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(54) **A waste container**

Abfallbehälter

Conteneur à déchets

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Description

[0001] The present invention relates to a waste container particularly, but not exclusively, to such a container for the disposal of dog excrement or other odorous or unsanitary waste in public places.

[0002] One known waste container for dog excrement comprises a receptacle pivotal between open and closed positions relative to a housing with a front opening. The housing is fixed to an upright post and has a top wall with a disposal chute closeable by a flap. In the closed position the receptacle is contained within and locked to the housing so that its opening is covered by the top wall of the housing and access is only possible via the flap. Waste material is disposed by lifting the flap and dropping it into the container so that it is carried by the chute into the receptacle lined by a refuse sack. When the receptacle is emptied the container is unlocked by an authorised person and the receptacle automatically rocks forward to expose the receptacle opening and to allow a full lining sack to be removed and a fresh sack fitted.

[0003] Once emptied the receptacle is pushed closed and is automatically locked to the housing. The receptacle may be fully removed from the housing to enable cleaning of both the receptacle and the chute.

[0004] A further example of a waste container is disclosed in Patent No. US 3383035. This document describes a receptacle adapted to be pivotally mounted on a support structure. The receptacle comprises a body with a handle fixed thereto and a covering lid fixed to the support and connected to the body by a link member. Pulling the handle causes the body to pivot downwardly to a discharge position at the same time as causing the covering lid to pivot upwardly clear of the body, these concerted motions allow unimpeded movement of the body from a upright storage position to the discharge position.

[0005] It is an object of the present invention to provide an improved waste container.

[0006] According to the present invention there is provided a waste container comprising an upright receptacle pivotally mounted on a support and having a closure pivotally associated therewith, the closure being pivotal relative to an opening of the receptacle between open and closed positions, pivotal movement of the closure to the open position causes pivotal movement of the receptacle relative to the support to a position inclined to the upright, and a linkage provided between the closure and the receptacle to permit movement of the closure with mechanical advantage, characterised in that the linkage comprises a link member that is pivotally connected at one end to the support and pivotally connected at the other end to the closure, and in that a rear wall of the closure is pivotally connected to a rear wall of the receptacle.

[0007] In the closed position the linkage is preferably unextended with the link member overlying the closure

in which there may be a recess to receive the link member. In the open position the linkage is preferably extended with the link member and the rear wall of the closure spanning a clearance between an upper end of the receptacle and the upper end of the support, the clearance being present by virtue of the inclination of the receptacle to the upright.

[0008] In a preferred embodiment the link member is connected to a top wall of the closure at a position adjacent the rear wall of the closure.

[0009] The receptacle may conveniently act as a counterweight to the closure during movement of the closure between the closed and open positions.

[0010] The closure is preferably sealed to the receptacle in the closed position and may be recessed to receive an edge of the receptacle around the opening for this purpose. A seal may be provided in the recess.

[0011] The receptacle may be lined with a sack an upper end of which is clamped between the closure and the receptacle when the closure is in the closed position.

[0012] The receptacle may be removable from the support and the closure to permit cleaning and a quick-release connection between the receptacle and the closure may be provided to assist in removal. However, the receptacle may have a projecting member that engages with the support to prevent removal until disengaged with a release key.

[0013] The closure has a disposal aperture closeable with a pivotal flap which may be pivoted to expose a chute on which waste material may be deposited for disposal into the receptacle.

[0014] The closure is advantageously lockable to the receptacle in the closed position.

[0015] A specific embodiment of the present invention will now be described, by way of example only, with reference to the accompanying drawings in which:

Figure 1 is a side view of a waste bin according to the present invention with support shown;

Figure 2 is a side view of the waste bin of figure 1 shown in a closed configuration but without support shown;

Figure 3 is a sectioned view of figure 2;

Figure 4 is a sectioned side view of the waste bin shown in a position intermediate open and closed positions;

Figure 5 is a sectioned side view of the waste bin shown in a fully open configuration;

Figure 6 is a scrap sectioned view of the rear base of the bin taken along a longitudinal centre line;

Figure 7 is a scrap section view of the rear base of the bin taken to one side of the centre line; and

Figure 8 is a perspective exploded view of the waste bin of figures 2 to 5.

[0016] Referring now to the drawings, in figure 1 there is shown a waste bin 1 fixed to a ground-mounted upright post 2. The bin 1 could alternatively be mounted to

other structures such as a wall or other flat surface.

[0017] The waste bin 1 comprises a receptacle 3 having front, rear and side walls 4,5,6, a base 7 and a top opening 8 (hidden in figures 1 to 3) closeable by a lid 9. In figures 1, 2 and 3 the receptacle opening 8 is fully closed by the lid 9, whereas in figure 4 and 5 the receptacle 3 is respectively shown partially open and fully open. The lid 9 and receptacle 3 are mounted on the post 2 by means of a support bracket 10 that is fixed thereto.

[0018] The support bracket 10 has rear and side walls 11, 12 (seen clearly in figures 6 and 8) and is upturned at its bottom edge 13 to form a channel 14 in which a moulded overhang 15 of the receptacle 3 is received (best seen in figure 7). The upturned bottom edge 13 is inclined outwardly and upwardly from the upright. The rear wall 11 has a central longitudinal V-shaped ridge 16 along its length (see figure 8).

