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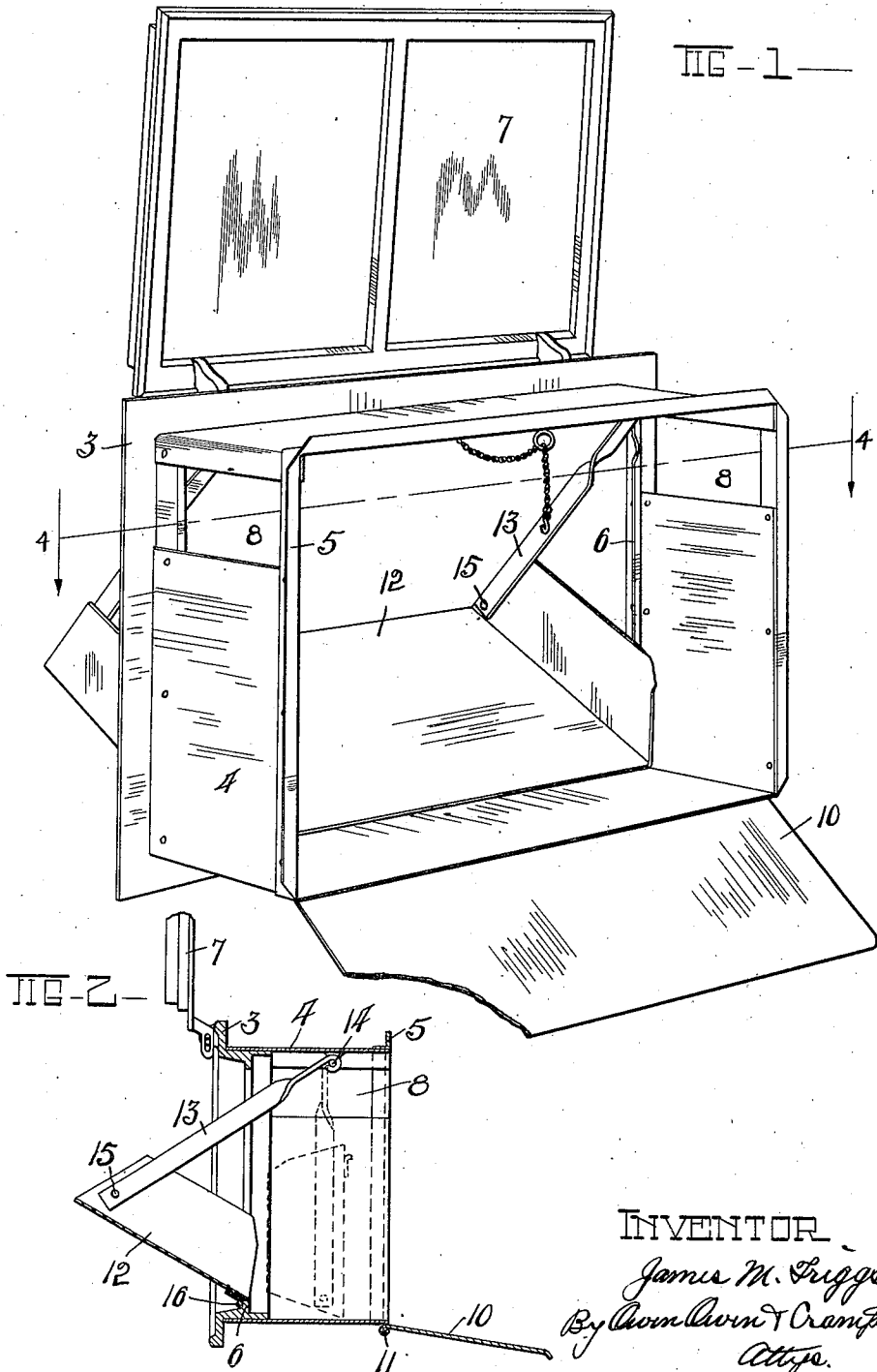
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J. M. TRIGGS

