No. 633,872. Patented Sept. 26, 1899.

F. M. MACKIN.

ADJUSTABLE POURING STAND AND OVERFLOW OR DRIP TROUGH.

(Application filed Mar. 21, 1899.)

(No Model.)

Fig. 3

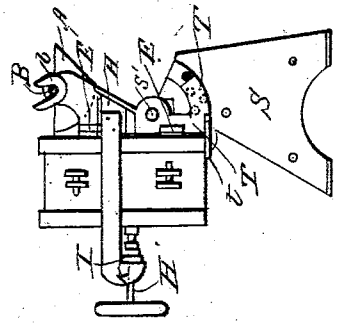


Fig. 2

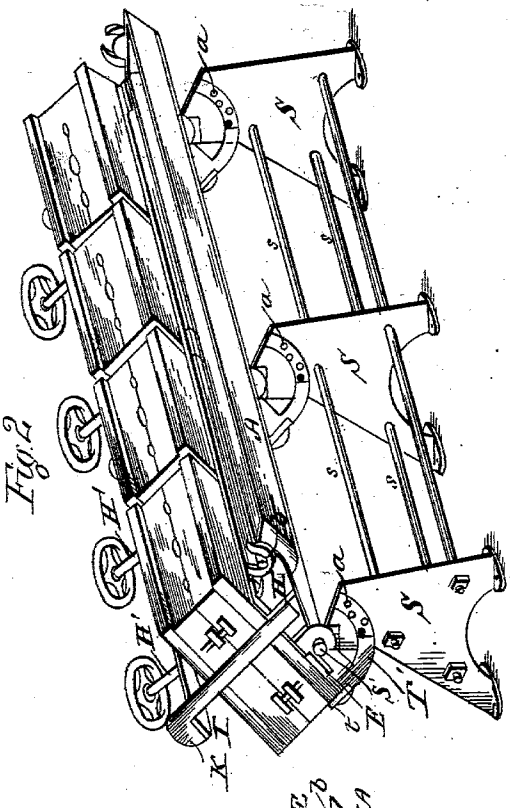
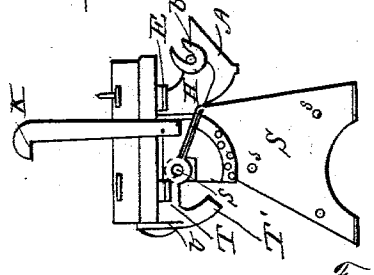


Fig. 1



Witnesses

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UNITED STATES PATENT OFFICE.

FRANCIS M. MACKIN, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE HENRY McSHANE MANUFACTURING COMPANY, OF SAME PLACE.

ADJUSTABLE POURING-STAND AND OVERFLOW OR DRIP TROUGH.

SPECIFICATION forming part of Letters Patent No. 633,872, dated September 26, 1899.

Application filed March 21, 1899. Serial No. 710,006. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS M. MACKIN, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Adjustable Pouring-Stands and Overflow or Drip Troughs; 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.

This invention has relation to adjustable pouring-stands and overflow or drip troughs for casting metals, and has for its object the provision of a novel apparatus designed and adapted to support the molding-flasks in a horizontal position while the cores are being put in position and the mold prepared for casting and in an inclined or vertical position while the metal is being poured, and which is provided with a self-adjusting overflow or drip trough which is raised by the tilting of the frame or table upon which the molds are supported, and which is arranged and adapted to maintain a horizontal position under any adjustment of the flask-supporting frame.

This invention consists in the novel construction, combination, and arrangement of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is an end view of my improved apparatus with the flasks in horizontal position. Fig. 2 is a perspective view of the apparatus complete closed, clamped, and adjusted to a suitable angle for pouring. Fig. 3 is an end view of the apparatus, the flasks being in an upright position.

For the sake of convenience and economy I have shown the flask-supporting stand of a size suitable for the accommodation of four flasks; but this is only a matter of convenience, as the apparatus may be used for supporting one or any convenient number of flasks.

S S S designate the supporting standards or legs for the tilting frame upon which the flasks rest. These standards or legs are connected together by horizontal bolts *s s s*, having nuts on their ends. A horizontal shaft S′ is journaled in the upper and rear portion of the standards or legs S S and has mounted thereon adjacent to the legs or standards the segmental castings T, which serve as supports for the longitudinally-extending bars E E, upon which the flasks rest. These castings are formed with flanges *t*, against which the outer sides of the flasks abut. Depending from the inner ends of these castings are the segmental arms T′, which as the castings T are tilted swing across a series of holes *a a* in the standards S S. The degree to which the castings T T may be tilted is regulated by inserting pins in these holes at suitable points to limit the movement of the segmental arms T′. Brackets or hangers H H, provided with slotted trunnion-bearings *b b*, are formed on or attached to the end castings T and support the overflow or drip trough A, having the trunnions B. This trough maintains a horizontal position in all positions of the flasks and is raised from the position shown in Fig. 1 to the positions shown in Figs. 2 and 3 when the castings are tilted.

The flasks are clamped in position upon the bars E E by means of the clamping-screws H′ H′, having their bearings in a horizontal bar I, which is held in position by shoulders K on the clamp-holding standards C C, which are bolted to the end castings T T of the apparatus.

Having described my invention, I claim—

1. In an adjustable pouring-stand and overflow or drip trough, the combination of a horizontally-pivoted table with means for securing a flask thereon and a drip or overflow trough depending from trunnions having bearings on said pivoted table so as to maintain a horizontal position at all positions of said table, substantially as described.

2. In an adjustable pouring-stand and overflow or drip trough, the combination of suitable standards, castings pivotally attached to said standards, longitudinal bars, connecting the castings and means for securing flasks upon said bars, with a drip or overflow trough trunnioned on said castings and means for limiting the pivotal movement of the castings, substantially as described.

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

FRANCIS M. MACKIN.

Witnesses:
WILLIAM F. TURNER,
HARRY C. MATHIEU.