J. Hunton's,
Casting Ploughshares.

No. 75.919. Patented Mar. 24. 1868.

Fig. 1.

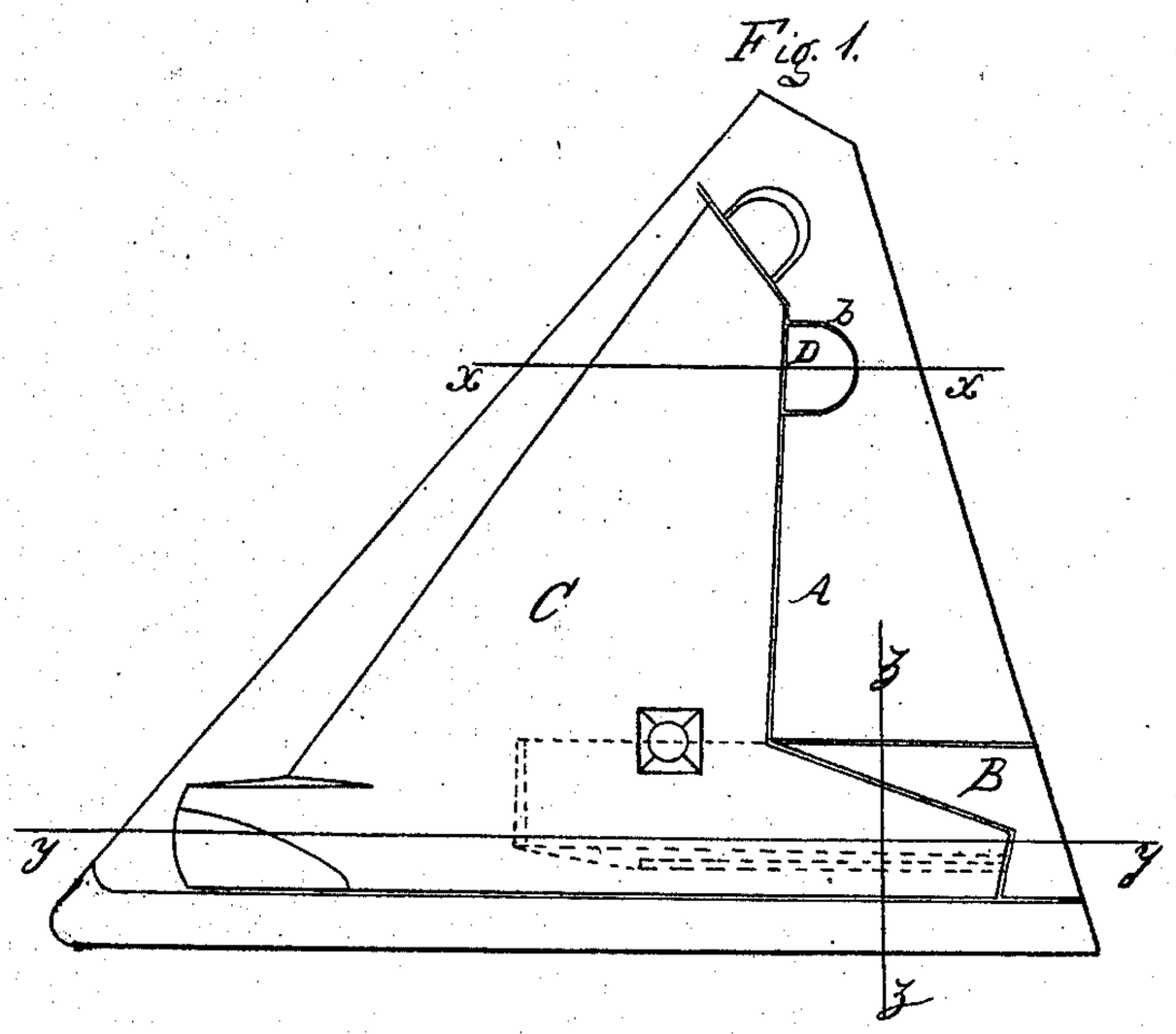


Fig. 2

Fig. 3.

