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(54) **PANEL FOR ADVERTISING AND FOR SELECTIVE COLLECTION OF WASTE**

(57) **PANEL FOR ADVERTISING AND SELECTIVE COLLECTION OF WASTE.** Comprising a parallelepipedical body (2), internally hollow which creates a container housing (4) in which several tubular independent and removable compartments (5) are incorporated, to contain waste, the funnel (5a) of each of the tubular compartments (5), being located on its top end associated to an inlet or groove (6) for a given type of waste. The top of the tubular compartments (5) the existence of an elbow (5b) has been provided that determines the vertical orientation of the funnel (5a). A sliding plate (7) has been provided located downstream each inlet or groove (6) that extends beyond the funnel (5a) of the related compartment (5), constituting a downward slope that guides and facilitates the waste sliding. The existence of one, two or more braking wings (8) has been provided, distributed in opposite points with slopes facing symmetrically that weakens the fall of the waste to the bottom. The parallelepipedical body (2) is located on an anchoring plate (9) made of hot galvanized steel.

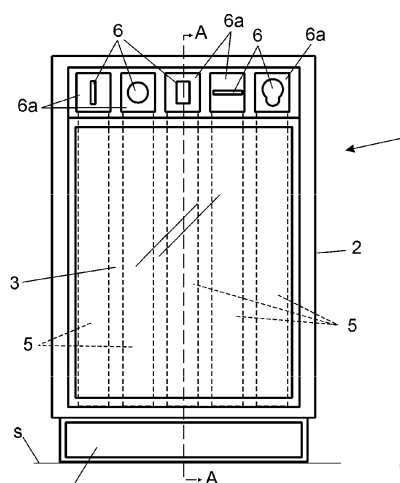


FIG. 1

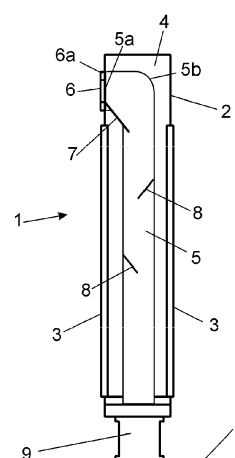


FIG. 2

Description

OBJECT OF THE INVENTION

[0001] The invention, as stated in the title of this specification, refers to a panel for advertising and for selective collection of waste that provides the function to which it is designed with advantages and characteristics of novelty that will be described in detail thereafter.

[0002] The object of this invention refers concretely to an advertising panel designed to the selective collection of small waste wherein this panel being of the type placed in urban areas as a support for outside advertising, is constituted by an approximately parallelepipedical body, internally hollow, provided with two vertical panels on their respective front and rear faces, to affix advertising bills which are separated by an internal central gap, which is configured as a container incorporating a series of independent tubular and removable compartments provided with related open inlets at the top of the panel, for the insertion of different types of waste.

FIELD OF APPLICATION OF THE INVENTION

[0003] The field of application of this invention is within the sector of the industry engaged in the production of advertising supports encompassing at the same time the scope of the production of containers for the selective collection of waste.

BACKGROUND OF THE INVENTION

[0004] As it is known, recycling waste, namely urban waste is necessary in order to reduce the environmental impact generated, therefore installing containers for the selective collection of different types of waste, such as for example, plastics, glass, paper, etc. is every time more widely extended. However, this type of container, which contribution to the environment is undeniable, as the type of waste to which it is designed is the most used and uses to be bulky, they are large-sized elements that, therefore, require the use of an additional space of the street, therefore the public area designed to other purposes is reduced.

[0005] On the other hand, there exists other many type of waste that are generated in the domestic sphere and that can be recycled and/or that must be taken apart from the rest of the waste due to the high level of pollution they provoke, such as for example electric bulbs, cells, compact disks, cd-dvd or small electronic devices and, therefore it results necessary to carry out a selective collection thereof in the public area.

[0006] The objective of this invention is, thus, to develop an advertising panel that, in addition to act as a support to advertising, serves at the same time as a urban container for the selective collection of the above mentioned small-sized waste as above mentioned that, and it can be said, that at least the applicant is not aware, of the

existence of any other advertising panel or invention having a similar application showing technical and structural characteristics same or similar to those offered by the one herein claimed.

