0.8% solids with a yield of 19.4%.

Sample 2

6.3g of roast and ground coffee contained in a capsule adapted for downward filtration gave 153cc of a coffee beverage at 0.81% solids with a yield of 19.7%.

Upward Filtration**Sample 3**

6.3g of roast and ground coffee contained in a capsule adapted for upward filtration, when brewed in the same manner as for samples 1 and 2, gave 156cc of a coffee beverage at 1.04% solids with a yield of 25.7%.

Sample 4

6.3g of roast and ground coffee contained in a capsule adapted for upward filtration, when brewed in the same manner as for samples 1 and 2, gave 158cc of a coffee beverage at 1.02% solids with a yield of 25.6%.

These results indicate an improvement of approximately 20% yield.

Claims

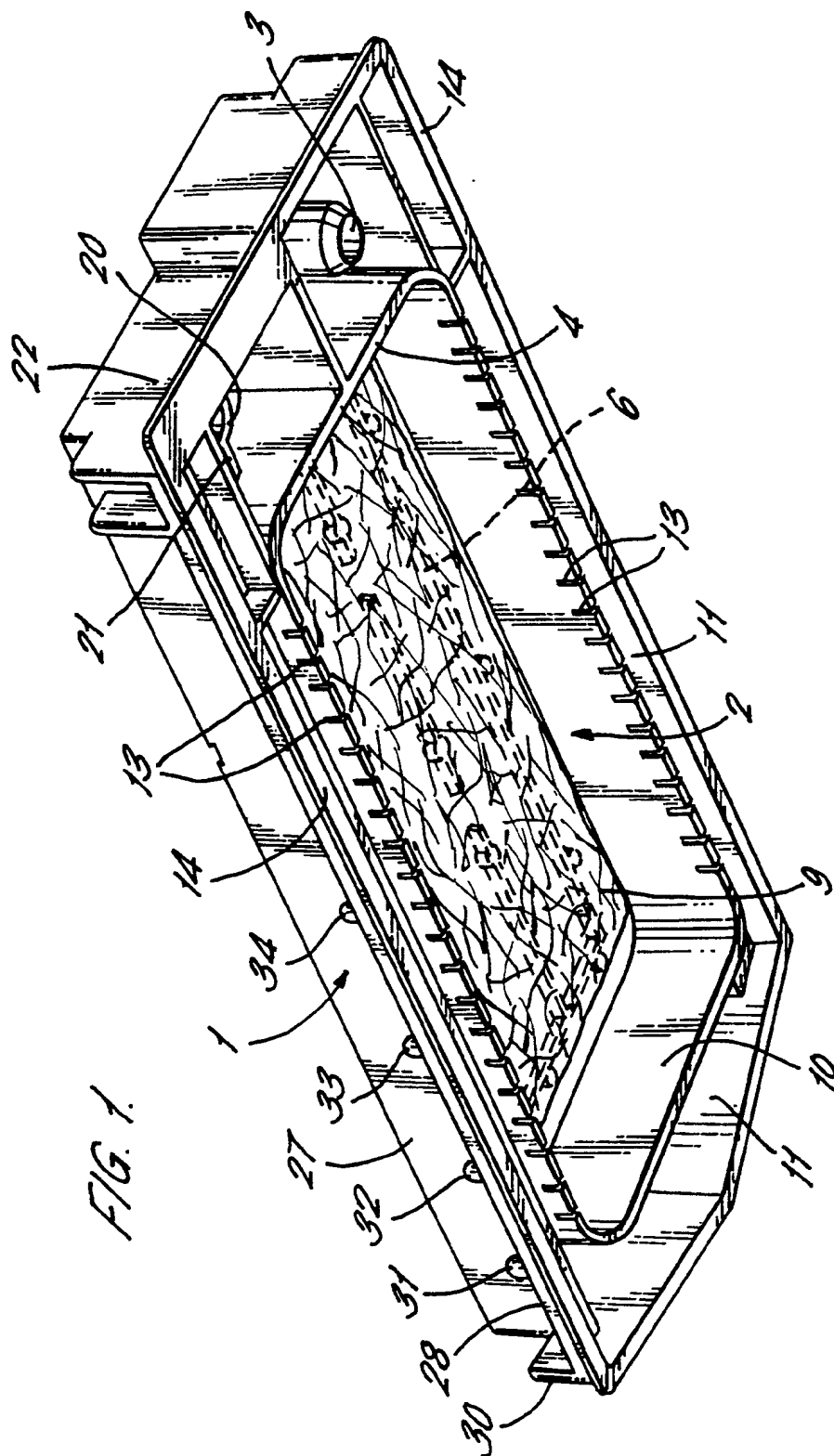
1. A beverage package containing one or more beverage preparation ingredients and being formed from substantially air- and water-impermeable materials, the said package comprising a compartment containing the beverage preparation ingredient(s), an inlet which communicates with the said compartment and an outlet, a filter being disposed between the compartment and at least a part of the under surface of the top of the package, one or more passages being formed between the filter and the top of the package, which passage(s) communicate with the outlet whereby, in use, a liquid medium is passed into the compartment containing the beverage preparation ingredient(s), filtered upwardly through the filter and collected through the outlet.
2. A package as claimed in claim 1 wherein the inlet and/or outlet is covered by a substantially air- and water-impermeable material prior to the formation, in use, of an outlet in the package.
3. A package as claimed in claim 1 wherein the inlet and/or outlet is closed by a plug prior to the formation, in use, of an outlet in the package.
4. A package as claimed in any one of the preceding claims wherein a channel communicates with the inlet for the entry of a liquid medium into the package, the channel being separated from the compartment by a wall which has a plurality of openings formed therein for the entry of the liquid medium into the compartment containing the beverage preparation ingredient(s).
5. A package as claimed in claim 4 wherein the channel extends along at least one side of the compartment containing the beverage preparation ingredient(s).
6. A package as claimed in claim 4 or claim 5 wherein the channel extends around three sides of the compartment containing the beverage preparation ingredient(s).
7. A package as claimed in any one of the claims 4 to 6 wherein the openings comprise a plurality of elongate slots.
8. A package as claimed in any one of the preceding claims wherein the filter is made from a water-permeable material.
9. A package as claimed in any one of the preceding claims wherein a plurality of passages are formed between the filter and the top of the package.
10. A package as claimed in any one of the preceding claims wherein the beverage preparation ingredient is leaf tea or roast and ground coffee.
11. A package as claimed in any one of the preceding claims which is provided with a recognition means whereby, in use, the package is identified by the machine into which it is placed for treatment therefrom and the identification of the package thereby causes it to be subjected to the correct treatment steps including the introduction of a fluid medium into the package.
12. A package as claimed in claim 11 wherein the recognition means comprises one or more surface features formed in the body of the package.
13. A package as claimed in claim 11 wherein the rec-

ognition means comprises a bar code.

14. A package as claimed in claim 11 wherein the recognition means comprises a pattern of holes formed in the body of the package. 5
15. A package as claimed in claim 11 wherein the recognition means comprises a pattern of contrasting tones or colours. 10
16. A package as claimed in claim 11 wherein the recognition means comprises one or more strips of a magnetic material.
17. A package as claimed in claim 11 wherein the recognition means comprises an inductive device. 15
18. A package as claimed in claim 11 wherein the recognition means comprises a plurality of electrically conductive means. 20
19. A method for the preparation of a beverage from a sealed package containing one or more beverage preparation ingredients located in a compartment in the package, which method comprises introducing a liquid medium suitable for the preparation of the beverage under pressure into the package through an inlet formed therein, causing the liquid medium to enter the compartment thereby forming the beverage, filtering the beverage in an upwardly direction through a filter, and collecting the beverage so formed from an outlet formed in the package. 25 30
20. A method as claimed in claim 19 wherein the inlet and/or outlet in the package is/are formed by means of a piercing and cutting tool. 35
21. A method as claimed in claim 19 or claim 20 wherein the liquid medium is water. 40
22. A method as claimed in any one of claims 19 to 21 wherein the flow of the liquid medium into the compartment containing the beverage preparation ingredients is achieved by causing the liquid to flow through one or more restricted openings into the said compartment. 45
23. A method as claimed in claim 22 wherein the restricted openings are elongate slots. 50

