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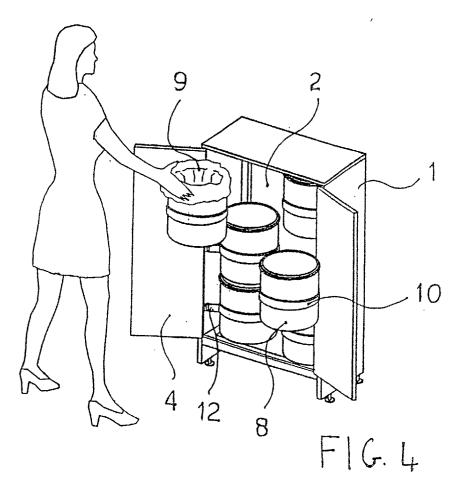
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(54) Cupboard for collecting differentiated refuse materials

(57) Cupboard (1) for collecting differentiated refuse materials for domestic or public use. The cupboard contains a plurality of containers (8) supported by encircling

bands (10) hinged to the cupboard lateral walls. To dispose of a refuse material, the user pivotally withdraws the container corresponding to that particular kind of refuse.



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Description

Technical field

[0001] Object of the present invention is mainly a system to domestic use or to position in local commercial formed a cupboard to the which internal is placed a series of movable containers fit to contain predetermined quantity and diversified of refusal materials.

State of the technique

[0002] The differentiated harvest and the recover of the domestic refusal and not, are actual matters and initiatives subject brims to sensitize the public opinion for a correct separation of the refusal that must happen already to level of the users.

[0003] The themes of a result bad of the differentiated harvest are various and are tied principally to the users that found a lot of trouble, with the solutions of the note technique, collect in differentiated manner in manifold bag or envelope, of difficult positioning and management in an environment that domestic or a commercial concern, the vary refusal typology and confer them in the special road containers.

The object and important characteristics of the invention

[0004] Purpose of the present invention is that to obviate to the inconveniences of the previous technique with to set a system that realize with extremely simple means, essentially a cupboard to the whose inside is placed a series of movable containers, those functional characteristics so that to be able to effectively answer to the request demand and is able to offer the more wide inexpensiveness of guarantee, comfort and of efficaciousness in the use.

[0005] Other purpose of the present invention in agreement with the precedent is to realize a system that allows of facilitating the differentiation of the refusal already to level of the users, allowing to the family or to other operating of accustoming it to the civil practice of confering differentiated refusal in the special road rubbish skip.

[0006] Other purpose of the present invention in agreement with the precedents is to realize a system that allows of depositing and detain each refusal typology, for example paper, glass, plastic art, metals, up to the filling outfit of the container to it fixed.

[0007] Other purpose of the present invention is realize a system, in agreement with the preceding purposes, that realize a house post situated both in ambient outsides that interiors and the which form, to linear and vertical development, and its vary utilization dimensions realizes a superficial encumbrance much reduced.

[0008] The assignments, the purposes and the advantages and others that will be better pointed out later on comes reached by a system principally to domestic

use or to position in the atria of the joint owner-ships, in the local commercial constituted by a cupboard of geometric form essentially parallelepiped with base preferably rectangular or elliptic and to the which internal is placed a series of cylindrical movable containers of preferably cylindrical conic form endowed or less of fit lids to contain predetermined quantity and differentiate of refusal materials.

Description of the drawings and way of realising the invention

[0009] These and other characteristics as well as advantages will result evident from the following description and from the enclosed furnished drawings to only indicative purpose and not limitative in which:

the fig. 1 shows a perspective sight of the cupboard deprives of containers;

the fig. 2 shows a perspective sight of the supplied cupboard of the movable containers;

the fig. 3 shows, in a perspective sight, the way of use of the invention present with the half-open cupboard;

the fig. 4 shows, in a perspective sight, the way of use of the invention present with the two doors of the cupboard completely open .

