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(54) **Sorting unit for domestic wastes**

(57) A sorting unit for domestic wastes that holds a container (3) that has a slope (7), with separating partitions (8) that lead to the inside, which also has compart-

ments formed by vertical partitions (6). The unit can be moved outwards due to the connecting rod (12) that has an axis of rotation (14). A format is available without compartments.

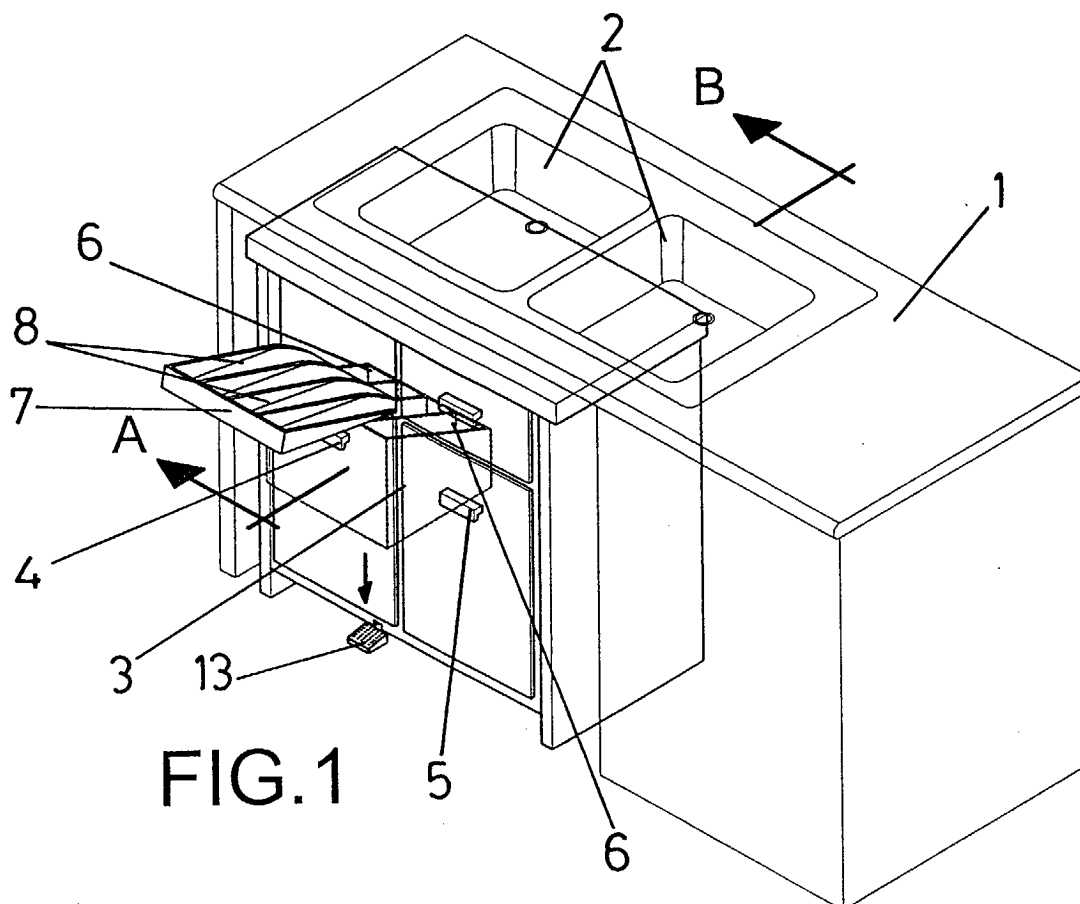


FIG.1

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Description

OBJECT OF THE INVENTION

[0001] This specification refers to a Utility Model application, associated to a sorting unit for domestic wastes, whose purpose is based on being a unit that can be fitted inside a unit that is under the kitchen sink unit, which consists of a container for wastes that are deposited through an opening, or it can have the form of a slope that leads to the different compartments inside the main bin.

[0002] The invention can consist of a main unit that has five compartments with an access area, where the wastes are deposited, and the container itself can be moved in different ways to facilitate its removal.

FIELD OF THE INVENTION

[0003] The field of application for this invention is within the industrial sector that focuses on the manufacture of units, especially kitchen and similar units.