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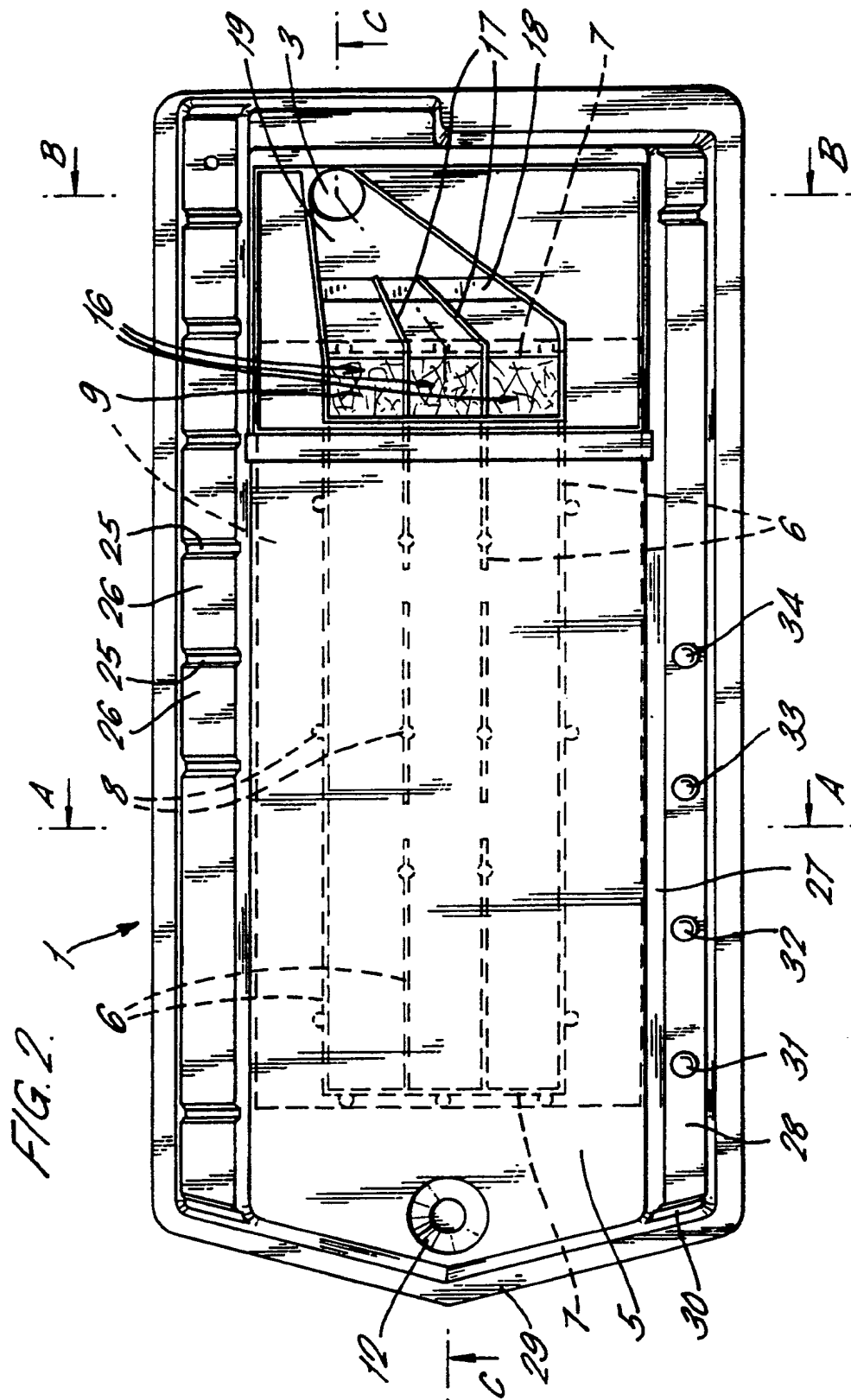


FIG. 3.

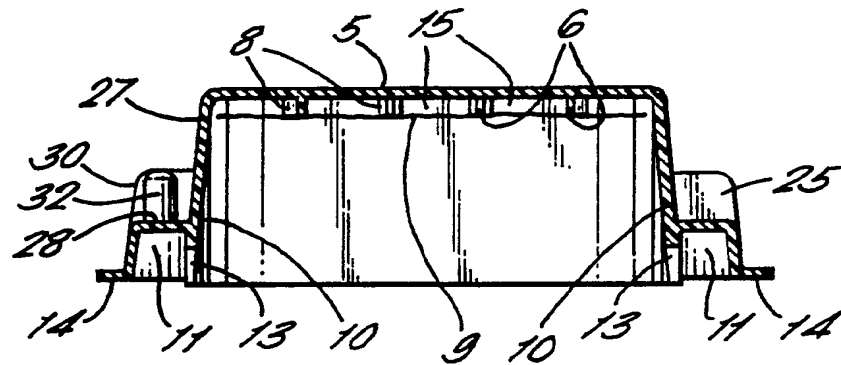


FIG. 4.

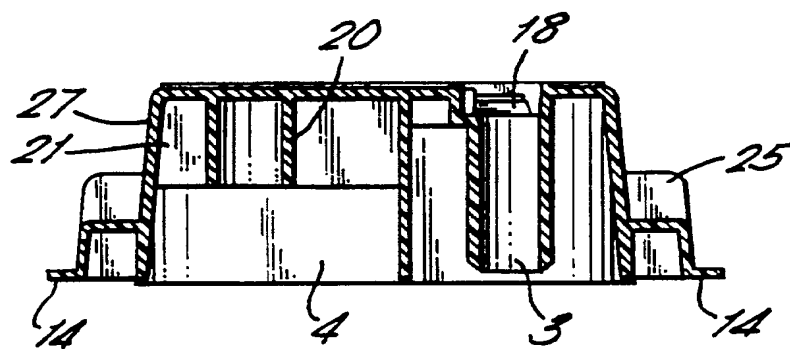
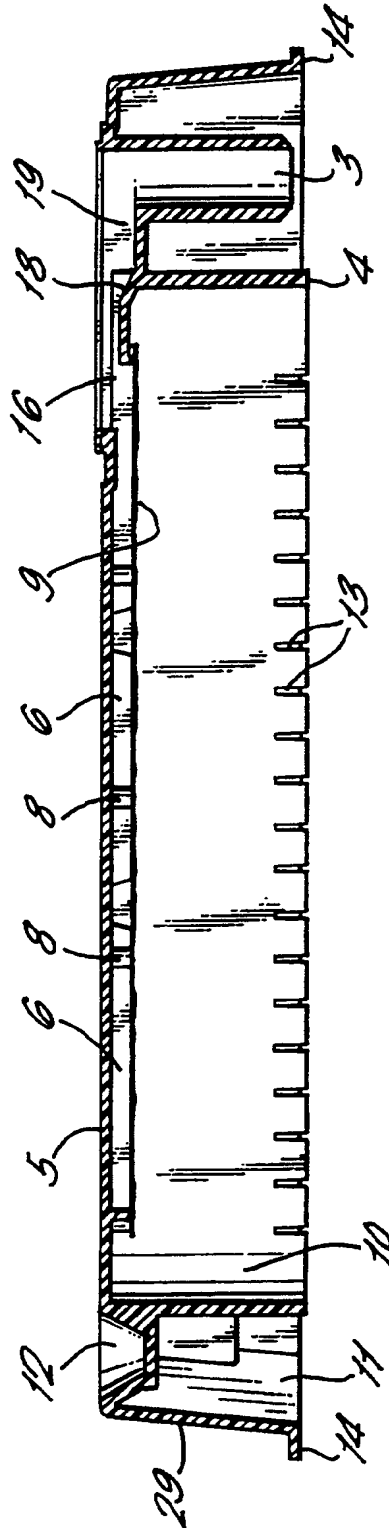


FIG. 5.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 30 2538

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	EP-A-334 573 (GENERAL FOOD LIMITED) * abstract; figure 4 * -----	1, 4, 11, 19	B65D81/00
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B65D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27 JUNE 1991	Examiner ZANGHI AMEDEO
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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(54) **Monodose capsule containing a preparation for beverages**

(57) A capsule (1) containing ground coffee (C) for making a beverage in an extraction process envisaging the passing through the capsule itself by an extraction fluid, said capsule (1) comprising a cylindrical main body (2, 3, 4) defining an internal housing (10) for receiving

the coffee (C), said main body (2, 3, 4) having, in correspondence of the lateral wall (4) of the housing (10), a plurality of longitudinal grooves (5) arranged in the direction of the fluid flow in the extraction process and apt to convey such a fluid through the capsule (1) itself (Figure 8).

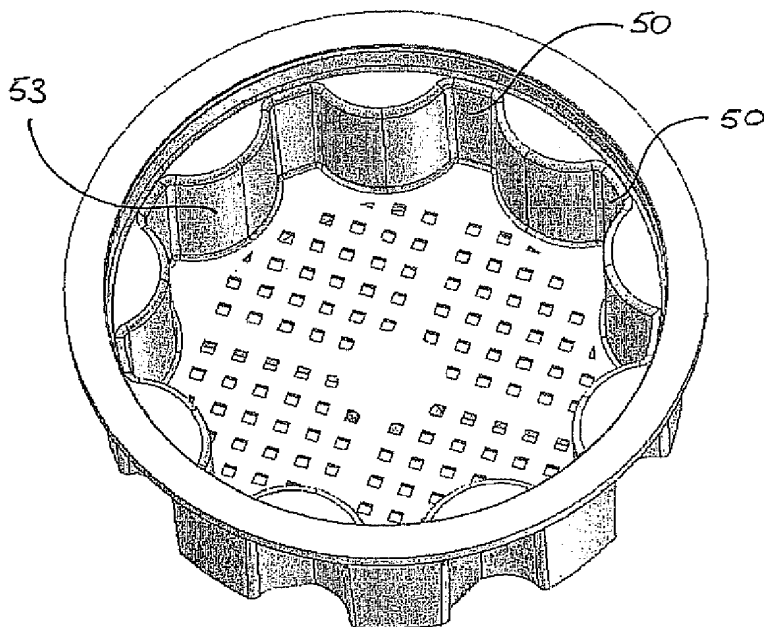


FIG. 8



NOTICE OF ALLOWANCE AND FEE(S) DUE

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1792

DATE MAILED: 07/01/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/697,297	11/09/2012	Christian Jarisch	3712036-01693	1065

TITLE OF INVENTION: CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	10/01/2020

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

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.

