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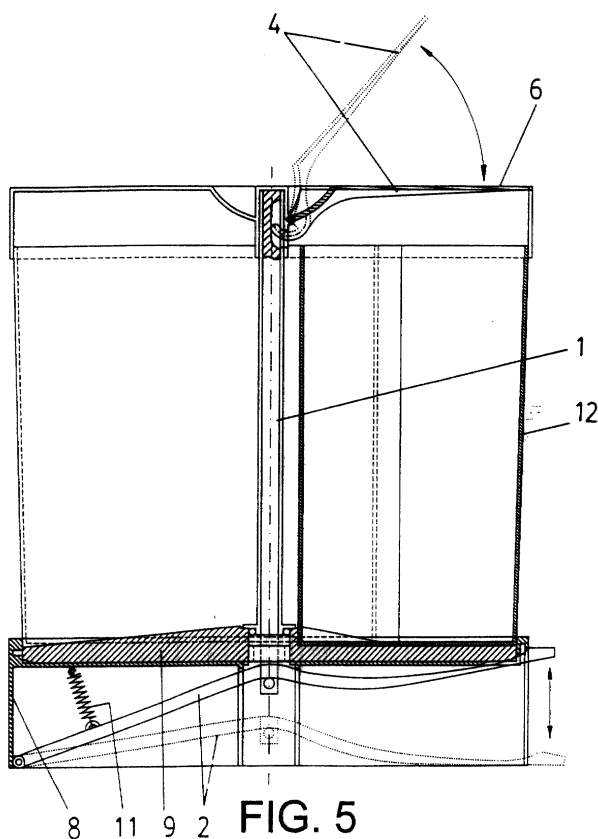
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(54) **Compartmented receptacle for solid waste**

(57) The compartmented receptacle comprises a cylindrical body (12) supported on a rotatable base (9) which in turn is supported on a lower base (8). In this lower base (8) a springloaded (11) pedal (12) is mounted which acts upon a vertical rod (1) located in the center of the cylindrical body (12). The upper part of this vertical rod (1) comprises an elongated opening in which a

tongue-like portion of a triangular shaped lid (4) is located. The lid (4) is hinged to a cover (6) which is mounted on top of the vertical rod (1). When the pedal (12) is actuated in a downwards direction, the downward movement of the upper part of the vertical rod (1) causes the lid (4) to pivot about its hinge from a closed to an open position.



EP 1 147 998 A1

Description

OBJECT OF THE INVENTION

[0001] The present descriptive memory refers to Model's of Utility application, relative to a recipient sophisticated compartment for solid residuals whose utility resides in being configured as three adjacent hollow volumes able to receive solid residuals, presenting a tip-up lorry cover operated by means of a pedal and that it adopts a cylindrical general configuration.

[0002] The invention is designed for receive solid residuals of three different types, allowing to contain them with its similar to allow a later recycled, having one only entry that presents the previously mentioned covers tip-up lorry, having the group the possibility of rotating the compartments according to the axis of radial symmetry of the group to allow to prepare-each one of the. compartments mentioned under the unique cover.

FIELD OF THE INVENTION

[0003] This invention has its application inside the industry dedicated to the production of elements, devices and applicable systems to the collection, storage and classification of solid residuals, more concretely, inside the industry dedicated to the production of domestic recipients for urban solid residuals.

ANTECEDENTS OF THE INVENTION

[0004] It is of common knowledge the existence of a plurality of recipients dedicated to the domestic collection of urban solid residuals, conventionally constituted starting from cylindrical or prismatic bodies, holes and endowed with a cover and handles that allow their transport.

[0005] Recipients dedicated to the collection of urban solid residuals that present a tip-up lorry cover, associated to the main body of the same one by means of a hinged are known also that, optionally, they present a pedal or similar for the one that their working is achieved it to induce its opening to allow the introduction of the residuals in its interior.

[0006] The described devices, although they complete the function appropriately for which were created, they don't allow that is carried out a selective collection of residuals with an only recipient, should group a number of them similar to that of different types of residuals to classify.

[0007] Conventionally the urban solid residuals group in three types, being known by the applicant the existence of recipients paralepipedico or prismatic that present an internal areas that defines three different volumes.

[0008] The mentioned recipients present three mouths of having filled, optionally covered by means of a cover, accessible at the same time, what can generate

fortuitous introductions of residuals of a type in deposits in those that residuals of another different type are collected.