WINDOW CHUTE

Filed Jan. 19, 1922

2 Sheets-Sheet 1



INVENTOR

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By *Chas. W. Crampton,*  
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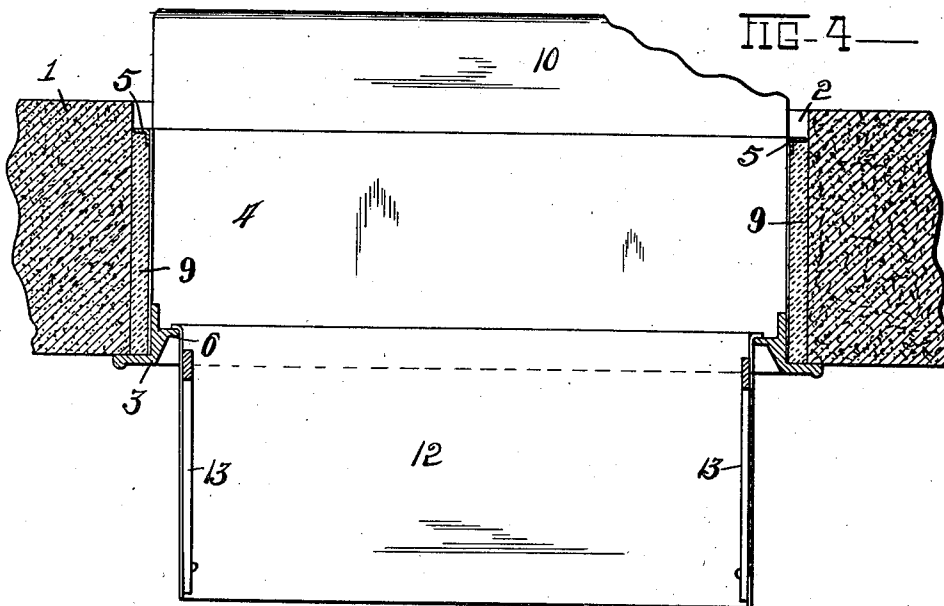
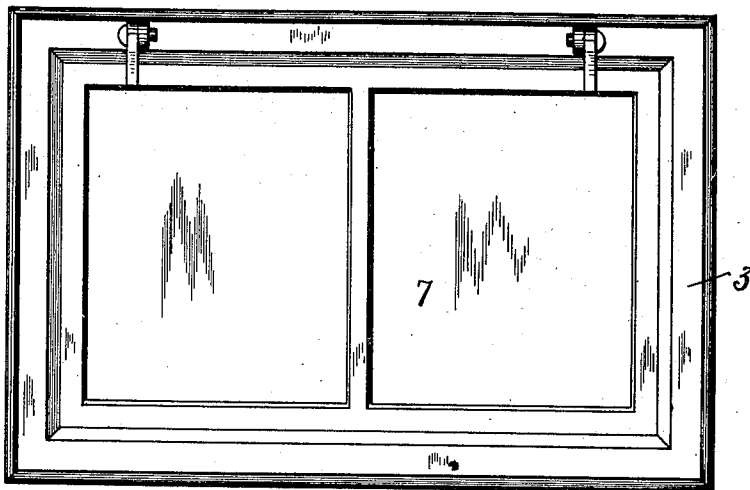
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2 Sheets-Sheet 2

FIG-3



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# UNITED STATES PATENT OFFICE.

JAMES M. TRIGGS, OF HUNTINGTON, INDIANA, ASSIGNOR TO THE MAJESTIC COMPANY, OF HUNTINGTON, INDIANA, A CORPORATION OF INDIANA.

## WINDOW CHUTE.

Application filed January 19, 1922. Serial No. 530,296.

*To all whom it may concern:*

Be it known that I, JAMES M. TRIGGS, a citizen of the United States, and a resident of Huntington, in the county of Huntington and State of Indiana, have made an Invention Appertaining to a Window Chute; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to a combined window frame, closure and chute for use particularly in connection with basement windows.

In the use of apparatus of this character difficulty is experienced in firmly securing the chute frames in window openings, and while the frame may be rigid when first placed in an opening, the throwing of coal, wood or other material therethrough frequently loosens the frame in the opening and creates an objectionable condition.

The primary object of my invention is to construct a chute frame in such manner as to enable it to be easily and quickly mounted in a wall opening and rigidly anchored in position therein in an efficient, inexpensive and permanent manner. Other advantages of the invention will be apparent from the following detailed description thereof.

While the invention in its broader aspect is capable of embodiment in numerous forms, a preferred embodiment thereof is illustrated in the accompanying drawings, in which,—

Fig. 1 is an inner perspective view of a chute frame embodying the invention in open position, with a part broken away. Fig. 2 is a central vertical cross-section thereof with a part broken away. Fig. 3 is a front elevation of the frame with the window in closed position, and Fig. 4 is a horizontal cross-section of the chute frame on the line 4—4 in Fig. 1 anchored in a wall opening.

