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(54) **PACKAGE FOR CUTTING TOOL**

(57) A package (100) for a cutting tool (160) includes a package body (110). The package body (110) may include one or more sections (112) adapted to at least partially cover one or more cutting edges (166, 176) of the cutting tool (160). The package (100) for the cutting tool (160) is characterized in that the package body (110) include one or more attachment elements (133) to removably suspend the package (100) with a suspension

element (180), a part of a clothing. The package body (110) further defines an angular section (123) such that a fastener (168) of the cutting tool (160) removably engages therewith. The angular section (123) supports the fastener (168) of the cutting tool (160) such that the one or more cutting edges (166, 176) of the cutting tool (160) are at least partially covered by the one or more sections (112).

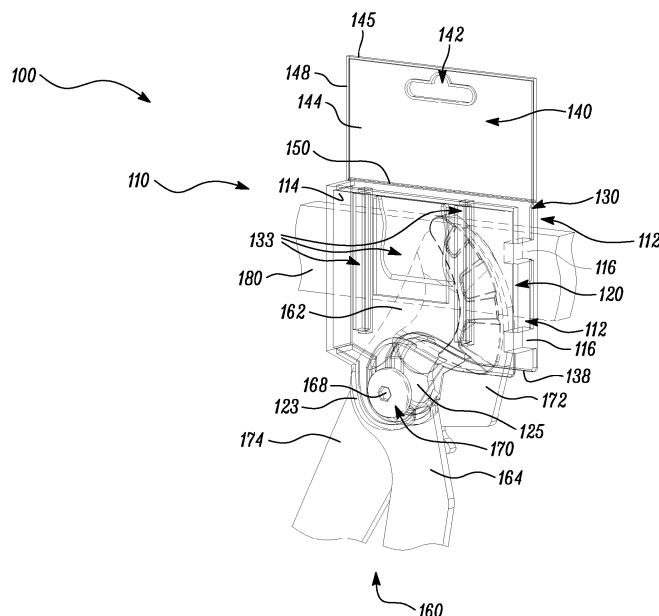


FIG. 1

Description

TECHNICAL FIELD

[0001] The present disclosure relates to a package for a cutting tool. More specifically, the present disclosure relates to a package which provides multiple applications with the cutting tool.

BACKGROUND

[0002] Cutting tools, particularly hand-operated cutting tools, generally include a pair of cutting blades pivotably secured to each other at a pivot joint. The cutting blades are coupled to corresponding handles of the cutting tools for improved ease and efficiency of manual operation. The cutting tools are usually packaged with a package, which includes a vertical hanging arrangement. The package generally includes a planar base member and a cover member secured to the base member in a manner that the cover member at least partially covers the cutting tool. In case of a packaging for the cutting tools such as loppers or pruning shears, it is common that the cover member at least partially covers the cutting blades in the packaged state to minimize the risk of injuries. The package further includes an additional securing means for securing the cutting tool for safety reasons and at least to some degree, for protection against theft.

[0003] An example of a package for a cutting tool is provided in European patent 3,288,729 (hereinafter referred to as '729 reference). The '729 reference provides a packaging for a manually operated cutting device. The packaging includes a pair of cutting blades pivotably secured to each other at a pivot joint. The cutting blades are coupled to handles for manual operation of the cutting device. The packaging includes a base member defining a plane and a cover member shaped as cap. The cover member is secured to the base member in a packaged state. In the packaged state, the cover member at least partially covers at least one of the cutting blades but does not substantially cover the handles. The handles are accessible for manual engagement in the packaged state. Further, the cutting device is secured in the packaged state exclusively by means of the cover member engaging the base member in a form fit connection. However, the '729 reference falls short of providing the packaging which may be additionally used with the cutting tool for other applications. Such downsides may render the packaging as waste after one time use and may lead to material wastage, among some legal implications.

[0004] Thus, there is a need of an improved package for the cutting tool, which may provide implementation benefits and multiple applications with the cutting tool.

SUMMARY

[0005] In view of the above, it is an objective of the present invention to solve or at least reduce the draw-

backs discussed above. The objective is at least partially achieved by a package for a cutting tool. The package for the cutting tool includes a package body. The package body is adapted to package the cutting tool. The package body may include one or more sections adapted to at least partially cover one or more cutting edges of the cutting tool. The package for the cutting tool is characterized in that the package body includes one or more attachment elements to removably suspend the package with a suspension element. The suspension element is at least a part of a clothing. The package body further defines an angular section such that a fastener of the cutting tool removably engages therewith. The angular section supports the fastener of the cutting tool such that the one or more cutting edges of the cutting tool are at least partially covered by the one or more sections.

[0006] Thus, the present disclosure provides the package for the cutting tool that may provide utilities or applications that may not be readily accomplished by the conventional packages for the cutting tool. The package may function as a holder for the cutting tool. Further, the package may be suspended with at least a part of the clothing and may be carried along by a user to a workplace. This may eliminate the need to carry a separate toolbox and facilitate ergonomic and handsfree transfer of the cutting tool to the workplace. Further, the package includes the angular section designed for easy and removable engagement of the cutting tool with the package. Furthermore, the package includes the one or more sections to eliminate or substantially reduce the risk of injuries to the user due to an inadvertent movement of the cutting blades of the cutting tool. The one or more sections may also provide benefits of ensuring better trial and showcasing of the cutting tool within the package

[0007] According to an embodiment of the present disclosure, the part of a clothing is one or more of a belt, a strap, and a sling. The package may be easily and removably engageable with different types of the part of the clothing. Further, the assembly of the package and the cutting tool may not interfere with the regular movement of the user and may protect against any harm to the user by the cutting tool.

[0008] According to an embodiment of the present disclosure, the package body further includes a hanging portion removably attached therewith. The hanging portion may include one or more hanging holes. The hanging portion may facilitate hanging and showcasing of the packaged cutting tool in installations such as a shop. The potential buyer (or user) may better interact with or observe different details and specifications of the cutting tool.