[0009] In view of the existent problem in this field, it would be desirable to have a deposit or appropriate recipient to the selective domestic collection of urban solid residuals that presents an appropriate internal area and be endowed with appropriate devices that it impedes erroneous introduction of residuals of a type in the deposits dedicated to deposits of another type.

[0010] The applicant doesn't have perseverance of the existence of any device of this type at the present time that presents the signal characteristics previously as desirable.

DESCRIPTION OF THE INVENTION

[0011] The recipient sophisticated compartmentalization for solid residuals that the invention proposes constitutes an evident novelty inside its application field, presenting all the desirable advantages for a device of this type.

[0012] This way, the invention has a cylindrical volume dedicated to the selective collection of urban solid residuals that presents an internal compartmentalization that defines three volumes differed to those that you can consent at the same time from the exterior, being also endowed with a a tip-up lorry cover operated by means of an incorporate pedal to the context of the invention.

[0013] Concretely, the recipient sophisticated compartmentalization for solid residuals this constituted starting from a cylindrical and hollow body that presents an internal compartmentalization achieved by means of three partitions radial from their symmetry axis until the internal face of the cylindrical surface, being this separate radial partitions 120°.

[0014] The cylindrical body possesses some bases inferior and superior you fix that welcome in its center an axis located in coincident position with the axis of symmetry of this cylindrical body, allowing that this carries out a pivot movement according to this axis.

[0015] Also, it is possible that the described axis carries out a descending axial lineal movement when working a willing pedal inferiorly and articulate to this axis, presenting a joining superiorly with a tip-up lorry cover that allows to operate her by means of the working with the foot of the described pedal.

[0016] The tip-up lorry cover is constituted sensibly starting from a body to tabulate, of configuration to plant next to the form of an isosceles triangle, in which the angle understood by the same sides is of 120° and whose opposed side is an arch of it circulate.

[0017] The vertex whose angle is of 120° presents a hinged associated to the joining with the previously described vertical axis.

[0018] The superior base presents a configuration to plant in form of circular sector of 240°,completándose

its development to circulate with a tip-up lorry cover, while the inferior base presents a complete circular development, adopting a cylindrical and hollow general configuration.

[0019] This way, it is possible to pivot the cylindrical body until the superior entry of the existent wanted compartment of the three coincides with the opening of the superior base, moment in the one that, by means of a pressure in the pedal, an opening of the tip-up lorry cover takes place that stays while the mentioned pressure lasts.

[0020] Optionally, it can associate a screw without end to the vertical axis and some coincident engagements in the cylindrical body, so that the vertical displacement of the same one produces a rotation of the cylindrical body, being studied the step of the screw without end so that a descending movement of the pedal is equal to a rotation of the cylindrical body of 120°, should be pressed this pedal to locate the entry of the compartment wanted under the opening of the tip-up lorry cover, being verified the opening of this tip-up lorry cover at the same time.

DESCRIPTION OF THE DIBUJOS

[0021] To supplement the description that is being carried out and with object of helping to a better understanding of the characteristics of the invention, it is accompanied to the present descriptive memory, like integral part of the same one, six leaves of planes in those which, with illustrative and not limitative character, the following ones have been represented:

The figure number 1. - it Shows a view in plant and a raised of the pedal, the vertical axis and the anklebone tip-up lorry, being appreciated the disposition of the existent joining among this elements.

The figure number 2. - it Illustrates a superior view of the superior base and the tip-up lorry cover, a diametrical section of the superior base and a representation of the longitudinal section of the vertical axis.

The figure number 3. - it Represents a view in plant and a diametrical section of the inferior base.

The figure number 4. - it Shows a view in plant and a raised of the base of the cylindrical body, being appreciated the compartmentalization of the same one.

The figure number 5. - it Represents a raised of a longitudinal section of the invention where the general disposition of the constituent elements is appreciated.

The figure number 6. - it Illustrates an asymmetric

view of the longitudinal cut whose representation is the object of the previous figure.

PREFERABLE REALIZATION OF THE INVENTION

[0022] In view of the figures it can be appreciated as the recipient sophisticated compartmentalization for solid residuals that it is praised it is constituted starting from a body cylindrical (12), hole and that not it presents their superior base, supported by means of a rotational base (9), understood in an inferior base (8), of configuration to plant to circulate, and that it presents an internal compartmentalization by means of three radial partitions emanated from their symmetry axis until the cylindrical wall.