29157 7590 07/01/2020
K&L Gates LLP-Nestec S.A.
P.O. Box 1135
Chicago, IL 60690

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.
13/697,297	11/09/2012	Christian Jarisch	3712036-01693	1065

TITLE OF INVENTION: CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	10/01/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
SMITH, CHAIM A	1792	426-112000

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

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

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

1 _____

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

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

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

- ☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/697,297	11/09/2012	Christian Jarisch	3712036-01693	1065
29157	7590	07/01/2020	EXAMINER	
K&L Gates LLP-Nestec S.A. P.O. Box 1135 Chicago, IL 60690			SMITH, CHAIM A	
			ART UNIT	PAPER NUMBER
			1792	

DATE MAILED: 07/01/2020

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

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

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

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

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) 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. 13/697,297	Applicant(s) Jarisch et al.	
	Examiner CHAIM A SMITH	Art Unit 1792	AIA (FITF) Status No

-- 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 Request for Continued Examination dated 18 June 2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

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

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

Certified copies:

a) ☒ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

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

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

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

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

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	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 _____.	

/CHAIM A SMITH/ Examiner, Art Unit 1792	/VIREN A THAKUR/ Primary Examiner, Art Unit 1792
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Continuation of 3. The allowed claim(s) is/are: 1-2,5-10,19-21,24-30 and 32-34

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 18 June 2020 has been entered.

REASONS FOR ALLOWANCE

2. The application remains allowed for the same reasons given in the Notice Of Allowance dated 20 March 2020.
3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHAIM A SMITH whose telephone number is (571)270-7369. The examiner can normally be reached on Monday-Thursday 09:00-18:00.
5. Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to please telephone the Examiner.

6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Erik Kashnikow can be reached on (571) 270-3475. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/CHAIM A SMITH/
Examiner, Art Unit 1792
21 June 2020

/VIREN A THAKUR/
Primary Examiner, Art Unit 1792

Issue Classification 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch et al.
	Examiner CHAIM A SMITH	Art Unit 1792

CPC						
Symbol					Type	Version
B65D	/	85	/	8043	F	2013-01-01
A47J	/	31	/	22	I	2013-01-01
A47J	/	31	/	4492	I	2013-01-01
A23L	/	2	/	38	I	2013-01-01
G06K	/	19	/	00	I	2013-01-01
B65D	/	25	/	205	I	2013-01-01
G06K	/	19	/	06018	I	2013-01-01
G06K	/	19	/	0614	I	2013-01-01
B65D	/	2203	/	06	A	2013-01-01
Y02W	/	90	/	13	A	2015-05-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/				

/CHAIM A SMITH/ Examiner, Art Unit 1792 (Assistant Examiner)	21 June 2020 (Date)	Total Claims Allowed: 21	
/VIREN A THAKUR/ Primary Examiner, Art Unit 1792 (Primary Examiner)	22 June 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

U.S. Patent and Trademark Office

Part of Paper No.: 20200620

Issue Classification 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch et al.	
	Examiner CHAIM A SMITH	Art Unit 1792	

INTERNATIONAL CLASSIFICATION			
CLAIMED			
B65D	/	85	/ 804
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

/CHAIM A SMITH/ Examiner, Art Unit 1792 (Assistant Examiner)	21 June 2020 (Date)	Total Claims Allowed: 21	
/VIREN A THAKUR/ Primary Examiner, Art Unit 1792 (Primary Examiner)	22 June 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

Issue Classification 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch et al.
	Examiner CHAIM A SMITH	Art Unit 1792

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	8	10	9	19	16	28								
2	2		11	10	20	17	29								
	3		12	11	21	18	30								
	4		13		22		31								
3	5		14		23	19	32								
4	6		15	12	24	20	33								
5	7		16	13	25	21	34								
6	8		17	14	26										
7	9		18	15	27										

/CHAIM A SMITH/ Examiner, Art Unit 1792 (Assistant Examiner)	21 June 2020 (Date)	Total Claims Allowed: 21	
/VIREN A THAKUR/ Primary Examiner, Art Unit 1792 (Primary Examiner)	22 June 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13697297
	Filing Date		2012-11-09
	First Named Inventor	Jarisch et al.	
	Art Unit	1792	
	Examiner Name	Chaim A. Smith	
Attorney Docket Number		3712036-01693	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	3501896		1970-03-24	Stoeser et al.	
	2	5243164		1993-09-07	Erickson et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20020148356		2002-10-17	Lazaris et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2011141532	WO		2011-11-17	NESTEC S.A.		☐
	2	1772398	EP		2007-11-04	CENSE D'ALMEZ S.A.		☐

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13697297
Filing Date	2012-11-09
First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

3	2005044067	WO		2005-05-19	GRIFFES, CONSULTING, S.A.		☐
4	1849718	EP		2007-10-31	CAFE DO BRASIL S.P.A.		☐
5	3432339	DE		1986-03-13	GESEN WOLFGANG; SCHULTE WILHELM	English abstract attached	☐
6	2003235733	JP		2003-08-26	KASHIWAGI MOLD:KK		☐
7	2010041179	WO		2010-04-15	ETHICAL COFFEE COMPANY SA		☐
8	2011047836	WO		2011-04-28	RAPPARINO, GINO		☐
9	0160712	WO		2001-08-23	KEURIG INC.		☐
10	2010026053	WO		2010-03-11	NESTEC S.A.		☐
11	2010076761	WO		2010-07-08	GIUA, ALVERTO FEDERICO		☐
12	0199047	WO		2001-12-27	MONEY CONTROLS PLC		☐
13	0228241	WO		2002-04-11	BOYD COFFEE COMPANY		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	13697297
Filing Date	2012-11-09
First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

14	0638486	EP		1996-10-23	KRAFT JACOBS SUCHARD LTD.	☐
15	0455337	EP		1991-11-06	KRAFT GENERAL FOODS LIMITED	☐

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

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Communication of Notice of Opposition dated January 27, 2020 for Appl No. 19165219.7	☐
	2	English translation of JP2003235733	☐
	3	Wikipedia definition of "Barcode"	☐
	4	"Regulation (EC) No 1935/2004 Of the European Parliament and of the Council of 27 October 2004" Official Journal of the European Union	☐

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

EXAMINER SIGNATURE

Examiner Signature	/CHAIM A SMITH/	Date Considered	06/21/2020
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	13697297
Filing Date	2012-11-09
First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Aaron J. Morrow/	Date (YYYY-MM-DD)	2020-06-18
Name/Print	Aaron J. Morrow	Registration Number	55819

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

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

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

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	("20020148356" "20040005384" "20090324791" "20100078480" "3501896" "5243164" "5285041").PN.	US-PGPUB; USPAT	OR	ON	2020/06/21 15:14
S1	17	b65D85/8043.cpc. and centrifuge	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/02/22 14:07
S2	35	b65D85/8043.cpc. and centrifuge	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/23 13:01
S3	137	b65D85/8043.cpc. and code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/02/24 19:15
S4	166	b65D85/8043.cpc. and code	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2016/02/24 20:46
S5	137	b65D85/8043.cpc. and code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/02/25 17:21
S6	7	b65D85/8043.cpc. and code and emboss\$4 and dot	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/02/25 17:22
S7	16	b65D85/8043.cpc. and code and emboss\$4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/02/25 19:09
S8	63	b65D85/8043.cpc. and emboss\$4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/02/25 19:10
S9	76	(US-0339807-\$ US-0449533-\$ US-0455337-\$ US-0638486-\$ US-07125750-\$ US-0765821-\$ US-0977125-\$ US-11120445-\$ US-13697297-\$ US-1440638-\$ US-1440644-\$ US-1586534-\$ US-1593329-\$ US-1637457-\$ US-1764015-\$ US-1781151-\$ US-1890271-\$ US-1944264-\$ US-1950150-\$ US-20030001016-\$ US-20040129145-\$ US-20040191372-\$ US-20050022674-\$ US-20050029287-	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/07/30 10:38

		\$ US-20050150391-\$ US-20050249052-\$ US-20060239742-\$ US-20070209524-\$ US-20070245901-\$ US-20080068178-\$ US-20080081089-\$ US-20080105130-\$ US-20080302251-\$ US-20080309495-\$ US-20090205747-\$ US-20100000960-\$ US-20100071562-\$ US-2022050-\$ US-2128802-\$ US-2159167-\$ US-2259078-\$ US-2299851-\$ US-2341804-\$ US-2349176-\$ US-2384133-\$ US-2427066-\$ US-2451195-\$ US-2470430-\$ US-2493357-\$ US-2512956-\$ US-2525691-\$ US-2528485-\$ US-2603927-\$ US-2625310-\$ US-2912124-\$ US-2938096-\$ US-3712036-\$ US-4421910-\$ US-5094153-\$ US-5260556-\$ US-5273392-\$ US-5392102-\$ US-5520278-\$ US-5974950-\$ US-6117471-\$ US-6155322-\$ US-6253820-\$ US-6423936-\$ US-6655260-\$ US-6820535-\$ US-6985119-\$ US-7258061-\$ US-7461584-\$ US-7607385-\$ US-7614524-\$ US-7673558-\$ US-8612623-\$ US-8804262-\$ US-9302219-\$).DID.				
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S11	466	b65D85/8043.cpc. and code	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2019/10/31 19:34
S12	387	b65D85/8043.cpc. and code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 11:44
S13	387	B65D85/8043.cpc. and code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 11:46
S14	207	b65D85/8043.cpc. and bar near1 code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 11:46
S15	101	b65D85/8043.cpc. and boyd	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 12:19