[0019] The rear wall 5 of the receptacle 3 is inwardly stepped and tapered towards the base and it is here that the overhang 15 is positioned. The moulded overhang is in two parts separated by a recess in which a retaining tongue 17 (of spring steel or the like) having an upturned free end 18 is received (see figure 6). The overhang 15 is releasably received in the channel 14 and moveable pivotally therein so as to permit pivotal movement of the receptacle 3 relative to the support bracket 10 and post 2. The retaining tongue 17 is fixed to the rear wall 5 of the receptacle 3 and its upturned end 18 is releasably engageable under the bottom of the V-shaped ridge 16.

[0020] The lid 9 is formed from a double-walled plastics moulding and comprises a top wall 19 with arcuate front and rear portions 20,21 integrally connected to depending front and rear walls 22,23, opposed side walls 24 and an underside wall 25 which has a recess 26 designed to receive an upper edge 27 of the receptacle 3 around the opening 8. A compressive seal (not shown) is provided in the recess 26 to seal the upper edge 27 of the receptacle opening 8 to the lid 9.

[0021] The top wall 19 of the lid 9 is inclined upwardly and rearwardly towards the support post 2 and is connected to an end of the support bracket 10 by means of an arcuate link 28 that extends across a significant part of the width of the lid 9. The arcuate link 28 is pivotally connected at one end to the support bracket 10 by means of pins 29 that pass through bores 30 in the side walls 12 of the support bracket 10 and corresponding bores 31 in the arcuate link 28. A recess 32 is provided in the arcuate rear portion 21 between the top and rear walls 19,23 of the lid 9 to receive the arcuate link 28 when the lid 9 is in the closed position as shown in figures 1 to 3. The end of the arcuate link 28 distal from the support bracket 10 is connected to the top wall 19 of the lid 9 by means of a rod 33 that passes through a bore 34 in the arcuate link 28, the ends of the rod 33 being received in bores 35 provided in side walls of the recess 32.

[0022] A bottom edge 36 of the rear wall 23 of the lid

9 is pivotally connected to a mounting bracket 37 on the rear wall 5 of the receptacle 3, just below the opening 8.

[0023] A central region of the top wall 19 of the lid 9 has a substantially rectangular opening 38 closed by a planar flap 39 that is pivotally mounted on pins 40 fitted to the rear of the rectangular opening 38. Depending approximately perpendicularly from a rear edge of the flap 39 is an chute plate 41. A front part of the flap 39 has finger plates 42 that extend at each side to assist in manual manipulation of the flap 39. The side walls 24 of the lid 9 are arcuately recessed, as indicated at 43, below each finger plate 42 to enable easy access to the flap 39.

[0024] The front wall 22 of the lid 9 is fitted with a key-operated barrel lock 44 or the like by which the lid 9 may be locked to the receptacle 3 in the closed position.

[0025] The receptacle 3 is connected to the mounting bracket 37 by means of quick-release fasteners 45 that pass through apertures 46 provided in both the mounting bracket 37 and the receptacle 3. By rotating the fasteners 45 relative to the receptacle through a quarter turn they are able to move clear of the apertures 46 in the mounting bracket thereby releasing the upper end of the receptacle 3. The bracket 37 moves away from the quick release fasteners 45 which are retained on the rear wall 23. Complete removal of the receptacle 3 is thereafter possible by deflecting the retaining tongue 17 out of engagement from the underside of the ridge 16 on the support bracket 10. Once the receptacle 3 is removed it may be cleaned easily and access is provided to the lid 9 and flap 39 for cleaning or removal purposes.

[0026] The front wall 4 of the receptacle may have a surface 47 to which a panel 48 bearing information, identification data or an advertisement is fitted.

[0027] When installed in a public area, the lid 9 remains locked to the receptacle 3 in the closed position shown in figures 1 to 3 so that the receptacle opening 8 is concealed and its edge 27 is sealed against the compressive seal in the recess 26 in the underside wall 25 of the lid 9. The receptacle 3 may be lined with a disposable sack (not shown) an open end of which is reversed over the edge 27 of the opening 8 of the receptacle 3 so that when the lid is closed the sack is trapped between the edge 27 and the seal thereby preventing it from being dragged fully into the receptacle 3 under the weight of its contents. This sealing arrangement prevents the escape of unpleasant odours from the sack when the lid is closed and conceals the top edge of the sack from view when the lid 9 is closed.

[0028] Public access to the receptacle is provided by the flap 39 which is pivoted to an open position (as shown in dotted line in figure 2) by lifting the finger plates 42 so as to expose the chute 41. Waste matter (e.g. dog excrement) for disposal is deposited on the chute 41 causing the flap 39 to pivot back to its closed position under the weight of the deposited matter, thereby depositing the waste matter into the lined receptacle 3.

[0029] The receptacle 3 is periodically emptied by an authorised person who carries a key to the lock 44.

