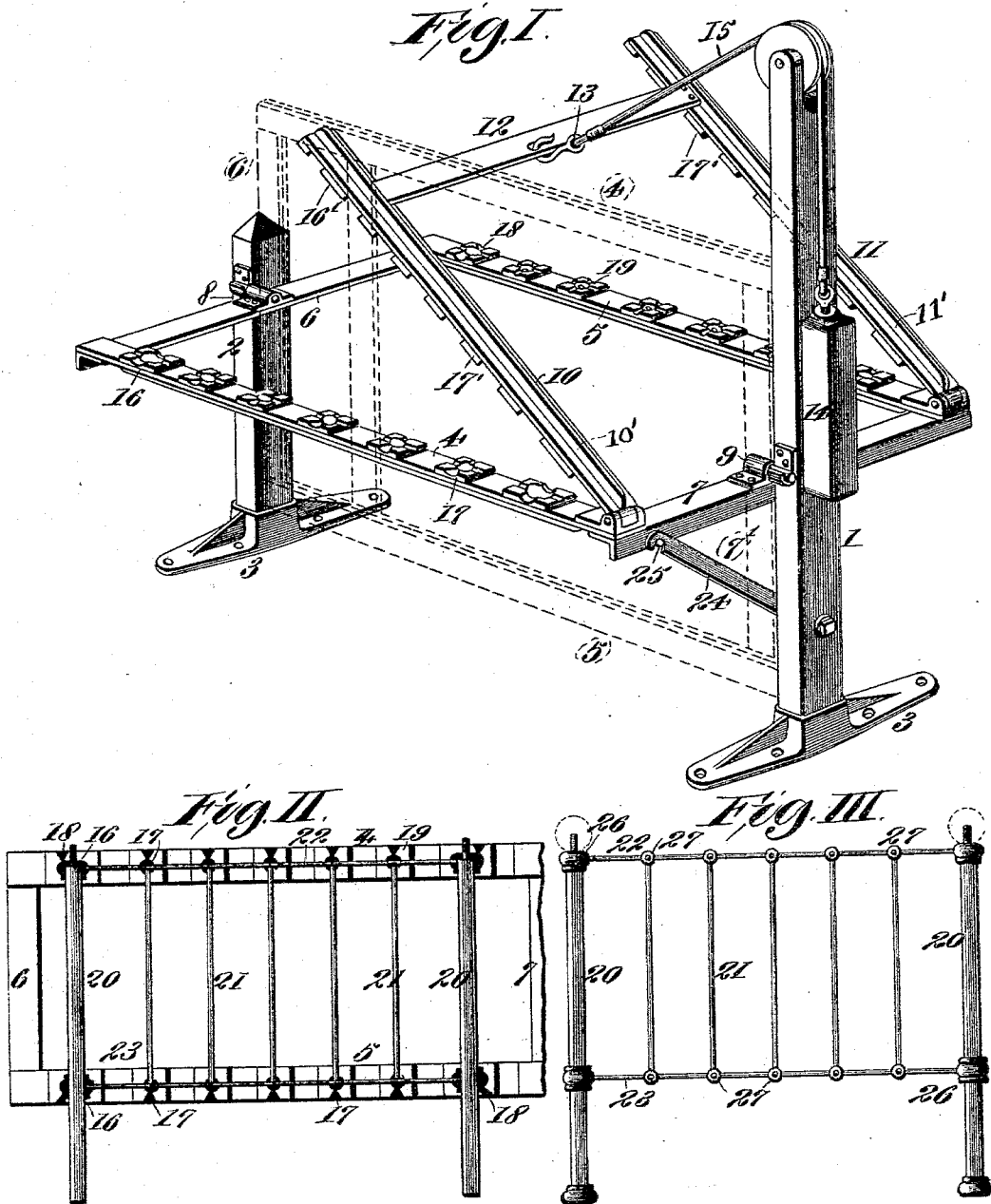


(No Model.)

P. H. MELLON.
MOLD USED IN CASTING METALLIC BEDS.

No. 559,735.

Patented May 5, 1896.



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UNITED STATES PATENT OFFICE.

PETER H. MELLON, OF ST. LOUIS, MISSOURI.