S16	57	b65D85/8043.cpc. and boyd and code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 12:20
S17	1	b65D85/8043.cpc. and boyd.in. and code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 12:22
S18	1	b65D85/8043.cpc. and boyd.in. and code	US-PGPUB; USPAT; FPRS; EPO; JPO	OR	ON	2019/11/01 12:23
S19	1	b65D85/8043.cpc. and boyd.in. and code	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2019/11/01 12:23
S20	3,013	boyd.in. and code	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2019/11/01 12:23
S21	51	boyd.in. and code and coffee	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2019/11/01 12:24
S22	2,747	aker.in.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2019/11/01 13:36
S23	26	aker.in. near1 wynn	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2019/11/01 13:36
S24	187,471	bar near1 code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 13:40
S25	9,106	(bar near1 code) same rotat\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 13:41
S26	977	(bar near1 code) same (rim flange edge) same rotat\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 13:42
S27	82	(bar near1 code) near10 circular same rotat\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 15:28

S28	527	A47J31/4492.cpc.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:19
S29	426	A47J31/4492.cpc. and code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:19
S30	234	A47J31/4492.cpc. and bar near1 code	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:19
S33	36	A47J31/4492.cpc. and bar near1 code and @py<"2011"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:33
S35	40	A47J31/4492.cpc. and bar near1 code and @py<"2012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:36
S36	0	A47J31/22.cpc. and bar near1 code and @py<"2012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:38
S37	1	A23L2/38.cpc. and bar near1 code and @py<"2012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:38
S38	43	B65D25/205.cpc. and bar near1 code and @py<"2012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:39
S39	20	B65D85/8043.cpc. and bar near1 code and @py<"2012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:45
S40	77	G06K19/00.cpc. and bar near1 code and @py<"2012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 16:47
S41	138	G06K19/06018.cpc. and bar near1 code and @py<"2012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 17:08
S43	13	G06K19/0614.cpc. and bar near1 code and @py<"2012"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2019/11/01 17:27
S44	23	(US-20020020659-\$ US-20020048621-\$ US-20020048631-\$ US-20040089158-\$ US-20050150391-\$ US-20070203587-\$ US-20080148948-\$ US-20100078480-\$ US-20110315711-\$ US-20130064937-\$ US-20130098940-\$ US-20140134299-\$ US-20160280454-\$ US-5004913-\$ US-5103081-\$ US-6081326-\$ US-6248878-\$ US-6527181-\$ US-6698333-\$ US-6802454-\$ US-	US-PGPUB; USPAT; EPO; JPO	OR	ON	2020/02/11 12:18

		7097074-\$ US-7335387-\$ US-7607385-\$).DID.				
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EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S45	0	capsule preparation beverage container configured house code identified read external reader arranged bottom rim opposed	USPAT	AND	ON	2020/02/11 12:32

6/21/2020 3:25:42 PM

C:\Users\csmith4\Documents\EAST\Workspaces\13697297.wsp



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 Alexandria, Virginia 22313-1450
 www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 1065

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
13/697,297	11/09/2012	426	1792	3712036-01693		
APPLICANTS INVENTORS Christian Jarisch, Lutry, SWITZERLAND; Alexandre Perentes, Lausanne, SWITZERLAND; Stefan Kaeser, Aarau, SWITZERLAND; Carlo Magri, Monthey, SWITZERLAND; Arnaud Gerbaulet, Oye et Pallet, FRANCE; Thomas Kaeser, Brent, SWITZERLAND; Daniel Abegglen, Rances, SWITZERLAND; ** CONTINUING DATA ***** This application is a 371 of PCT/EP2011/057657 05/12/2011 ** FOREIGN APPLICATIONS ***** EUROPEAN PATENT OFFICE (EPO) 10169374.5 07/13/2010 EUROPEAN PATENT OFFICE (EPO) 10162741.2 05/12/2010 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 12/04/2012						
Foreign Priority claimed ☒ Yes ☐ No 35 USC 119(a-d) conditions met ☒ Yes ☐ No Verified and /CHAIM A SMITH/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY SWITZERLAND	SHEETS DRAWINGS 4	TOTAL CLAIMS 18	INDEPENDENT CLAIMS 3
ADDRESS K&L Gates LLP-Nestec S.A. P.O. Box 1135 Chicago, IL 60690 UNITED STATES						
TITLE CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION						
FILING FEE RECEIVED 2000	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

<i>Search Notes</i> 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch et al.
	Examiner CHAIM A SMITH	Art Unit 1792

CPC - Searched*		
Symbol	Date	Examiner
A47J 31/4492, 31/22	5/28/2015	LZL
B65D 85/8043	5/28/2015	LZL
A23L 2/38	11/01/2019	CS
B65D 25/205, 2203/06	11/01/2019	CS
G06K 19/00, 19/06018, 19/0614	11/01/2019	CS

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
426	77-79 (updated 10/29/2015)	5/28/2015	LZL
99	295 (updated 10/29/2015)	5/28/2015	LZL

* 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
Inventor search	5/28/2015	LZL
EAST text search with classification search	5/28/2015	LZL
Updated EAST search (attached)	10/29/2015	LZL
Update search	02/22/2016	CS
Updated search	07/30/2019	CS

/CHAIM A SMITH/ Examiner, Art Unit 1792	
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<i>Search Notes</i> 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch et al.
	Examiner CHAIM A SMITH	Art Unit 1792

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
B65D	85/8043, 25/205, 2203/06	02/11/2020	CS
A47J	31/4492, 31/22	02/11/2020	CS
A23L	2/38	02/11/2020	CS
G06K	19/00, 19/06018, 19/0614	02/11/2020	CS

/CHAIM A SMITH/ Examiner, Art Unit 1792	
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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13697297
	Filing Date		2012-11-09
	First Named Inventor	Jarisch et al.	
	Art Unit	1792	
	Examiner Name	Chaim A. Smith	
	Attorney Docket Number	3712036-01693	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5285041		1994-02-08	Wright	
	2	5243164		1993-09-07	Erickson, et al.	
	3	3501896		1970-03-24	W. Von Stoeser et al.	
If you wish to add additional U.S. Patent citation information please click the Add button.						
U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20100078480	A1	2010-04-01	AKER	
	2	20020148356	A1	2002-10-17	Lazaris, et al.	
	3	20090324791	A1	2009-12-31	Ohresser, et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

4	20040005384	2004-01-08	Cai
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If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	WO 2011141532	WO	A1	2011-11-17	NESTEC S.A.		☐
	2	EP 1722398	EP	A1	2007-04-11	FEI CO		☐
	3	WO 2012010317	WO	A1	2012-01-26	KRUEGER GMBH & CO KG, et al.		☐
	4	WO 2005044067	WO	A1	2005-05-19	RUCHONNET JEAN-FRANCOIS		☐
	5	WO 0199047	WO	A1	2001-12-27	MONEY CONTROLS PLC, et al.		☐
	6	WO 0228241	WO	A1	2002-04-11	BOYD COFFEE CO		☐
	7	EP 1344722	EP	A1	2003-09-17	SCHIFFERLE RENE		☐
	8	EP 569230	EP	B1	1993-11-10	DOW CORNING		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

9	EP 2957525	EP	A1	2015-12-23	K FEE SYSTEM GMBH	☐
10	WO 2012010317	WO	A1	2012-01-26	KRUEGER GMBH & CO KG, et al.	☐
11	EP 0638486	EP	B1	1996-10-23	GEN FOODS KRAFT LTD	☐
12	EP 0455337	EP	A1	1994-06-08	GEN FOODS KRAFT LTD	☐
13	EP 2012994	EP	B1	2012-07-11	NESTEC SA	☐
14	EP 1849718	EP	A1	2007-10-31	CAFE DO BRASIL S P A	☐
15	WO 2010041179	WO	A1	2010-04-15	ETHICAL COFFEE COMPANY SA, et al.	☐
16	WO 2011047836	WO	A1	2011-04-28	RAPPARINI GINO	☐
17	WO 2009112291	WO	A1	2009-09-17	NESTEC SA, et al.	☐
18	WO 2010076048	WO	A1	2010-07-08	NESTEC SA, et al.	☐
19	WO 2010026053	WO	A1	2010-03-11	NESTEC SA, et al.	☐

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13697297
Filing Date	2012-11-09
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Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

