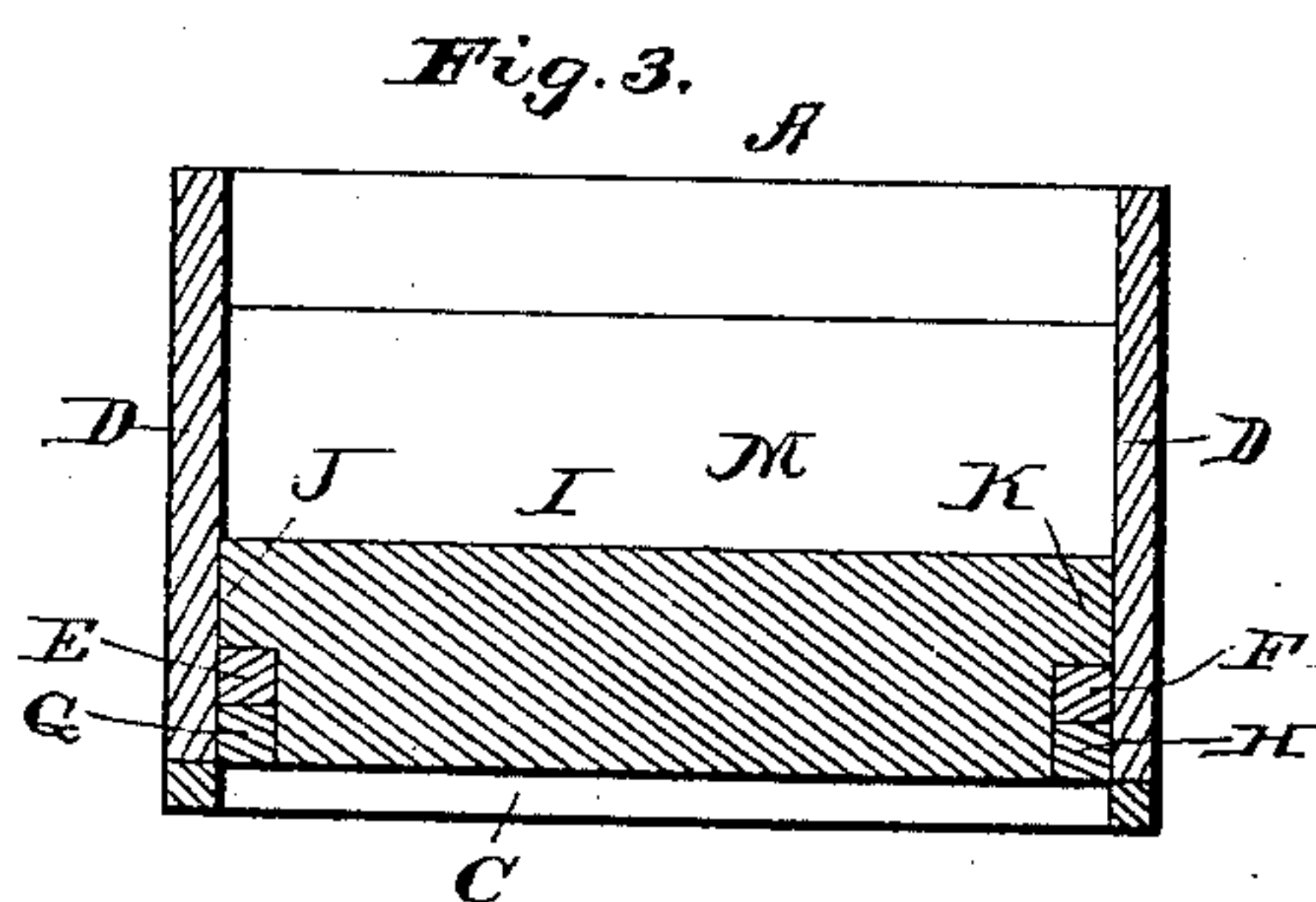
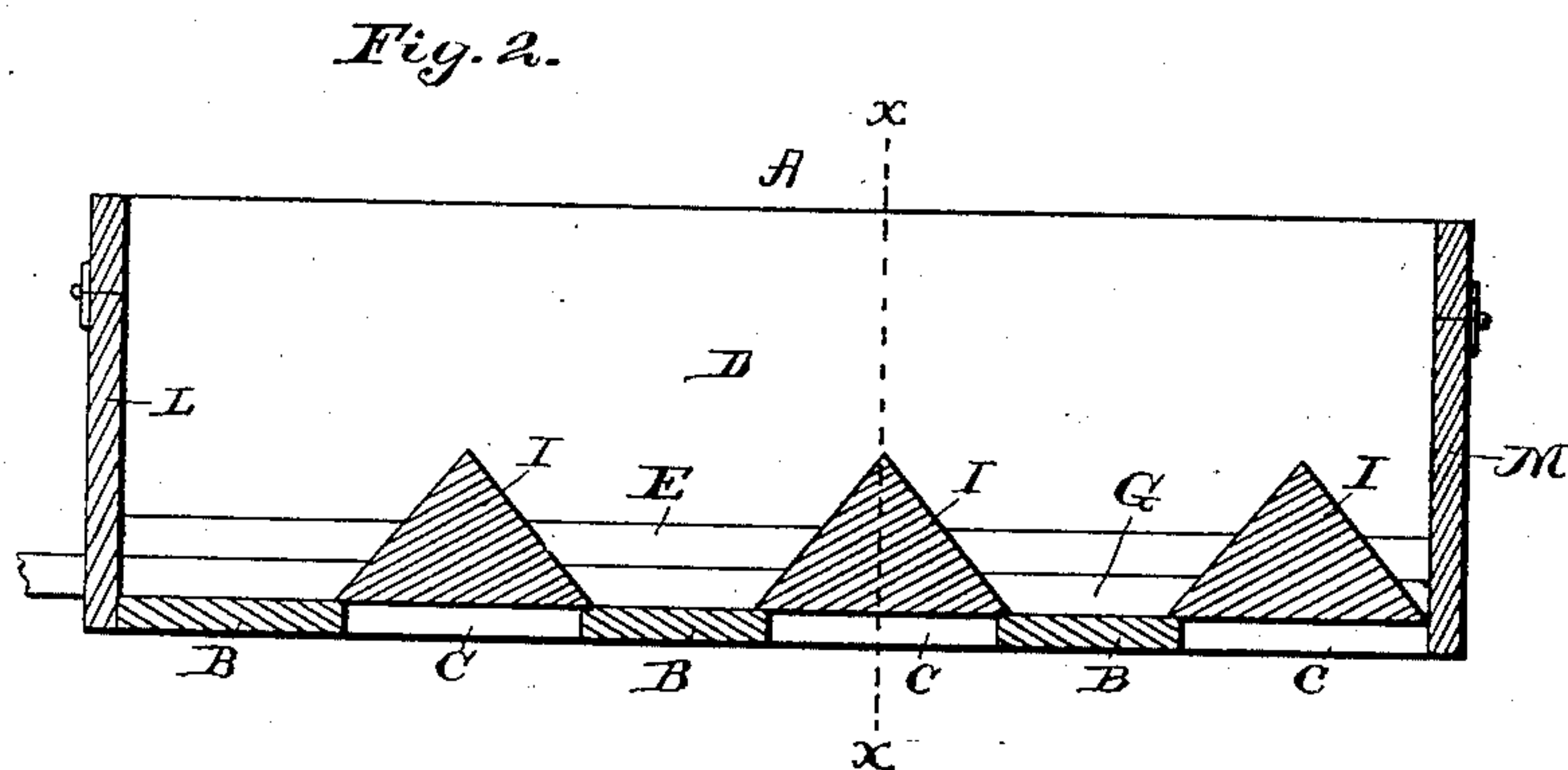