BACKGROUND OF THE INVENTION

[0004] The applicant is aware that currently there are numerous bins or containers that have inner compartments that enable the direct sorting of wastes inside the bin.

[0005] Likewise, the applicant is aware that units exist that can be fitted to kitchen units that enable wastes to be suitably deposited and sorted, either because they have waste disposal units or similar elements that subsequently generate the evacuation of the contents in a different way, such as, for example, eliminating liquids, reducing the volume of metal objects and even crushing glass and plastic items.

[0006] However the applicant is not aware that at present a sorting unit for domestic wastes exists, that can be fitted to the lower part of a traditional kitchen unit, more specifically under the sink, that has suitable characteristics to sort wastes.

DESCRIPTION OF THE INVENTION

[0007] The sorting unit for domestic wastes proposed by the invention, is itself an apparent innovation, as due to its characteristics, it can be fitted inside a kitchen unit under the sink unit. It does not require additional space and it offers a way to sort wastes and to remove the actual waste bin.

[0008] More specifically, the sorting unit for domestic wastes consists of a part that can be manufactured in any material that is esteemed suitable, such as chip-board, wood, etc., with a lacquered or veneered external surface, with the corresponding handles and even with imitation drawers. The areas that access the inside are made up of grooves that have a removable tray with in-

ner channels in which the wastes are deposited, these channels connect to the corresponding area in the waste bin inside, and the bin can be removed by operating a pedal or by pulling on a handle or similar object, that is positioned on the part that holds the bin.

[0009] Likewise, the invention can have only one single groove or opening that accesses the inside of the waste bin, and this can even be positioned on an element that moves the container outwards.

[0010] Similarly, we ought to point out that the invention can be a bin without compartments, that has a part on the outside of the unit that holds the bin, which can be moved until it is positioned diagonally, thus making the opening through which the wastes are deposited into the container inside.

[0011] The invention can have a connecting rod that is activated by a pedal, that moves the bin outwards.

[0012] This means that the part is moved directly outwards by the user, making an opening or entrance for the wastes, that has sorting or non-sorting areas.

DESCRIPTION OF THE DRAWINGS

[0013] To complement this description and with a view to help to better understand the characteristics of this invention, an integral part of the specifications include a set of drawings, that are provided for illustration purposes, but are not limiting, and they show the following:

Figure number 1.- Shows a perspective view of the object of the invention, a sorting unit for domestic wastes, fitted to the inside of a traditional kitchen unit.

Figure number 2.- Represents a similar invention to that shown in figure number 1, but it doesn't include the removable part that acts as a direct entry vehicle to deposit the wastes into the compartmental bin.

Figure number 3.- Shows a view of the invention fitted with a front piece that enables the collector container to be removed.

Figure number 4.- Corresponds to a view of the invention, with a bin without inner compartments, it has a closing element that acts as an entry slope and an opening that leads into the bin itself.

Figure number 5.- Corresponds to an A-B view of the object shown in figure number 1.

Figure number 6.- Shows a view of the object shown in figure number 5 with the access hatch open.

Figure number 7.- Shows a C-D view of the object shown in figure number 3.

Figure number 8.- Represents a view of the object

shown in figure number 7 with the access hatch open.

Figure number 9.- Corresponds to a view of the invention with the collector bin moved outwards with the access hatch closed.

PREFERRED REALISATION MODE FOR THE INVENTION

[0014] Looking at the drawings we can see how the sorting unit for domestic wastes is designed to be fitted inside a traditional kitchen unit (1) under the sink unit, (2) the part has imitation doors (5) fitted with handles (4) and inside there is a container (3), as shown in figure number 1, that has a removable tray (7) with channels (8) that coincide with the channels inside (6) the collector bin (7). There is a pedal (13) which when activated moves the bin outwards, so that it can be removed.

[0015] The invention can include a transversal opening (6) with a handle to pull on (4), instead of the slope or tray (7), that leads to the compartments (6) in the waste collector bin (3).

[0016] In figure number 3 you can see how the invention can be fitted with the means (12) to move the waste collector bin, operated by the pedal (13).