[0023] Coaxly to the cylindrical body (12) it is had a vertical axis (1), articulated inferiorly with a pedal (2) that presents a setback spring (11), and that superiorly it is associated with a tip-up lorry cover (4), by means of the cashier (7), on which operates by means of the introduction of a fluke in an it reduces longitudinal that presents the vertical axis (1) in their superior end.

[0024] The tip-up lorry cover (4), of configuration to plant sensibly triangular, endowed with a curved side, it prepares a hinged in the opposed vertex to this curved side that articulates it to a superior base (6), of configuration to plant to circulate and that it presents an opening of similar development to the base of the tip-up lorry cover (4).

[0025] Optionally, the vertical axis (1) it has a screw without end in the inferior end that couples in some teeth. (3) carved in the coincident surface of the cylindrical body (12), able to generate a pivot movement from this when carrying out the vertical axis (1) a descending movement generated by a pressure carried out in the pedal (2).

[0026] It is not considered necessary to make more extensive this description so that any expert in the matter understands the reach of the invention and the advantages that are derived of the same one. The materials, it forms, size and disposition of the elements will be susceptible of variation, provided it doesn't suppose it an alteration to the specialty of the invention.

[0027] The terms in that this memory has been described will always be taken with wide and not limitative character.

Claims

1. It is a divided and perfected receptacle for solid residues, characterized because it is constituted from a hollow cylindrical body and it does not display its higher base, it is supported by a rotary base, comprised in a lower base, of a circular floor shape and it shows an internal division by three radial partitions which are arised from its symmetry axis to the cylindrical wall, cutting to the cylindrical body by a co-

axial way with a vertical axis that is articulated in the lower part with a pedal which displays a backwards spring and in the higher part it is associated with a tip-up lorry top through the cashier on which it operates by the introduction of a tab into a longitudinal recess that the vertical axis shows in its higher extremity, therefore the tip-up lorry top has a perceptibly triangular floor shape that is provided with a curved side with a hinge in the opposite vertex to the mentioned curved side, and the tip-up lorry top is articulated to a higher base which is a circular floor shape and it has an aperture with a similar development to the base of the tip-up lorry top.

2. It is a divided and perfected receptacle for solid residues according to the first claim, characterized because the vertical axis optionally has a turned screw without end in the lower extremity that couples into a carved teeth in the coincidental surface of the cylindrical body.