[0009] According to an embodiment of the present disclosure, the angular section allows removable sliding of the fastener therein, such that to allow assembly of the package body and the cutting tool. This may allow ease of coupling between the cutting tool and the package body. The cutting tool may be single-handedly translated and/or rotated to couple the cutting tool with the package

body.

[0010] According to an embodiment of the present disclosure, the package body includes one or more attachment elements to allow removable coupling of the package having the cutting tool, with one or more of a belt, a strap, and a sling. The one or more attachment elements may be a loop, a Velcro, a bracket, or the like to allow ease of coupling between the cutting tool package and the at least a part of the clothing.

[0011] According to an embodiment of the present disclosure, the angular section further includes a lock. The lock allows to removably secure the fastener with the angular section for assembly of the cutting tool with the package. The lock may secure the cutting tool for safety reasons and at least to some degree, for protection against theft.

[0012] According to an embodiment of the present disclosure, the fastener is a pivot pin of the cutting tool. The pivot pin allows removable coupling of a first blade and a second blade of the cutting tool about a pivot point. The pivot pin may better adapt to the shape of the angular section and engage securely therewith.

[0013] According to an embodiment of the present disclosure, the cutting tool is selected from the group consisting of a shear, a lopper, and a scissor. The cutting tool may be any hand-operated, portable cutting tool.

[0014] Other features and aspects of this invention will be apparent from the following description and the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] The invention will be described in more detail with reference to the enclosed drawings, wherein:

FIG. 1 shows a perspective view of a packaged cutting tool within a package, in accordance with an aspect of the present disclosure;

FIG. 2 shows another perspective view of a packaged cutting tool within a package, in accordance with an aspect of the present disclosure;

FIG. 3 shows a perspective front view of a package for a cutting tool, in accordance with an aspect of the present disclosure;

FIG. 4 shows a perspective back view of a package for a cutting tool, in accordance with an aspect of the present disclosure;

FIG. 5 shows a perspective back view of a packaged cutting tool within a package, in accordance with an aspect of the present disclosure;

FIG. 6 shows a perspective view of a packaged cutting tool in an open position within a package, in accordance with an aspect of the present disclosure;

and

FIG. 7 shows a packaged cutting tool in a closed position within a package, in accordance with an aspect of the present disclosure.

DESCRIPTION OF EMBODIMENTS

[0016] The present invention will be described more fully hereinafter with reference to the accompanying drawings, in which example embodiments of the invention incorporating one or more aspects of the present invention are shown. This invention may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art. For example, one or more aspects of the present invention may be utilized in other embodiments and even other types of structures and/or methods. In the drawings, like numbers refer to like elements.

[0017] Certain terminology is used herein for convenience only and is not to be taken as a limitation on the invention. For example, "upper", "lower", "front", "rear", "side", "longitudinal", "lateral", "transverse", "upwards", "downwards", "forward", "backward", "sideward", "left", "right", "horizontal", "vertical", "upward", "inner", "outer", "inward", "outward", "top", "bottom", "higher", "above", "below", "central", "middle", "intermediate", "between", "end", "adjacent", "proximate", "near", "distal", "remote", "radial", "circumferential", or the like, merely describe the configuration shown in the Figures. Indeed, the components may be oriented in any direction and the terminology, therefore, should be understood as encompassing such variations unless specified otherwise.

[0018] **FIGS. 1** and **2** illustrate a package **100** which may be used for packaging a cutting tool **160**. The cutting tool **160** may be any hand-operated portable cutting tool **160** such as a shear, a lopper, a scissor, and the like. The cutting tool **160** may include a pair of cutting blades i.e., a first blade **162**, and a second blade **172** pivotably secured to each other via a fastener **168** (or a pivot pin **168**) at a pivot point **170** along an axis **X-X'**. The pivot pin **168** may allow removable coupling of the cutting blades **162**, **172** of the cutting tool **160** about the pivot point **170**. The cutting blades **162**, **172** may further include cutting edges **166**, **176** respectively (as shown in **FIG. 6**). The cutting blades **162**, **172** may be coupled to the handles **164**, **174** for manual operation of the cutting tool **170**.

[0019] As illustrated in **FIGS. 1**, **2** and **3**, the package **100** for the cutting tool **160** includes a package body **110**. The package body **110** may be adapted to package the cutting tool **160**. In some embodiments, the package body **110** may be made of a material of one or more of a cardboard, a plastic, a polymer, and the like. The material of the package body **110** may be selected based

upon the cutting tool **160**, or any other implementation factor. In some embodiments, the package body **110** may be made of transparent material (as shown in **FIG. 1**).

[0020] The package body **110** may include one or more sections **112** adapted to at least partially cover one or more cutting edges **166**, **176** of the cutting tool **160**. The one or more sections **112** may include a first section **120** and a second section **130**. The first section **120** and the second section **130** may be connected at ends "E1", "E3" via a side wall **114** and at ends "E2", "E4" via coupling tabs **116**. The coupling tabs **116** may be any coupling tabs **116** known in the art. In some embodiments, the ends "E2", "E4" may not be connected. In some embodiments, the ends "E1", "E3" may be connected by the coupling tabs **116**.

[0021] In some embodiments, the coupling tabs **116** may be a plurality of breakable bonds. In some embodiments, the coupling tabs **116** may be a plurality of hook and loop fasteners. In some embodiments, the coupling tabs **116** may be one or more of a rivet, a nut, and a bolt mechanism. In some embodiments, the coupling tabs **116** may be a plurality of Velcro mechanisms.

[0022] The first section **120** may include a first surface **122**, an opposing second surface **124**, a top surface **126** and a bottom surface **128**. The second surface **124** may face the second section **130**. The bottom surface **128** may further include an angular section **123** such that the fastener **168** (or the pivot pin **168**) of the cutting tool **160** may removably slide and engage therewith and may allow assembly of the package body **110** and the cutting tool **160**. The pivot pin **168** may better adapt to the shape of the angular section **123** and engage securely therewith. The angular section **123** may support the pivot pin **168** of the cutting tool **160** such that the one or more cutting edges **166**, **176** of the cutting tool **160** may at least partially get covered by the one or more sections **112**.

