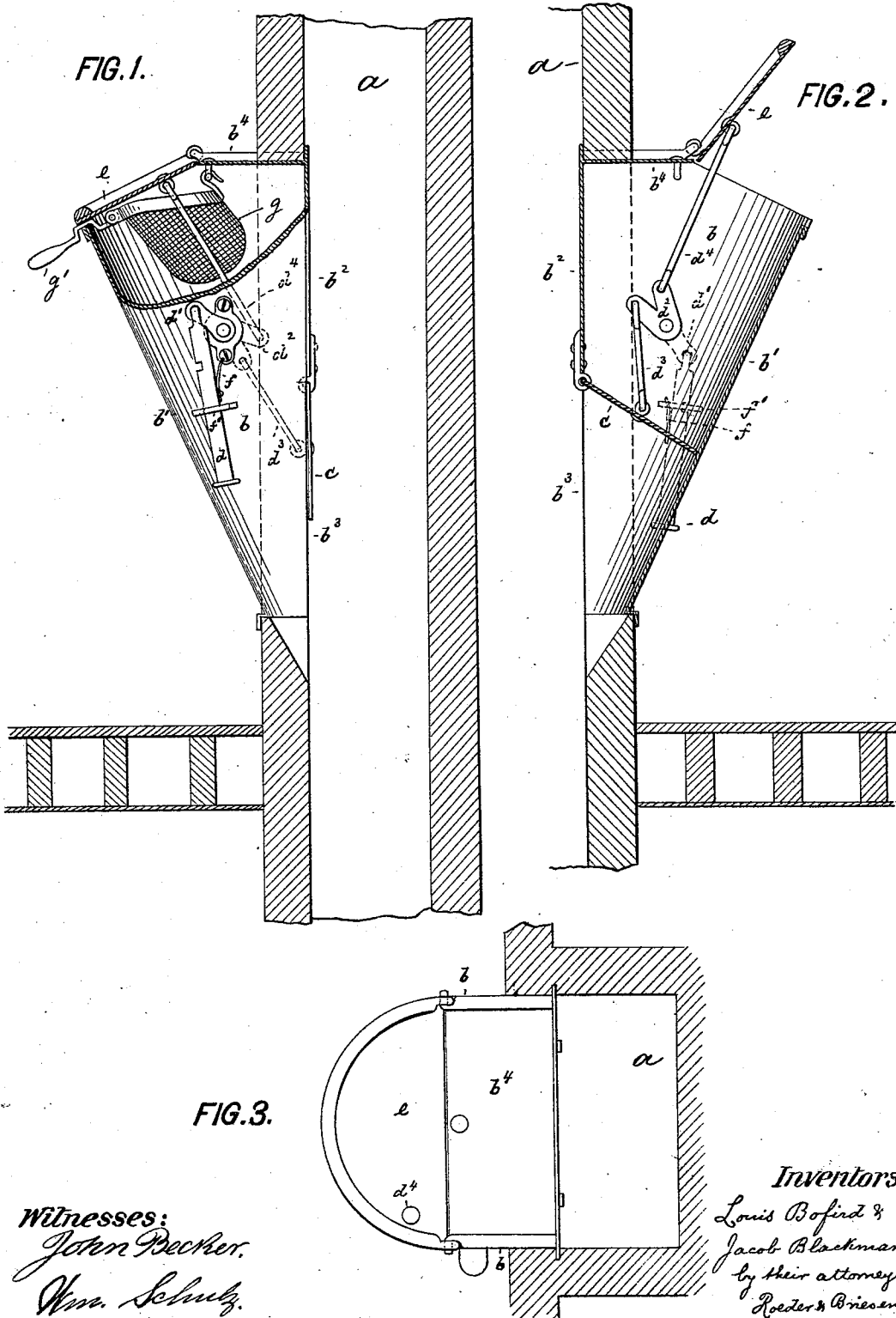


(No Model.)

L. BOFIRD & J. BLACKMAN.
ASH CHUTE.

No. 521,599.

Patented June 19, 1894.



Witnesses:
John Decker.
Wm. Schulz.

Inventors:
Louis Bofird &
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by their attorneys
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UNITED STATES PATENT OFFICE.

LOUIS BOFIRD AND JACOB BLACKMAN, OF NEW YORK, N. Y.

ASH-CHUTE.

SPECIFICATION forming part of Letters Patent No. 521,599, dated June 19, 1894.

Application filed January 3, 1894. Serial No. 495,492. (No model.)

To all whom it may concern:

Be it known that we, LOUIS BOFIRD and JACOB BLACKMAN, both of the city of New York, county and State of New York, have invented an Improved Ash-Chute, of which the following is a specification.

This invention relates to an ash chute which is so constructed, that ashes may be dumped into the chimney without causing any dust to escape into the building.

In the accompanying drawings: Figure 1 is a side elevation partly in section of our improved ash chute, showing the upper lid lowered. Fig. 2 is a vertical longitudinal section thereof, with the upper lid raised and with the screen removed. Fig. 3 is a top view of the chute.

The letter *a*, represents a chimney for conducting the ashes from the various floors of a building into the cellar. Above the floor of each story there is secured within an appropriate opening of the chimney *a*, a chute *b*, into which the ashes are dumped. The front shell *b'*, of the chute is curved and tapers from top to bottom, so that the chute has the form, substantially, of one half of an inverted cone. The back *b²*, of the chute, is shorter than the height of the cone, so as to leave an opening *b³*, at its lower end. To the lower edge of this back there is hinged a lid *c*, which when swung up, closes against the inclined front *b'*, (Fig. 2,) while when swung down, it will form an extension of the back *b²*, without however closing the opening *b³*, (Fig. 1.)

The lid *c*, is operated by a foot bar *d*, pivoted to the arm *d'*, of a bell crank *d²*. This bell crank is pivoted to the shell *b'*, and is connected by a rod *d³*, with the lid *c*, and by a second rod *d⁴*, with a second lid *e*. The lid *e* is hinged to the top plate *b⁴*, of the chute and is adapted to close the mouth of the same.

In use, the foot bar is normally raised and both lids *c*, *e*, are accordingly swung downward. In this position the lid *e*, is closed and the lid *c*, open (Fig. 1.) When ashes are to be dumped into the chute, the foot bar is depressed, to simultaneously open lid *e*, and close lid *c*, (Fig. 2). The ashes are now thrown into the chute and will fall upon the lid *c*. During this operation the foot bar will be retained in its depressed position, against the gravity of the lids and the weight of the ashes, by a leaf spring *f*, secured to the foot bar and engaging a slotted guide *f'*, through which the foot bar passes. When the chute has been thus charged, the foot bar is thrown up, to close lid *e*, open lid *c*, and thus dump the ashes into the chimney.

If desired a screen *g*, may be suspended within the chute by a hook and eye. This screen is provided with a handle *g'*, extending outwardly through a slot of the face plate *b'*, and by which the screen may be shaken while within the chute.

What we claim is—

1. The combination of a chimney with a chute, a pair of lids of which one is open when the other is closed, a bell crank pivoted to the chute, a foot bar pivoted to the bell crank, and a pair of rods that connect the bell crank to the lids, substantially as specified.

2. The combination of a chute with an upper and a lower lid, a foot bar, a bell crank, rods that connect the bell crank to the lids and with a spring and slotted guide for locking the foot bar in its depressed position, substantially as specified.

LOUIS BOFIRD.
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Witnesses:

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