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(21) International Application Number: PCT/EP90/01812 (22) International Filing Date: 25 October 1990 (25.10.90) (30) Priority data: 8902650 25 October 1989 (25.10.89) NL (71) Applicant (for all designated States except US): H.K. PLASTICS B.V. [NL/NL]; Nijverheidsstraat 46, NL-7575 BK Oldenzaal (NL). (72) Inventor; and (75) Inventor/Applicant (for US only) : HAASEWINKEL, Gerhardus, Martinus [NL/NL]; Schapendijk 1, NL-7574 PG Oldenzaal (NL). (74) Agent: LAND, Addick, Adrianus, Gosling; Sweelinckplein 1, NL-2517 GK The Hague (NL).		(81) Designated States: AT (European patent), BE (European patent), CA, CH (European patent), DE (European patent), DK (European patent), ES (European patent), FR (European patent), GB (European patent), GR (European patent), IT (European patent), LU (European patent), NL (European patent), SE (European patent), US. Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: HOLDER WITH A COVER (57) Abstract A holder (1) with a cover (2), wherein the holder is provided with a flange-like edge at the opening of the holder on which can be gripped the cover that is provided with a corresponding groove (4).		

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HOLDER WITH A COVER

The present invention relates to holders with covers such as are manufactured in great numbers for the purpose of packaging food, paint and the like. Holder and cover are usually injection moulded from plastic, such as polyethylene, 5 polypropylene and the like, wherein the cover is typically manufactured from a softer plastic than the holder.

Such holders have to be properly closable and relatively easy to open.

It is further of importance that such holders with cover 10 have an attractive appearance as this enhances the marketability of the content of the holder.

The present invention provides a holder with cover as according to claim 1.

A further aspect of the present invention relates to a 15 holder provided with hand-grips which lie comfortably in the hand and do not disturb the compact appearance of the holder. The holder according to claim 2 is furthermore nestable in addition to being stackable with cover. The skirt is reinforced by the hand-grips formed thereon.

20 Another aspect of the present invention relates to the printing with text of such holders. The holder according to claim 3 prevents a handle of the correct size that may be attached thereto from hanging in front of the outer surface of the holder during printing thereof. In currently normal 25 practice handles are mainly fitted after printing, which usually takes place manually and also necessitates extra storage and transport.

If the handle is embodied in plastic and rests on the bosses it is virtually invisible, thus not disturbing the 30 compact appearance of the holder.

A further aspect of the present invention relates to sealing of such holders closed with covers so as to prevent material undesired by the seller of the holders with content,

such as poison in food, contraband and the like, from being added by unauthorized persons.

The present invention further provides a sealing element.

Further details, features and advantages will become
5 apparent in the light of a description of preferred embodiments and embodiments of the present invention with reference to the annexed drawings, wherein:

figure 1 shows a perspective view of a first preferred embodiment of the present invention;

10 figure 2 shows a partly cut away perspective view of the preferred embodiment of figure 1;

figure 3 shows a perspective view of a sealing element according to the present invention;

figure 4 is a perspective view of another preferred
15 embodiment of the present invention; and

figure 5 is a perspective view of the holder of figure 4 with a freely accessible top opening.

In the present invention a distinction can be made between holders with a capacity of about 0.4-14 litres and larger
20 holders, also because customers for such holders are wholly distinct. In addition, the smaller capacity holders are generally supplied without handles.

The holder 1 (figure 1) of for instance 5 litre capacity is provided with a cover 2 in which an upstanding disc 3 is
25 arranged for the purpose of stacking with a corresponding base (not shown) of the holder 1.

As can also be seen in figure 2, a cover 2 is provided with a groove 4 which grips over a top edge 5 of the holder 1. In addition a downward hanging skirt 7 is arranged on the
30 side wall 6 of holder 1. Around the skirt 7 is arranged a recess 8 for easy bending of the cover during opening of the holders.

Arranged on the skirt 7 are one or more hand-grips 9 the outer surface 10 of which stands out slightly more than the
35 skirt 8, so that a user can place his hand thereunder while the angle is not so large that the compact appearance of the outer wall of the holder is disturbed. In addition the hand-

grip supports the skirt 7 by means of the side walls 11. The hand-grip 9 further forms a stop in the nesting of such holders, while a number of nested holders or buckets can be carried on the hand-grip. In preference an eye 12 is arranged
5 above the middle of the hand-grip 9 wherein a handle can be simply placed.

The cover 2 is preferably sealed onto the holder 1 using sealing elements 20 (figure 1, 2 and 3) whereof a number, depending on the size of the holder and in the embodiment
10 shown three, are arranged at regular intervals round the cover.

As can be seen in figures 2 and 3 the sealing elements 20 can be fitted onto the holder and the cover in a simple operation.