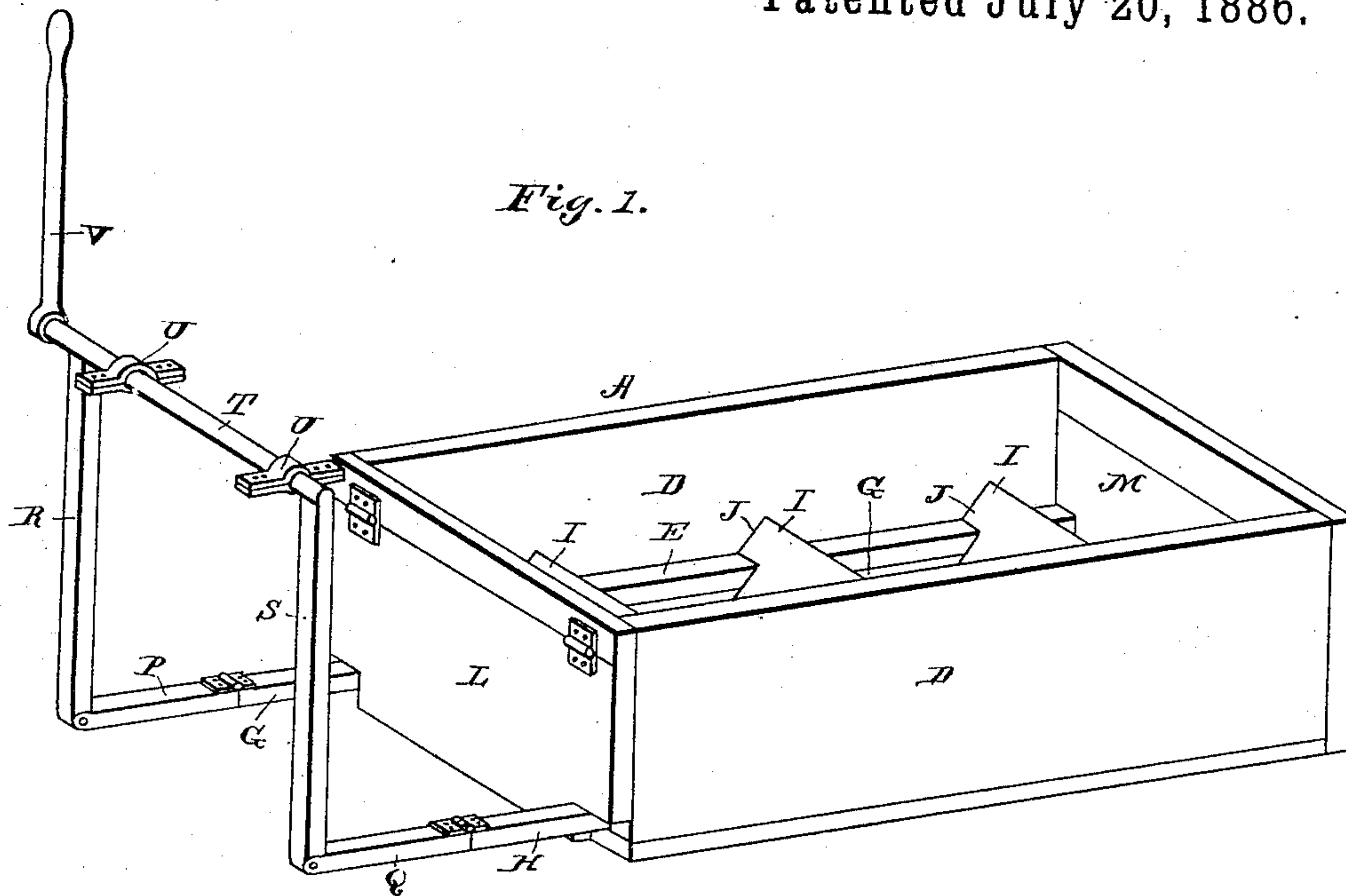