[0023] In some embodiments, the angular section **123** may be integrally formed with the bottom surface **128** by any means known in the art. In some embodiments, the angular section **123** may be coupled with the bottom surface **128** by using adhesives, screw fasteners or any other means known in the art.

[0024] In some embodiments, the angular section **123** may be made of a material similar to the package body **110**, or the cutting tool **160** or any other material known in the art that may be corrosion resistant and may be able to carry the weight of the cutting tool **160**. Further, such choice of the material may ensure that the angular section **123** will not wear-out or deteriorate on sliding engagement with the fastener **168** of the cutting tool **160**. In some embodiments, the angular section **123** may be a trigger shaped, a semi-circular, a circular section or any other angle shaped section known in the art.

[0025] In some embodiments, the angular section **123** may include a lock **125**. The lock **125** may allow to secure the fastener **168** with the angular section **123** for assembly of the cutting tool **160** with the package **100**. The lock **125** may secure the cutting tool **160** for safety reasons

and at least to some degree, for protection against theft. It is obvious that after purchase of the packaged tool one can remove the lock **125** such that the cutting tool **160** can be removed from the package or even can be carried hung on the angular section **123**.

[0026] As illustrated in **FIGS. 1, 4 and 5**, the second section **130** may include a first surface **132**, an opposing second surface **134**, a top surface **136** and a bottom surface **138**. The first surface **132** may face the first section **120**. The second surface **134** may include one or more attachment elements **133** to removably suspend the package **100** having the cutting tool **160** with a suspension element **180**. In some embodiments, the bottom surface **138** may also include the angular section **123**.

[0027] In some embodiments, the suspension element **180** may be at least a part of a clothing. The part of the clothing may be one or more of a belt, a strap, and a sling. Further, in some embodiments, the one or more attachment elements **133** may be a loop **137**, a Velcro (not shown), a bracket **135** (preferably a U-shaped or a hook shaped bracket), or the like to allow ease of coupling between the cutting tool package **100** and the at least a part of the clothing. Thus, the package **100** may be easily and removably engage with the part of the clothing. Further, the package **100** and the cutting tool **160** assembly may not interfere with the regular movement of a user and may not cause any harm to the body of the user.

[0028] The top surface **136** of the second section **130** of the package body **110** may be connected to a hanging portion **140** removably attached therewith. The hanging portion **140** may include a first surface **144**, a second surface **146**, a top surface **145**, a bottom surface **147**, a pair of side surfaces **148** and one or more hanging holes **142** (preferably euro holes). The one or more hanging holes **142** may allow ease of hanging of the package **100**. The one or more hanging holes **142** may be mounted with any wall hanging means such as nails, brackets, and the like. The first surface **144** of the hanging portion **140** may carry product (or the cutting tool **160**) information. The information may be the company name, company logo, cutting tool specification and the like. The hanging portion **140** may facilitate showcasing of the packaged cutting tool **160** in a shop. The potential buyer (or user) may thus better interact with different details and specifications of the cutting tool **160**.

[0029] The connection between the top surface **136** of the second section **130** of the package body **110** and the bottom surface **147** of the hanging portion **140** may be along a line of weakness **150**. The line of weakness **150** may be a series of small protrusions, holes, and the like within the package body **110**. The line of weakness **150** may allow partial or complete, folding or removal of the hanging portion **140** with respect to the package body **110**.

[0030] In some embodiments, the shape of the first section **120** and the second section **130** of the package body **110** may be similar to each other. In some embodiments, the shape of the first section **120** and the second

section **130** of the package body **110** may be selected from rectangular, circular or any other shape without limiting the scope of the disclosure.

[0031] Further, **FIGS. 6** and **7** illustrate the cutting tool **160** in an open position "**P1**" and a closed position "**P2**" respectively. The cutting tool **160** may be tried and tested within the package body **110** by moving the cutting tool **160** between the open position "**P1**" and the closed position "**P2**". The cutting blades **162**, **172** may confine within the package body **110** during trial of the cutting tool **160**. Hence, the chances of injuries due to the cutting edges **166**, **176** of the cutting blades **162**, **172** may be substantially eliminated.

[0032] Thus, the present disclosure provides a package **100** for the cutting tool **160** that may provide utilities or applications that may not be readily accomplished by the conventional packages **100** for the cutting tool **160**. The package **100** may function as a holder for the cutting tool **160**. The package **100** may be suspended with at least a part of the clothing (such as a belt, strap, or a sling) and may be carried along by the user to a workplace. The cutting tool **160** may be easily and single-handedly attached to the package **100** (or the holder) through a translational and small rotational movement of the cutting tool **160** to couple the cutting tool **160** with the angular section **123** of the package **100**. Further, the hanging portion **140** of the package **100** may be used for cutting tool **160** information and may be removed from the package **100** along the line of weakness **150** when using the package **100** as the holder of the cutting tool **160**. Furthermore, the package **100** may include the one or more sections **112** to eliminate or substantially reduce the risk of injuries to the user due to an inadvertent movement of the cutting blades **162**, **172** of the cutting tool **160**. The one or more sections **112** may also provide benefits of ensuring better trial and showcasing of the cutting tool within the package **100**.

[0033] In the drawings and specification, there have been disclosed preferred embodiments and examples of the invention and, although specific terms are employed, they are used in a generic and descriptive sense only and not for the purpose of limitation of the scope of the invention being set forth in the following claims.