When the lid 9 is unlocked and lifted to the open position shown in figure 5, the receptacle 3 pivots about the bottom end of the rear wall 5 (as will be described below) so that clear access is provided to the receptacle opening 8. The lining sack may be removed for disposal and replaced with a fresh sack. Since the top end of the sack is covered by the lid 9 there is a sterile area of the sack by which it can be readily grasped. If necessary, the receptacle 3 can be released and removed from the support bracket 10 to permit cleaning of the component parts of the bin 1, as described above.

[0030] Once unlocked the bin 1 is opened by lifting the front wall 22 of the lid 9. This movement initially forces the arcuate link 28 to pivot about pins 29 relative to the support bracket 10 so that the end of the arcuate link 28 connected to the top wall of the lid 9 moves upwardly with the lid. Upward movement of front end of the lid 9 causes its rear wall 23 to move clear of the support bracket 10 (as shown in figure 4) and since it is pivotally connected to the mounting bracket 37 at the rear of the receptacle 3 the latter is forced to pivot about the moulded overhang/channel connection 14/15 at the bottom of its rear wall 5 so as to further expose the receptacle opening 8. At a certain point of inclination of the lid 9, when the arcuate link 28 has reached its limit of upward travel, it begins to pivot relative to the arcuate link 28 about the rod 33. This causes the arcuate link 28 to move over-centre so that it pivots downwardly about the pins 29 connected to the support bracket 10 and assists in further upward movement of the lid 9 and therefore farther pivoting of the receptacle 3. By virtue of the over-centre action a substantial mechanical advantage is achieved in opening the lid 9. During this opening action the receptacle 3 and its contents effectively act as a counterweight so that the lid moves to the fully open configuration (see figure 5) without great effort from the person emptying the bin.

[0031] In the fully open configuration the lid 9 is clear of the receptacle opening 8 so as to facilitate removal of the disposal sack without interference from the bin structure. The bin 1 is stable in this configuration and the underside of the lid or the chute are fully exposed to permit cleaning.

Claims

1. A waste container (1) comprising an upright receptacle (3) pivotally mounted on a support (2) and having a closure (9) pivotally associated therewith, the closure (9) being pivotal relative to an opening (8) of the receptacle (3) between open and closed positions, pivotal movement of the closure (9) to the open position causing pivotal movement of the receptacle (3) relative to the support (2) to a position inclined to the upright, and a linkage (28) provided between the closure (9) and the receptacle (3) to permit movement of the closure (9) with mechanical

advantage, **characterised in that** the linkage (28) comprises a link member (28) that is pivotally connected at one end to the support (2) and pivotally connected at the other end to the closure (9), and **in that** a rear wall (23) of the closure (9) is pivotally connected to a rear wall (5) of the receptacle (3).

2. A waste container according to claim 1, wherein in the closed position the linkage (28) is unextended and the link member (28) overlies the closure (9).

3. A waste container according to claim 2, wherein the link member (28) is received in a recess (32) in the closure (9) in the closed position.

4. A waste container according to claim 2 or 3, wherein in the open position the linkage (28) is extended with the link member (28) and the rear wall (23) of the closure (9) spanning a clearance between an upper end of the receptacle (3) and the upper end of the support (2), the clearance being present by virtue of the inclination of the receptacle (3) to the upright.

5. A waste container according to any one of claims 1 to 4, wherein the link member (28) is connected to a top wall (19) of the closure (9) at a position adjacent the rear wall (23) of the closure (9).

6. A waste container according to any one of claims 1 to 5, wherein the receptacle (3) acts as a counterweight to the closure (9) during movement of the closure (9) between the closed and open positions.

7. A waste container according to any preceding claim, wherein the closure (9) is sealed around the opening (8) of the receptacle (3) in the closed position.

8. A waste container according to claim 7, wherein the closure (9) is recessed (26) to receive an edge (27) of the receptacle (3) around the opening (8).

9. A waste container according to claim 8, wherein a seal is provided in the recess (26).

10. A waste container according to any one of claims 7 to 9, wherein the receptacle (3) is lined with a sack an upper end of which is clamped between the closure (9) and the receptacle (3) when the closure (9) is in the closed position.

11. A waste container according to any preceding claim wherein the receptacle (3) is removable from the support (2) and the closure (9).

12. A waste container according to claim 11, wherein there is provided a quick-release connection (45)

between the receptacle (3) and the closure (9).

