Dec. 23, 1952 H. LINDE 2,622,761

DUSTBIN WITH HINGED COVER

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Fig. 1

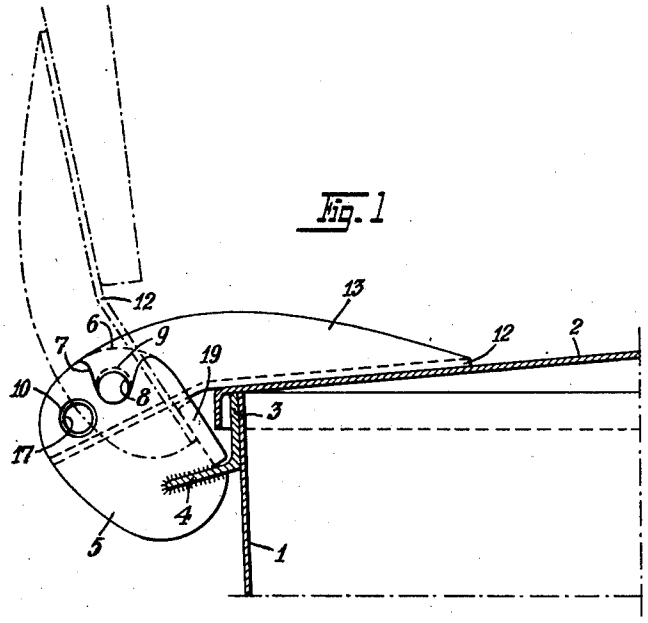
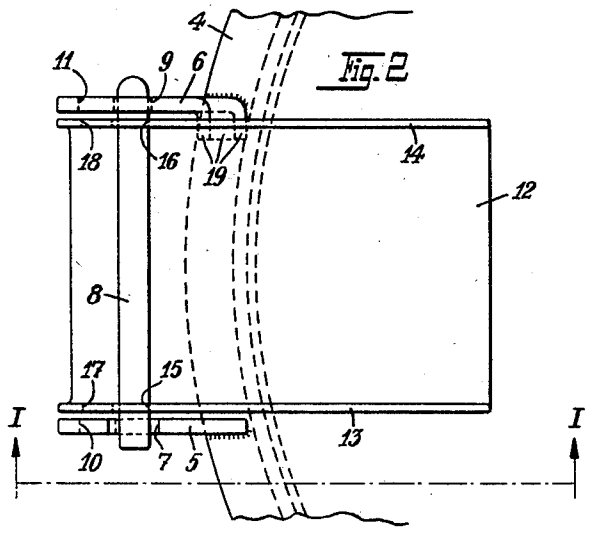


Fig. 2



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DUSTBIN WITH HINGED COVER

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4 Claims. (Cl. 220—32)

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The invention relates to a dustbin having a hinged cover. When a community desires to turn over from the old to the new system the old dustbins cannot be used, and by this reason it has been found advantageous to delay the use of the new system for a certain period and in the meantime to substitute dustbins capable of being used in both systems for old dustbins successively as they are worn out.

An object of the invention is to provide a hinge device, which can be used in the old system and changed in a simple way so as to correspond to the new system.

An other object of the invention is to provide a hinge, which requires no new parts or special tools for the change.

With these and other objects in view the invention is hereafter fully described and illustrated by way of an example in the accompanying drawing in which—

Fig. 1 is a vertical section on line I—I in Fig. 2 of a portion of a dustbin according to one form of the invention, and

Fig. 2 is a corresponding top view thereof.

The dustbin 1, which is closed by a hinged cover 2, has an upper reinforcement ring 3 with an outwardly sloping flange 4. The one half of the hinge is formed by two parallel plates or lugs 5 and 6 provided with a slot engaging the flange 4, to which the lugs are fastened by welding, but the lugs may also have an extension welded to the bin jacket. The lug 5 has a recess 7 serving as an upwardly open bearing for a hinge pin 8, and the lug 6 has a bore 9 with a diameter exceeding that of the pin. The lugs 5, 6 have further each a bore 10 and 11 respectively with a diameter only slightly greater than the hinge pin 8.

The half hinge on the cover 2 is formed of a plate 12 pressed to a U-form with two upstanding flanges 13, 14 and welded to the cover. The flange 13 has bores 15, 17 and the flange 14 bores 16, 18 of such a diameter that the hinge pin 8 may be forced into either bores 15 and 16 or 17 and 18 and secured by friction.

When the dustbin is to be used with removable cover the pin 8 is inserted in the bores 15, 16. The cover can then be placed in its position, if the one end of the pin is introduced obliquely into bore 9 in the lug 6 and the other end thereafter is lowered into the recess 7 in the lug 5. If the bins after having been used for some time are to be changed for the dustless discharge system the hinge pin 8 is removed from the bores 15, 16 and inserted into the bores 17, 18 and 10, 11, whereafter the cover is connected with the bin and cannot be removed. The pin 8, which is rigidly fastened to the flange, can rotate in the bores 10, 11.

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The lug 6 has an inwardly bent portion 19 adapted to cooperate with the outer end of the hinge member 12 so as to serve as a stop for the cover 2 when opened to the end position shown in Fig. 1. A similar stop may also be formed by bending the lug 5 inwardly.

Although only one form of the invention is shown in the drawing it is obvious, that modifications thereof are possible without departing from the invention.

I claim:

1. In a dustbin having a hinged cover, the combination with a half hinge on the cover comprising two hinge plates provided each with two holes of a hinge pin adapted to occupy two alternative positions in said holes, and an other half hinge on the dustbin comprising two lugs provided with two opposite holes serving as bearings for the hinge pin in one position and preventing the cover from being removed, one of said lugs having a further hole and the other of said lugs having an opposite open bearing for said hinge pin when occupying its other alternative position so that the cover may easily be removed.

2. In a dustbin having a hinged cover, the combination with a half hinge on the cover comprising two hinge plates provided each with two holes of a hinge pin adapted to occupy two alternative positions in said holes, and an other half hinge on the dustbin comprising two lugs welded to an outwardly extending portion of an angle-iron ring around the orifice of the dustbin and provided with two opposite holes serving as bearings for the hinge pin in one position and preventing the cover from being removed, one of said lugs having a further hole and the other of said lugs having an opposite open bearing for said hinge pin when occupying its other alternative position so that the cover may easily be removed.

3. In a dustbin having a hinged cover, the combination with a half hinge on the cover comprising a U-shaped member having two upwardly directed flanges provided each with two holes of a hinge pin adapted to occupy two alternative positions in said holes, and an other half hinge on the dustbin comprising two lugs provided with two opposite holes serving as bearings for the hinge pin in one position and preventing the cover from being removed, one of said lugs hav-

ing a further hole and the other of said lugs having an opposite open bearing for said hinge pin when occupying its other alternative position so that the cover may easily be removed.

4. In a dustbin having a hinged cover, the combination with a half hinge on the cover comprising two hinge plates provided each with two holes of a hinge pin adapted to occupy two alternative positions in said holes, and an other half hinge on the dustbin comprising two lugs provided with two opposite holes serving as bearings for the hinge pin in one position and preventing the cover from being removed, one of said lugs having an open recess as a bearing for said hinge pin occupying its other alternative position and the other of said lugs having an opposite bore forming a second bearing and being of a diameter sufficiently exceeding that of the hinge pin to allow the end of the pin located in said recess to be raised to a position, from which the other end of the pin may be moved out of said bore.

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No references cited.