M. L. BASSETT.

Attachment to Metal Blank Forming Machines.

No. 207,840. Patented Sept. 10, 1878.

Fig. 1.

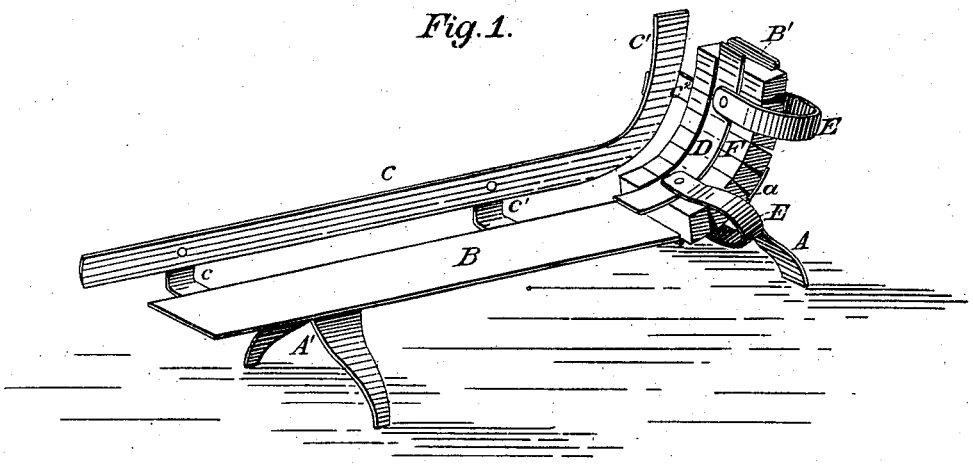
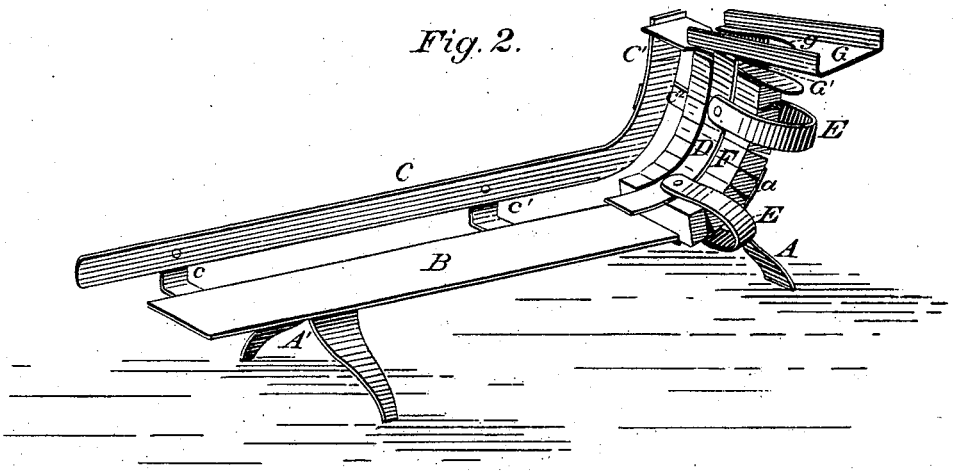


Fig. 2.



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IMPROVEMENT IN ATTACHMENTS TO METAL-BLANK-FORMING MACHINES.

Specification forming part of Letters Patent No. **207,840**, dated September 10, 1878; application filed January 31, 1878.

To all whom it may concern:

Be it known that I, MARSHALL L. BASSETT, of West Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Attachments to Machines for Forming Metal Blanks; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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 of reference marked thereon, which form a part of this specification.

The object of my invention is to provide an attachment for die-operating presses, rolls, and other analogous devices or machines, whereby the blanks of malleable metal will be regularly laid in order as received from the dies, for convenience in packing.

The nature of said invention consists in a metallic guideway, constructed and braced substantially as hereinafter set forth and claimed, the same being an improvement on the device secured to J. H. Baird by Letters Patent No. 90,914, June 8, 1869.

In the accompanying drawings, Figure 1 is a perspective view of my attachment in its simplest form, adapted to be applied to die-operating presses or punches. Fig. 2 is a perspective view of the same with an inclined trough added, to adapt it to be used with rolls.

A designates one of the supports of my attachment, and A′ the other, a long flat inclined platform or guide-plate, B, being secured in any convenient manner firmly upon the same. The end B′ of said guide-plate nearest to support A is curved almost vertically upward, and is braced by a similarly-curved plate, *a*, formed on the upper end of support A. The latter is made somewhat lower than support A′, so that there is an incline in said guideway from the end nearest to support A′ to the curved part B′.

C designates a supplemental or end guide, which consists of a narrow plate arranged on edge parallel to the edge of plate B, and having an upwardly-curved part, C′, corresponding to B′. Said end guide is supported by curved plates c c^1 c^2, which are firmly attached at their other ends to the under or rear side of plate B, and is arranged at a little distance therefrom.

D designates a curved plate, which corresponds to the shape of B′, and is arranged a little in front of the same. Its lower end extends a short distance beyond the curve in the main guide-plate B, and is parallel to the inclined flat part thereof. Said plate D is supported by curved plates E, which are rigidly attached to curved part B′ of main guide-plate B.

Said parts B′, C′, c^1, D, and E E together partly inclose a passage-way, which receives at the top the blanks as they come from the dies, and delivers them regularly in order on edge at the lower end, ready to be packed away. In so doing the handle of the blank is guided partly by curved plates E E and partly by the parts B′ and D above described, and the edge or end of the blade or bowl is guided by the curved part C′ of end guide, C. The incline of guide-plate B tends to prevent the blanks from falling from their edges to their faces as delivered, which would insure the disorder of all succeeding ones.

F designates wooden blocks, which fill the passage above described at the outset of the operation, but which are gradually forced downward as the blanks are fed in above them. They are removed as discharged from the lower end of the passage. Their office is to support the blanks until there is a sufficient number of these latter to support themselves.

G, Fig. 2, designates an inclined trough, recessed at *g* to correspond to the form of the blanks, and adapted to transmit the latter from the rolls to the upper end of the guideway above described. It is supported by means of plate G′ from curved part B′ of the main guide-plate B, and delivers the blanks between the upper end of said curved part B′ and the curved plate E. This trough is not used when the attachment is applied to a punch or press for operating dies.

The press or punch forces the blanks one after another into and along the guideway, no other feeding device being needed.

The space between inclined plate or platform B and end guide-plate, C, and also the partly-open construction of the curved end of the attachment and the entire openness of

plate B, except at the curved part B′, enable the operator to readily reach the blanks from behind, from one side, and from below at any stage of their progress, and to set right any accidental displacement or change of position.

This attachment may be used in connection with the manufacture of many different kinds of metal blanks, and I therefore do not confine it to any particular application. Its form and construction may be considerably varied without departing from my invention.

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

An attachment to blank-forming machines, provided with a guiding-plate arranged at some distance from the edge of the delivery-plate or platform, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

MARSHALL L. BASSETT.

Witnesses:
GEORGE TERRY,
WILLIAM HOPSON.