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(54) **GARBAGE COLLECTOR DEVICE**

(57) Garbage collector device (1), in particular for bottles and cans, said device comprising a body (2) provided with an aperture (3) for receiving the bottles and cans, and said body (2) comprising a storage room for the bottles and cans to which the aperture (3) provides access, wherein said body (2) comprises a door or drawer (4) which is arranged to provide access to a part of the storage room below the aperture (3) so as to enable retrieving said bottles and cans.

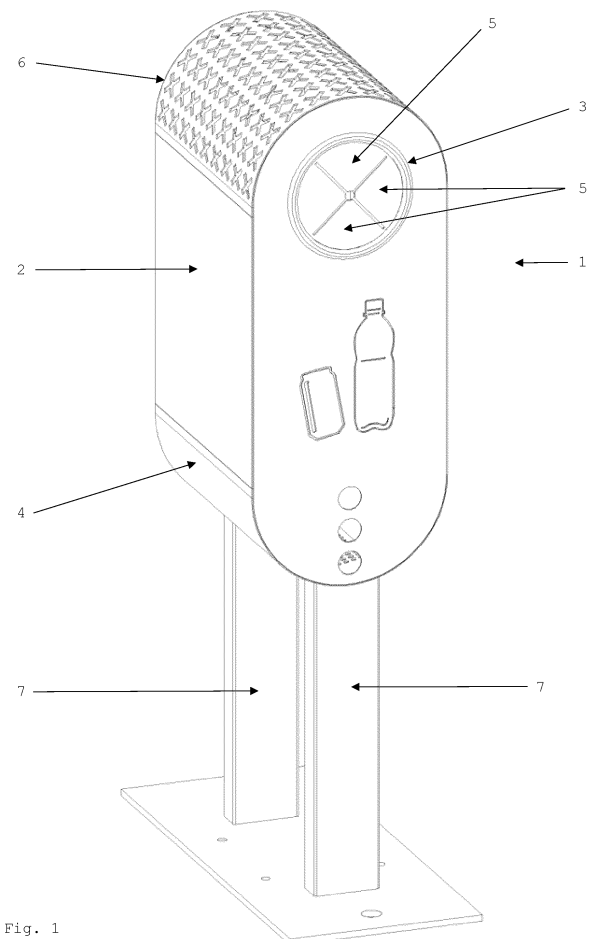


Fig. 1

Description

[0001] The invention relates to a garbage collector device, in particular for bottles and cans, said device comprising a body provided with an aperture for receiving the bottles and cans, and said body comprising a storage room for the bottles and cans to which the aperture provides access.

[0002] CN 211732577 discloses such a garbage collector device, wherein a classification of the garbage is capable of reducing sorting times. The upper cover of the device is provided with garbage input openings corresponding to different storage barrels. A turning plate used for distinguishing the weight is installed on the inner wall of the upper cover and located below the bottle body input opening, located above the glass bottle storage barrel and inclines downwards in the direction from the glass bottle storage barrel to the plastic bottle storage barrel. The garbage is further classified and provided to the corresponding input port and the corresponding storage barrel, so that the recyclable garbage can be prevented from being mixed into unrecyclable garbage.

[0003] CN 111453265 discloses an automatic recycling device for plastic bottle garbage, comprising a miniature camera device, an overall outer box, an inlet switch device, a drum box device, a display screen, an intermittent wheel drum device, an extrusion device, a drill device, and a storage box. At the throwing opening in the upper half of the overall outer box a drain pipe, a first drum, a second drum, a third drum, and a fourth drum are provided. The middle layer of the overall outer box is equipped with a tumbler box device, an extrusion device is installed above the tumbler box, an intermittent wheel drum device is installed inside the tumbler box, and a drilling hole is set on one side of the tumbler box. The lower layer of the overall outer box is provided with a storage box, and the first drum, the second drum, the third drum, and the fourth drum are fixedly connected with the intermittent wheel drum device. The recycling efficiency of plastic bottles is improved, automatic and intelligent recycling of plastic bottles is possible, and effectively improves the recycling rate and efficiency of plastic bottles.

[0004] US2019/0308809 discloses a collector device, in particular for bottles and cans, said device comprising a body provided with an aperture for receiving the bottles and cans, and said body comprising a storage room for the bottles and cans to which the aperture provides access, wherein said body comprises a door or drawer which is arranged to provide access to a part of the storage room below the aperture so as to enable retrieving said bottles and cans.