[0017] In figure number 4 you can see how the sorting unit can be a container (10) without compartments, there is a door (11) on the front, that coincides with the collector bin (10), that has a retaining device that tilts when the pedal is operated (13), so that the wastes can be deposited inside the collector container or bin.

[0018] In figures 5 and 6 you can see how the invention in the format of a waste collector fitted inside the sorting unit, has a connecting rod (12) attached to an axle (14) with an upper part (15) that, when operated (13), brings about the opening of the access part or slope (7) that connects to inside the waste container (3). In figure number 5 you can see how the access door or slope (7) is closed, positioning itself vertically and in figure number 6, when the pedal is operated (13), you can see how the access door or slope (7) tilts so that the user has access to the bin (3).

[0019] In figures 7, 8 and 9, you can see how the connecting rods previously described have been substituted, and there is a mechanical element (16) made up of a cylindrical component with cables attached (17) so that, when the pedal is operated, the access door or slope opens (7), and the user has access to the bin (10) and can even move the bin at a sloping angle in order to remove the contents.

handles (4), is characteristic as it has a bin inside (3) that on the outside has a slope (7) fitted with separating partitions (8) that connect to inside the bin (3), that also has compartments formed by vertical partitions (6). The access slope (7) can be substituted by a transversal opening (9) and there is an operating pedal (13) that is situated on the outside front.

2. The sorting unit for domestic wastes, according to the first claim, is characteristic because the bin (3) can be moved outwards by a connecting rod (12) that has an axis of rotation (14) and is joined to a part (15) that operates the access door (7), that has inner compartments.