13. A waste container according to claim 11 or 12, wherein the receptacle (3) has a projecting member (17) that engages with the support (2) to prevent removal until disengaged with a release key. 5
14. A waste container according to any preceding claim, wherein the closure (9) has a disposal aperture (38) closeable with a pivotal flap (39). 10
15. A waste container according to claim 14, wherein the flap (39) may be pivoted to expose a chute (41) on which waste material may be deposited for disposal into the receptacle (3). 15
16. A waste container according to any preceding claim, wherein the closure (9) is lockable to the receptacle (3) in the closed position. 20

Patentansprüche

1. Abfallbehälter (1) mit einem aufrechten Aufnahmebehälter (3), der drehbar an einem Träger (2) montiert ist und einen drehbar damit verbundenen Verschlussdeckel (9) aufweist, wobei der Verschlussdeckel (9) relativ zu einer Öffnung (8) des Aufnahmebehälters (3) zwischen einer geöffneten und einer geschlossenen Positionen drehbar ist, wobei die Drehbewegung des Verschlussdeckels (9) in die geöffnete Position eine Drehbewegung des Aufnahmebehälters (3) relativ zu dem Träger (2) in eine solche Position verursacht, welche in Bezug auf die aufrechte Stellung geneigt ist und wobei eine Verbindung (28) zwischen dem Verschlussdeckel (9) und dem Aufnahmebehälter (3) vorgesehen ist, um die Bewegung des Verschlussdeckels (9) mit einer mechanischen Überhöhung zu ermöglichen, **dadurch gekennzeichnet, dass** die Verbindung (28) ein Verbindungsglied (28) aufweist, das an einem Ende drehbar mit dem Träger (2) verbunden ist und das an dem anderen Ende drehbar mit dem Verschlussdeckel (9) verbunden ist, und dass eine Rückwand (23) des Verschlussdeckels (9) drehbar mit einer Rückwand (5) des Aufnahmebehälters (3) verbunden ist. 25 30 35 40 45
2. Abfallbehälter gemäss Anspruch 1, bei welchem in der geschlossenen Position die Verbindung (28) nicht verlängert ist und das Verbindungsglied (28) den Verschlussdeckel (9) überlagert. 50
3. Abfallbehälter gemäss Anspruch 2, bei welchem das Verbindungsglied (28) in der geschlossenen Position in einer Vertiefung (32) in dem Verschlussdeckel (9) aufgenommen wird. 55
4. Abfallbehälter gemäss Anspruch 2 oder 3, bei welchem die Verbindung (28) mit dem Verbindungsglied (28) und der Rückwand (23) des Verschlussdeckels (9) in der geöffneten Position verlängert ist und dabei ein Zwischenraum zwischen einem oberen Ende des Aufnahmebehälters (3) und dem oberen Ende des Trägers (2) überspannt wird, wobei der Zwischenraum auf Grund der Neigung des Aufnahmebehälters (3) gegenüber der aufrechten Stellung vorhanden ist.
5. Abfallbehälter gemäss irgendeinem der Ansprüche 1 bis 4, bei welchem das Verbindungsglied (28) mit einer Oberwand (19) des Verschlussdeckels (9) in einer Position in der Nähe der Rückwand (23) des Verschlussdeckels (9) verbunden ist.
6. Abfallbehälter gemäss irgendeinem der Ansprüche 1 bis 5, bei welchem der Aufnahmebehälter (3) als ein Gegengewicht zu dem Verschlussdeckel (9) wirkt während der Bewegung des Verschlussdeckels (9) zwischen der geöffneten und der geschlossenen Position.
7. Abfallbehälter gemäss irgendeinem vorangegangenen Anspruch, bei welchem der Verschlussdeckel (9) um die Öffnung (8) des Aufnahmebehälters (3) herum in der geschlossenen Position abgedichtet ist. 25 30
8. Abfallbehälter gemäss Anspruch 7, bei welchem der Verschlussdeckel (9) eine Vertiefung (26) aufweist, um einen Rand (27) des Aufnahmebehälters (3) um die Öffnung (8) herum aufzunehmen. 35
9. Abfallbehälter gemäss Anspruch 8, bei welchem eine Dichtung in der Vertiefung (26) vorgesehen ist.
10. Abfallbehälter gemäss irgendeinem der Ansprüche 7 bis 9, bei welchem der Aufnahmebehälter (3) mit einem Sack ausgelegt ist, von dem ein oberes Ende zwischen dem Verschlussdeckel (9) und dem Aufnahmebehälter (3) festgeklemmt ist, wenn der Verschlussdeckel (9) sich in der geschlossenen Position befindet. 40 45
11. Abfallbehälter gemäss irgendeinem vorangegangenen Anspruch, bei welchem der Aufnahmebehälter (3) von dem Träger (2) und von dem Verschlussdeckel (9) entfernbar ist.
12. Abfallbehälter gemäss Anspruch 11, bei welchem eine schnell lösbare Verbindung (45) zwischen dem Aufnahmebehälter (3) und dem Verschlussdeckel (9) vorgesehen ist.
13. Abfallbehälter gemäss Anspruch 11 oder 12, bei welchem der Aufnahmebehälter (3) ein vorsprin-

gendes Element (17) aufweist, das mit dem Träger (2) im Eingriff steht, um ein Entfernen zu verhindern bis ein Loslösen des Eingriffs mit einer Freigabeta-
ste erfolgt.

14. Abfallbehälter gemäß irgendeinem vorangegan-
genen Anspruch, bei welchem der Verschlussdek-
kel (9) über eine Abfallöffnung (38) verfügt, die mit
einer drehbaren Klappe (39) geschlossen werden
kann.
15. Abfallbehälter gemäß Anspruch 14, bei welchem
die Klappe (39) drehbar sein kann, um eine Rutsche
(41) frei zu legen, auf welche das Abfallmaterial ab-
gelegt werden kann, um in den Aufnahmebehälter
(3) beseitigt zu werden.
16. Abfallbehälter gemäß irgendeinem vorangegan-
genen Anspruch, bei welchem der Verschlussdek-
kel (9) in der geschlossenen Position mit dem Auf-
nahmebehälter (3) verriegelt werden kann.