MOLD USED IN CASTING METALLIC BEDS.

SPECIFICATION forming part of Letters Patent No. 559,735, dated May 5, 1896.

Application filed February 3, 1896. Serial No. 577,913. (No model.)

To all whom it may concern:

Be it known that I, PETER H. MELLON, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Molds Used in Casting Metallic Beds, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to a convenient frame which is formed in two parts hinged together and pivotally supported on standards. The frames are adapted to hold the metallic bars of the end pieces of the bed securely in place, while the metal may be poured into the molds about the joints thereof in order that the same may be fastened together.

Referring to the drawings which illustrate my invention, Figure I is a perspective view of the entire device. Fig. II is a plan view showing the bars placed in position on the frame which carries the molds. Fig. III shows an end piece after the bars have been secured by the castings.

1 and 2 are the standards which support the frames and which are suitably secured to the floor by means of plates 3.

4 and 5 are side bars of one part of the frame which carry the drags of the molds, and they are connected with each other at their ends by means of the bars 6 and 7. Midway on the bars 6 and 7 are secured pins 8 and 9, which engage in hooks on the standards, so that the frame can be revolved, for a purpose hereinafter described. Hinged to the right end of bars 4 and 5 are two other similar bars 10 and 11, whose outer or free ends are connected with a cross-piece 12. A detachable hook 13 engages a hole in this bar 12 and is secured to a counterbalancing-weight 14 by means of a rope 15. This rope passes over a pulley attached to the end of the standard 1. The side pieces 4 and 10 carry molds 16 and 17, the drag being secured to bar 4 and the cope 16' being secured to the bar 10, while the bars 5 and 11 carry similar molds, whose parts are arranged in the same manner and relation to each other. These molds on both sides of the frame are of two sizes, the larger 16 being for the posts 20 of the end pieces and the smaller 17 being for the rods 21.

18 are the gates into the molds 16, and 19 are the gates into the molds 17.

22 are the upper and 23 the lower horizontal bars of the end pieces connecting posts 20.

24 is a hook secured to standard 1, engaging pin 25 on the frame to hold the same in a horizontal position.

The device is operated as follows: The posts 20 are laid in the drags of the molds, the lower frame being in a horizontal position with the hinged frame raised, as shown. The rods 21, previously cut to a proper length, are then laid in the drags 17, and the rods 22 and 23 are placed at right angles thereto, channels being provided in the drags therefor. The upper portion of the frame, carrying the copes 16' and 17', which has been held in its elevated position by means of the weight 14, is now lowered and secured to the lower frame by means of the ordinary clamp, and the detachable hook 13 is released. The device is next swung to a vertical position about the pivots 8 and 9, and the molten metal is then poured into the gates 18 and 19 of the molds 16 and 17 on one side of the end piece. Then the device is swung a semirevolution about the pivots 8 and 9 and molten metal poured in the gates 18 and 19 of the molds 16 and 17 on the other side of the end frame. When the metal is set, the frame is placed in a horizontal position again and secured by the hook 24. The hook 13 is again engaged and the upper portion is raised, as shown in Fig. I. The end piece of the bed is then removed, having the rods secured by the castings 26 and 27, formed at the joints thereof, as shown in Fig. III.

In constructing my device I prefer to make the pieces 10 and 11 of iron strips, having ribbed backs 10' and 11', and the cross-pieces 6 and 7 of angle-iron, in order to give the parts greater rigidity and strength.

I claim as my invention—

1. The combination consisting of a frame constructed of two parts hinged together at one end, a number of molds each formed in two parts and one part of each mold carried by each of the frames, and suitable means for supporting said frames so that they can be revolved substantially as shown and described.

2. The combination consisting of standards 1 and 2, a frame formed of side and end

pieces pivoted to said standards, drags carried by the side pieces of the frame, a second frame formed of side pieces and an end piece and hinged to said first frame, copes carried
5 by the side pieces of said second frame and adapted to fit over the drags, means for securing said frames together, and a means of

elevating said hinged portion of the frame, substantially as described.

PETER H. MELLON.

In presence of—

E. S. KNIGHT,

STANLEY STONER.