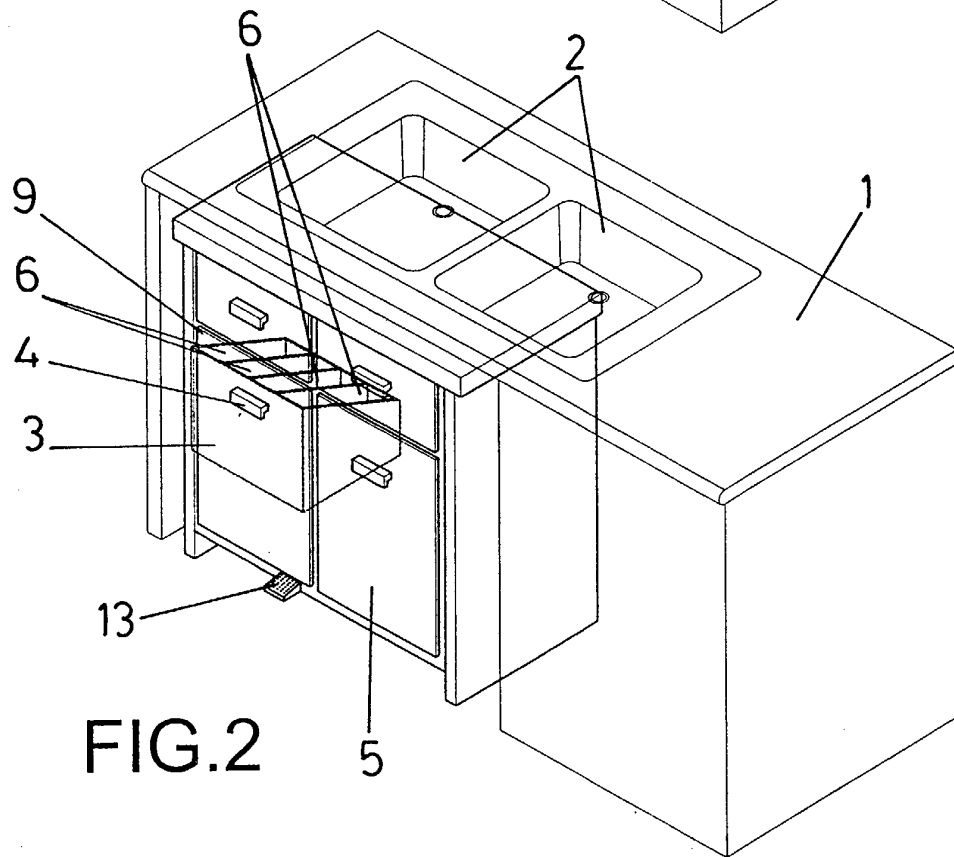
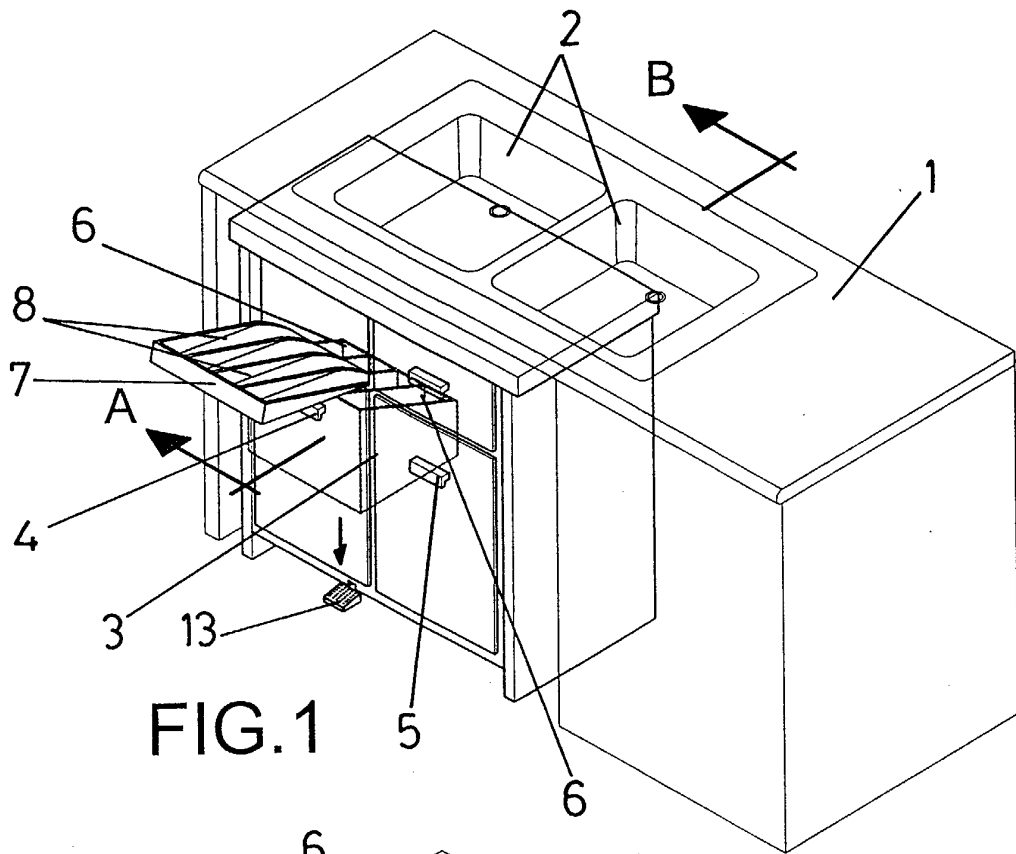
3. The sorting unit for domestic wastes, according to the previous claims, is characteristic because the waste bin (3) can be substituted by a waste bin without compartments, and on the upper front area the sorting unit has an access slope (11) with a retention device, that holds it in the sloping position.