Referring to the drawings, 1 designates the foundation wall of a house or other building having a basement window opening 2 therein. A chute frame or casing embodying the invention is mounted in the opening and comprises an outer edge frame

3 preferably of cast metal, a casing 4, and an inner edge frame 5 of angle iron, extending, in the present instance, across the top and down the sides of the casing with a flange thereof extending outward from the casing.

The front edge frame 3 is substantially L-form in cross-section with one flange adapted to project into the wall opening in slightly spaced relation to the top and side walls thereof, and with the other flange extending outward and of sufficient breadth to lap the outer marginal edge wall of the opening entirely therearound. A flange 6 is provided in inset relation in the opening of the frame 3 entirely therearound and serves as a stop for a window or closure member 7 to set against, such window being hinged at its top edge to the top portion of the frame.

The casing part 4 of the chute frame is of sheet metal, or other suitable sheet-like material of a substantial nature, and is riveted or otherwise secured to the outer side of the inwardly projecting flange of the edge frame 3 and has top, bottom and side portions. The inner edge frame 5, which is preferably of angle iron is riveted or otherwise suitably secured to the inner edge of the casing.

The outwardly projecting flanges of the edge frames 3 and 5 cooperate with the sides of the casing 4 to form external vertically disposed channels, and each casing side has an opening 8 at or near its top to provide access to such channels from the interior of the chute frame. It will be understood that the depth of the chute frame inwardly from its front edge may be sufficient to suit the thickness of the wall in which disposed. It is customary, however, in manufacturing such chute frames to make them of a size to fit walls of usual thickness.

When a chute frame is inserted in a wall opening the bottom of the casing 4 rests on the bottom wall of the opening and the inner edge bar 5 fits in the opening with the casing side in spaced relation to the side walls of the opening and with the outer edge flange of the frame 4 abutting against the marginal wall of the opening thereby forming pockets between the casing sides and the side walls of the opening. It is intended to fill these pockets with cement or other suitable cementitious material 9 poured in to the pocket through

the openings 8 after the frame has been placed in position in the wall opening. The hardening of the cement causes the chute frame to be secured in the opening in a rigid, efficient and permanent manner.

If the chute frame is used in a wall which is of greater thickness than the depth of the frame the inner edge of the bottom wall of the opening may be protected by an apron 10 from wood, coal or other matter thrown through the chute frame. This apron is hinged to the lower inner edge of the chute frame 11 (Fig. 2) to adapt it to adjust itself to the edge of the wall which it is to protect.

A sheet metal hopper 12 of U-form in cross-section is mounted in the chute frame being connected thereto by links 13, one of which is disposed at each side of the hopper and is pivoted at its upper end to the top of the casing 4 at 14 near the adjacent side of the casing, and is pivoted at its lower end at 15 to the respective side wall of the hopper at the inner side thereof near its front edge. The hopper 12, when not in use, is adapted to be swung to upright position within the chute frame, as shown by dotted lines in Fig. 2, and when in usable position it extends outward on an incline from the front edge of the chute frame, being held in such position by a stop-flange 15 on the bottom thereof near its inner edge bearing against the outer side of the portion of the flange 6 extending across the bottom of the edge frame 3.

I wish it understood that my invention is not limited to any specific construction, ar-

angement or form of the parts, as it is capable of embodiment in numerous forms without departing from the spirit of the claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is,—

1. A chute frame of the class described, comprising inner and outer edge frames and a casing connecting the edge frames and having openings near the tops of the chute frame sides between the edge frames, the edge frames having flanges projecting outward from the casing to cooperate therewith to form vertical channels to receive a cementitious anchoring material when the frame is mounted in a wall opening.

2. A chute frame of the class described, comprising an outer edge frame of substantially L-form in cross-section with one flange projecting laterally from the frame, a casing secured to and extending inward from the other flange of each frame and having openings in its sides near the tops thereof, edge bars attached to the casing sides at the outer sides thereof near their inner edges, the casing sides, the laterally projecting side flanges of the edge frame, and the edge bars cooperating with the side walls of a wall opening in which disposed to form vertical pockets for receiving a cementitious anchoring material introduced therein from the interior of the chute frame through the side openings in the casing.

In testimony whereof I have hereunto subscribed my name to this specification.

JAMES M. TRIGGS.