EXPLANATION OF THE INVENTION

[0007] The panel for advertising and selective collection of waste that the invention proposes is therefore configured as a novelty within its field of application, because with its implementation the above mentioned objectives are satisfactorily reached, characterizing details making it possible are conveniently included in the final claims attached to this description.

[0008] Concretely, what the invention proposes, as it was stated above, is an advertising panel designed to be installed in the public space of urban areas that is configured from a parallelepipedical body, internally hollow, provided with, at least, two vertical panels on its respective front and rear faces, adapted to affix advertising bills which are separated by an internal central gap, which creates a container housing where are incorporated a series of independent tubular and removable compartments, adapted to contain a given amount of small waste and provided, each one, with their related inlets, to introduce the said waste within them, which is defined by the existence on the top of the container, preferably on the front face close to its top end, of specific inlets or grooves provided with that purpose.

[0009] The said grooves have a concrete perimetral configuration depending on the type de waste to which each of the said tubular compartments is designed, so that, for example, the groove designed to the collection of button cells has a given diameter shape, the groove to conventional cells is rectangular-shaped with proper dimensions, the groove of the compartment designed to compact disks possesses a long and narrow configuration having given dimensions and the groove for electrical bulbs has a shape similar to a bulb. With this, two advantages are achieved, on the one hand it makes the identification of the compartment where to introduce each type of waste easier for the user and on the other hand, it prevents that he does it in the wrong compartment, so that the selective collection results much more effective.

[0010] Still concerning the characteristics of the panel of the invention, it is important to point out that, preferably, the said tubular compartments have, on their top, a cranked configuration, so that the inlet or funnel thereof is arranged on the vertical plane and is directly coupled to the plate on the top of the panel where the groove to introduce the waste is located that, as it has been said, preferably, is arranged close to the top end of the front face of the panel, because in this vertical position the rain water and dust or other foreign elements entering by gravity is prevented and preventing with such cranked and direct coupling any possibility that the waste introduced does not fall within the related compartment.

[0011] Likewise, according to another characteristic of

the invention, the interior of all or some compartments are provided with sliding and/or weakening means for the fall of the waste, designed, the first ones to help for a correct conduction of the waste from the funnel to its interior preventing eventual clogging and the second designed to prevent, when the compartment is still very empty, that the waste directly fall to the bottom and are broken into very small fragments, which, for example in the case of electric bulbs, is not desirable when carrying out the optimum sorting of the waste.

[0012] Last, according to another of the characteristics of the invention, the parallelepipedical body conforming the panel and that constitutes the container that incorporates the tubular compartments, is incorporated on a plate anchoring to the bed, preferably constituted by a supporting structure made of steel, that lifts the said body to a given height above the level of the floor, preventing that at its bottom liquids accumulate and when staying stagnant, produce oxidation or other corrosive effects on it, namely dog's urine, because as they are designed to be installed in the public space that means an unavoidable element to be envisaged.

[0013] The disclosed panel for advertising and selective collection of waste consists, therefore, in an innovating structure having characteristics unknown up to now for the purpose to which it is designed, reasons that jointly with its practical utility provide it with a ground sufficient to obtain the privilege of the exclusivity that is applied for.

DESCRIPTION OF THE DRAWINGS

[0014] To complement the description that is being carried out and in order to assist to a best understanding of the characteristics of the invention, attached to this specification and as an integral part thereof, there is a sheet of drawings in which for illustration and not limitation purpose the following has been represented:

The figure number 1.- Shows a schematic view in front elevation of an example of embodiment of the panel for advertising and selective collection of waste, object of the invention, its external general configuration can be seen and some of its internal elements represented by dotted lines; and

the figure number 2.- Shows a sectional view, according to the section A-A mentioned in the figure 1, of the panel for advertising and selective collection of waste, according to the invention, and its internal configuration can be seen, and namely one of the tubular compartments it comprises.

PREFERRED EMBODIMENT OF THE INVENTION

[0015] At the sight of the said figures, and according to the numbering adopted in them, a not limiting example of the panel for advertising and selective collection of waste of the invention can be seen, which comprises the

parts and elements indicated and disclosed in detail thereafter.

