M. SHORE.
Mold for Plow-Shares.

No. 214,848. Patented April 29, 1879.

Fig. 1.

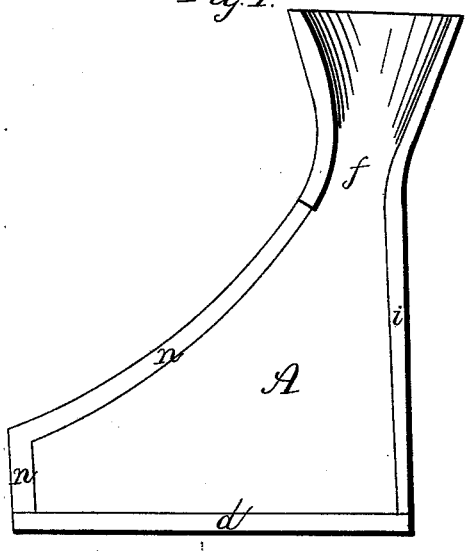


Fig. 2.

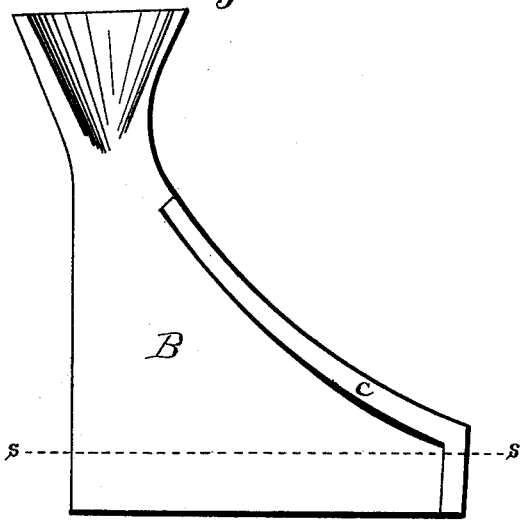
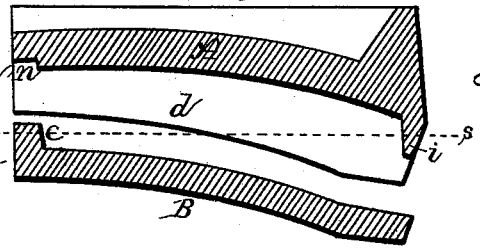


Fig. 3.



Witnesses:
J. W. Garner.
H. S. D. Haines.

Inventor:
Mark Shore
per F. A. Lehmann
Atty

UNITED STATES PATENT OFFICE.

MARK SHORE, OF ALLEGHENY, PENNSYLVANIA.

IMPROVEMENT IN MOLDS FOR PLOWSHARES.

Specification forming part of Letters Patent No. **214,848**, dated April 29, 1879; application filed March 19, 1879.

To all whom it may concern:

Be it known that I, MARK SHORE, of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Molds for Plowshares; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in molds for plowshares; and it consists in providing one part of the mold with a rabbet or shoulder, fitted to a corresponding projection or flange on the other part, so that a square edge is formed on the casting, instead of a thin knife-like edge, as is now customary. The fitting together of the mold also removes the difficulty of holding its parts in position during the process of casting, since both are held the one by the other, and only require a clamp to perfectly secure them.

In the present mode of casting plowshares the edges are made thin, and are consequently mostly ragged when taken from the molds. By my improvement the edges are made smooth and of a uniform thickness, which, by hammering, is not only brought to the required sharpness, but the steel of which they are made is also considerably improved.

The accompanying drawings represent my invention.

Figures 1 and 2 are side elevations of the two halves of the molds, taken from their inner sides. Fig. 3 is a vertical cross-section of the mold, the parts being slightly separated.

One part of the mold is represented by the letter A, and the other by B, the two when united forming a perfect mold. The part A has a rabbet, *n*, which, beginning in front at a bottom flange, *d*, and following the form of the mold, terminates abruptly near the contracting neck *f*. At the bottom of the part A is a flange, *d*, which here closes the mold; and at its rear, extending upward, is another but narrower flange, *i*, terminating at the neck *f*, determining the thickness of the heels of the shares to be cast. The part B has a flange, *c*, which, when joined to the part A, fills the rabbet *n*, and is adjusted to leave a vacant space between the two parts A and B, to give the required thickness to the front part of the shares. The hind part of B joins the flange *i*, and in closing the mold forms, in conjunction with the part A, the neck *f*.

The advantages I claim for my improvement are—

First, the two parts A and B, when placed together, support one another, and cannot slide from their position when held by a lateral pressure, which can readily be applied by means of a single clamp, whereby the difficulty of holding the parts together is easily overcome.

Second, I give to the plowshares an edge of uniform thickness, not sharp, but blunt, to be hammered to an edge of suitable sharpness, instead of a thin ragged edge, now usually cast. By so doing the steel is improved by the hammering, and possesses greater strength than when cast thin.

Third, the mold may be readily changed to make lighter or heavier castings by altering the depth of the flanges, thereby reducing or increasing the capacity of the vacant space between the parts A and B.

Having thus described my invention, I claim—

A mold for casting plowshares, consisting of the two parts A B, the part A having the two flanges *d i* and rabbet *n*, and the part B having the flange *c* to fit in the rabbet *n*, substantially as shown.

In testimony that I claim the foregoing I have hereunto set my hand this 12th day of March, 1879.

MARK SHORE.

Witnesses:
GEORGE NIMMO,
RICHARD SAUNDERS.