

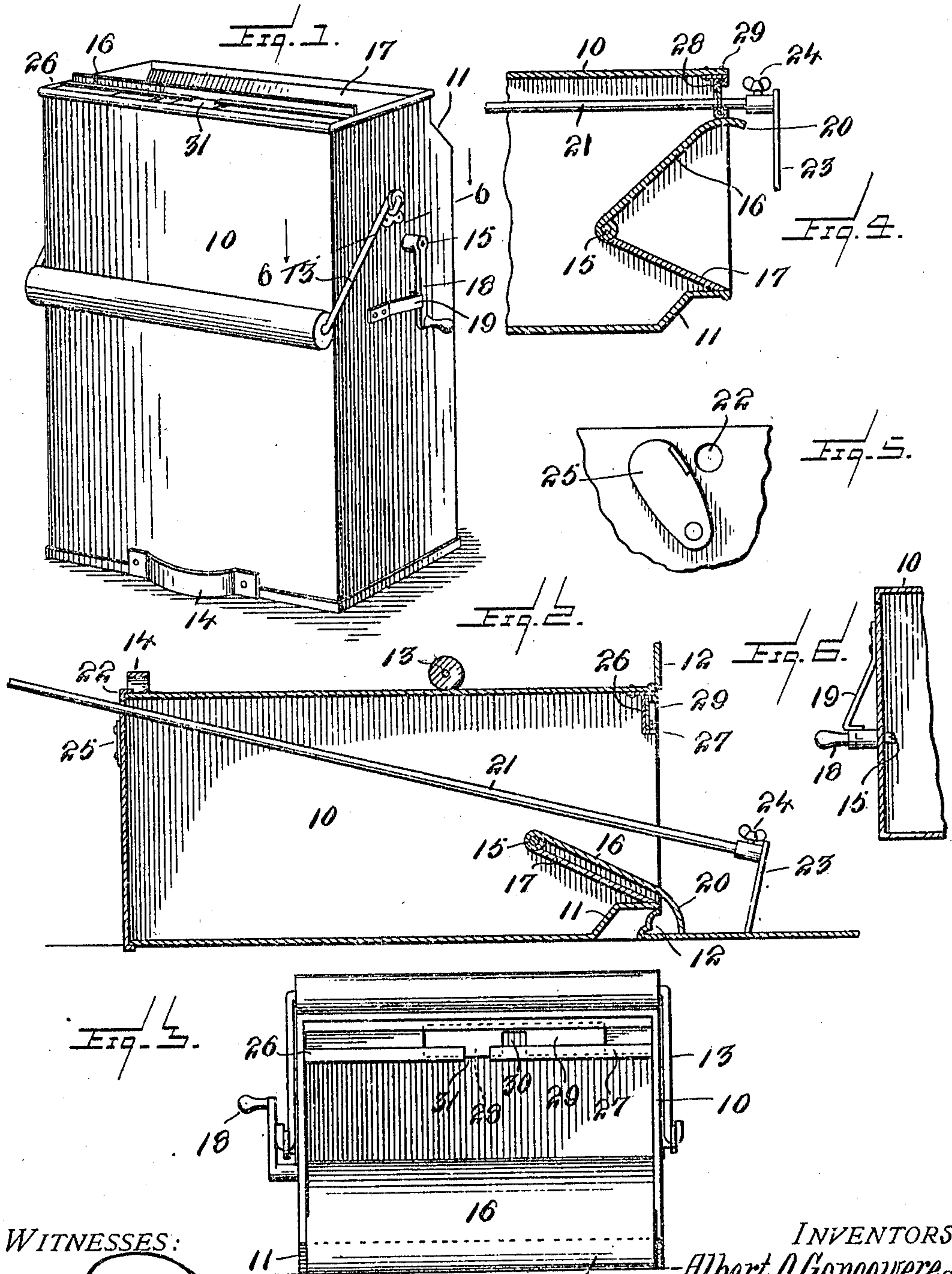
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ASH LIFTER.

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ASH-LIFTER.

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Specification of Letters Patent. Patented Apr. 26, 1910.

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To all whom it may concern:

Be it known that we, ALBERT O. GANGAWERE and ORANGE G. ROMIG, citizens of the United States, residing at East McKeesport, county of Allegheny, and State of Pennsylvania, have invented certain new and useful Improvements in Ash-Lifters, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to an ash lifter, and particularly to a receptacle having a pivoted door or cover adapted to form an incline over which the ashes or other material may be scraped or drawn into said recep-

15 tacle.

