

No. 890,594.

PATENTED JUNE 16, 1908.

D. S. BARROWS.
DUMPING BUCKET.

APPLICATION FILED APR. 4, 1908.

Fig. 1.

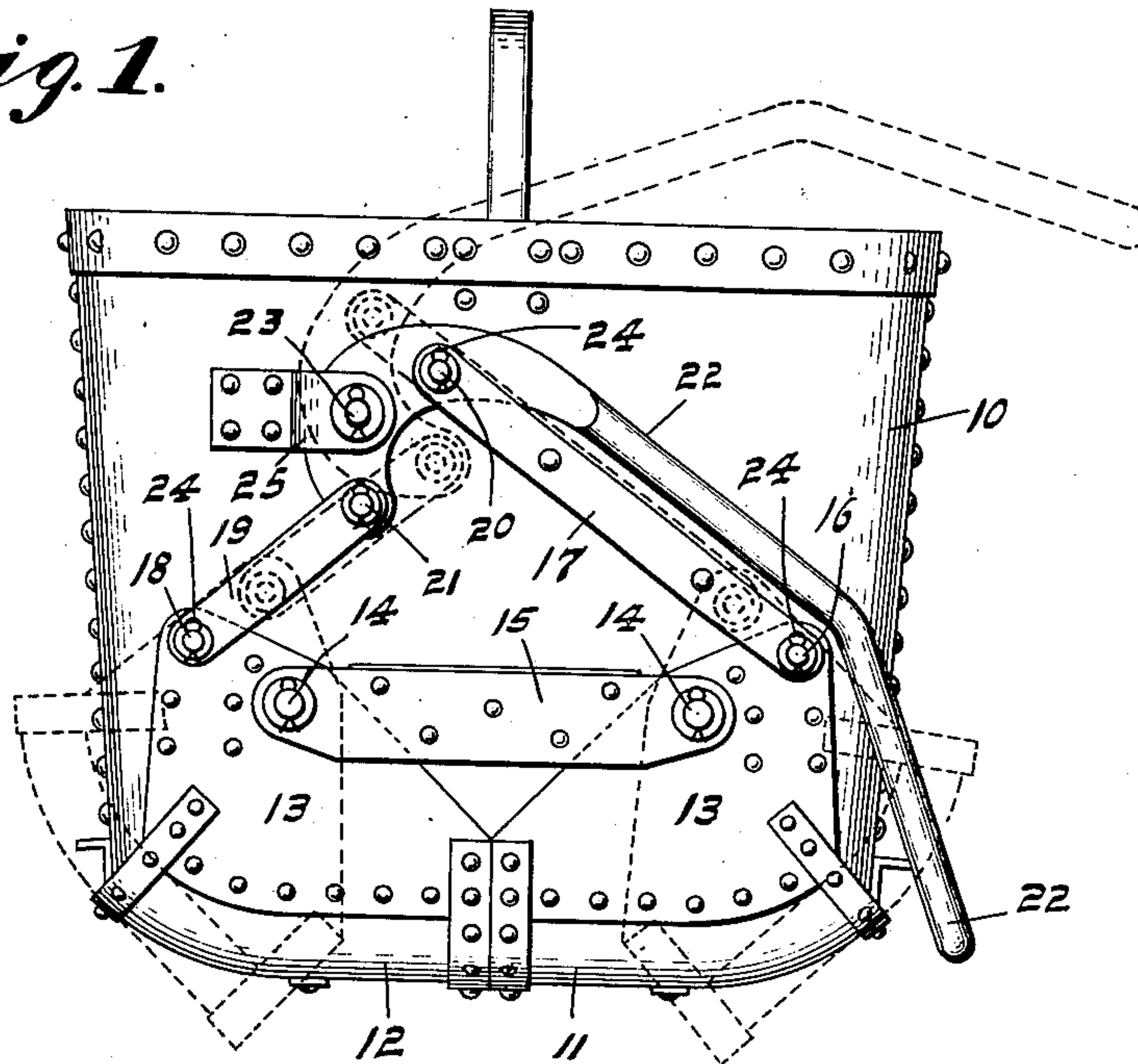
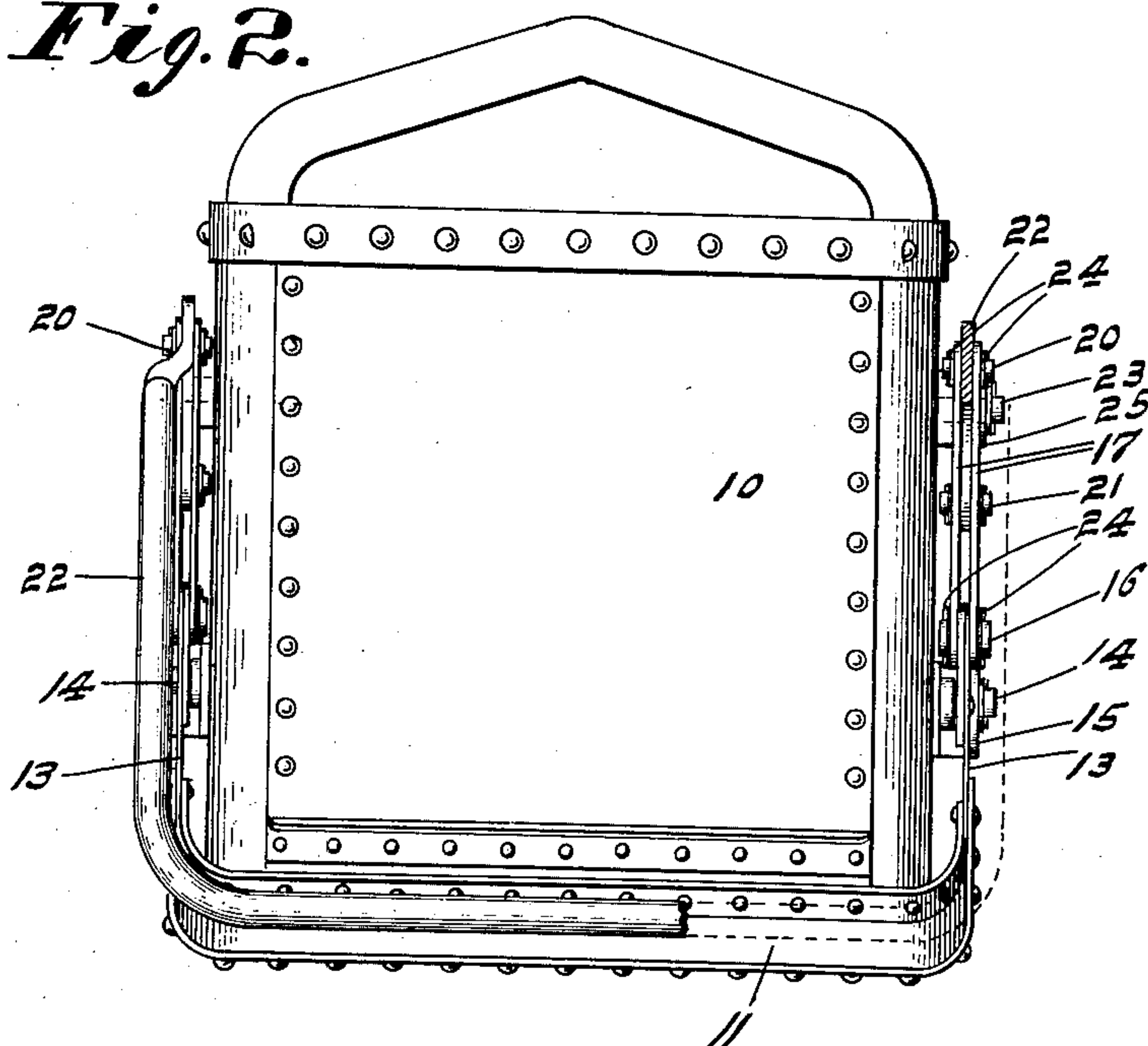