(No Model.)

J. F. HUSSEY.
ASH PAN FOR LOCOMOTIVES.

No. 346,049.

Patented July 20, 1886.



WITNESSES

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UNITED STATES PATENT OFFICE.

JASPER F. HUSSEY, OF NEW VIENNA, OHIO.

ASH-PAN FOR LOCOMOTIVES.

SPECIFICATION forming part of Letters Patent No. 346,049, dated July 20, 1886.

Application filed April 10, 1886. Serial No. 192,500. (No model.)

To all whom it may concern:

Be it known that I, JASPER F. HUSSEY, a citizen of the United States, residing at New Vienna, in the county of Clinton and State of Ohio, have invented certain new and useful Improvements in Ash-Pans for Locomotives; and I do 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 letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a perspective view of my improved ash-pan. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a vertical transverse section taken on line *x x*, Fig. 2.

My invention relates to ash-pans for locomotives; and it consists in the construction and novel combination of parts, as hereinafter set forth, and pointed out in the claim.

The object of the invention is to provide means whereby the ashes may be emptied from the ash-pan without requiring the fireman to go under the engine, as he now has to do.

Referring by letter to the accompanying drawings, A designates the ash-pan, which is provided at its bottom with the wide transverse bars B, having spaces C between them, and upon the inner faces of the side wall, D, of the ash-pan and near the lower edge of said side wall, D, and a short distance above the wide transverse bars B, are two longitudinal fixed guide-strips, E and F, beneath which the longitudinal connecting side bars, G H, slide when in place. The side bars, G H, connect a number of transverse bars, I, said transverse bars I being triangular in shape in cross-section, and having end projections, J K, which are also triangular shape in cross section and rest on the longitudinal guard-strips E and F.

The ash-pan is provided with doors L M—

one at each end—which doors open outwardly and upwardly, and the front door is cut away in its lower corners at N N to permit the passage of the sliding side bars, G H. To the projecting ends of the side bars, G H, are hinged two shorter bars, P Q, and the other ends of said shorter bars, P Q, are pivoted to the lower ends of the arms R S, connected to the transverse rock-shaft or roll-bar T, secured in bearings U in the engine-cabin in front of the furnace. This rock-shaft T is provided with a lever, V, at one end by which to operate the connected transverse triangular (in cross-section) bars, to shake the ashes out of the ash-pan.

In operation it will be seen that when the hand-lever is vibrated by the fireman the sliding bars, through the medium of the rock-shaft and vertical arms R and S, will move the sliding longitudinal side bars back and forth in the ash-pan, thereby discharging the ashes which might lodge upon the transverse prismatic or triangular bars, as well as on the cross-strips, through the opening C.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with the ash-pan having the broad transverse bars with spaces between them, the longitudinal fixed guide-strips, and the hinged doors, one of which is provided with notched lower corners, of the triangular transverse bars having end projections, the shorter bars hinged to the longitudinal sliding side bars, the bars R and S, the rock-shaft or roll-bar secured in bearings and provided with an operating-lever, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

JASPER F. HUSSEY.

Witnesses:

GEO. E. BARROW,

GEO. W. OSBORN.