[0005] Debris and litter is an increasing problem in the municipal environment, particularly plastic and glass bottles and metal cans pollute the environment.

[0006] An additional problem is that in case such bottles and cans are deposited in litter bags, such bags are opened and searched by homeless people looking for

things of value, in particular such bottles and cans because they represent a monetary value in terms of deposit money if returned to the retailer.

[0007] It is an object of the invention to provide a solution to the above problems, and for that purpose a garbage collector device is proposed with the features of one or more of the appended claims.

[0008] According to a first aspect of the invention the body is provided on top of one or more standers, and the door or drawer is provided above toddlers height.

[0009] This combination of features makes both cleaning of the area where the garbage collection device is positioned easy, and avoids tampering with the garbage collector device of the invention by little children, in particular toddlers.

[0010] Not only is it environmentally helpful to provide the garbage collector device of the invention and place it so that people are invited to place their empty bottles and cans into the garbage collector device. Moreover the provision of this garbage collector device makes it recognizable as a collection point for bottles and cans. The provision of the door or drawer above toddlers height is then a beneficial tool to enable particularly the homeless to retrieve such disposed bottles and cans from the garbage collector device and collect the deposit monies at the local retailer.

[0011] It is preferable that the aperture is closed off with resilient flaps. This avoids that the garbage collector device of the invention is used for disposal of other types of litter than bottles and cans. Suitably the resilient flaps are rubber flaps.

[0012] Beneficially the aperture is provided in an upper segment of the body. Gravity can then simply assist when collecting the bottles and cans down into the body.

[0013] For hygienic purposes it is preferable that the body is provided with cleansing holes. Preferably the cleansing holes are provided in the upper segment and in the bottom of the body, to enable a thorough cleaning of the inside of the body with cleansing water.

[0014] The invention will hereinafter be further elucidated with reference to the accompanying drawing, which is incorporated into and forms a part of the specification, illustrates one or more embodiments of the present invention and, together with the description, serves to explain the principles of the invention. The drawing is only for the purpose of illustrating one or more embodiments of the invention and is not to be construed as limiting the invention.

[0015] In the drawing:

- figure 1 shows a garbage collection device of the invention in a side view;
- figure 2 shows the garbage collection device of the invention in a frontal view; and
- figure 3 shows the garbage collection device of the invention in a top view.

[0016] Whenever in the figures the same reference

numerals are applied, these numerals refer to the same parts.

[0017] With reference to the above-mentioned figures a garbage collector device 1 is shown, in particular for bottles and cans. Said device 1 comprises a body 2 provided with an aperture 3 for receiving the bottles and cans. Further inside said body is a storage room for the bottles and cans to which the aperture 3 provides access. The body 2 further comprises a door or drawer 4 which is arranged to provide access to a part of the storage room below the aperture 3 so as to enable retrieving said bottles and cans from the garbage storage device 1.

[0018] Figure 1 shows that the aperture 3 is closed off with resilient flaps 5, suitably the resilient flaps 5 are rubber flaps.

[0019] Figure 1 further clearly shows that the aperture 3 is provided in an upper segment of the body 2.

[0020] All figures depict that the body 2 is provided with cleansing holes 6, particularly figure 3 provides a view at the cleansing holes being provided in the upper segment of the body 2. Such cleansing holes are also provided in the bottom of the body so that a thorough cleaning of the inside of the body with cleansing water is facilitated.

[0021] Figures 1 and 2 show that the body 2 is provided on top of one or more standers 7. With further reference to figures 1 and 2 it is remarked that the door or drawer 4 is preferably provided above toddlers height.

[0022] Embodiments of the present invention can include every combination of features that are disclosed herein independently from each other. Although the invention has been discussed in the foregoing with reference to an exemplary embodiment of the invention, the invention is not restricted to this particular embodiment which can be varied in many ways without departing from the invention. The discussed exemplary embodiment shall therefore not be used to construe the appended claims strictly in accordance therewith. On the contrary the embodiment is merely intended to explain the wording of the appended claims without intent to limit the claims to this exemplary embodiment. The scope of protection of the invention shall therefore be construed in accordance with the appended claims only, wherein a possible ambiguity in the wording of the claims shall be resolved using this exemplary embodiment.

[0023] Variations and modifications of the present invention will be obvious to those skilled in the art and it is intended to cover in the appended claims all such modifications and equivalents. The entire disclosures of all references, applications, patents, and publications cited above are hereby incorporated by reference. Unless specifically stated as being "essential" above, none of the various components or the interrelationship thereof are essential to the operation of the invention. Rather, desirable results can be achieved by substituting various components and/or reconfiguration of their relationships with one another.