[0016] Thus, as it can be seen in the figure 1, the panel (1) involved comprises a parallelepipedical body (2), internally hollow, having available at least two vertical panels (3) on its respective front and rear faces, designed to incorporate advertising bills, between which there exists an internal central gap that determines a container housing (4) in which several tubular independent and removable compartments (5) are incorporated, to contain waste, the funnel (5a) of each of the said tubular compartments (5), being located at its top end, associated to a groove or inlet (6) having a specific perimetral configuration the shape of which defines and limits the insertion of only one given type of waste.

[0017] Preferably, the said grooves (6) of specific insertion of each tubular compartment (5) are located aligned on the top of the front face of the body (2) of the panel (1), and the funnel (5a) of all of them is arranged oriented on the vertical plane, thanks to the existence of an elbow (5b) provided on the top end of the tubular compartments (5), being directly coupled, by the internal part of the container (4), to the platen (6a) in which each inlet or groove (6) has been cut.

[0018] In addition, also in a preferred manner, a sliding plate (7) has been provided located downstream each inlet or groove (6) that extends beyond the funnel (5a) of the related compartment (5), constituting a downward slope acting as a guiding and sliding means to achieve the correct insertion of the waste and prevent clogging in the said funnel (5a).

[0019] In addition, also in a preferred manner, along the interior of the tubular compartment (5), in one, several or all of them, the existence of one, two or more braking wings (8) has been provided that, distributed in opposite points with symmetrically facing slopes, act weakening the fall of the waste to the bottom of the tubular compartment (5), preventing their breakage, namely when the panel is empty or almost empty.

[0020] Last, the parallelepipedical body (2) conforming the panel (1), preferably, is located on the anchoring plate (9) to the bed in the preferred embodiment keeping it lifted to a given height above the level of the floor (s), being constituted, also in a preferred but not limiting manner, by a supporting structure made of hot galvanized steel.

[0021] The nature of the invention being sufficiently disclosed, as well as the manner of implementing it, it is not deemed necessary to extend any more the explanation in order that any person skilled in the art understands its extent and the advantages arising from it, and it is stated that, within its essentiality, it can be implemented with other embodiments differing in detail of the one stated for example purpose and to which shall extend the protection sought provided that its main principle is not altered, changed or modified.

Claims

1. Panel for advertising and selective collection of waste that, comprising a parallelepipedical body (2), internally hollow, provided with at least, two vertical panels (3) on its respective front and rear faces, designed to incorporate advertising bills between which an internal central gap exists, **characterized in that** the said internal central gap creates a container housing (4) in which several tubular independent and removable compartments (5) are incorporated, to contain waste, the funnel (5a) of each of the tubular compartments (5), being located on its top end associated to an inlet or groove (6) having a specific perimetral configuration the shape of which defines and limits the insertion of a given type of waste.

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2. Panel for advertising and selective collection of waste, according to claim 1, **characterized in that** the inlets or grooves (6) of specific insertion of each tubular compartment (5) are located aligned on the top of the front face of the body (2) of the panel (1), and the funnel (5a) of all of them is arranged oriented in the vertical plane vertical, being directly coupled , by the internal part of the container (4), to the platen (6a) where each groove (6) has been cut.

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3. Panel for advertising and selective collection of waste, according to claim 2, **characterized in that** on the top of the tubular compartments (5) the existence of an elbow (5b) has been provided that determines the vertical orientation of the funnel (5a).

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4. Panel for advertising and selective collection of waste, according to any of the claims 1 to 3, **characterized in that** a sliding plate (7) has been provided located downstream each inlet or groove (6) that extends beyond the funnel (5a) of the related compartment (5), constituting a downward slope that guides and facilitates the waste sliding.

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5. Panel for advertising and selective collection of waste, according to any of the claims 1 to 4, **characterized in that**, along the interior of one, several or all the tubular compartments (5), the existence of one, two or more braking wings (8) has been provided, distributed in opposite points with slopes facing symmetrically that weakens the fall of the waste to the bottom of the related tubular compartment (5).