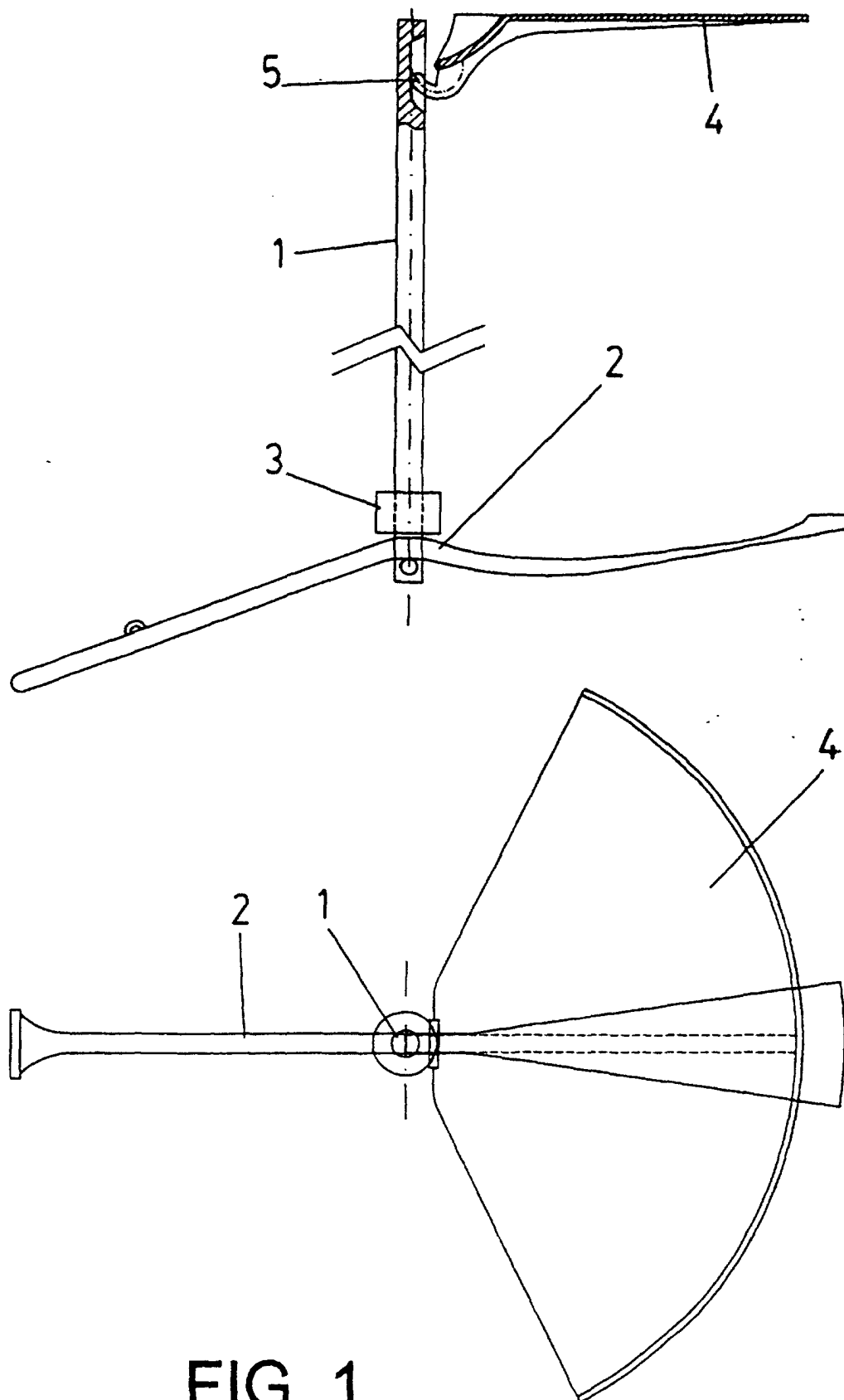


FIG. 1

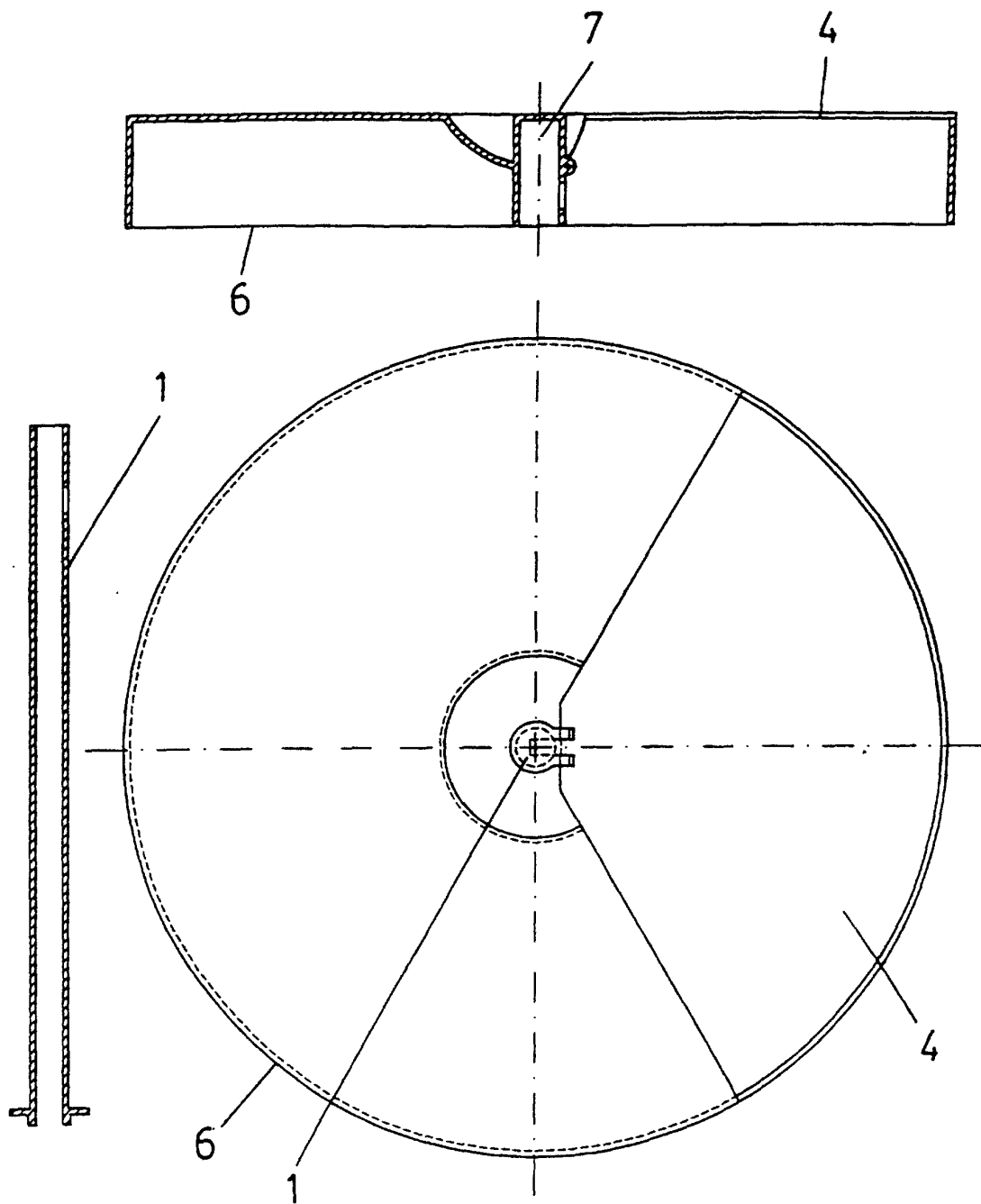


FIG. 2

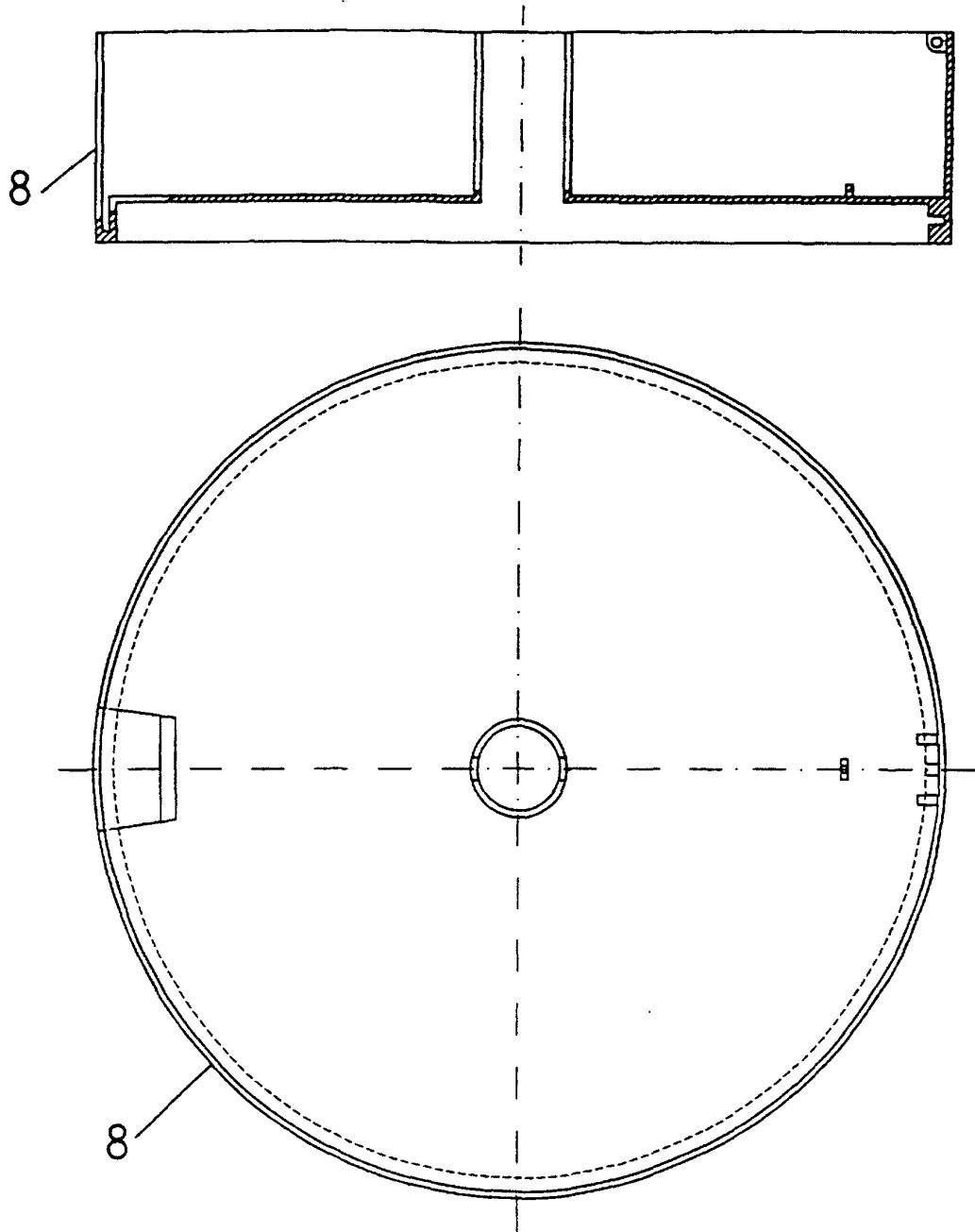


FIG. 3

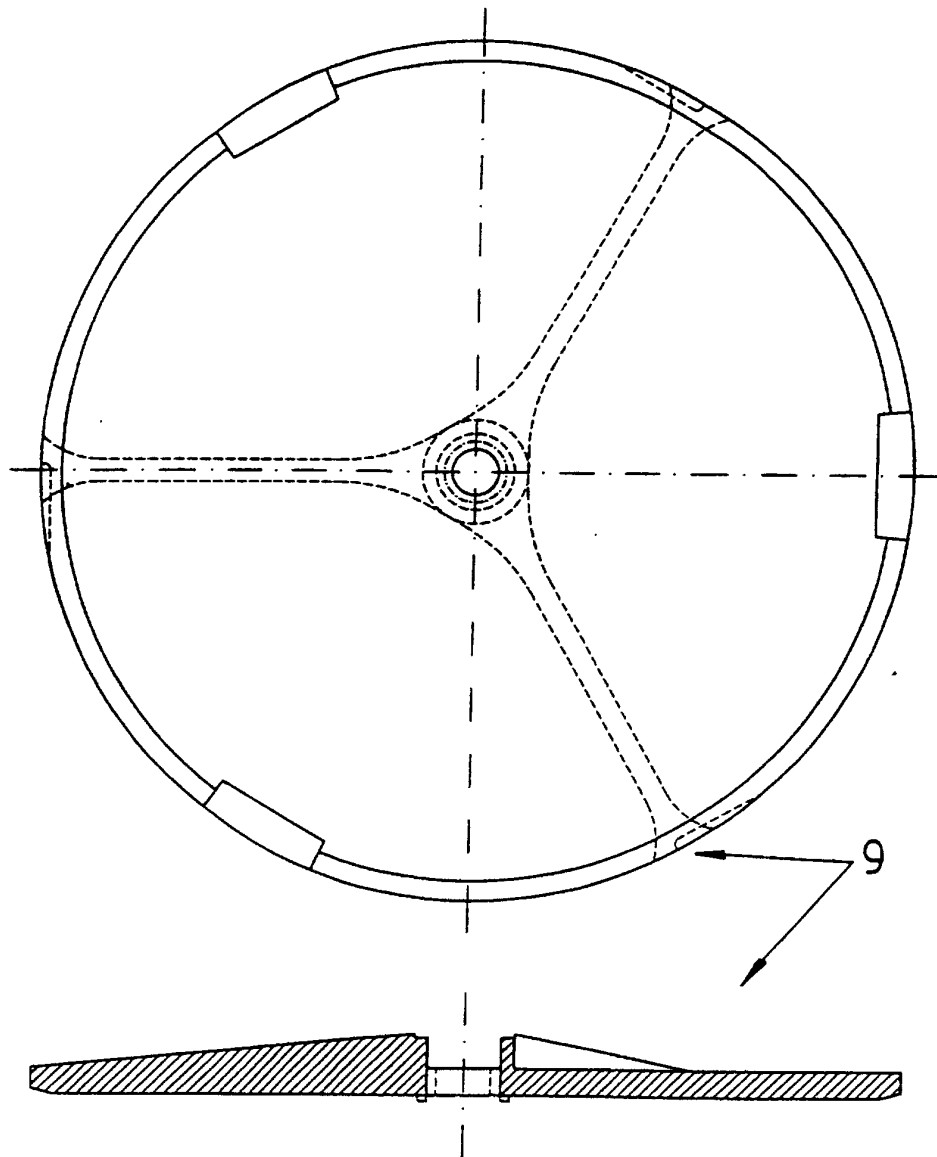
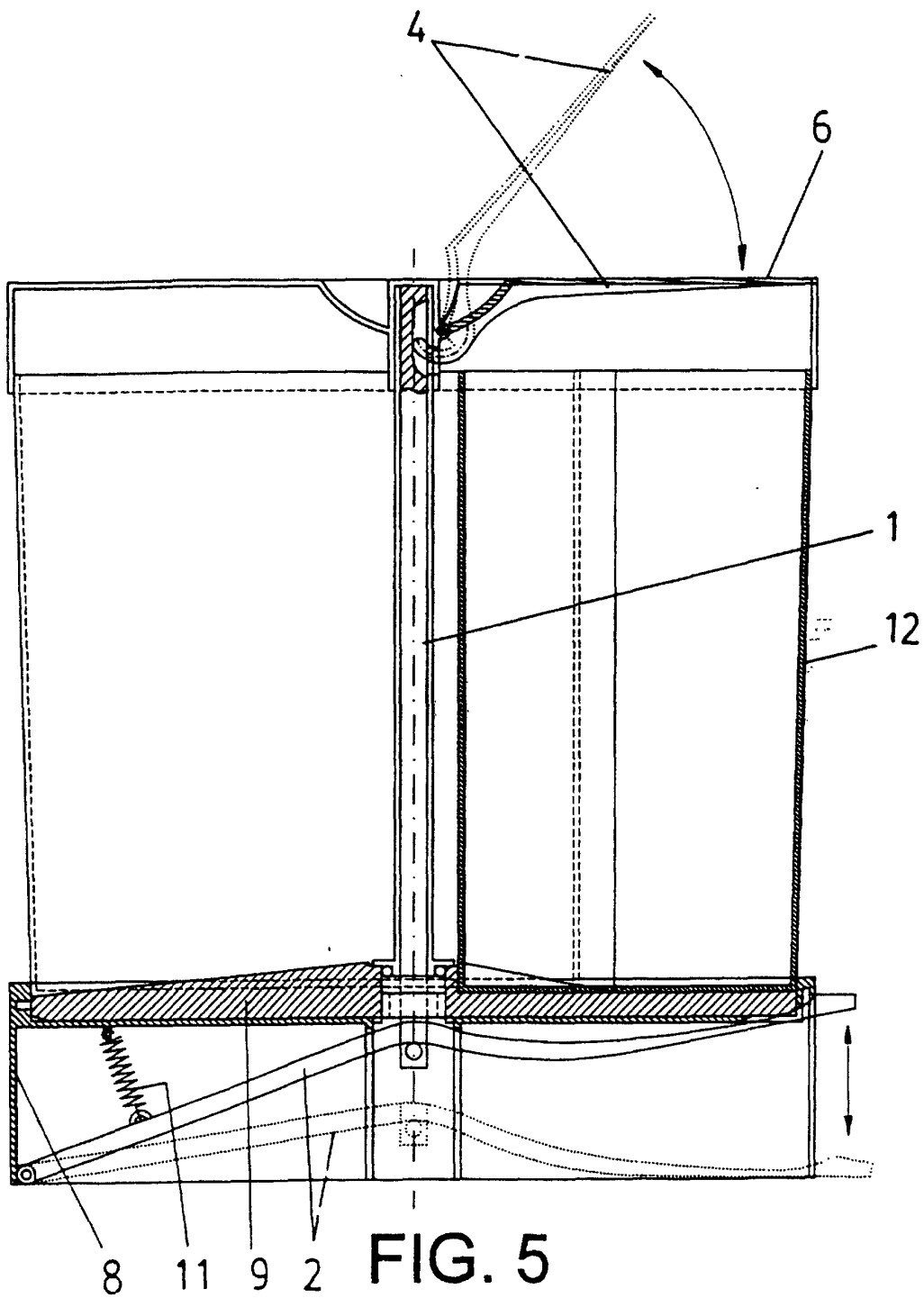