[0010] The illustrated invention in the drawings in a first form realization favourite included a cupboard (1) of geometric form essentially parallelepiped to base preferably rectangular constructed in amber plate weld for conferring a suitable structural rigidity and coat of paint to fire with dust cloud epoxy-polyester in proportion as the European provisions; cupboard is deprive of the back surface (2) and the bottom surface (3) for the passage of the air in mode favours the internal change of air and avoid the accumulation of smell unpleasant. Anteriorly it is supplied of two doors (4) that are opened independently one by the other by a cheek (5) and are to block by a block mechanism preferably of the type that uses a little ball with spring or a magnet, placed in the superior part of the doors. In the part winger lower are positioned four footsies (6) of support with support in rubber.

[0011] Cupboard is supplied in the back of a counterbalance (7) extractable and connectable by a lateral guide to small channel in mode from is possible to be removed to like.

[0012] In the internal part are positioned six movable containers (8) of preferably cylindrical conic form endowed or less of lids; within each of this containers is positioned an envelope (9) of plastic art for the depositing of the differentiated refusal: dampness (essentially foodstuffs residual), dry (heterogeneous discards), plastic art, paper, glass, metals.

[0013] Each container is set inside a foil in metal conformed to circle (10) that acts by support element which

to his time is hinged laterally (12) on the structure of the cupboard (1).

[0014] Every container is possible to be easily extractable from its support and is preferably endowed each of a different colour to facilitate the individualization for the depositing of a specifies refusal.

[0015] In the back in high the cupboard is supplied of a plastic art element or metal with opportune holes for a possible fixing to a wall or to apply a support element of a further container preferably of flexible material centrally positioned and in the back between the two container files (8).

[0016] This additional container is possible to be used to that refusal, of also special nature, that doesn't reenter in the preceding categories and that have little dimensions, for example medicinal expired, accumulators, etc.

[0017] In an other favourite form realization of the invention present the cupboard is possible to have a form in elliptic plant and the two doors, or one only door, to the sides toward on a line positioned both to the base that in high.

[0018] In an other favourite form of realization the support element (10) is carried out in polymeric flexible material essentially a nylon fiber band, or a similar polymer of suitable thickness, so too the hinges are carried out in plastic art.

[0019] The cupboard is possible to be constructed in different materials for example plastic art, plastic reinforced by incorporated fiberglass, aluminium or in wood. [0020] The operation of the device object of the invention present is much simple, easy and rapid, in when the user opens one or the two doors (4) of the cupboard (1) seizes with the hand the container (8) and with a simple movement to draw makes it wheel toward the outside freeing all its surface from the influence of the cupboard (1) in mode that is possible to extract from the support element (10), the container (8) and/or the envelope (9) with the refusal.

[0021] With a movement to push the container (8) returns in the internal position of the cupboard so that to give ample possibility for the closing of the doors (4). [0022] It is useful underline, that the utilization of the cupboard further that realize a differentiated harvest in more easy manner, clean and with a minor encumbered it is concentrated in an only space harvest, it allows especially for ambient outsides the screen of accessory function thermic and barrier to the bright radiation that made less subject the contents to possible degradations with generation of smell unpleasant, and with the possibility of bringing on its element surfaces graphic agreeable, overwriting and indications of use.

[0023] It is understanded, then, that the refusal divided in comparison with the refusal kind are possible to lie for long time within the containers (8) without creating any trouble, with the advantage that is the conferment in the road rubbish skip is the subdivided harvest that the following recycling will be more easy and eco-

nomic.

[0024] Saying device second the present invention, whose structure is simple and rational, results have the necessary characteristic of resistance to front of the solicitations that happen during the utilization normal and therefore is possible to offer the more wide hygienic guarantee, reliability and safety in the use; result easily obtainable using materials of common availability in commerce therefore it is competitive from the economic point of view and, not last, it is competitive from the functional point of view because assures, as is been previously illustrated, the better way and the most practical of differentiate and to confer refusals.