LIST OF ELEMENTS

[0034]

100	Package
110	Package Body
112	Sections
114	Wall
116	Coupling Tabs
120	First Section
122	First Surface
123	Angular Section
124	Second Surface
125	Lock

126	Top Surface
128	Bottom Surface
E1, E2	End
130	Second Section
132	First Surface
133	Attachment Element
134	Second Surface
135	Bracket
136	Top Surface
137	Loop
138	Bottom Surface
E3, E4	Ends
140	Hanging Portion
142	Hanging Holes
144	First Surface
145	Top Surface
146	Second Surface
147	Bottom Surface
148	Side Surfaces
150	Line of Weakness
160	Cutting Tool
162,172	Cutting Blades (First Blade, Second Blade)
166,176	Cutting Edges
164,174	Handles
168	Pivot Pin/Fastener
170	Pivot Point
180	Suspension Element
X-X'	Axis
P1	Open Position
P2	Closed Position

Claims

1. A package (**100**) for a cutting tool (**160**), comprising:

a package body (**110**) adapted to package the cutting tool (**160**), the package body (**110**) including one or more sections (**112**) adapted to at least partially cover one or more cutting edges (**166**, **176**) of the cutting tool (**160**);

characterized in that:

one or more attachment elements (**133**) to removably suspend the package (**100**) with a suspension element (**180**), which is at least a part of a clothing;
the package body (**110**) defines an angular section (**123**) such that a fastener (**168**) of the cutting tool (**160**) removably engages therewith, wherein the angular section (**123**) supports the fastener (**168**) of the cutting tool (**160**) such that the one or more cutting edges (**166**, **176**) of the cutting tool (**160**) are at least partially covered by the one or more sections (**112**).

2. The package (**100**) of claim 1, wherein the part of a

clothing is one or more of a belt, a strap, and a sling.

3. The package (100) of any of the preceding claims,
wherein the package body (110) further includes a
hanging portion (140) removably attached therewith,
wherein the hanging portion (140) includes one or
more hanging holes (142). 5

4. The package (100) of any of the preceding claims,
wherein the angular section (123) allows removable
sliding of the fastener (168) therein, such that to allow
assembly of the package body (110) and the cutting
tool (160). 10

5. The package (100) of any of the preceding claims,
wherein the package body (110) includes one or
more attachment elements (133) to allow removable
coupling of the package (100) having the cutting tool
(160), with one or more of a belt, a strap, and a sling. 15

6. The package (100) of any of the preceding claims,
wherein the angular section (123) further includes a
lock (125), wherein the lock (125) allows to remov-
ably secure the fastener (168) with the angular sec-
tion (123) for assembly of the cutting tool (160) with
the package (100). 20 25

7. The package (100) of any of the preceding claims,
wherein the fastener (168) is a pivot pin (168) of the
cutting tool (160), wherein the pivot pin (168) allows
removable coupling of a first blade (162) and a sec-
ond blade (172) of the cutting tool (160) about a pivot
point (170). 30

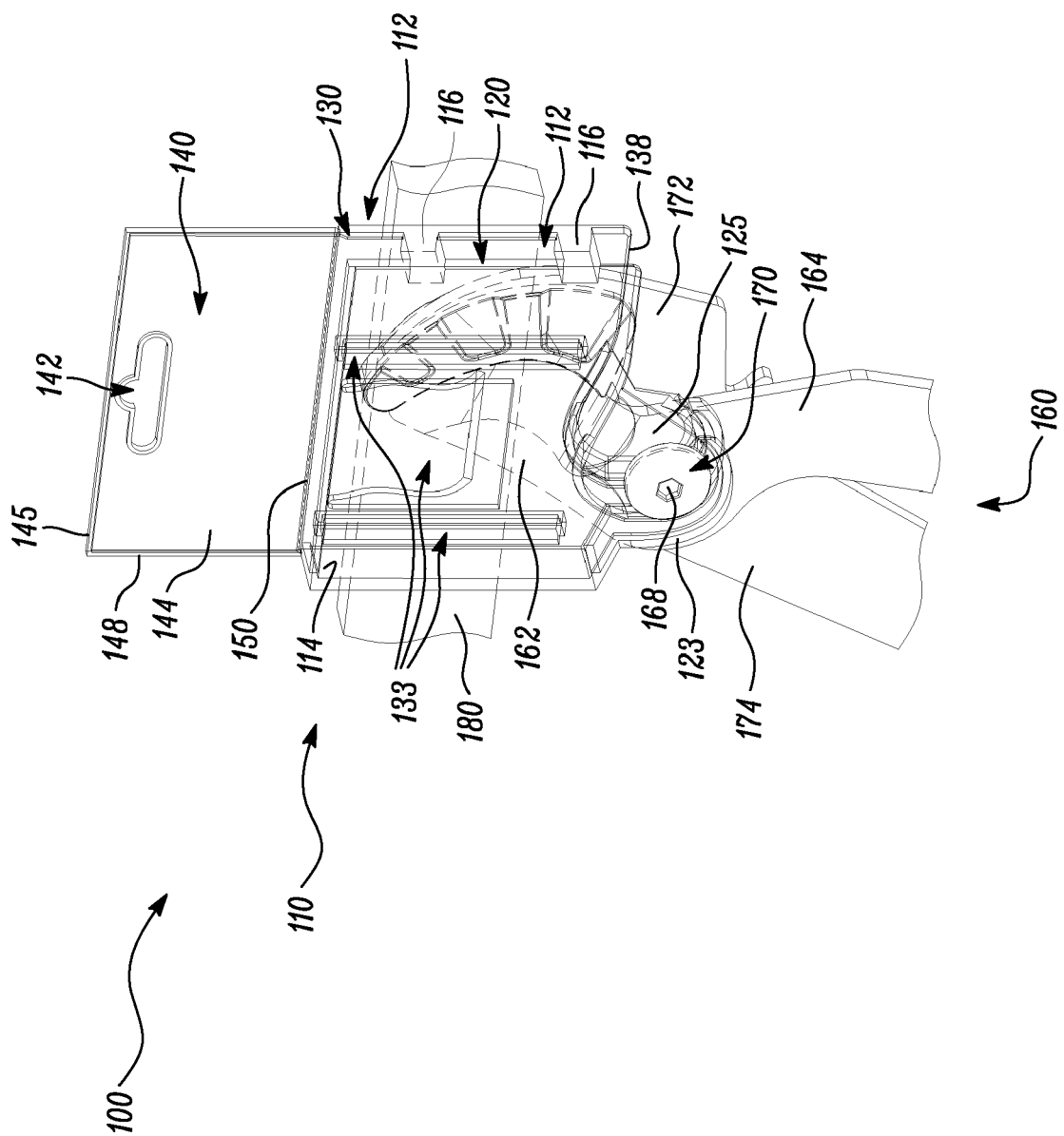
8. The package (100) of any of the preceding claims,
wherein the cutting tool (160) is selected from the
group consisting of a shear, a lopper, and a scissor. 35