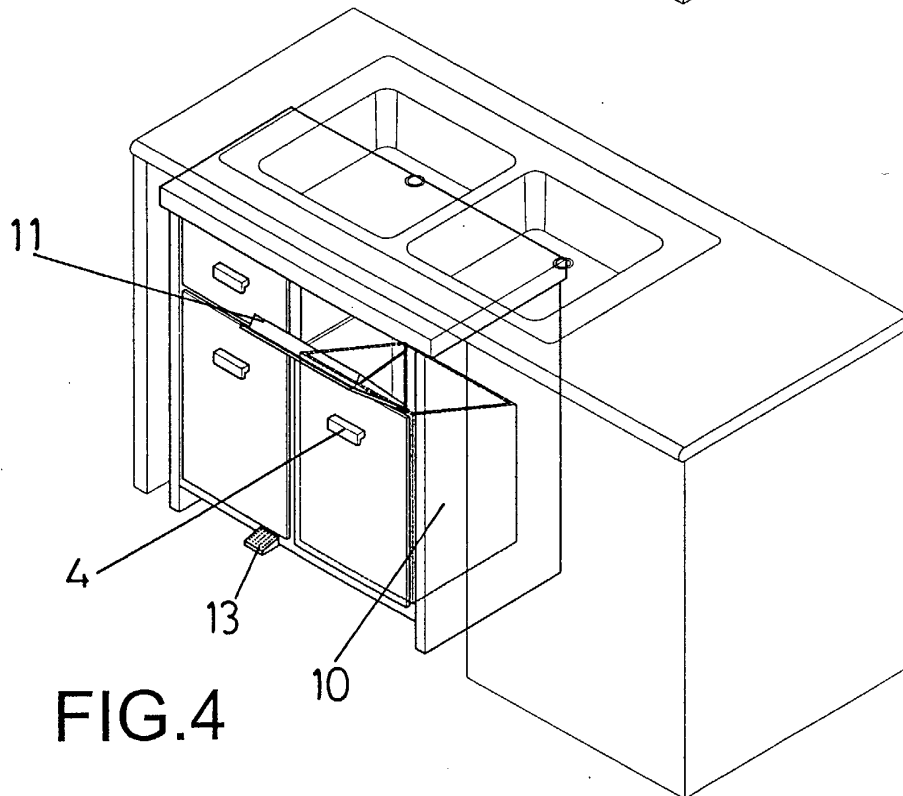
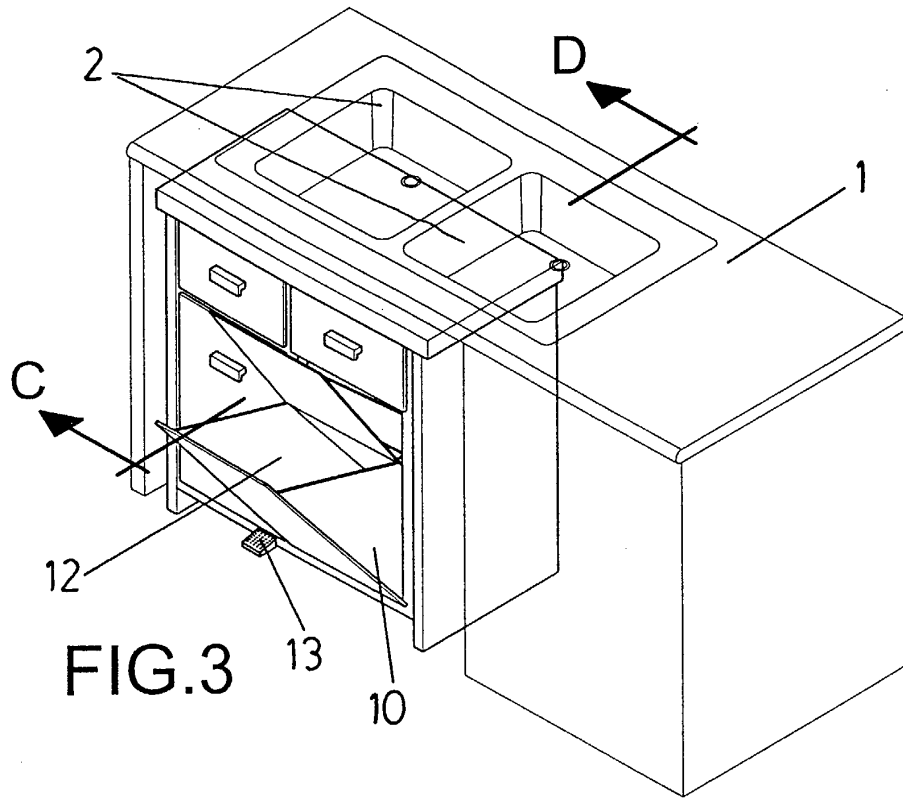
4. The sorting unit for domestic wastes, according to the previous claims, has characteristic features because the access slope or door (7) that connects to the bin (10) can be moved by a circular component (16) which has a cable attached (17) that moves the access door (7), as well as the waste bin (10), until it reaches an outward sloping position.