15 After a counter-element 21 has been hooked under the skirt 7 a jaw member 22 is pushed over the top side of the groove 4 of the cover, wherein the arm 23 provided with upward oriented teeth 24 is received by the counter-element 21. As can be seen in figure 2, the arm 23 is received between a
20 bridge element 25 which extends transversely of the arm 23 and which is fixed between two upward directed arms 26 and 27 and a lip 28 gripping onto the teeth.

As will be apparent, such a sealing element can only be removed through forcing, that is breaking, thereof.

25 Depending on the stiffness of the arm 23 and the lip 28 the counter-element can be provided with a second bridge element parallel to the bridge element 25 but arranged at some interval above or below it.

The embodiment shown in figures 4 and 5 relates to a
30 holder with a capacity of more than 15 litres on which a plastic handle 31 is arranged using the eyes above the hand-grips 9, while the skirt 37 is provided with one or more protruding stop elements 38. As the handle 31 has an only slightly greater length than half the outer periphery of the
35 opening 33 of the holder it will rest in downward pivoted position (figure 5) on one or more bosses 38, whereby this handle does not form an obstacle to printing with text of the

4

outer wall 35 of holder 30.

Furthermore, the handle 31 in downward pivoted position does not disturb the appearance of holder 30, for instance when the hand-grips are used to carry this holder 30.

CLAIMS

1. Holder with cover, wherein the holder is provided with a flange-like edge at the opening of the holder on which can be gripped the cover that is provided with a corresponding groove.

5 2. Holder as claimed in claim 1, wherein the holder has on the outside along the opening of the holder a downward facing peripheral skirt on which two hand-grips are formed, an outer surface of which is positioned in each case at an angle relative to the outer wall of the holder, which angle
10 varies only in small measure from the angle of the peripheral skirt relative to this outer wall.

3. Holder as claimed in claim 1 or 2, wherein above the hand-grip in the peripheral skirt eyes are arranged wherein a handle is attachable.

15 4. Holder as claimed in claim 1, 2 or 3, wherein the peripheral skirt is provided with stop bosses for the handle to rest on.

5. Holder as claimed in any of the claims 1-4, provided with a handle of plastic of a length that is slightly greater
20 than half the upper periphery of the opening of the holder.

6. Holder as claimed in any of the claims 1-5, provided with one or more sealing elements.

7. Holder as claimed in claim 6, wherein the sealing element comprises:

25 a jaw member gripping onto the top side of the groove of the cover, a counter-element gripping onto the underside of the skirt and means for non-releasable connection of the jaw member to the counter-element in order to seal the cover onto the holder.

30 8. Holder as claimed in claim 7, wherein the connecting means comprise:

an arm forming part of the jaw member and provided with slanting teeth;

6

a lip forming part of the counter-element; and
one or more bridge elements forming part of the counter-
element for non-releasable receiving of the arm of the jaw
member in the counter-element.

5 9. Sealing element comprising:

a jaw member provided with an arm on which are moulded
slanting teeth;

a counter-element provided with a lip for gripping onto
the slanting teeth; and

10 one or more bridge elements for receiving the arm in the
counter-element.