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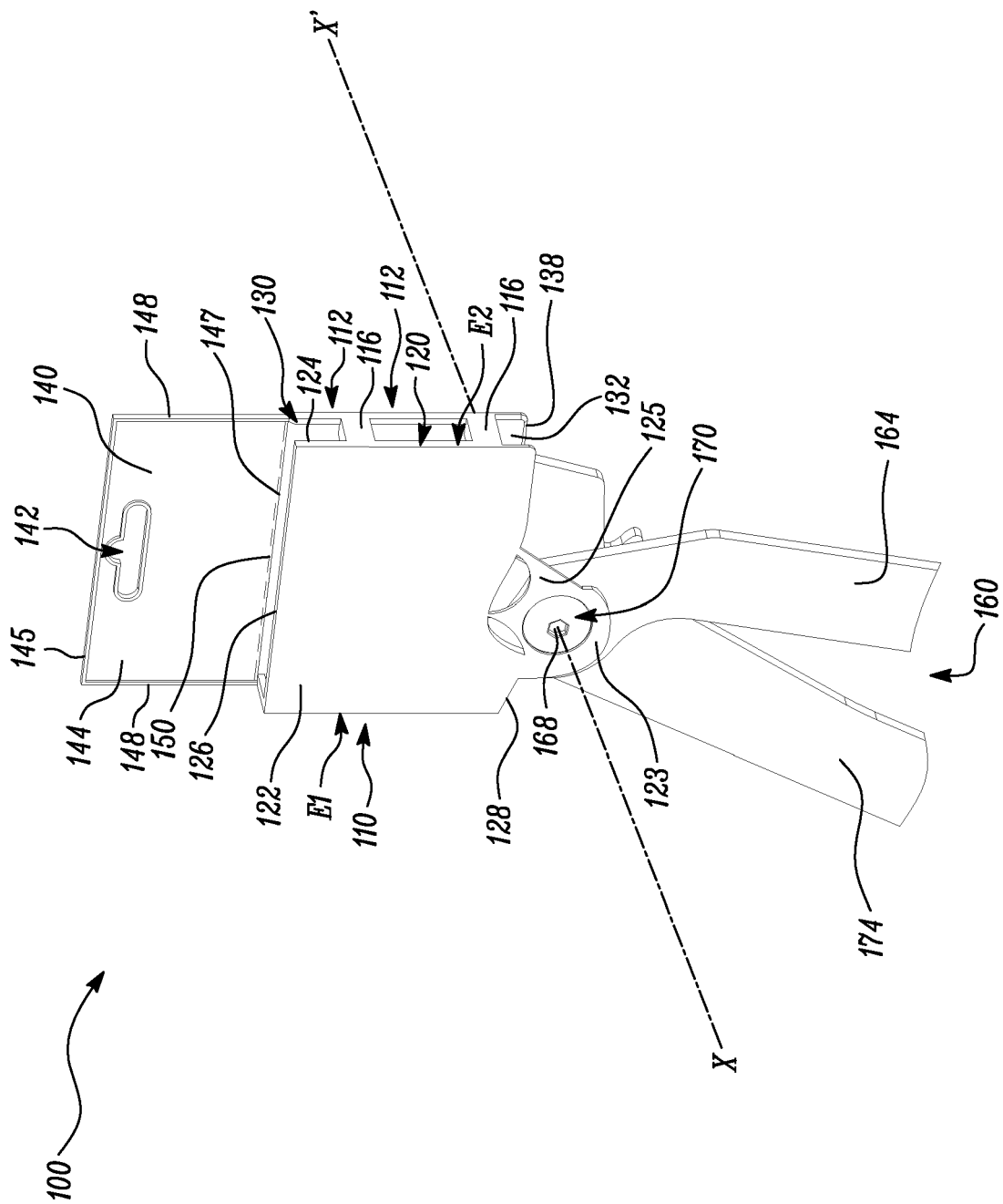