Revendications

1. Conteneur de déchets (1) comprenant un récipient
vertical (3) monté par pivotement sur un support (2)
et comportant un couvercle (9) qui y est associé par
pivotement, le couvercle (9) pouvant pivoter par
rapport à une ouverture (8) du récipient (3) entre
des positions ouverte et fermée, le déplacement par
pivotement du couvercle (9) vers la position ouverte
entraînant le déplacement par pivotement du réci-
pient (3) par rapport au support (2) vers une position
inclinée par rapport à la verticale, un moyen de
liaison (28) agencé entre le couvercle (9) et le réci-
pient (3) pour permettre le déplacement mécanique
avantageux du couvercle (9), **caractérisé en ce
que** le moyen de liaison (28) comprend un élément
de liaison (28) raccordé par pivotement au niveau
d'une extrémité au support (2) et raccordé par pivo-
tement au niveau de l'autre extrémité au couvercle
(9), et **en ce qu'**une paroi arrière (29) du couvercle
(9) est raccordée par pivotement à une paroi arrière
(5) du récipient (3).
2. Conteneur de déchets selon la revendication 1,
dans lequel le moyen de liaison (28) n'est pas dé-
tendu dans la position fermée, l'élément de liaison
(28) étant superposé au couvercle (9).
3. Conteneur de déchets selon la revendication 2,
dans lequel l'élément de liaison (28) est reçu dans
un évidement (32) dans le couvercle (9) dans la po-
sition fermée.
4. Conteneur de déchets selon les revendications 2
ou 3, dans lequel le moyen de liaison (28) est éten-

du dans la position ouverte, l'élément de liaison (28)
et la paroi arrière (23) du couvercle (29) enjambant
un dégagement entre une extrémité supérieure du
récipient (3) et l'extrémité supérieure du support (2),
le dégagement étant établi par l'inclinaison du réci-
pient (3) par rapport à la verticale.

5. Conteneur de déchets selon l'une quelconque des
revendications 1 à 4, dans lequel l'élément de
liaison (28) est raccordé à une paroi supérieure (19)
du couvercle (9) au niveau d'une position adjacente
à la paroi arrière (23) du couvercle (9).
6. Conteneur de déchets selon l'une quelconque des
revendications 1 à 5, dans lequel le récipient (3) fait
fonction de contre-poids par rapport au couvercle
(9) au cours du déplacement du couvercle (9) entre
les positions fermée et ouverte.
7. Conteneur de déchets selon l'une quelconque des
revendications précédentes, dans lequel le couver-
cle (9) est scellé autour de l'ouverture (8) du réci-
pient (3) dans la position fermée.
8. Conteneur de déchets selon la revendication 7,
dans lequel le couvercle (9) comporte un évidement
(26) pour recevoir un bord (27) du récipient (3)
autour de l'ouverture (8).
9. Conteneur de déchets selon la revendication 8,
dans lequel un joint est agencé dans l'évidement
(26).
10. Conteneur de déchets selon l'une quelconque des
revendications 7 à 9, dans lequel le récipient (3) est
revêtu d'un sac, dont une extrémité supérieure est
serrée entre le couvercle (9) et le récipient (3) lors-
que le couvercle (9) se trouve dans la position fer-
mée.
11. Conteneur de déchets selon l'une quelconque des
revendications précédentes, dans lequel le réci-
pient (3) peut être enlevé du support (2) et du cou-
vercle (9).
12. Conteneur de déchets selon la revendication 11,
comportant un raccordement à dégagement rapide
(45) entre le récipient (3) et le couvercle (9).
13. Conteneur de déchets selon les revendications 11
ou 12, dans lequel le récipient (3) comporte un élé-
ment en saillie (17) s'engageant dans le support (2)
pour empêcher l'enlèvement avant le dégagement
par une clé de dégagement.
14. Conteneur de déchets selon l'une quelconque des
revendications précédentes, dans lequel le couver-
cle (9) comporte une ouverture d'évacuation (38)

pouvant être fermée par un volet rabattable (39).