20	WO 2005047111	WO	A1	2005-05-26			☐
21	19910226	DE		2000-09-21	KLEEBERG		☐
22	0160712	WO		2001-08-23	KEURIG, INC.		☐
23	2003235733	JP		2003-08-26	KASHIWAGI MOLD:KK		☐
24	3432339	DE		1986-03-13	GESEN WOLFGANG		☐
25	233688	JP		1989-09-19	N/A		☐

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

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Brief Communication for Opposition Proceedings for Appl 15197336.9 dated March 19, 2020	☐
	2	Oral Letter regarding the opposition Procedure dated March 16, 2020 for EP 3 023 362	☐
	3	Opposition oral Letter regarding the opposition procedure dated March 16, 2020 for EP 023 362	☐

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Examiner Name	Chaim A. Smith
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4	Wikipedia defintion of Tiefziehen http://de.wikipedia.org/wiki/Tiefziehen	☐
5	Wikipedia definition of Stamping https://en.wikipedia.org/wiki/Stamping_(metalworking)	☐
6	Wikipedia definition of deep drawing http://en.wikipedia.org/wiki/Deep_drawing	☐
7	Regulation No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Official Journal of the European Union	☐
8	Annex to the Communication Opposition Appl No. 15 197 336.9	☐
9	Brief Communication- Opposition Proceedings for Appl no 15197336.9 dated August 1, 2020	☐
10	Letter regarding Opposition Procedure for Ep Patent No. 3 023 362 dated December 19, 2019	☐
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12	"Information technology - Automatic indenfication and data capture techniques - EAN/UPC bar code symbology specification" Second Edition: 2009-12-15	☐
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First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

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18	Miscellaneous requests concerning client data EPO - June 12, 2019	☐
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20	Ralf Jesse, "Barcode" Gutachten zur Frage Begriffe, Bitcode/Binacode; Patents EP 3 023 362	☐
21	"Information technology - Automatic identification and data capture techniques - Bar code verifier conformance specification - Part 1: Linear symbols" 2019-05-20 10:12	☐
22	Information Technology "Automatic identification and data capture techniques - Bar code print quality test Specification; Linear Symbols" German Version: EN ISO/IEC 15416:2001: 1998-02	☐
23	Declaration under 37 C.F.R. for Appl No. 13/697,297	☐
24	Wikipedia "Binacode" https://de.wikipedia.org/wiki/Binacode	☐
25	Rosenbaum, Jessie, "Bar-Code" Theorie Lexikon Software	☐

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26	Potter Mathia, "BARCODE" Euinführung und Anwendungen	☐
27	Oliver Rosenbaum "Das Barcode-Lexicon" edition advanced: cbhv; 1997	☐
28	Fairley Michael "Codes and Coding Technology" LCGS, FIP3 and FLOM3: A Labels & Labeling Publication; 2015	☐
29	Claims - Amended Claims with annotations-2	☐
30	Claims - 2019-05-20 Amended Claims with Annotations	☐
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33	Definition of Barcode by Merriam-Webster https://www.merriam-webster.com/dictionary/barcode	☐
34	Barcode-Wikitionary "Barcode" https://de.wiktionary.org/wiki/Barcode	☐
35	Strichcode- Wikipedia "Strichcode" https://de.wikipedia.org/wiki/strichcode	☐
36	Reply of the patent proprietor to the notice of opposition 2019-02-11; Appl No. 151973366.9	☐

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Examiner Signature	/CHAIM A SMITH/	Date Considered	06/21/2020
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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Aaron J. Morrow/	Date (YYYY-MM-DD)	2020-06-18
Name/Print	Aaron J. Morrow	Registration Number	55819

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

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13697297
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	Art Unit	1792	
	Examiner Name	Chaim A. Smith	
	Attorney Docket Number	3712036-01693	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5285041		1994-02-08	Wright	
	2	5243164		1993-09-07	Erickson, et al.	
	3	3501896		1970-03-24	W. Von Stoeser et al.	
If you wish to add additional U.S. Patent citation information please click the Add button.						
U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20100078480	A1	2010-04-01	AKER	
	2	20020148356	A1	2002-10-17	Lazaris, et al.	
	3	20090324791	A1	2009-12-31	Ohresser, et al.	

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4	20040005384	2004-01-08	Cai
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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	WO 2011141532	WO	A1	2011-11-17	NESTEC S.A.		☐
	2	EP 1722398	EP	A1	2007-04-11	FEI CO		☐
	3	WO 2012010317	WO	A1	2012-01-26	KRUEGER GMBH & CO KG, et al.		☐
	4	WO 2005044067	WO	A1	2005-05-19	RUCHONNET JEAN-FRANCOIS		☐
	5	WO 0199047	WO	A1	2001-12-27	MONEY CONTROLS PLC, et al.		☐
	6	WO 0228241	WO	A1	2002-04-11	BOYD COFFEE CO		☐
	7	EP 1344722	EP	A1	2003-09-17	SCHIFFERLE RENE		☐
	8	EP 569230	EP	B1	1993-11-10	DOW CORNING		☐

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9	EP 2957525	EP	A1	2015-12-23	K FEE SYSTEM GMBH	☐
10	WO 2012010317	WO	A1	2012-01-26	KRUEGER GMBH & CO KG, et al.	☐
11	EP 0638486	EP	B1	1996-10-23	GEN FOODS KRAFT LTD	☐
12	EP 0455337	EP	A1	1994-06-08	GEN FOODS KRAFT LTD	☐
13	EP 2012994	EP	B1	2012-07-11	NESTEC SA	☐
14	EP 1849718	EP	A1	2007-10-31	CAFE DO BRASIL S P A	☐
15	WO 2010041179	WO	A1	2010-04-15	ETHICAL COFFEE COMPANY SA, et al.	☐
16	WO 2011047836	WO	A1	2011-04-28	RAPPARINI GINO	☐
17	WO 2009112291	WO	A1	2009-09-17	NESTEC SA, et al.	☐
18	WO 2010076048	WO	A1	2010-07-08	NESTEC SA, et al.	☐
19	WO 2010026053	WO	A1	2010-03-11	NESTEC SA, et al.	☐

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20	WO 2005047111	WO	A1	2005-05-26			☐
21	19910226	DE		2000-09-21	KLEEBERG		☐
22	0160712	WO		2001-08-23	KEURIG, INC.		☐
23	2003235733	JP		2003-08-26	KASHIWAGI MOLD:KK		☐
24	3432339	DE		1986-03-13	GESEN WOLFGANG		☐
25	233688	JP		1989-09-19	N/A		☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
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4	Wikipedia defintion of Tiefziehen http://de.wikipedia.org/wiki/Tiefziehen	☐
5	Wikipedia definition of Stamping https://en.wikipedia.org/wiki/Stamping_(metalworking)	☐
6	Wikipedia definition of deep drawing http://en.wikipedia.org/wiki/Deep_drawing	☐
7	Regulation No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Official Journal of the European Union	☐
8	Annex to the Communication Opposition Appl No. 15 197 336.9	☐
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<i>Index of Claims</i> 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch et al.
	Examiner CHAIM A SMITH	Art Unit 1792

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original		07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	11/19/2019	02/11/2020	06/21/2020
1	1	÷	✓	✓	✓	✓	=	=	=	=
2	2	÷	✓	✓	✓	✓	=	=	=	=
	3	÷	✓	-	-	-	-	-	-	-
	4	÷	✓	✓	-	-	-	-	-	-
3	5	÷	✓	✓	✓	✓	=	=	=	=
4	6	÷	✓	✓	✓	✓	=	=	=	=
5	7	÷	✓	✓	✓	✓	=	=	=	=
6	8	÷	✓	✓	✓	✓	=	=	=	=
7	9	÷	✓	✓	✓	✓	=	=	=	=
8	10	÷	✓	✓	✓	✓	=	=	=	=
	11	÷	✓	✓	-	-	-	-	-	-
	12	÷	✓	-	-	-	-	-	-	-
	13	÷	✓	-	-	-	-	-	-	-
	14	÷	N	N	N	N	N	-	-	-
	15	÷	N	N	N	N	N	-	-	-
	16	÷	N	N	N	N	N	-	-	-
	17	÷	N	N	N	N	N	-	-	-
	18	÷	N	N	N	N	N	-	-	-
9	19					✓	=	=	=	=
10	20						=	=	=	=
11	21						✓	=	=	=
	22						✓	✓	-	-
	23						✓	✓	-	-
12	24						=	=	=	=
13	25						✓	=	=	=
14	26						=	=	=	=
15	27						=	=	=	=
16	28						=	=	=	=
17	29							=	=	=
18	30							=	=	=
	31							✓	-	-
19	32							=	=	=
20	33							=	=	=
21	34							=	=	=

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13697297
	Filing Date		2012-11-09
	First Named Inventor	Jarisch et al.	
	Art Unit	1792	
	Examiner Name	Chaim A. Smith	
Attorney Docket Number		3712036-01693	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	3501896		1970-03-24	Stoeser et al.	
	2	5285041		1994-02-08	Wright	
	3	5243164		1993-09-07	Erickson et al.	
If you wish to add additional U.S. Patent citation information please click the Add button.						
U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20020148356		2002-10-17	Lazaris et al.	
	2	20090324791		2009-12-31	Ohresser et al.	
	3	20100078480		2010-04-01	Aker	
If you wish to add additional U.S. Published Application citation information please click the Add button.						
FOREIGN PATENT DOCUMENTS						