Claims

1. Garbage collector device (1), in particular for bottles and cans, said device comprising a body (2) provided with an aperture (3) for receiving the bottles and cans, and said body (2) comprising a storage room for the bottles and cans to which the aperture (3) provides access, wherein said body (2) comprises a door or drawer (4) which is arranged to provide access to a part of the storage room below the aperture (3) so as to enable retrieving said bottles and cans, **characterized in that** the body (2) is provided on top of one or more standers (7) and the door or drawer (4) is provided above toddlers height.
2. Garbage collector device according to claim 1, **characterized in that** the aperture (3) is closed off with resilient flaps (5).
3. Garbage collector device according to claim 2, **characterized in that** the resilient flaps (5) are rubber flaps.
4. Garbage collector device according to any one of claims 1 - 3, **characterized in that** the aperture (3) is provided in an upper segment of the body (2).
5. Garbage collector device according to any one of claims 1 - 4, **characterized in that** the body (2) is provided with cleansing holes (6).
6. Garbage collector device according to claim 4 and claim 5, **characterized in that** the cleansing holes (6) are provided in the upper segment and the bottom segment of the body (2) .

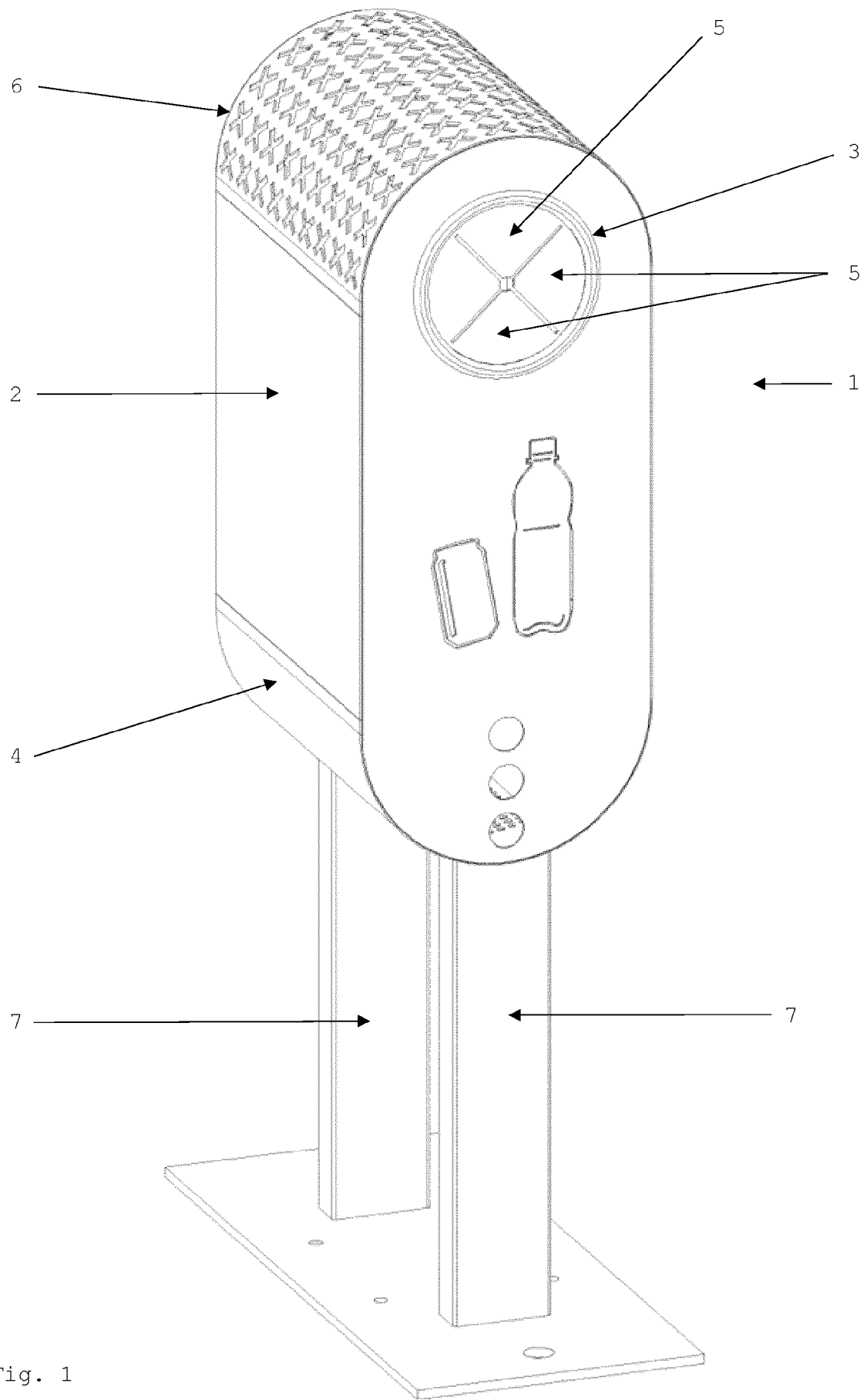


Fig. 1

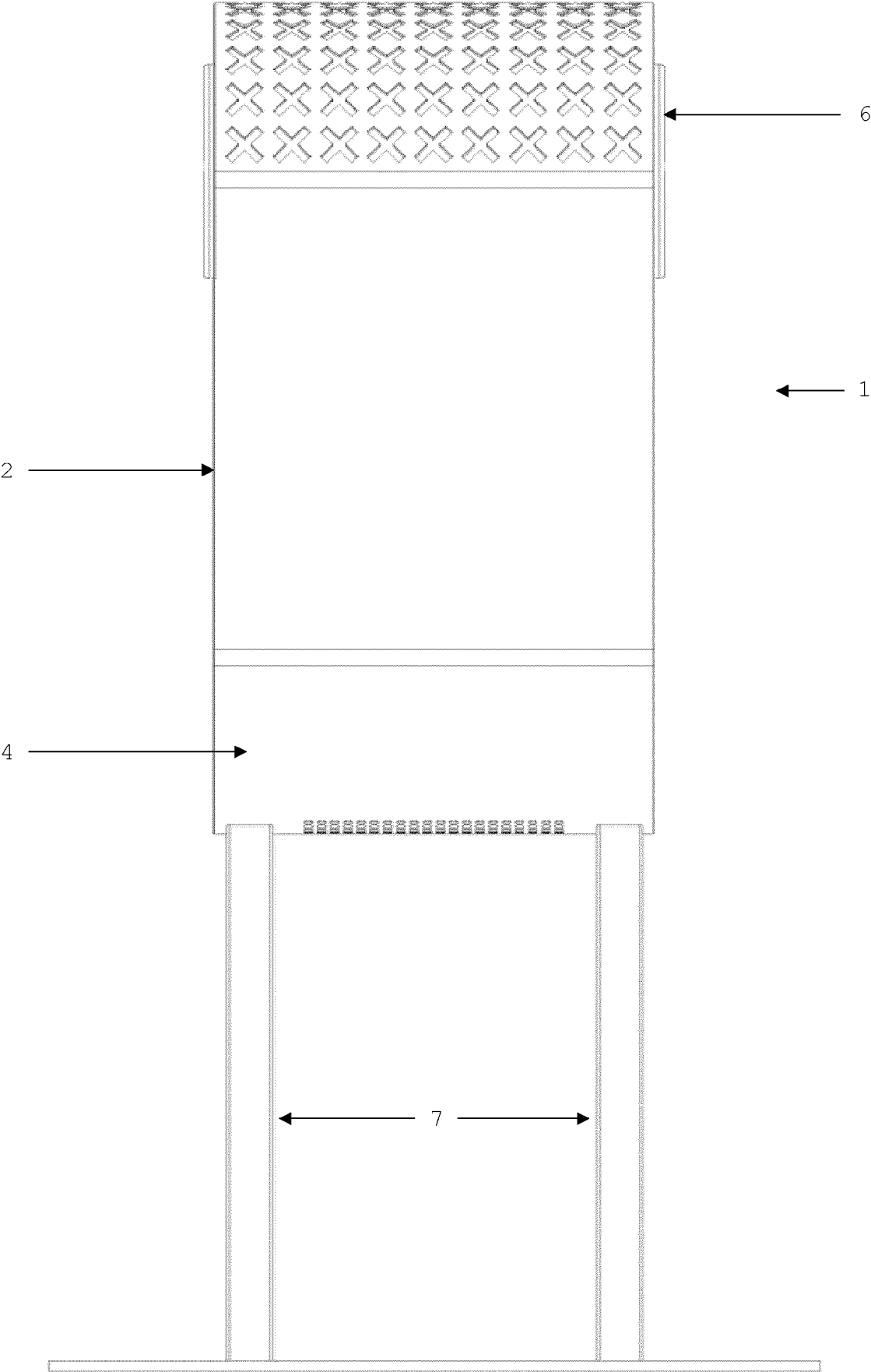


Fig. 2

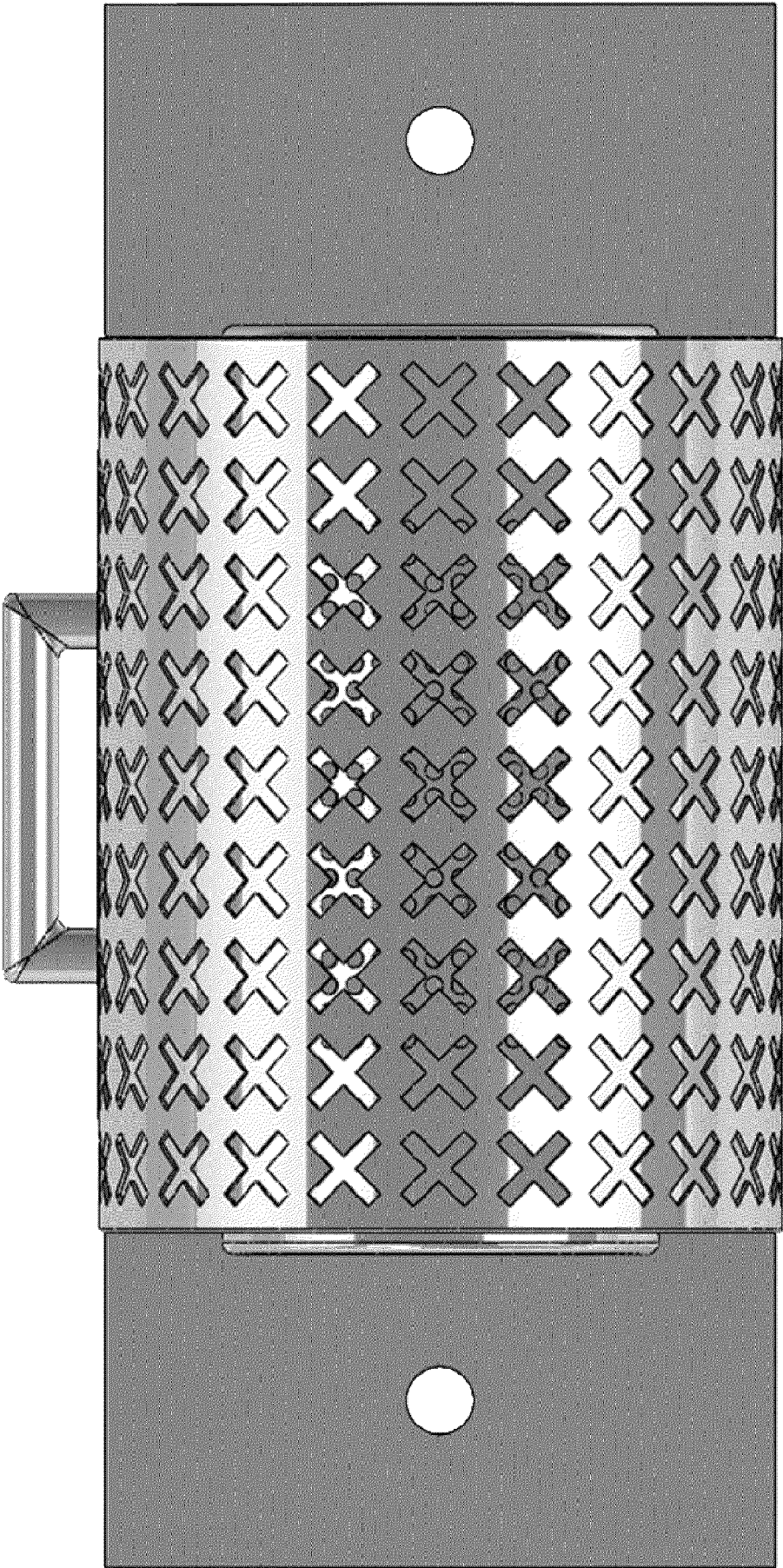


Fig. 3



EUROPEAN SEARCH REPORT

Application Number

EP 24 19 5929

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			TECHNICAL FIELDS SEARCHED (IPC)
			B65F
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		16 January 2025	Serrano Galarraga, J
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EP 24 19 5929

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REFERENCES CITED IN THE DESCRIPTION

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