[0025] From when previously described and illustrated is possible to see that the invention reaches to provost reasons

Claims

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- 1. Conferment system and differentiation of the refusal materials principally to domestic use or to positioning in the atria of the joint owner-ships, in offices or in local commercial **characterized by** the fact that included a cupboard of geometric form parallelepiped and to the which internal is placed in vertical succession, on two files, six containers or movable cylindrical shoals and supported vertically by a flexible or rigid band conformed to circle and hinged to the lateral surfaces of the cupboard, in mode from is possible to wheel toward the outside of the cupboard the shoals, supplied or less of fit lids to contain, preferably with the plastic envelope interposition, predetermined quantity and differentiate of refusal materials.
- 2. Conferment system and differentiation of the refusal materials as to claim 1) characterized by the fact that the cupboard (1) has a geometric form essentially parallelepiped to base rectangular constructed in amber plate weld and coat of paint to fire with dust cloud epoxy-polyester, deprive of the back surface (2) and of the bottom surface (3), while anteriorly it is supplied of two doors (4) that they are opened independently one by the other by a cheek (5) and are to block from a block mechanism preferably of the type that uses a little ball with spring or a magnet, placed in the superior part of the doors; in the part winger lower are positioned four footsies (6) of support with support in rubber, and in the back the cupboard is supplied of a counterbalance (7) extractable and connectable by a lateral guide.
- 3. Conferment system and differentiation of the refusal materials as to claim 1) **characterized by** the fact that each cylindrical movable container (8) presents a different colour and has a lateral cylindrical conic form and base circular, and it is stiff from a lamina

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in metal conformed to circle (10) that to his time is hinged laterally (12) to the structure of the cupboard (1).

- 4. Conferment system and differentiation of the refusal materials as to claim 1) and 3) characterized by the fact that within each cylindrical movable container (8) is positioned a plastic envelope (9) for the depositing of the differentiated refusal: dampness, dries, plastic, paper, glass, metals.
- 5. Conferment system and differentiation of the refusal materials as to claim 1) and 2) **characterized by** the fact that in the back and in high the cupboard is supplied of a plastic or of metal element with opportune holes for a possible fixing to a wall or to apply a support element of a further container preferably of flexible material centrally positioned and in the back between the two container files (8).
- **6.** Conferment system and differentiation of the refusal materials as to claim 1) and 2) **characterized by** the fact that the cupboard is possible to have a form in elliptic plant and the two doors, or an only door, scour to the sides toward the back on a line positioned both to the base that in high.
- 7. Conferment system and differentiation of the refusal materials as to claim 1), 3), and 4) characterized by the fact that the support element (10) is carried out in flexible plastic material, essentially a nylon fiber band, or of similar polymer of suitable thickness, so too the hinges are carried out in plastic material.
- 8. Conferment system and differentiation of the refusal materials as to claim 1), 2), 5) and 6) **characterized by** the fact that the cupboard is possible to be constructed in different materials for example plastic art, plastic reinforced by incorporated fiberglass, aluminium or in wood.
- 9. Conferment system and differentiation of the refusal materials as to claim 1), 2), 5), 6) and 8) characterized by the fact that the utilization of the cupboard further that realize a differentiated harvest in more easy manner, clean and with a minor encumbered it is concentrated in an only space harvest, it allows especially for ambient outsides the screen of accessory function thermic and barrier to the bright radiation that made less subject the contents to possible degradations with generation of smell unpleasant, and with the possibility of bringing on its surfaces graphic elements agreeable, overwriting and indications of use.