FIG. 2

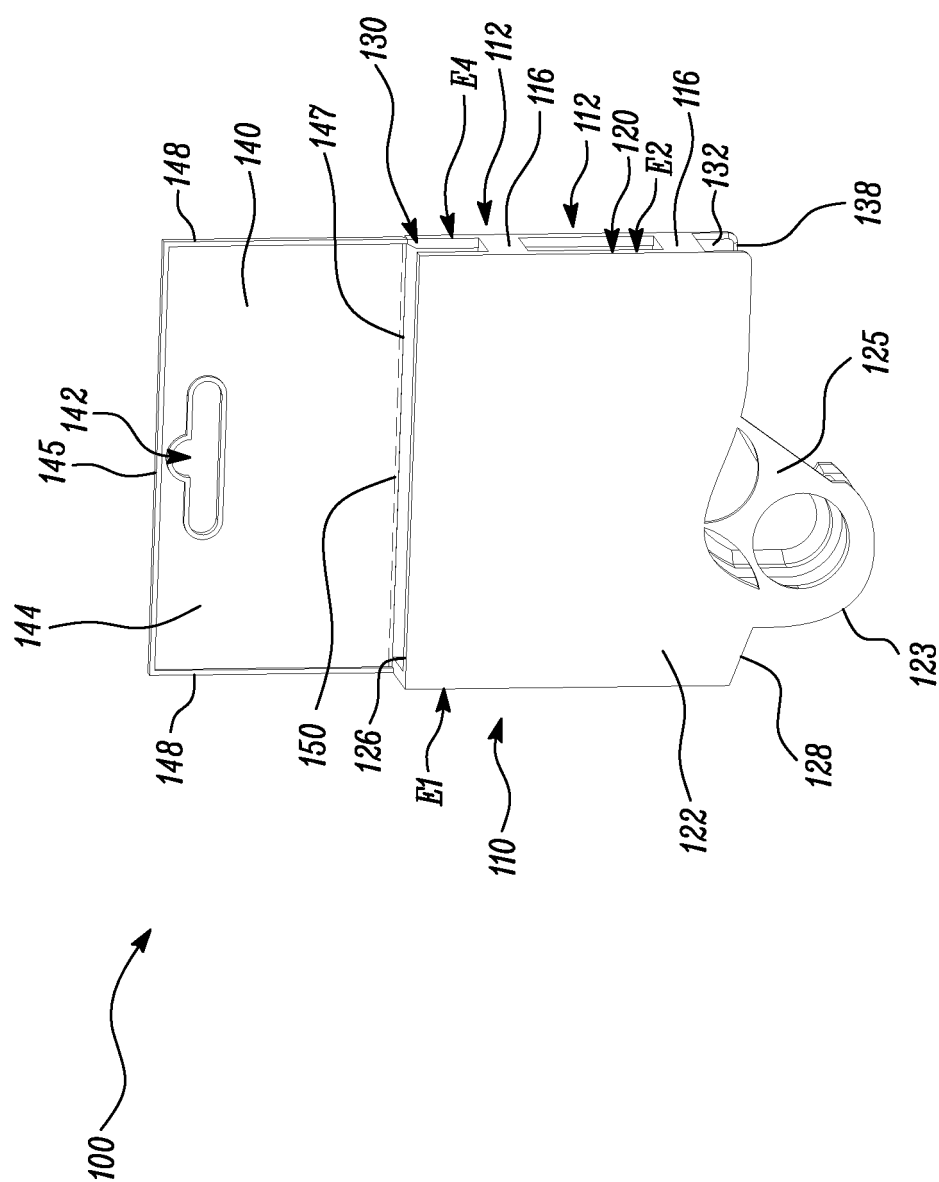


FIG. 3

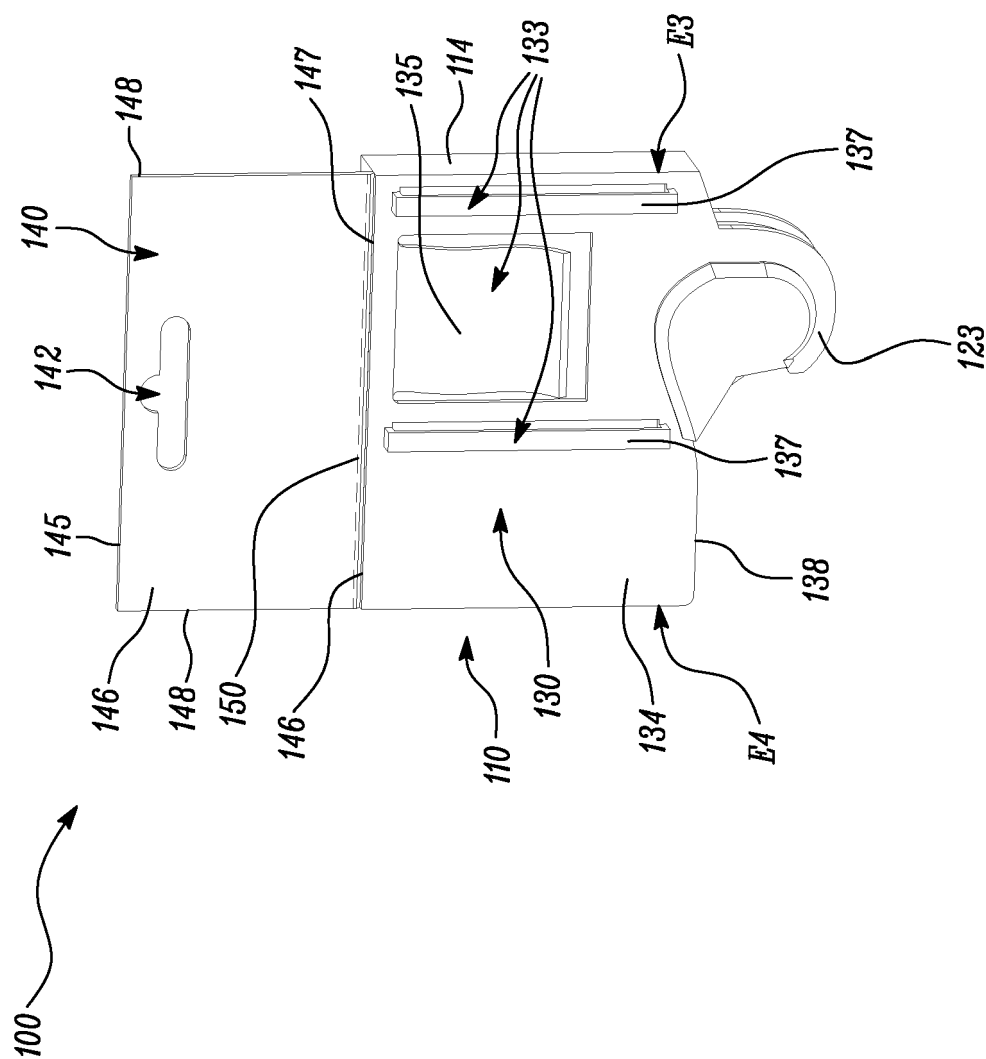


FIG. 4

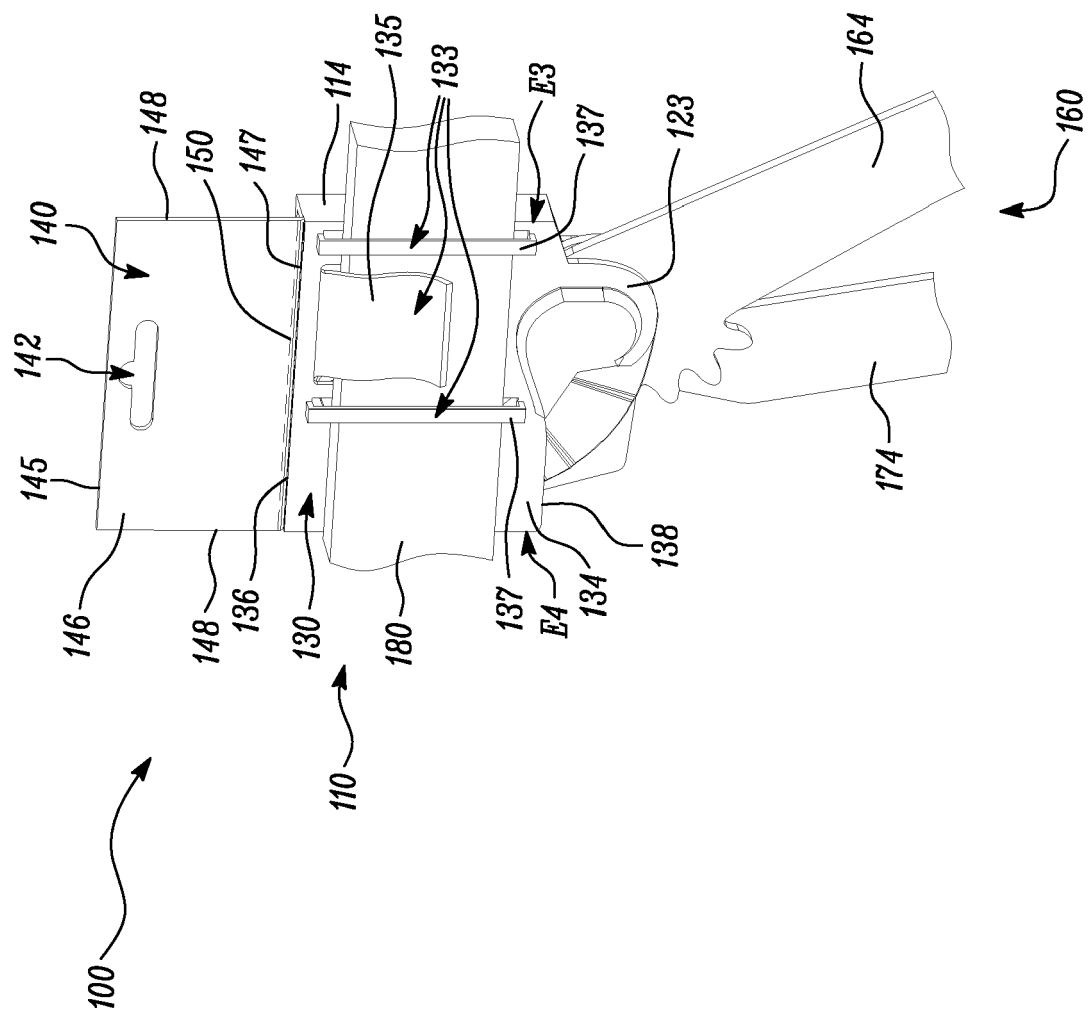


FIG. 5

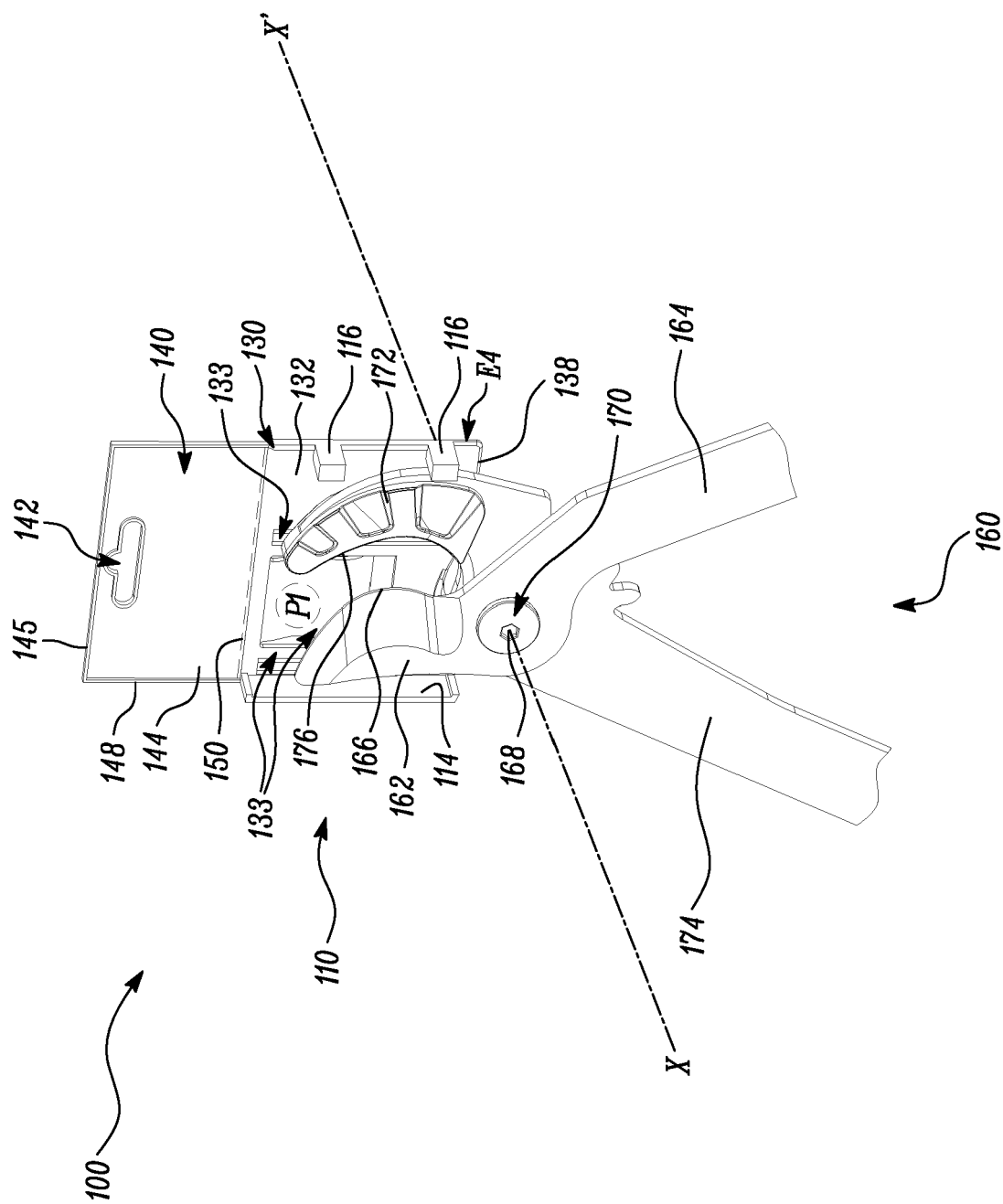


FIG. 6

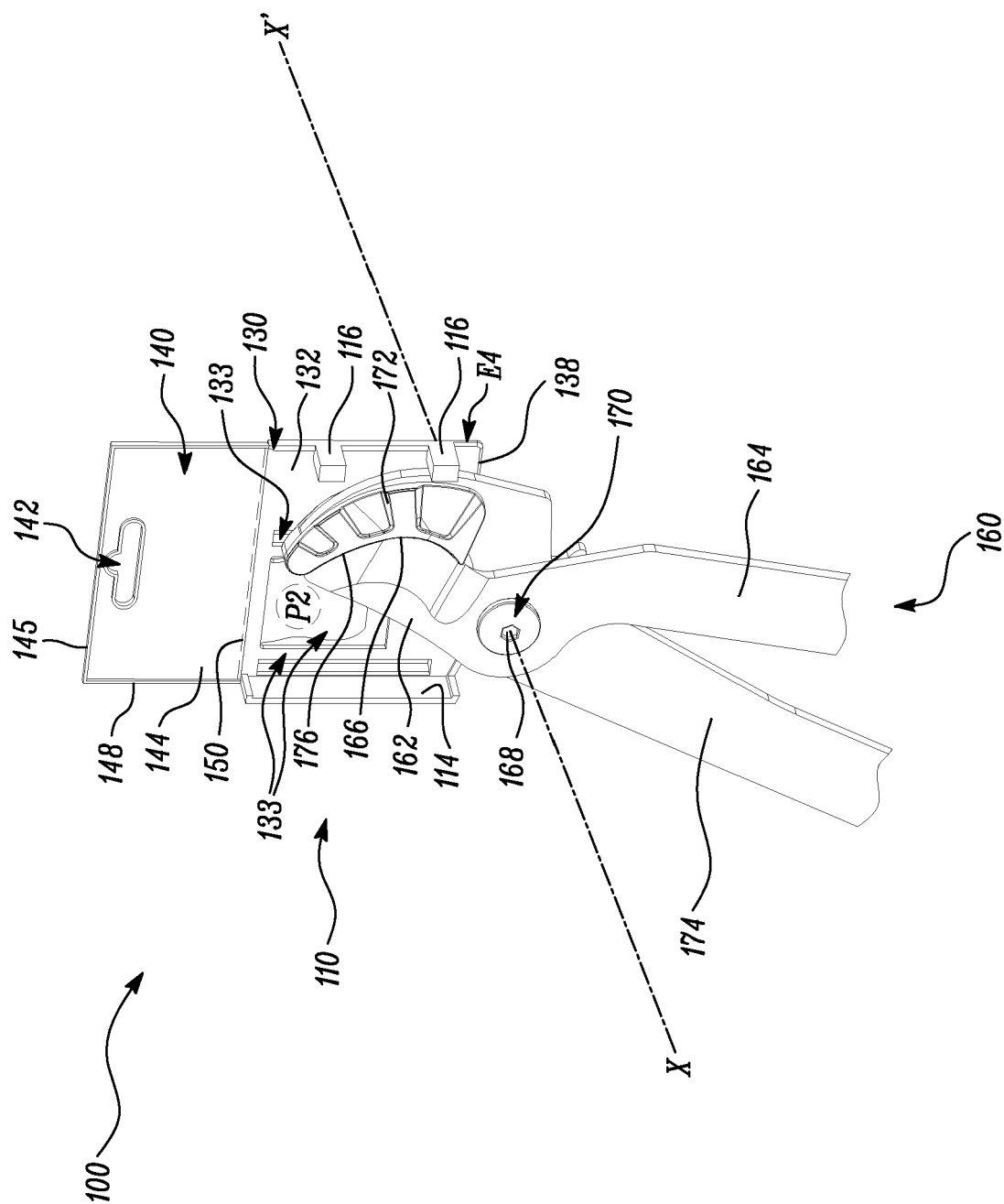


FIG. 7



EUROPEAN SEARCH REPORT

Application Number

EP 21 20 3682

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2018/303253 A1 (WOLF JAMES J [US] ET AL) 25 October 2018 (2018-10-25) * paragraph [0013] - paragraph [0024]; claims 1-7; figures 1-6 * -----	1-8	INV. B65D73/00 A45F5/02 F41C33/04
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			TECHNICAL FIELDS SEARCHED (IPC)
			B65D A45F F42D F41C
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Munich		25 February 2022	Janosch, Joachim
CATEGORY OF CITED DOCUMENTS		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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ON EUROPEAN PATENT APPLICATION NO.**

EP 21 20 3682

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25-02-2022

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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