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6. Panel for advertising and selective collection of waste, according to any of the claims 1 or 2, **characterized in that** the parallelepipedical body (2) conforming the panel (1) is located on an anchoring plate (9).

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7. Panel for advertising and selective collection of waste according to claim 6, **characterized in that** the anchoring plate (9) keeps the parallelepipedical body (2) of the panel (1) lifted to a given height above the level of the floor (s).

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8. Panel for advertising and selective collection of waste, according to claim 6 or 7, **characterized in that** the anchoring plate (9) is a supporting structure made of hot galvanized steel.

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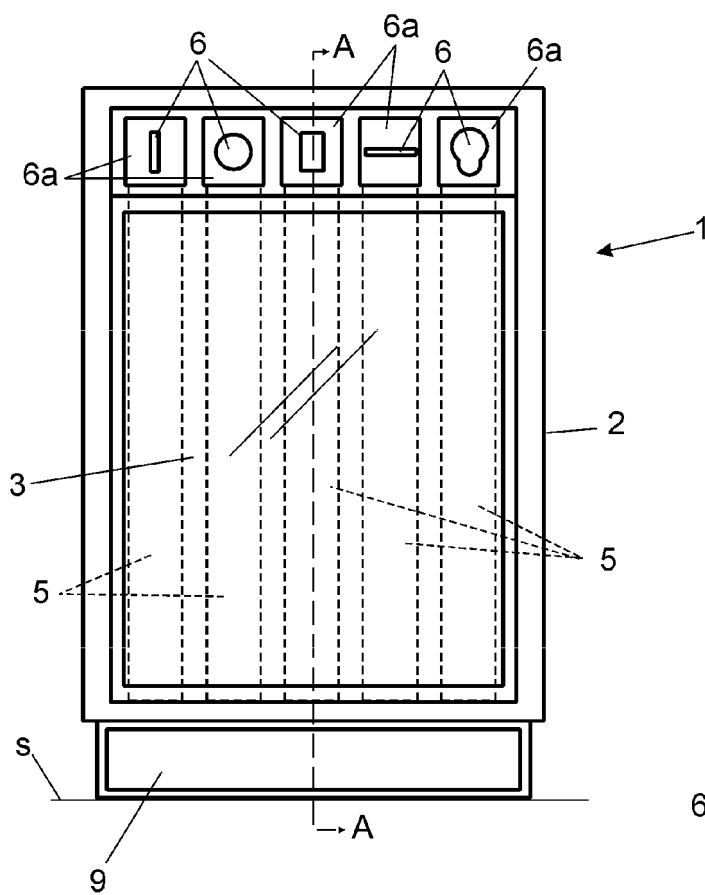


FIG. 1

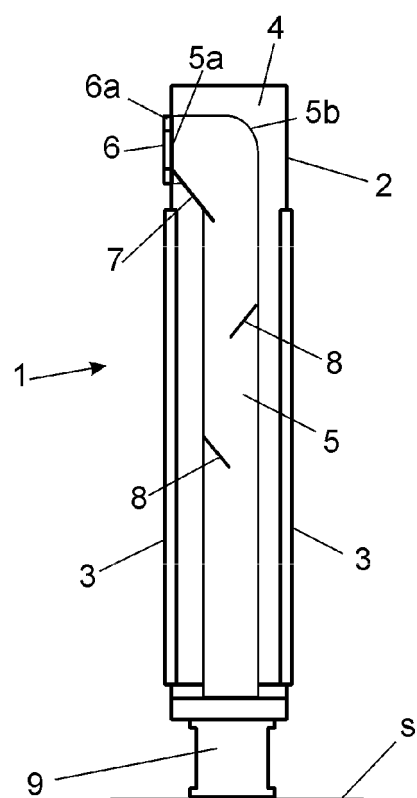


FIG. 2



EUROPEAN SEARCH REPORT

Application Number
EP 17 38 2382

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DOCUMENTS CONSIDERED TO BE RELEVANT			
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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 20 November 2017	Examiner Pardo Torre, Ignacio
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 17 38 2382

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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20-11-2017

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