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

DONALD S. BARROWS, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO THE INSLEY IRON WORKS,
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DUMPING-BUCKET.

No. 890,594.

Specification of Letters Patent.

Patented June 16, 1908.

Application filed April 4, 1908. Serial No. 425,132.

To all whom it may concern:

Be it known that I, DONALD S. BARROWS, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Dumping-Buckets, of which the following is a specification.

The object of my invention is to produce a movable bottom structure for buckets, and other similar receptacles, by means of which the discharge of material from the bucket may be readily controlled.

The accompanying drawings illustrate my invention.

Figure 1 is a side elevation of a dumping bucket embodying my invention; Fig. 2 an end elevation with the operating bail partially broken away.

In the drawings 10 indicates a bucket or receptacle of any desired form having an open bottom. Arranged to close the open bottom are two similar doors 11 and 12 each of which comprises, in addition to the suitably curved main or bottom plate, a pair of side plates 13, 13 pivoted upon pins 14, 14, the outer ends of the pins being supported by plates 15 with the side plates 13, 13 lying between the ends of a plate 15 and the adjacent end plate of the bucket 10. Pivotaly secured at 16 to each end-plate 13 of door 11 is one end of a link 17 and pivotaly secured at 18 to each end plate 13 of the door 12 is a link 19. The links 17 and 19, at each end of the bucket, are inclined toward each other and are connected at 20 and 21 respectively to an operating bail or lever 22 on opposite sides of the pivot 23 of said lever.

For cheapness of manufacture I prefer to make each of the links 17 and 19 double and make the pivotal connections between said links and the connected parts by means of short pins passed through the several connected parts and held in place by means of cotter pins 24. Each pin 23 has its outer end supported by a bracket 25, said pin 23, as well as pins 14, 14 being held in position by cotter pins, already described. Any other means for forming the pivotal connections

and supports for the various parts may be as readily used.

The adjacent portions of the bottoms 11 and 12 are substantially straight but at their outer edges said bottoms are curved slightly upwardly and the several pivotal supports and connections are arranged substantially in the relations shown in Fig. 1 so that the doors, with any load applied thereto within the bucket, will be substantially balanced by the weight of the operating bail 22 when said doors are in any of their various positions thus making it possible to readily open or close the doors, either entirely or partially, under any load conditions which may exist, the arrangement of said parts being also such that the two doors will move synchronously in opposite directions.

I claim as my invention:—

1. The combination with an open-bottomed receptacle, of a pair of closing doors therefor, each having upwardly extending sides pivotaly connected to the receptacle, an operating bail pivoted to the receptacle, and a pair of links at each end of the receptacle, said links pivotaly connected to the bail on opposite sides of the axis thereof and extended in opposite directions to and pivotaly connected with the sides of the doors.

2. The combination with an open-bottomed receptacle, of a pair of closing doors therefor, each having upwardly extending sides pivotaly connected to the receptacle, an operating bail pivoted to the receptacle, and a pair of links at each end of the receptacle, said links pivotaly connected to the bail on opposite sides of the axis thereof and extended in opposite directions to and pivotaly connected with the sides of the doors above and outside the axes thereof.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana, this twenty-fifth day of March, A. D. one thousand nine hundred and eight.

DONALD S. BARROWS. [L. s.]

Witnesses:

THOMAS W. McMEANS,
KATHERINE C. FLETCHER.