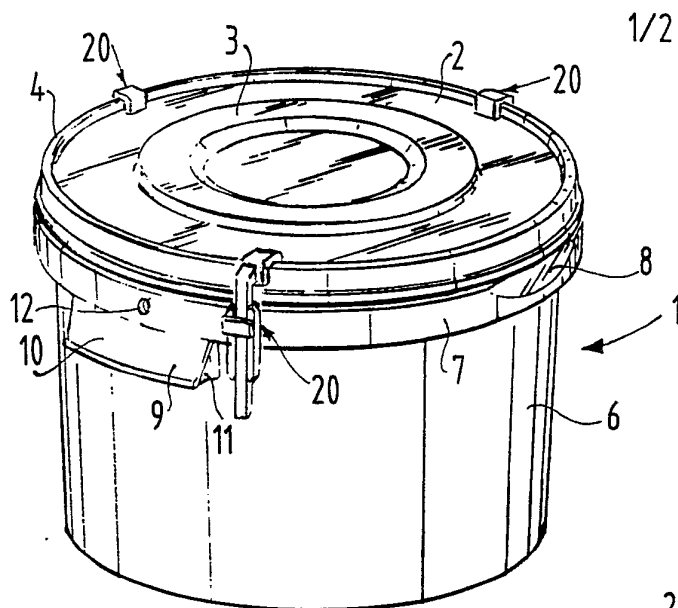


FIG. 1

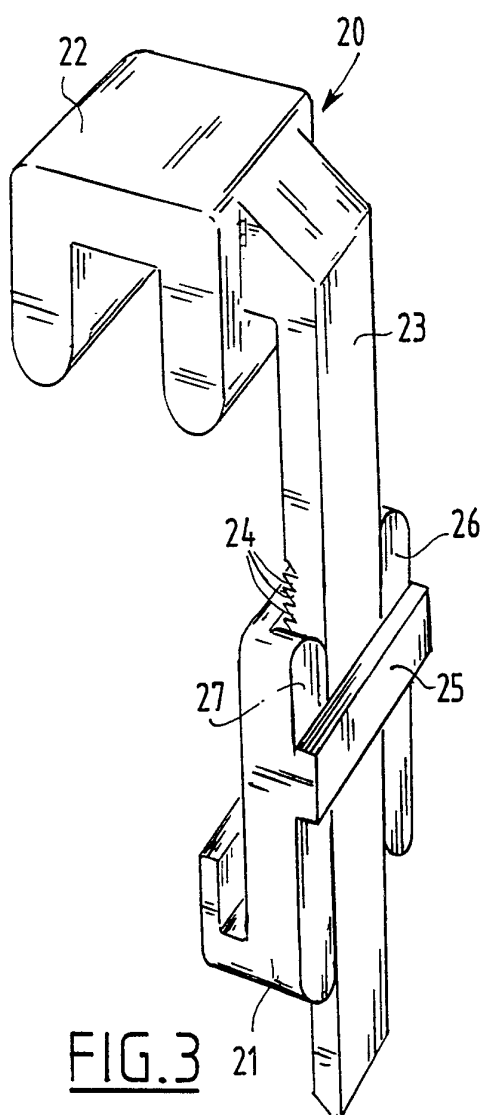


FIG. 3

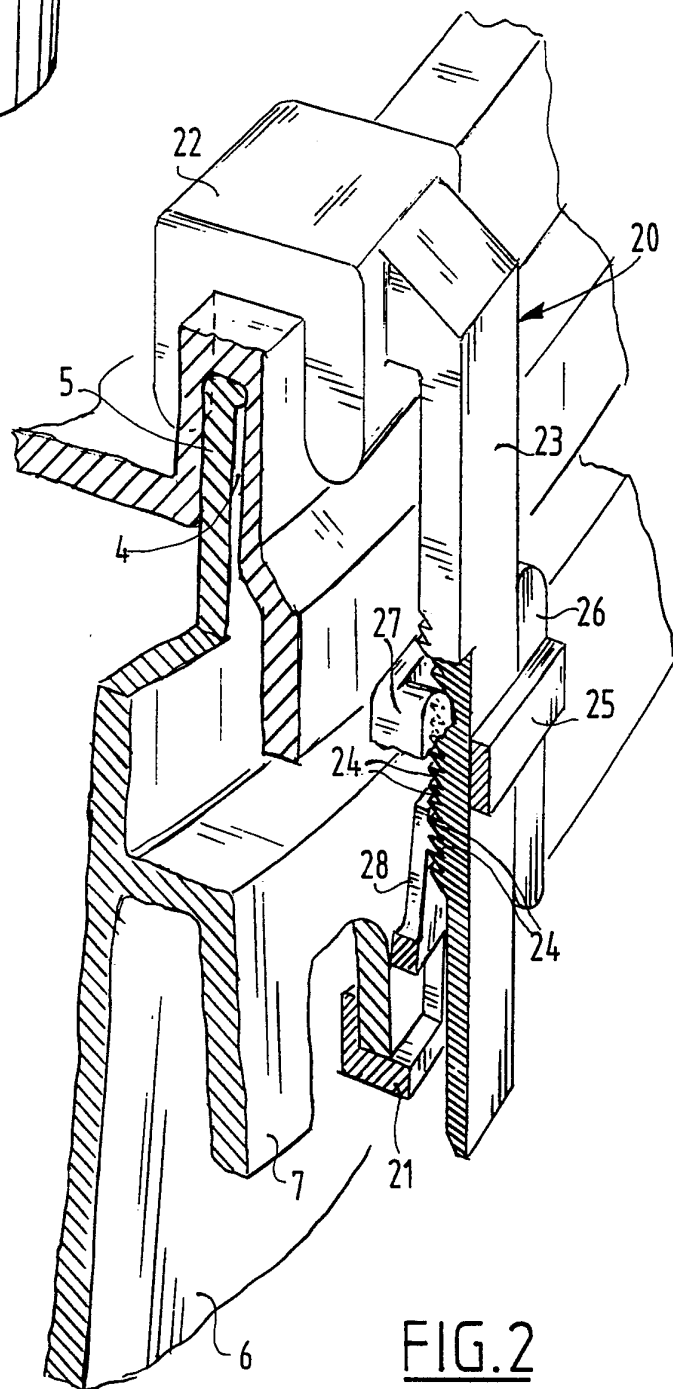