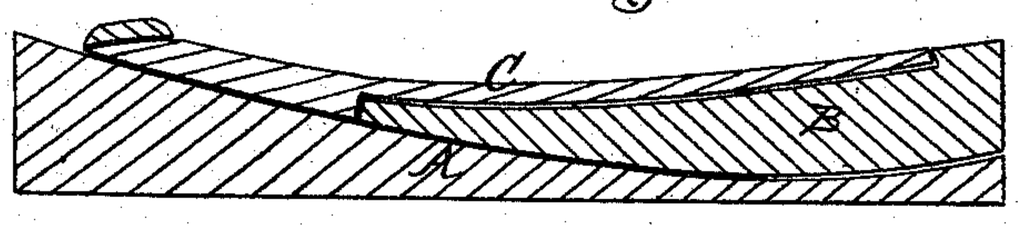
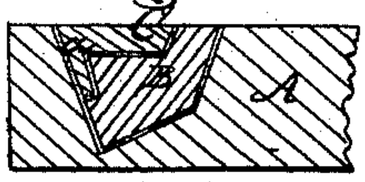


Fig. 4.



Witnesses.
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JONATHAN HUNTON, OF HACKENSACK, NEW JERSEY, ASSIGNOR TO HIMSELF AND L. FREELAND, OF SAME PLACE.

Letters Patent No. 75,919, *dated March* 24, 1868.

IMPROVED MODE OF CASTING PLOUGHSHARES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JONATHAN HUNTON, of Hackensack, in the county of Bergen, and State of New Jersey, have invented a new and useful Improvement in Casting Ploughshares, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

This invention is designed to admit of casting, with an iron mould, those ploughshares which are provided with a lug or projection to fit into a staple or socket on the mould-board, and which are also provided with a pendent land-side projection, having an oblique position relatively with the upper surface of the share. Shares of this kind have hitherto been cast in sand-moulds, for the reason that they could not be drawn from cast-iron ones, and consequently the advantage of a chill has hitherto been lost in casting them.

My invention consists in providing the cast-iron chill-plate with detachable portions, arranged in such a manner that said portions, after the casting is made, may be removed, and the casting readily taken from the mould. In the accompanying sheet of drawings—

Figure 1 is a plan or top view of the chill-plate of the mould.

Figure 2, a section of the same, taken in the line *x x*, fig. 1.

Figure 3, a section of the same, taken in the line *y y*, fig. 1.

Figure 4, a section of the same, taken in the line *z z*, fig. 1.

Similar letters of reference indicate like parts.

A represents the cast-iron chill-plate, which is of the usual form, corresponding to the shape of the bottom or under surface of the share to be cast, the top of the mould being of sand, as the chill is required for the under surface of the share. The portion B of this chill-plate is made or cast separate from the other or main part, so that it may be removed when required, and this part B is at one side of the groove or depression in the chill-plate, in which the pendent land-side *a* of the share C is cast, as will be fully understood by referring to fig. 4. This pendent land-side has an oblique position relatively with the top of the share, (see fig. 4,) sufficiently so to prevent the casting being drawn from a cast-iron mould if the latter were all in one piece, but by having the part B removable or detachable, and drawing it out backward from the chill-plate, the casting may be readily drawn from the former. The chill-plate A has an indenture or depression, *b*, in it, in which a cover, *d*, is fitted. This cover does not fully fill up the depression *b*. A space is allowed to receive the melted metal and form a lug or projection, *c*, as shown clearly in fig. 2. This lug or projection fits into a socket on the mould-board, and holds the outer end or part of the share in place. It answers in lieu of a bolt. It will be seen that this lug could not be cast with a chill-plate without the cover D, the removal of which admits of the withdrawal of the casting.

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

The employment or use, with the chill-plate A, for casting ploughshares, of the removable or detachable parts B D, either or both, arranged substantially as and for the purpose set forth.

JONATHAN HUNTON.

Witnesses:

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