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	13697297
Filing Date	2012-11-09
First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2011141532	WO		2011-11-17	Nestec S.A.		☐
	2	1772398	EP		2007-11-04	Cense d'Almez S.A.		☐
	3	2005044067	WO		2005-05-19	GRIFFES, CONSULTING SA		☐
	4	0199047	WO		2001-12-27	MONEY CONTROLS PLC		☐
	5	0228241	WO		2002-11-04	BOYD COFFEE COMPANY		☐
	6	0638486	EP		1996-10-23	KRAFT JACOBS SUCHARD LTD.		☐
	7	1849718	EP		2007-10-31	CAFE DO BRASIL S.P.A.		☐
	8	2003235733	JP		2003-08-26	KASHIWAGA MOLD:KK		☐
	9	2010041179	WO		2010-04-15	ETHICAL COFFEE COMPANY SA		☐
	10	2011047836	WO		2011-04-28	RAPPARINI		☐

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13697297
Filing Date	2012-11-09
First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

11	0160712	WO		2001-08-23	KEURIG, INC.		☐
12	2010026053	WO		2010-03-11	DENISART		☐
13	2004065258	WO		2004-05-08	KRAFT FOODS R&D, INC.		☐
14	2010076761	WO		2010-07-08	LUIGI LAVAZZA S.P.A.		☐

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

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Notice of Opposition for Appl No 19165223.9 dated February 24, 2020	☐
	2	English Translation of JP2003235733	☐
	3	Wikipedia definition of "Deep Drawing" http://en.wikipedia.org/wiki/Deep_Drawing	☐
	4	Wikipedia definition of "Tiefziehen" http://de.wikipedia.org/wiki/Tiefziehen	☐
	5	Wikipedia definition of "Stamping (metalworking)" https://en.wikipedia.org/wiki/Stamping_(metalworking)	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.S/

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13697297
Filing Date	2012-11-09
First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

6	Notice of Opposition to a European Patent - Patent No. EP3521208 granted February 19, 2020	☐
7	Opposition against European Patent No. 3521208 - Application No. 19 165 223.9 dated February 19, 2020	☐

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

EXAMINER SIGNATURE

Examiner Signature	/CHAIM A SMITH/	Date Considered	06/21/2020
--------------------	-----------------	-----------------	------------

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.S/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	13697297
Filing Date	2012-11-09
First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Aaron J. Morrow/	Date (YYYY-MM-DD)	2020-06-18
Name/Print	Aaron J. Morrow	Registration Number	55819

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

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	39954568
Application Number:	13697297
International Application Number:	
Confirmation Number:	1065
Title of Invention:	CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION
First Named Inventor/Applicant Name:	Christian Jarisch
Customer Number:	29157
Filer:	Aaron J. Morrow/US Patent Mail
Filer Authorized By:	Aaron J. Morrow
Attorney Docket Number:	3712036-01693
Receipt Date:	09-JUL-2020
Filing Date:	09-NOV-2012
Time Stamp:	14:53:40
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 1900
RAM confirmation Number	E202079E53552911
Deposit Account	021818
Authorized User	US Patent Mail

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.492 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	01693rce.pdf	79779	no	3
			c80bc704e3b1f661cf8b6a551e10dd3874652c26		
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30728	no	2
			53f0c5efa8258dfdb824b8ee321c86554309993c		
Warnings:					
Information:					
Total Files Size (in bytes):			110507		
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.					

Electronic Patent Application Fee Transmittal				
Application Number:		13697297		
Filing Date:		09-Nov-2012		
Title of Invention:		CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION		
First Named Inventor/Applicant Name:		Christian Jarisch		
Filer:		Aaron J. Morrow/Katie Cochrane		
Attorney Docket Number:		3712036-01693		
Filed as Large Entity				
Filing Fees for U.S. National Stage under 35 USC 371				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

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

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

Application Number	13/697,297	Filing Date	2012-11-09	Docket Number (if applicable)	3712036-01693	Art Unit	1792
First Named Inventor	Jarisch et al.			Examiner Name	Chaim Smith		

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

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

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

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

☒ Other Information Disclosure Statement's (IDS's) Filed on June 25, 2020

☐ Enclosed

☐ Amendment/Reply

☐ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

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

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to
Deposit Account No 021818

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

Signature of Registered U.S. Patent Practitioner			
Signature	/Aaron J. Morrow/	Date (YYYY-MM-DD)	2020-07-09
Name	Aaron J. Morrow	Registration Number	55819

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

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

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

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

<i>Search Notes</i> 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch, Christian
	Examiner CHAIM A SMITH	Art Unit 1792

CPC - Searched*		
Symbol	Date	Examiner
A47J 31/4492, 31/22	5/28/2015	LZL
B65D 85/8043	5/28/2015	LZL
A23L 2/38	11/01/2019	CS
B65D 25/205, 2203/06	11/01/2019	CS
G06K 19/00, 19/06018, 19/0614	11/01/2019	CS

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
426	77-79 (updated 10/29/2015)	5/28/2015	LZL
99	295 (updated 10/29/2015)	5/28/2015	LZL

* 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
Inventor search	5/28/2015	LZL
EAST text search with classification search	5/28/2015	LZL
Updated EAST search (attached)	10/29/2015	LZL
Update search	02/22/2016	CS
Updated search	07/30/2019	CS

/CHAIM A SMITH/ Examiner, Art Unit 1792	
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<i>Search Notes</i> 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch, Christian
	Examiner CHAIM A SMITH	Art Unit 1792

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
B65D	85/8043, 25/205, 2203/06	02/11/2020	CS
A47J	31/4492, 31/22	02/11/2020	CS
A23L	2/38	02/11/2020	CS
G06K	19/00, 19/06018, 19/0614	02/11/2020	CS

/CHAIM A SMITH/ Examiner, Art Unit 1792	
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United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

29157 7590 07/29/2020
K&L Gates LLP-Nestec S.A.
P.O. Box 1135
Chicago, IL 60690

EXAMINER

SMITH, CHAIM A

ART UNIT

PAPER NUMBER

1792

DATE MAILED: 07/29/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/697,297	11/09/2012	Christian Jarisch	3712036-01693	1065

TITLE OF INVENTION: CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	10/29/2020

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

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.

29157 7590 07/29/2020
K&L Gates LLP-Nestec S.A.
P.O. Box 1135
Chicago, IL 60690

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.
13/697,297	11/09/2012	Christian Jarisch	3712036-01693	1065

TITLE OF INVENTION: CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	10/29/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
SMITH, CHAIM A	1792	426-112000

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

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

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

1 _____

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

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

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

- ☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/697,297	11/09/2012	Christian Jarisch	3712036-01693	1065
29157	7590	07/29/2020	EXAMINER	
K&L Gates LLP-Nestec S.A. P.O. Box 1135 Chicago, IL 60690			SMITH, CHAIM A	
			ART UNIT	PAPER NUMBER
			1792	
DATE MAILED: 07/29/2020				

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

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

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

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

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. 13/697,297	Applicant(s) Jarisch, Christian	
	Examiner CHAIM A SMITH	Art Unit 1792	AIA (FITF) Status No

-- 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 Request for Continued Examination dated 09 July 2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

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

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

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

Certified copies:

a) ☒ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

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

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

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

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

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	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 ____.	

/CHAIM A SMITH/ Examiner, Art Unit 1792	/VIREN A THAKUR/ Primary Examiner, Art Unit 1792
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Continuation of 3. The allowed claim(s) is/are: 1-2,5-10,19-21,24-30 and 32-34

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 09 July 2020 has been entered.

REASONS FOR ALLOWANCE

2. The application remains allowed for the same reasons given in the Notice Of Allowance dated 20 March 2020.
3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHAIM A SMITH whose telephone number is (571)270-7369. The examiner can normally be reached on Monday-Thursday 09:00-18:00.
5. Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to telephone the Examiner.

6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Erik Kashnikow can be reached on (571) 270-3475. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/CHAIM A SMITH/
Examiner, Art Unit 1792
19 July 2020

/VIREN A THAKUR/
Primary Examiner, Art Unit 1792

<i>Applicant-Initiated Interview Summary</i>	Application No. 13/697,297	Applicant(s) Jarisch et al.	
	Examiner CHAIM A SMITH	Art Unit 1792	AIA (FITF) Status No

All participants (applicant, applicants representative, PTO personnel):

(1) CHAIM A. SMITH. (3) ____.

(2) ARRON MORROW. (4) ____.

Date of Interview: 07 July 2020.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: ____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☒Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: ____.

Identification of prior art discussed: ____.

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Subsequent to a Notice Of Allowance Mr. Morrow filed a Request for Continued Examination to have several Information Disclosure Statements considered and made of record. The IDS statements were considered and the NOA was reissued, however after the notice was submitted by the Examiner for mailing but prior to the notice actually being mailed the applicant submitted further IDS statements for consideration. Mr. Morrow was advised that these further IDS statements could be considered and made of record by filing a QPIDS request. The applicant chose to file a further Request for Continued Examination and further submitted Information Disclosure Statements have been considered and made of record..