FIG. 2

2/2

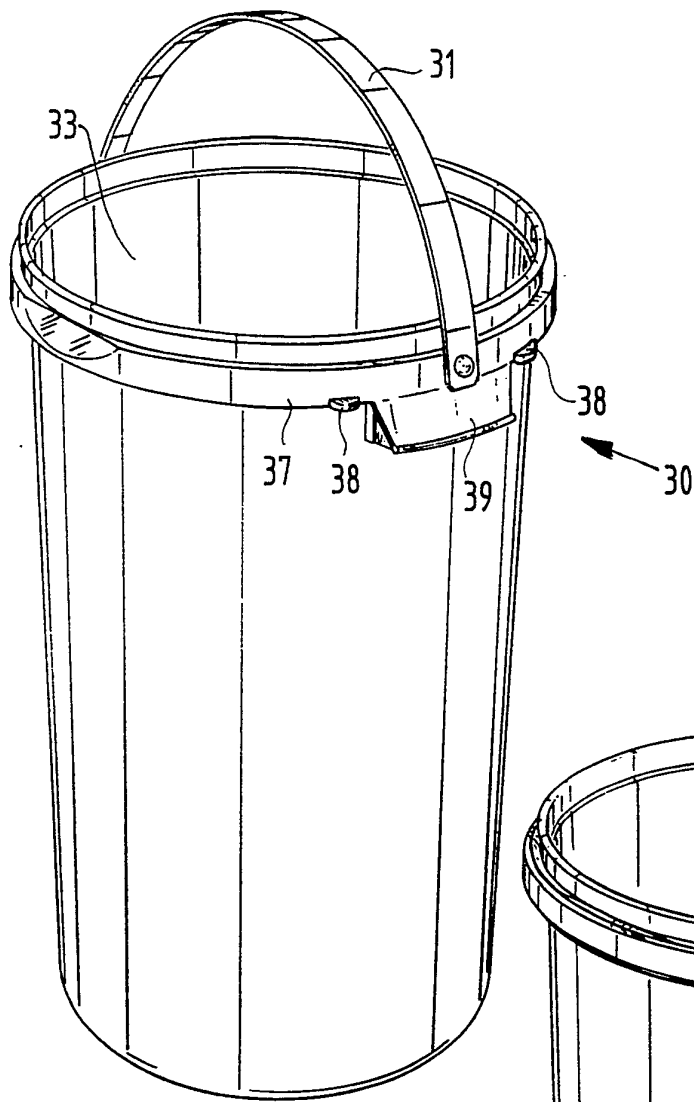


FIG. 4

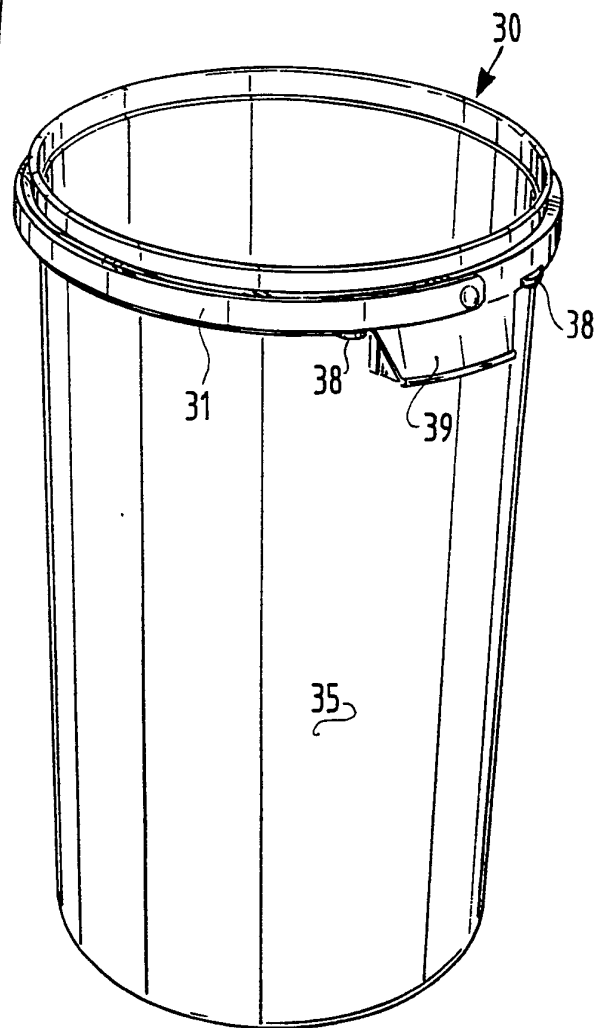


FIG. 5