The invention has for an object to provide a novel and improved construction of receptacle having a door pivoted thereon to swing outward beyond the end of the receptacle to form an incline over which the material may be drawn by a tool operated from

20 the back of the receptacle.

A further object of the invention is to provide means for supporting the tool within the receptacle when not in use.

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Other and further objects and advantages of the invention will be hereinafter fully set forth and the novel features thereof defined by the appended claims.

30 In the drawing:—Figure 1 is a perspective of the invention; Fig. 2 is a longitudinal section of the receptacle in position for use; Fig. 3 is a front elevation; Fig. 4 is a detail vertical section; Fig. 5 is a detail rear elevation. Fig. 6 is a detail section on line 6—6, Fig. 1.

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The numeral 10 designates the receptacle which may be of any desired size or configuration and is preferably provided with the inset portion 11 upon its under face when in position for use, this portion being adapted to extend over the base of a fire box 12 to which the receptacle is applied for the removal of the ashes therefrom. The receptacle is also provided with the lifting handle 13 by which it may be carried in vertical position, as shown in Fig. 1, and for the purpose of placing in position or dumping a handle 14 is provided at the closed end of

40 the receptacle. Within the receptacle intermediate the walls thereof is a cross bar 15 upon which the doors or covers 16 and 17 are mounted for pivotal movement. If desired the door 16 may be secured to this rod

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and the door 17 loosely mounted thereon. 55 In this construction a handle 18 is applied to the rod for the purpose of oscillating it, and the spring latch 19 secured to the outer wall of the receptacle for the purpose of retaining this handle in contact with its end 60 when the door 16 is in closed position, as shown in Fig. 1. These doors are of different size so that the rod is preferably set at a point at less than midway between the side walls, and the door 16 has a curved or 65 inclined portion 20 which is adapted to extend beyond the end of the receptacle and into an ash pit to form an incline over which the material may be drawn into the receptacle, as shown in Fig. 2.

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For the purpose of moving the material into the receptacle any desired form of tool may be used, and we have here shown a rod 21 which extends through an aperture 22 in the rear of the receptacle and is provided at 75 its forward end with a scraping member 23 removably attached thereto by means of a set screw 24. This member may comprise any desired form by which the larger cinders may be collected and the fine ashes left 80 in the pit to be subsequently removed. The removability of the scraping member permits the rod to be withdrawn from the rear of the receptacle and when so withdrawn the aperture 22 may be closed by means of a 85 pivoted shutter 25 so that no escape of ashes therethrough occurs when the receptacle is in raised position.

Under some conditions it is desirable to retain the scraping tool or its rod within the 90 upper portion of the receptacle when in operative position and for that purpose a holder 26 is provided at the front or open end of the receptacle and comprises the cross piece 27 having overturned edges and a longitudinally extending slot 28, as shown by 95 dotted lines in Fig. 3. Slidably mounted in these overturned edges is a plate 29 provided with a recess 30 which when in alignment with the opening 31 through the overturned edges 27 permits the entrance of the rod 21 into the slot 28, and the slide may then be moved longitudinally to bring the parts into the position shown in Fig. 3 thus supporting the rod of the scraping member 100 in the upper portion of the receptacle.

In the operation of the invention the receptacle is disposed at the ash pit opening,

as shown in Fig. 2, and the inclined door 16 lowered into the position there shown so that any desired tool may be used for removing either cinders or the ashes from the pit into the receptacle. If the receptacle be not filled and it is not desired to remove the scraping member, it may be supported in the position shown in Fig. 4 and the inclined door held in its closed position by means of its operating handle and spring latch over which the handle travels. When it is desired to remove the receptacle for the purpose of dumping the scraping member is detached from its rod which may be withdrawn from the rear and the aperture through which it passes closed so that a tight receptacle is maintained at all times to prevent dust in the removal thereof from the house. In the dumping of the receptacle it is inverted in position and the two doors are swung into a parallel position directly beneath the pivot on which they are mounted, the inclined door being released by depressing its catch for this purpose and thus offer the minimum obstruction to the free discharge of ashes from the receptacle.