15. Conteneur de déchets selon la revendication 14, dans lequel le volet rabattable (39) peut être pivoté pour exposer une goulotte (41) sur laquelle peuvent être déposés les déchets en vue d'une évacuation dans le récipient (3). 5
16. Conteneur de déchets selon l'une quelconque des revendications précédentes, dans lequel le couvercle (9) peut être verrouillé sur le récipient (3) dans la position fermée. 10

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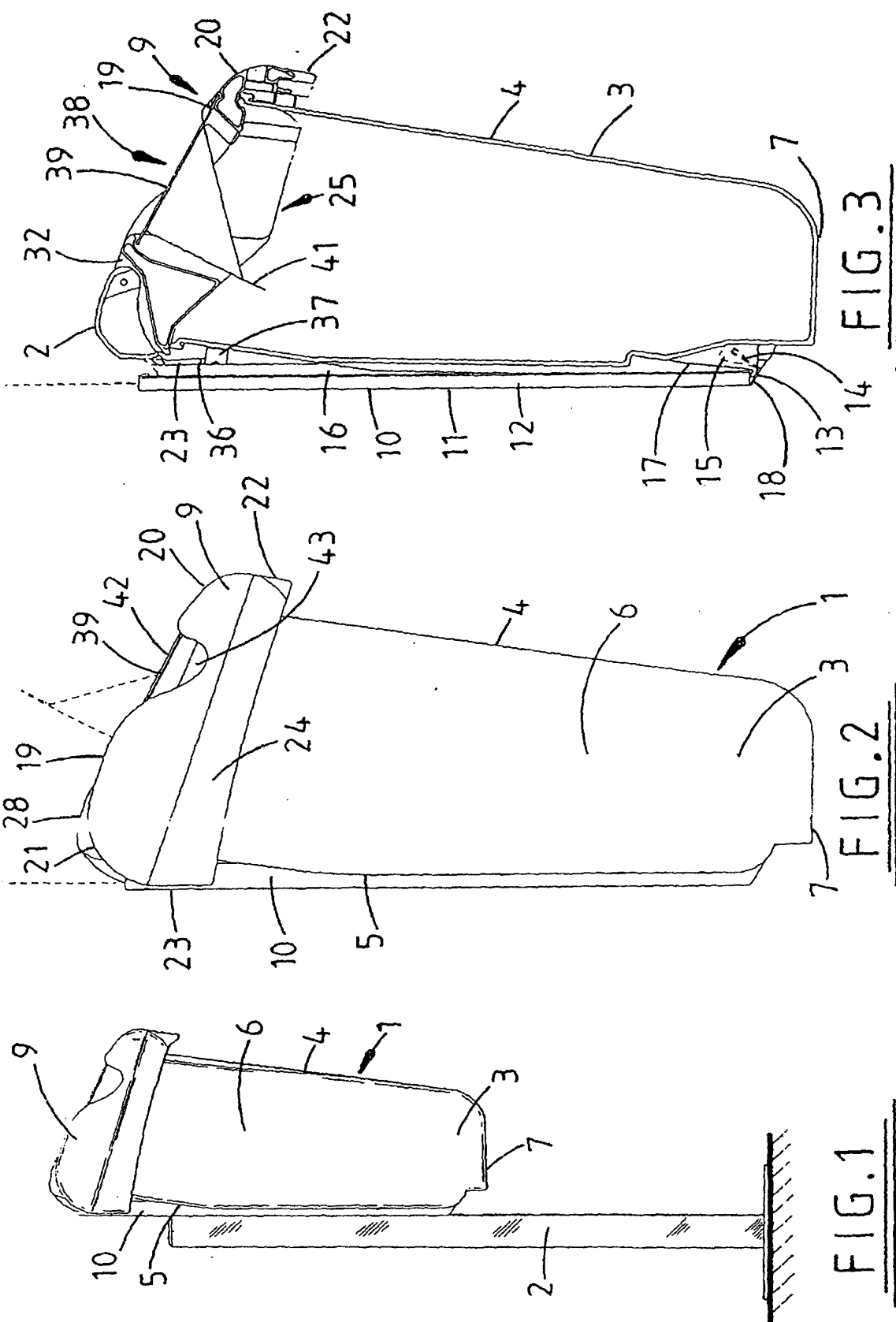