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/CHAIM A SMITH/ Examiner, Art Unit 1792	/VIREN A THAKUR/ Primary Examiner, Art Unit 1792
--	---

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13697297
	Filing Date		2012-11-09
	First Named Inventor	Jarisch et al.	
	Art Unit	1792	
	Examiner Name	Chaim A. Smith	
Attorney Docket Number		3712036-01693	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5243164		1993-09-07	Erickson et al.	
	2	5285041		1994-02-08	Wright	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020148356		2002-10-17	Lazaris et al.	
	2	20100078480		2010-04-01	AKER	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2011141532	WO		2011-11-17	NESTEC S.A.		☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.A.S/

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13697297
Filing Date	2012-11-09
First Named Inventor	Jarisch et al.
Art Unit	1792
Examiner Name	Chaim A. Smith
Attorney Docket Number	3712036-01693

2	1772398	EP		2007-04-11	CENSE D'ALMEZ S.A.		☐
3	2005044067	WO		2005-05-19	GRIFFES, CONSULTING, SA		☐
4	0199047	WO		2001-12-27	MONEY CONTROLS PLC		☐
5	0228241	WO		2002-04-11	BOYD COFFEE COMPANY		☐
6	0638486	EP		1996-10-23	KRAFT JACOBS SUCHARD LTD.		☐
7	0455337	EP		1991-11-06	KRAFT GENERAL FOODS LIMITED		☐
8	1849718	EP		2007-04-23	CAFE DO BRASIL S.P.A.		☐
9	3432339	DE		1986-03-13	SHULZ HORN S., DIPL. ING		☐
10	2003235733	JP		2003-08-26	KASHIWAGI MOLD:KK		☐
11	2010041179	WO		2010-04-15	ETHICAL COFFEE COMPANY SA		☐
12	2011047836	WO		2011-04-28	RAPPARINI, GINO		☐

**INFORMATION DISCLOSURE
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13	0160712	WO		2001-08-23	KEURIG, INC.	☐
14	2010026053	WO		2010-03-11	NESTEC S.A.	☐

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

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Notice of opposition to a European Patent Patent No. EP3521210 dated January 14, 2020	☐
	2	English Translation of JP2003235733	☐
	3	Konkordanzliste, Citations, Societe des Prouis Nestle S.A.	☐
	4	Notice of opposition against European Patent No. EP 3521210 dated August 1, 2020	☐
	5	Notice of Opposition to a European Patent for Patent No. EP3521210 dated January 8, 2020	☐
	6	Wikipedia Definition of "Barcode"	☐

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EXAMINER SIGNATURE

Examiner Signature	/CHAIM A SMITH/	Date Considered	07/19/2020
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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

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

Signature	/Aaron J. Morrow/	Date (YYYY-MM-DD)	2020-06-25
Name/Print	Aaron J. Morrow	Registration Number	55819

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

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

CONFIRMATION NO. 1065

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
13/697,297	11/09/2012	426	1792	3712036-01693		
APPLICANTS INVENTORS Christian Jarisch, Lutry, SWITZERLAND; Alexandre Perentes, Lausanne, SWITZERLAND; Stefan Kaeser, Aarau, SWITZERLAND; Carlo Magri, Monthey, SWITZERLAND; Arnaud Gerbaulet, Oye et Pallet, FRANCE; Thomas Kaeser, Brent, SWITZERLAND; Daniel Abegglen, Rances, SWITZERLAND; ** CONTINUING DATA ***** This application is a 371 of PCT/EP2011/057657 05/12/2011 ** FOREIGN APPLICATIONS ***** EUROPEAN PATENT OFFICE (EPO) 10169374.5 07/13/2010 EUROPEAN PATENT OFFICE (EPO) 10162741.2 05/12/2010 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 12/04/2012						
Foreign Priority claimed ☒ Yes ☐ No 35 USC 119(a-d) conditions met ☒ Yes ☐ No Verified and /CHAIM A SMITH/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY SWITZERLAND	SHEETS DRAWINGS 4	TOTAL CLAIMS 18	INDEPENDENT CLAIMS 3
ADDRESS K&L Gates LLP-Nestec S.A. P.O. Box 1135 Chicago, IL 60690 UNITED STATES						
TITLE CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION						
FILING FEE RECEIVED 2000	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

<i>Index of Claims</i> 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch, Christian
	Examiner CHAIM A SMITH	Art Unit 1792

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	07/19/2020	07/29/2019	07/29/2019	07/29/2019	07/29/2019	07/29/2019	11/19/2019	02/11/2020	06/19/2020
1	1	=	✓	✓	✓	✓	=	=	=	=
2	2	=	✓	✓	✓	✓	=	=	=	=
	3	-	✓	-	-	-	-	-	-	-
	4	-	✓	✓	-	-	-	-	-	-
3	5	=	✓	✓	✓	✓	=	=	=	=
4	6	=	✓	✓	✓	✓	=	=	=	=
5	7	=	✓	✓	✓	✓	=	=	=	=
6	8	=	✓	✓	✓	✓	=	=	=	=
7	9	=	✓	✓	✓	✓	=	=	=	=
8	10	=	✓	✓	✓	✓	=	=	=	=
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	13	-	✓	-	-	-	-	-	-	-
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	15	-	N	N	N	N	N	-	-	-
	16	-	N	N	N	N	N	-	-	-
	17	-	N	N	N	N	N	-	-	-
	18	-	N	N	N	N	N	-	-	-
9	19	=				✓	=	=	=	=
10	20	=					=	=	=	=
11	21	=					✓	=	=	=
	22	-					✓	✓	-	-
	23	-					✓	✓	-	-
12	24	=					=	=	=	=
13	25	=					✓	=	=	=
14	26	=					=	=	=	=
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17	29	=						=	=	=
18	30	=						=	=	=
	31	-						✓	-	-
19	32	=						=	=	=
20	33	=						=	=	=
21	34	=						=	=	=

Issue Classification 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch, Christian
	Examiner CHAIM A SMITH	Art Unit 1792

CPC						
Symbol					Type	Version
B65D	/	85	/	8043	F	2013-01-01
A47J	/	31	/	22	I	2013-01-01
A47J	/	31	/	4492	I	2013-01-01
A23L	/	2	/	38	I	2013-01-01
G06K	/	19	/	00	I	2013-01-01
B65D	/	25	/	205	I	2013-01-01
G06K	/	19	/	06018	I	2013-01-01
G06K	/	19	/	0614	I	2013-01-01
B65D	/	2203	/	06	A	2013-01-01
Y02W	/	90	/	13	A	2015-05-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/				

/CHAIM A SMITH/ Examiner, Art Unit 1792 (Assistant Examiner)	19 July 2020 (Date)	Total Claims Allowed: 21	
/VIREN A THAKUR/ Primary Examiner, Art Unit 1792 (Primary Examiner)	20 July 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

<i>Issue Classification</i> 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch, Christian	
	Examiner CHAIM A SMITH	Art Unit 1792	

INTERNATIONAL CLASSIFICATION			
CLAIMED			
B65D	/	85	/ 804
NON-CLAIMED			
/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

/CHAIM A SMITH/ Examiner, Art Unit 1792 (Assistant Examiner)	19 July 2020 (Date)	Total Claims Allowed: 21	
/VIREN A THAKUR/ Primary Examiner, Art Unit 1792 (Primary Examiner)	20 July 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

Issue Classification 	Application/Control No. 13/697,297	Applicant(s)/Patent Under Reexamination Jarisch, Christian
	Examiner CHAIM A SMITH	Art Unit 1792

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	8	10	9	19	16	28								
2	2		11	10	20	17	29								
	3		12	11	21	18	30								
	4		13		22		31								
3	5		14		23	19	32								
4	6		15	12	24	20	33								
5	7		16	13	25	21	34								
6	8		17	14	26										
7	9		18	15	27										

/CHAIM A SMITH/ Examiner, Art Unit 1792 (Assistant Examiner)	19 July 2020 (Date)	Total Claims Allowed: 21	
/VIREN A THAKUR/ Primary Examiner, Art Unit 1792 (Primary Examiner)	20 July 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)

Approved for use through 11/30/2020. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13697297
	Filing Date		2012-11-09
	First Named Inventor	Jarisch et al.	
	Art Unit	1792	
	Examiner Name	Chaim A. Smith	
	Attorney Docket Number	3712036-01693	

U.S. PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	3501896		1970-03-24	W. Von Stoeser et al.	
	2	5243164		1993-09-07	Erickson et al.	
	3	5285041		1994-02-08	Wright	
If you wish to add additional U.S. Patent citation information please click the Add button.						
U.S. PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20020148356		2002-10-17	Lazaris et al.	
	2	20090324791		2009-12-31	Ohresser et al.	
	3	20100078480		2010-04-01	Aker	
If you wish to add additional U.S. Published Application citation information please click the Add button.						
FOREIGN PATENT DOCUMENTS						