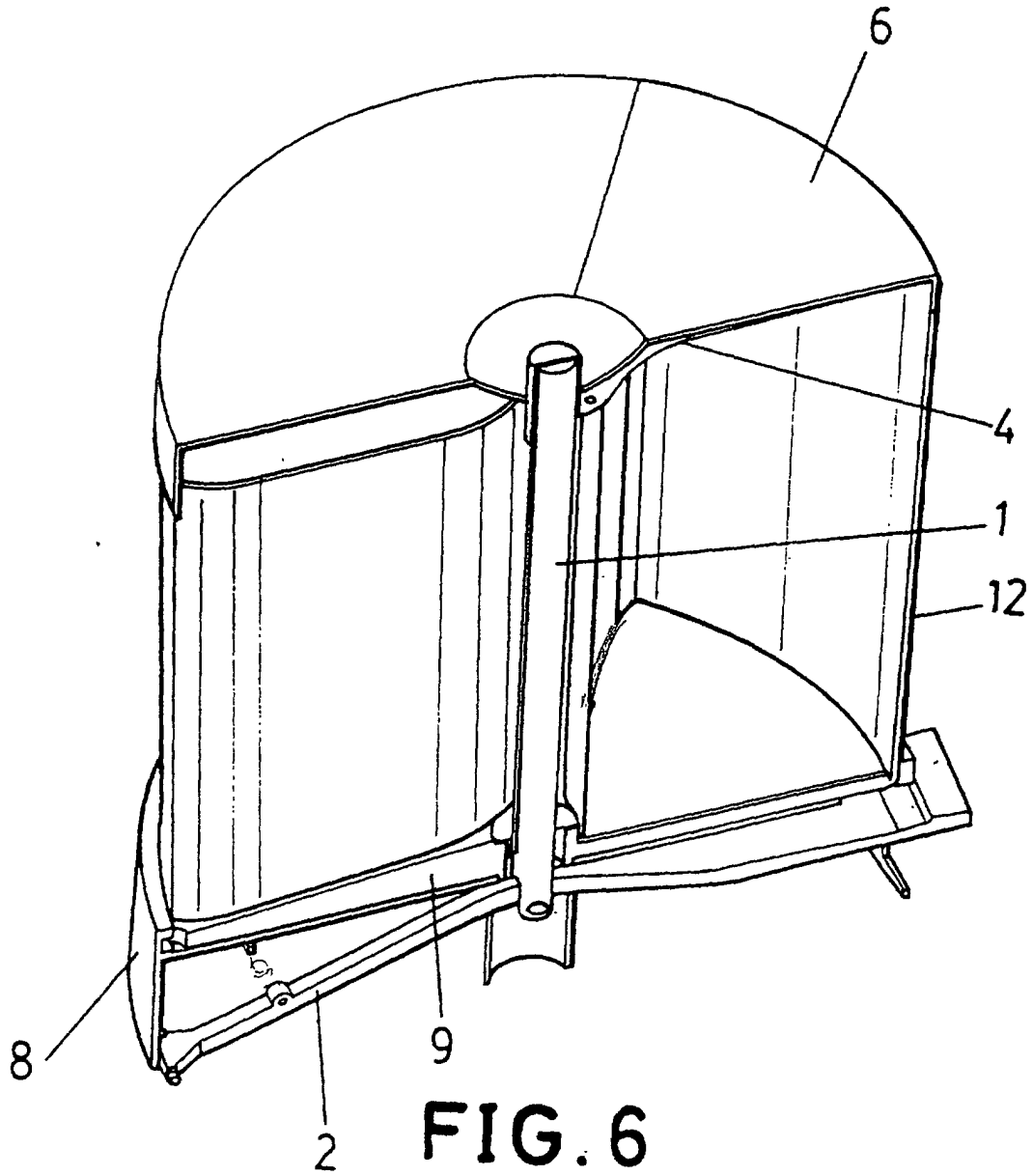


FIG. 4







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EUROPEAN SEARCH REPORT

Application Number
EP 00 50 0190

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.7)
A	DE 42 34 352 A (P. SPITALER ET AL.) 15 April 1993 (1993-04-15) * column 2, line 47 - column 5, line 21 * * figures 1-8 *	1	B65F1/16
A	US 5 048 903 A (E. LOBLEIN) 17 September 1991 (1991-09-17) * column 2, line 17 - column 3, line 51 * * figures 1-6 *	1	
A	US 5 172 630 A (R. THOMPSON) 22 December 1992 (1992-12-22) * claim 1; figure 2 *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B65F
Place of search		Date of completion of the search	Examiner
THE HAGUE		1 December 2000	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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 50 0190

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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01-12-2000

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