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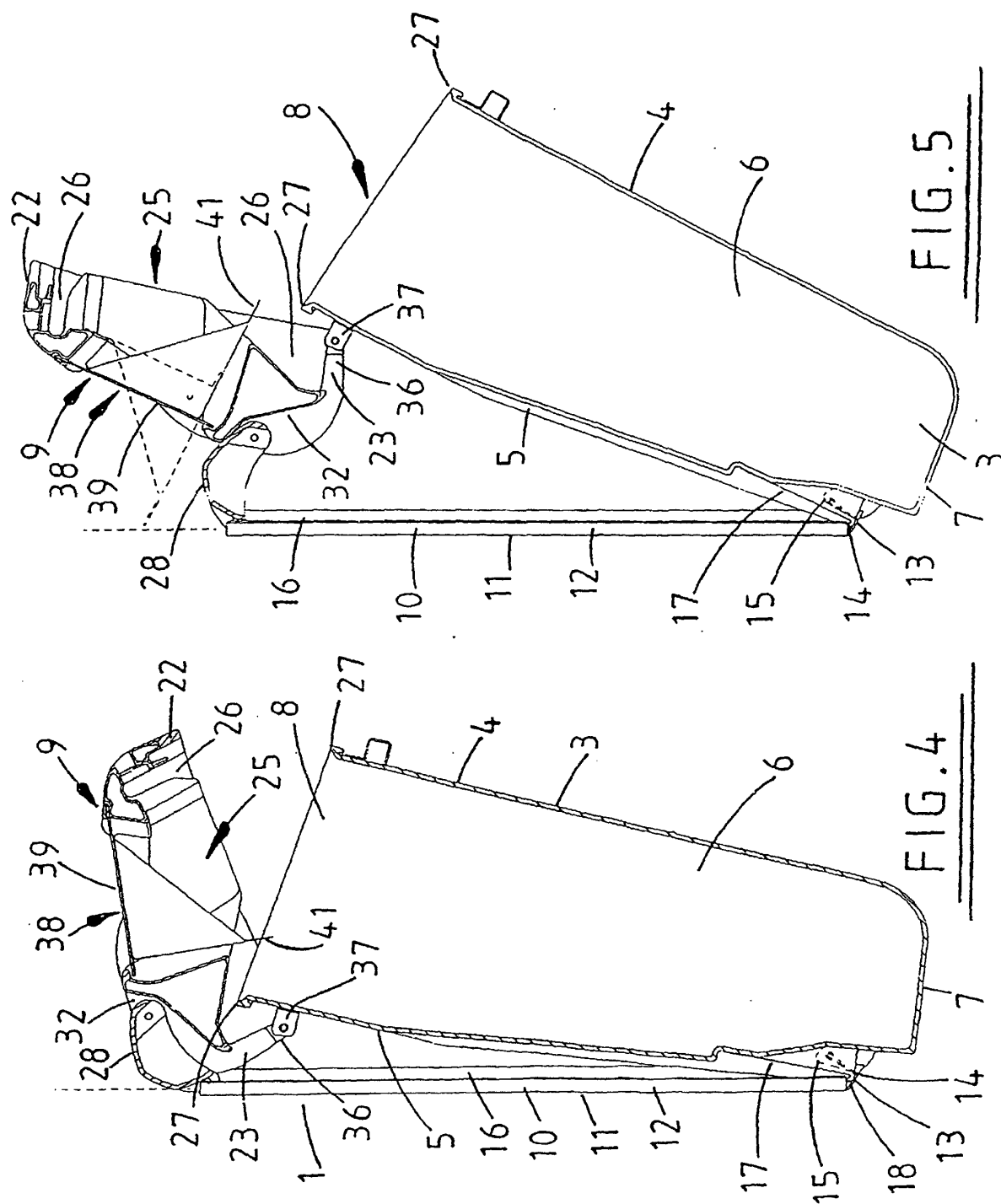
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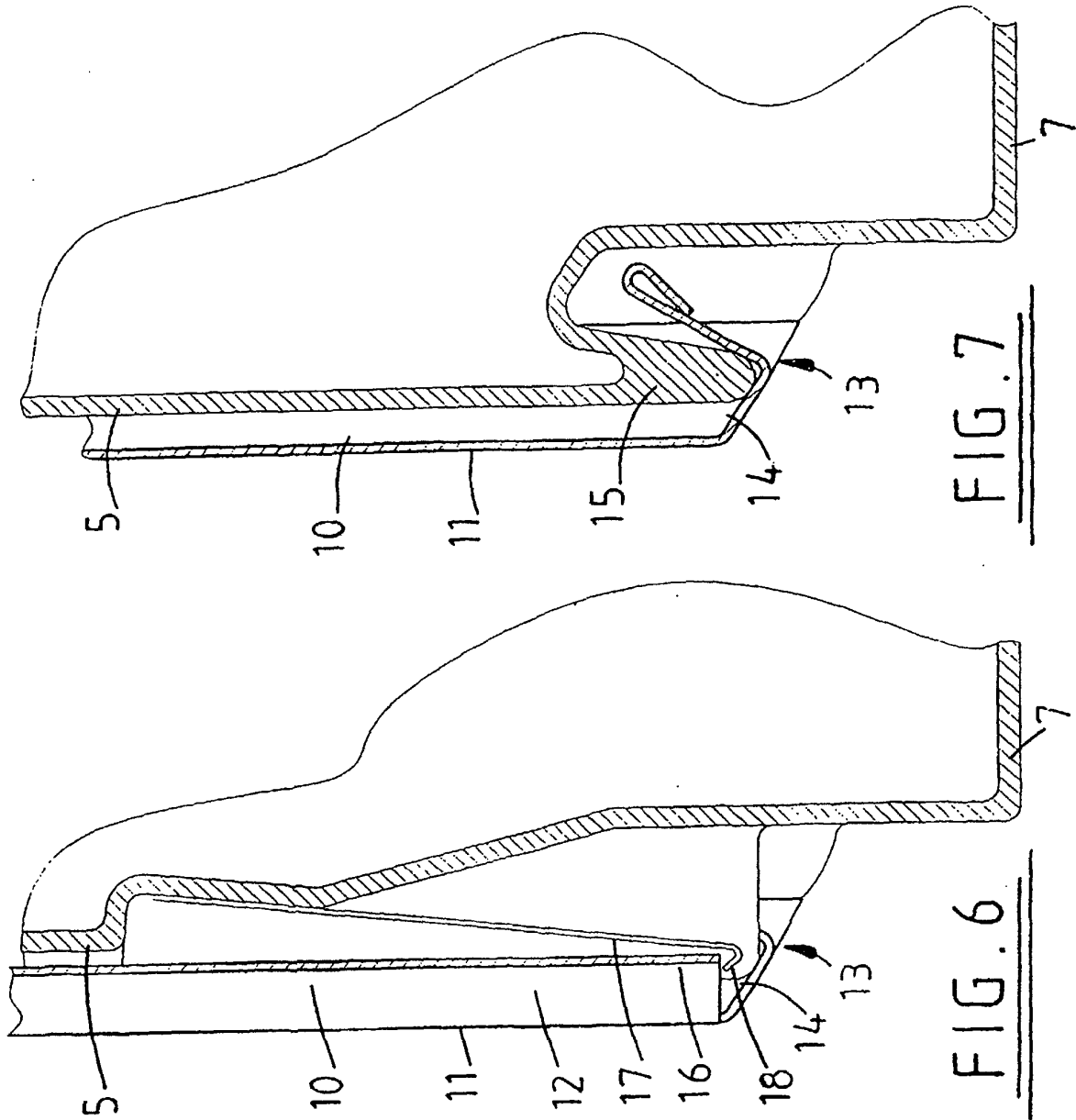
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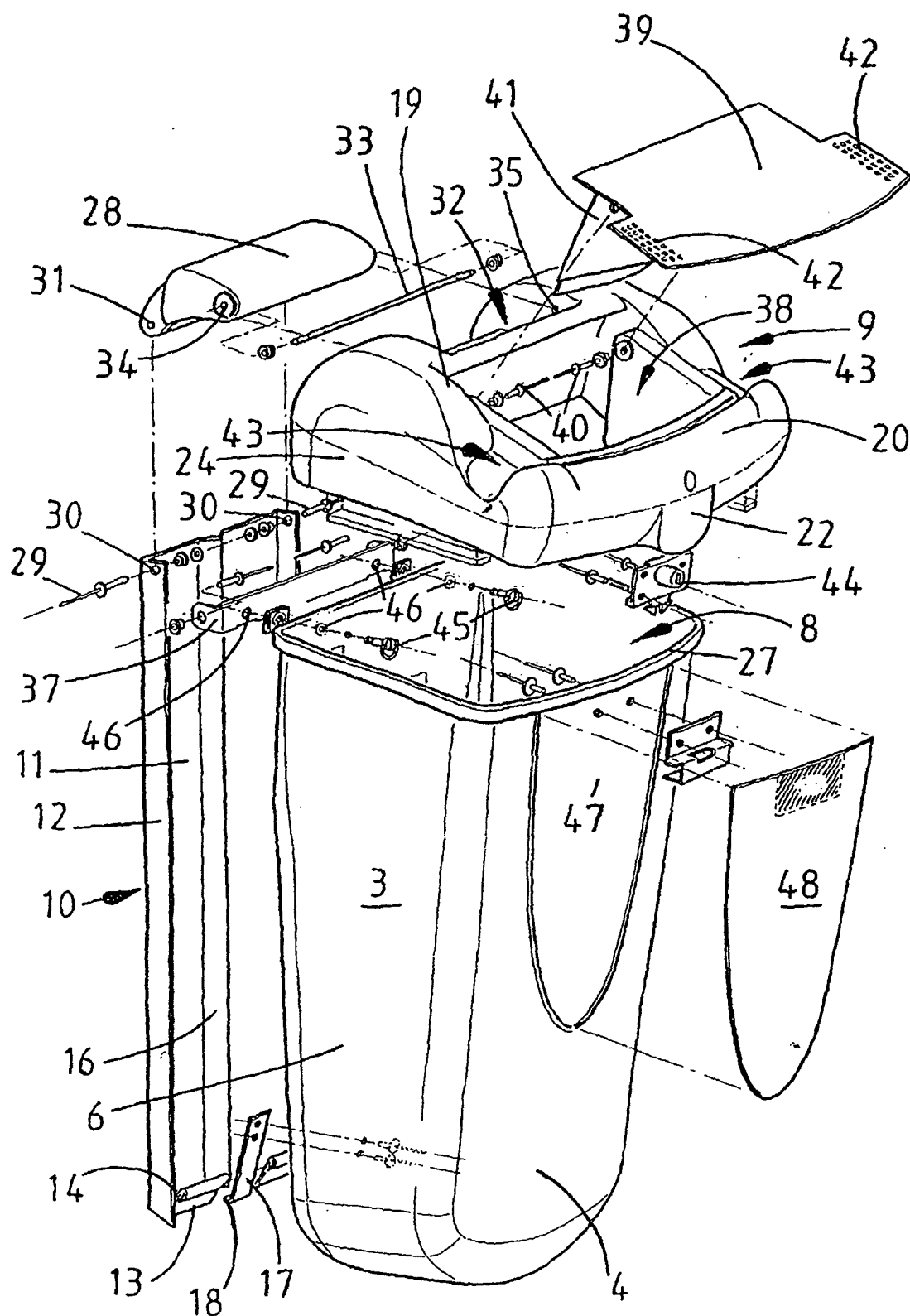


FIG. 8