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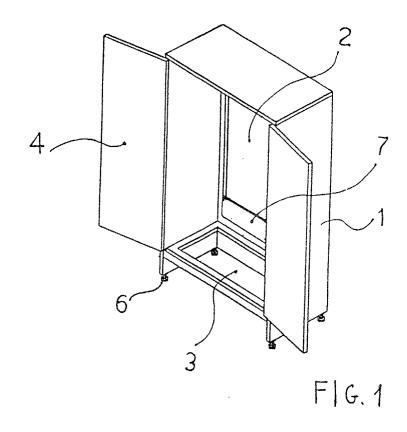
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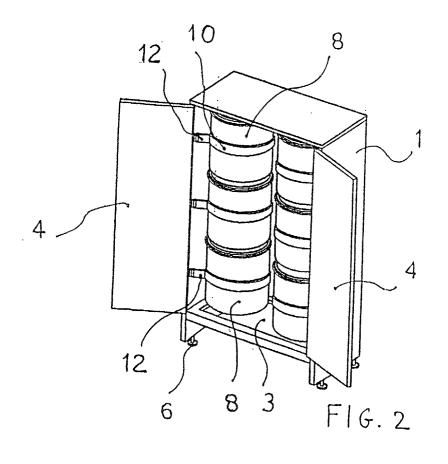
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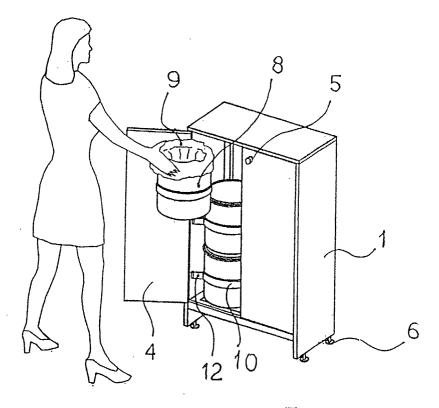
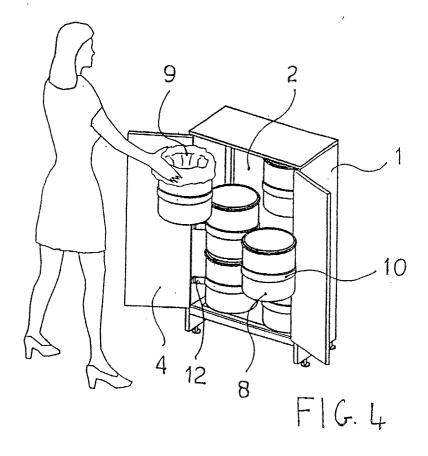


FIG. 3





EUROPEAN SEARCH REPORT

Application Number

EP 01 83 0328

	DOCUMENTS CONSID	ERED TO BE RELEVANT	······································	
Category	Citation of document with in of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
Α	DE 198 19 864 C (ST 26 August 1999 (199 * figures 3,4 *	UMPF METALLWAREN GMBH) 9-08-26)	1	B65F1/00
Α	DE 38 28 401 A (WIE 22 February 1990 (1 * figures 1,3 *		1	
A	DE 94 09 802 U (STU 22 September 1994 (* figure *	1		
Α	DE 87 01 157 U (NOS 5 March 1987 (1987-	S KÜCHENTECHNIK GMBH) 03-05)		
A	DE 40 05 206 A (STA 6 September 1990 (1			
				TECHNICAL FIELDS SEARCHED (Int.CI.7)
				B65F
	The present search report has b	een drawn up for all claims	_	
	Place of search	Date of completion of the search		Examiner
	THE HAGUE	12 October 2001	Mar	tínez Navarro, A.
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EP 01 83 0328

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12-10-2001

Patent document cited in search report			Publication date		Patent family member(s)	Publication date
DE	19819864	С	26-08-1999	DE DE	29807374 U1 19819864 C1	16-07-1998 26-08-1999
DE	3828401	A	22-02-1990	DE DE	3828401 A1 8816784 U1	22-02-1990 16-08-1990
DE	9409802	U	22-09-1994	DE	9409802 U1	22-09-1994
DE	8701157	U	05-03-1987	DE	8701157 U1	05-03-1987
DE	4005206	А	06-09-1990	FI DE DK GB NO SE	890857 A 4005206 A1 47590 A 2229913 A 900857 A 9000612 A	24-08-1990 06-09-1990 24-08-1990 10-10-1990 24-08-1990 24-08-1990

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82