Claims

1. The sorting unit for domestic wastes, to be fitted inside a conventional kitchen unit (1), under a sink unit (2) fitted with imitation doors and drawers with

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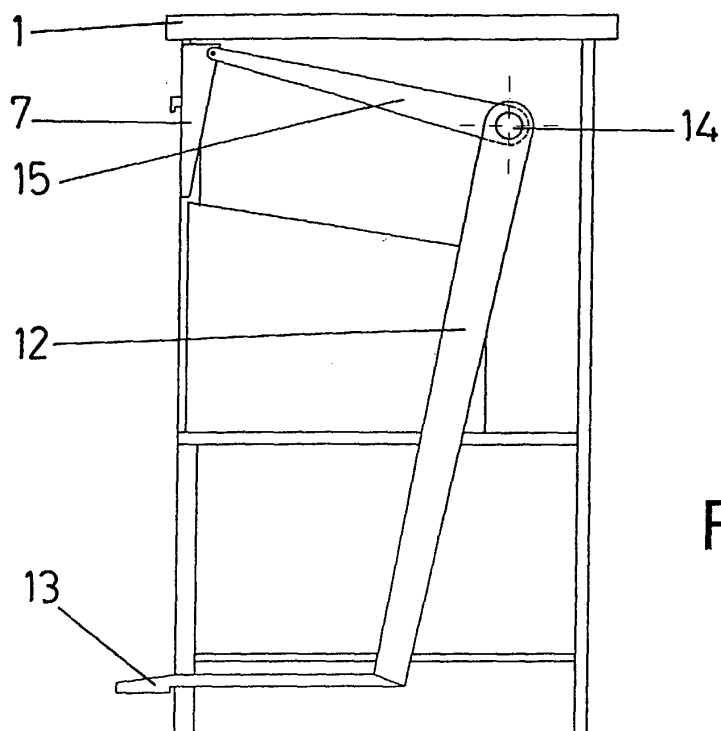