It will be seen that the construction is one which permits the direct application of the receptacle to an ash pit and the closing of the receptacle while in that position so as to prevent the escape of dust and ashes therefrom as it is lifted into a vertical position, as shown in Fig. 1, for the purpose of transportation. The removable scraping member permits the use of different characters of tools thereon with a single rod, and the invention is applicable to any character of heating apparatus from which ashes or other material is desired to be removed, and may be also applied to other uses in which it is desired to scrape or draw the material directly into the receptacle.

Having described our invention and set forth its merits, what we claim and desire to secure by Letters Patent is:—

1. In an ash lifter, an open ended receptacle, and a cover member having a pivot within the receptacle intermediate the ends thereof and intermediate the sides of said receptacle which are parallel to said pivot, said cover member being of greater length from its pivot to its free end than the distance of said pivot from the side wall of the receptacle so as to swing outward beyond the open end thereof.

2. In an ash lifter, a receptacle open at one end and provided with an aperture in its opposite closed end, a cover member pivoted within the receptacle intermediate the ends and adapted to swing outward beyond the open end thereof, and a tool having a rod extended through said aperture in the closed end of said receptacle.

3. In an ash lifter, a receptacle open at one end and provided with an aperture in

its opposite closed end, a cover member pivoted within the receptacle intermediate the ends and adapted to swing outward beyond the open end thereof, a tool having a rod extended through said aperture in the closed end of said receptacle, and a pivoted shutter mounted upon said closed end for closing said aperture.

4. In an ash lifter, a receptacle open at one end and provided with an aperture at its opposite closed end, a cover member pivoted thereon and adapted to swing outward beyond the open end thereof, a tool having a rod extended through said aperture in the closed end of said receptacle, and means for supporting said rod at the open end of said receptacle.

5. In an ash lifter, a receptacle open at one end and provided with an aperture at its opposite closed end, a cover member pivoted thereon and adapted to swing outward beyond the open end thereof, a tool having a rod extended through the aperture in the closed end of said receptacle, and a cross piece provided with a longitudinally extending slot to support said rod.

6. In an ash lifter, a receptacle open at one end and provided with an aperture at its opposite closed end, a cover member pivoted thereon and adapted to swing outward beyond the open end thereof, a tool having a rod extended through the aperture in the closed end of said receptacle, a cross piece provided with a longitudinally extending slot to support said rod, and a slide mounted upon said cross piece and provided with an aperture to receive said rod.

7. In an ash lifter, a receptacle open at one end and provided with an aperture at its opposite closed end, a cover member pivoted thereon and adapted to swing outward beyond the open end thereof, a tool having a rod extended through the aperture in the closed end of said receptacle, a cross piece provided with overturned edges and a longitudinally extending slot to support said rod, and a slide mounted within the edges upon said cross piece and provided with an aperture to receive said rod.

8. In an ash lifter, an open ended receptacle, a cover member having a pivot within the receptacle intermediate the ends thereof and intermediate the sides of said receptacle which are parallel to said pivot, said cover member being of greater length from its pivot to its free end than the distance of said pivot from the side wall of the receptacle so as to swing outward beyond the open end thereof, and means for retaining said cover in closed position within the receptacle.

9. In an ash lifter, an open ended receptacle, a cover member pivoted thereon and adapted to swing outward beyond the open end thereof, a handle secured to the pivot of

said cover, and a spring latch adapted to engage said handle when the cover is in closed position.

5 10. In an ash lifter, an open ended receptacle, and swinging cover members having a fixed pivot therein adjacent one end, one member being of greater length than the other and movable to cover the shorter member and extend beyond the receptacle.

10 11. In an ash lifter, an open ended receptacle, cover members therein adjacent one end, one member being of greater length than the other and movable to cover the shorter member and extend beyond the receptacle, a cross rod to which said longer member is secured and upon which the shorter member is pivoted, and means for oscillating said rod.

15 12. In an ash lifter, an open ended recep-

tacle having a lateral inset portion at one side of said open end, and a cover member having a pivot within the receptacle intermediate the ends thereof and intermediate the sides of said receptacle which are parallel to said pivot, said cover member being of greater length from its pivot to its free end than the distance of said pivot from the side wall of the receptacle so as to swing outward beyond the open end thereof and over said inset portion.

In testimony whereof we affix our signatures in presence of two witnesses.

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Witnesses:

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