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	1	2011141532	WO		2011-11-17	NESTEC S.A.		☐
	2	1772398	EP		2007-04-11	CENSE D'ALMEZ S.A.		☐
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15	2004065258	WO		2004-08-05	KRAFT FOODS R & D, INC.	☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Notice of Opposition to a European Patent Patent No. EP3521209 dated January 22, 2020	☐
	2	Wikipedia definition of "Barcode"	☐
	3	Regulation (EC) No 1935/2004 of the European Parliament and of the Counsel of 27 October 2004; Official Journal of The European Union	☐
	4	Wikipedia definition of "deep drawing" http://en.wikipedia.org/wiki/Deep_drawing	☐

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5	Wikipedia Definition of "Stamping (metalworking)" https://en.wikipedia.org/wiki/Stamping_(metalworking)	☐
6	Wikipedia definition of "Tiefziehen" https://de.wikipedia.org/wiki/Tiefziehen	☐
7	Notice of Opposition: Opposition against European Patent No. 3 521 209 dated January 22, 2020	☐
8	Notice of Opposition to a European Patent for Patent No. EP3521209 dated January 22, 2020	☐

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Signature	/Aaron J. Morrow/	Date (YYYY-MM-DD)	2020-06-25
Name/Print	Aaron J. Morrow	Registration Number	55819

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

Electronic Acknowledgement Receipt

EFS ID:	40223101
Application Number:	13697297
International Application Number:	
Confirmation Number:	1065
Title of Invention:	CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION
First Named Inventor/Applicant Name:	Christian Jarisch
Customer Number:	29157
Filer:	Aaron J. Morrow/US Patent Mail
Filer Authorized By:	Aaron J. Morrow
Attorney Docket Number:	3712036-01693
Receipt Date:	07-AUG-2020
Filing Date:	09-NOV-2012
Time Stamp:	14:39:12
Application Type:	U.S. National Stage under 35 USC 371

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	Amendment after Notice of Allowance (Rule 312)	01693.pdf	76725	no	2
			d1bd4ae660156bafca3f8c9c3e8e457c1810ec12		

Warnings:

Information:	
Total Files Size (in bytes):	76725
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

Inventors: Jarisch et al.
Applicant: Société des Produits Nestlé S.A.
Appl. No.: 13/697,297
Conf. No.: 1065
Filed: November 9, 2012
Title: CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY
CENTRIFUGATION
Art Unit: 1792
Examiner: Chaim A. Smith
Docket No.: 3712036-01693

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

**APPLICANT'S COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE
PURSUANT TO 37 CFR 1.104**

Sir or Madam:

Applicant notes that the Notice of Allowance dated July 29, 2020 for the above-identified patent application asserted Reasons for Allowance on pages 2-3 of the Notice. Specifically, the Notice of Allowance dated July 29, 2020 asserts “[t]he application remains allowed for the same reasons given in the Notice Of Allowance dated 20 March 2020.” Indeed, pages 2-3 of the Notice of Allowance dated March 20, 2020 asserted Reasons for Allowance.

Applicant also notes that MPEP 1302.14(V) sets forth the following:

The examiner’s statement of reasons for allowance is the personal opinion of the examiner as to why the claims are allowable. The examiner’s statement should not create an estoppel. Only applicant’s statements should create an estoppel.

Nevertheless, 37 CFR 1.104 establishes that “[t]he applicant or patent owner may file a statement commenting on the reasons for allowance within such time as may be specified by the examiner.” Accordingly, for clarity of the record, Applicant hereby respectfully notes that Applicant does not acquiesce to the Examiner’s characterization of the cited references and what the skilled artisan without hindsight would have taken from them. The Applicant also acknowledges that there may be additional reasons for allowance beyond those articulated by the Examiner.

Respectfully submitted,
K&L GATES LLP

BY /Aaron J. Morrow/
Aaron J. Morrow
Reg. No. 55,819
Customer No.: 29157
Telephone No. 312-781-6043

Dated: August 7, 2020

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.

29157 7590 07/29/2020
K&L Gates LLP-Nestec S.A.
P.O. Box 1135
Chicago, IL 60690

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.
13/697,297	11/09/2012	Christian Jureisch	3712036-01693	1065

TITLE OF INVENTION: CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION

APPL. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	10/29/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
SMITH, CHAIM A	1792	426-112000

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

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

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

1 K&L Gates LLP

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)

Societe des Produits Nestle S.A.

Vevey, Switzerland

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 enclose 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. 02-1818

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 /Robert M. Barrett/

Date September 2, 2020

Typed or printed name Robert M. Barrett

Registration No. 30,142

Electronic Acknowledgement Receipt

EFS ID:	40449849
Application Number:	13697297
International Application Number:	
Confirmation Number:	1065
Title of Invention:	CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION
First Named Inventor/Applicant Name:	Christian Jarisch
Customer Number:	29157
Filer:	Robert M. Barrett/US Patent Mail
Filer Authorized By:	Robert M. Barrett
Attorney Docket Number:	3712036-01693
Receipt Date:	02-SEP-2020
Filing Date:	09-NOV-2012
Time Stamp:	11:43:43
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 1000
RAM confirmation Number	E202092B44007103
Deposit Account	021818
Authorized User	US Patent Mail

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.492 (National application filing, search, and examination fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	1693issuefee.pdf	466144	no	1
			606ff893516e933b09a9797ac98bd5697b33522d		

Warnings:**Information:**

2	Fee Worksheet (SB06)	fee-info.pdf	30464	no	2
			db729e8a696a657da2dfec72318b5cecb2ed53f		

Warnings:**Information:**

Total Files Size (in bytes):	496608
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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.

Electronic Patent Application Fee Transmittal				
Application Number:		13697297		
Filing Date:		09-Nov-2012		
Title of Invention:		CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION		
First Named Inventor/Applicant Name:		Christian Jarisch		
Filer:		Robert M. Barrett/Karin Barrett		
Attorney Docket Number:		3712036-01693		
Filed as Large Entity				
Filing Fees for U.S. National Stage under 35 USC 371				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Receipt date: 11/11/2014

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

13697297 - GAI-1792

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13697297	
	Filing Date		2012-11-09	
	First Named Inventor	Jarisch et al.		
	Art Unit	1792		
	Examiner Name	L. Long		
Attorney Docket Number		3712036-01693		

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

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
L.Z.L.	1	20100078480		2010-04-01	SYMBOL TECHNOLOGIES INC Aker	

If you wish to add additional U.S. Published Application citation information please click the Add button.

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

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

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



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.
13/697,297	10/13/2020	10800600	3712036-01693	1065

29157 7590 09/23/2020

K&L Gates LLP-Nestec S.A.
P.O. Box 1135
Chicago, IL 60690

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 1233 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

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

Christian Jarisch, Lutry, SWITZERLAND;
Alexandre Perentes, Lausanne, SWITZERLAND;
Stefan Kaeser, Aarau, SWITZERLAND;
Carlo Magri, Monthey, SWITZERLAND;
Arnaud Gerbault, Oye et Pallet, FRANCE;
Thomas Kaeser, Brent, SWITZERLAND;
Daniel Abegglen, Rances, SWITZERLAND;

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.

IR103 (Rev. 10/09)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Jarisch et al.
Applicant: Société des Produits Nestlé S.A.
Appl. No.: 13/697,297
Conf. No.: 1065
Filed: November 9, 2012
Title: CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY
CENTRIFUGATION
Art Unit: 1792
Examiner: Chaim A. Smith
Docket No.: 3712036-01693

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

APPLICANT'S MAINTAINED SUGGESTION OF INTERFERENCE

Sir or Madam:

Applicant hereby maintains its Suggestion for Interference filed on September 30, 2019 for the above-identified patent application. Applicant notifies the Examiner of the following related applications potentially subject to Interference.

<u>U.S. Patent App. No.</u>	<u>Filing Date</u>	<u>Examiner</u>
15/646,980	July 11, 2017	Chaim A. Smith
16/438,818	June 12, 2019	Chaim A. Smith
16/538,752	August 12, 2019	Chaim A. Smith
16/860,432	April 28, 2020	Brian W. Jennison
16/860,441	April 28, 2020	Chaim A. Smith

Applicant expressly reserves the right to pursue Suggestions for Interference regarding the claims in these applications.

Respectfully submitted,
K&L GATES LLP

BY /Aaron J. Morrow/
Aaron J. Morrow
Reg. No. 55,819
Customer No.: 29157
Telephone No. 312-781-6043

Dated: September 30, 2020

Electronic Acknowledgement Receipt

EFS ID:	40714956
Application Number:	13697297
International Application Number:	
Confirmation Number:	1065
Title of Invention:	CAPSULE, SYSTEM AND METHOD FOR PREPARING A BEVERAGE BY CENTRIFUGATION
First Named Inventor/Applicant Name:	Christian Jarisch
Customer Number:	29157
Filer:	Aaron J. Morrow/US Patent Mail
Filer Authorized By:	Aaron J. Morrow
Attorney Docket Number:	3712036-01693
Receipt Date:	30-SEP-2020
Filing Date:	09-NOV-2012
Time Stamp:	11:41:55
Application Type:	U.S. National Stage under 35 USC 371

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	Miscellaneous Incoming Letter	01693.pdf	73232	no	1
			8c1e4f96dfe445f43f56ae50b8a9dfdcf9645eb0		
Warnings:					

Information:	
Total Files Size (in bytes):	73232
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.	