FIG. 5
A-B

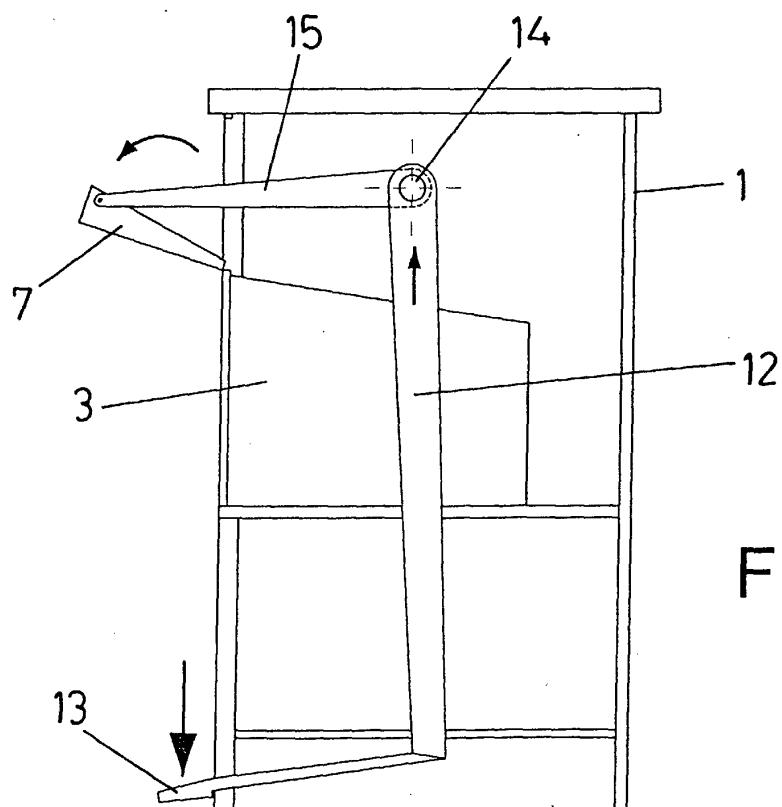


FIG. 6

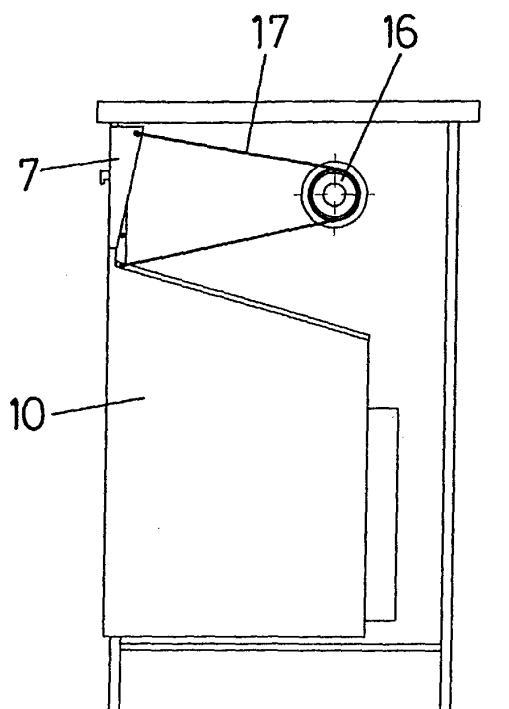


FIG. 7
C-D

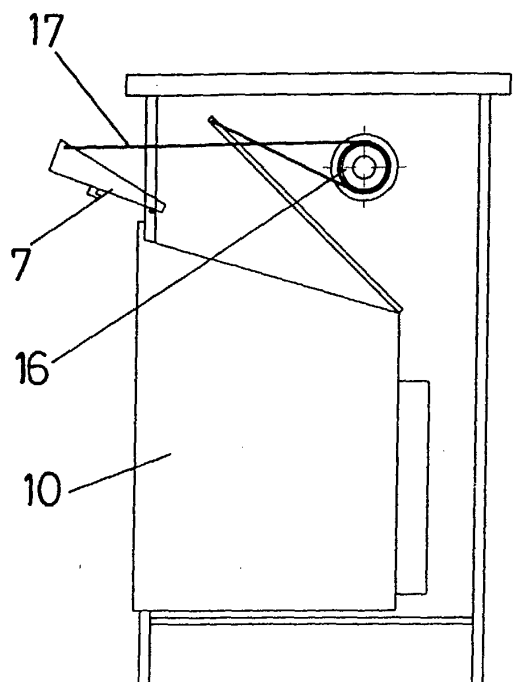


FIG. 8

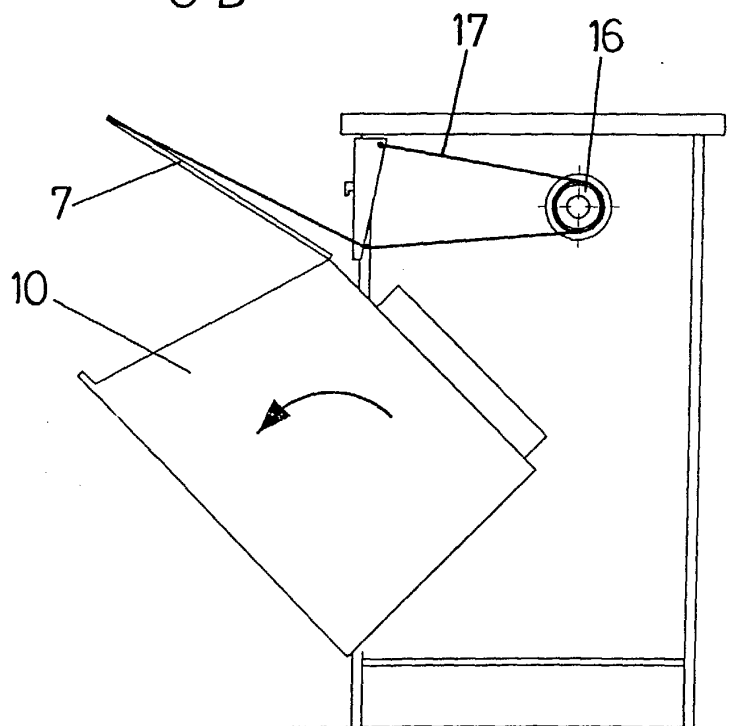


FIG. 9



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EUROPEAN SEARCH REPORT

Application Number
EP 03 38 0075

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 22 September 2003	Examiner Smolders, R
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			

EPO FORM 1503 03 B2 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 03 38 0075

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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22-09-2003

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