(No Model.)

G. A. WHITE.

MOLDER'S DRAW IRON.

No. 383,203. Patented May 22, 1888.

Fig. 1.

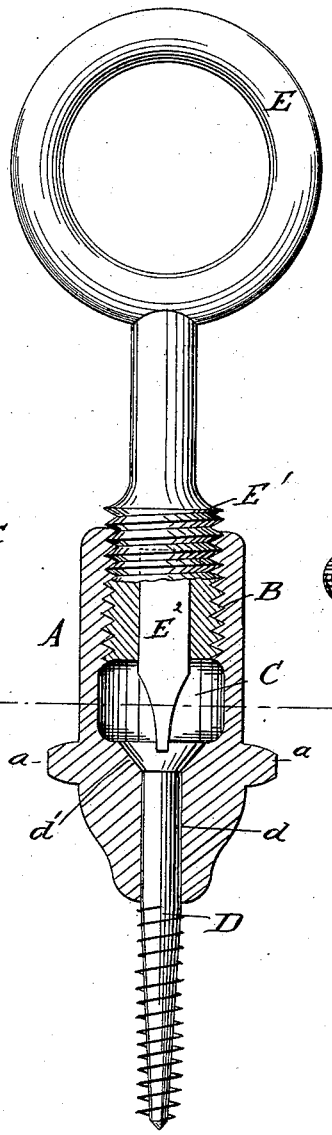


Fig. 2.

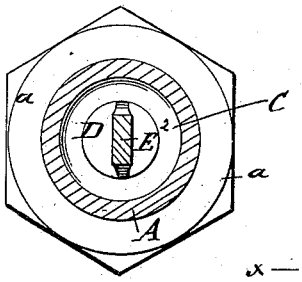
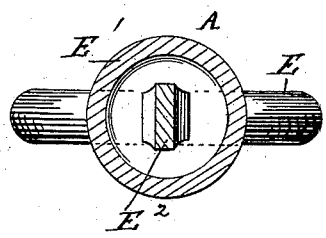


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE ALDEN WHITE, OF SHARON, ASSIGNOR OF ONE-HALF TO WILLIAM HENRY BENSE, OF CANTON, MASSACHUSETTS.

MOLDER'S DRAW-IRON.

SPECIFICATION forming part of Letters Patent No. 383,203, dated May 22, 1888.

Application filed April 4, 1887. Serial No. 233,592. (No model.)

To all whom it may concern:

Be it known that I, GEORGE ALDEN WHITE, of Sharon, in the county of Norfolk and State of Massachusetts, have invented new and Improved Molders' Draw-Irons, of which the following is a full, clear, and exact description.

My invention relates to a draw-iron for molders' use; and the object of the invention is to provide a device for the ready and accurate withdrawal of a pattern from the mold, and wherein the screw may be replaced when worn in a short time and at little cost.

The invention consists in the construction and combination of the several parts of the iron, as will be hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation, partly in section, of the draw-iron; and Fig. 2, a horizontal section on line *x x* of Fig. 1, looking down. Fig. 3 is a horizontal section, upon line *x x* of Fig. 1, through the driver, looking up.

In carrying out the object of the invention, a thimble, A, is constructed, preferably circular in form, having below the center a hexagonal head, *a*, whereby a wrench or key may be used, and a reduced lower end below said head.

From a point corresponding with the upper surface of the head *a* upward the thimble A is tubular, the upper portion, B, being threaded and the lower portion formed in a chamber, C. From the chamber C, leading centrally downward through the lower end of the thimble, an aperture, *d*, is provided about the diameter of an ordinary wood-screw, and that portion of the said aperture *d* leading in the chamber C is inclined upward and outward to form a countersink, *d'*, for the head of the wood-screw D, adapted to enter the aperture *d*, as illustrated.

A circular handle, E, is formed with a threaded shank, E', having a central vertical angular socket, into which fits the stem of the detachable screw-driver E^2. If the screw-driver should get broken or require sharpening, it may be readily removed. The lower end of shank E' is entered into the thimble A and screwed to its threaded portion, the screw-driver engaging the slot in the screw D, as shown in Fig. 1.

In operation the wood screw is made to enter the pattern, and by means of the attachment of the handle with the screw the said screw may be so controlled in entering the pattern as not to depress or jar the same and thereby trouble the sand.

One great advantage of my draw-iron consists in the fact that ordinary wood-screws are employed, and therefore as one screw wears out it may be quickly replaced at a minimum cost.

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

In a molder's draw-iron, the combination, with the internally-threaded thimble having a removable wood-screw projecting therethrough, of the handle having a threaded shank provided with a socket, and a detachable screw-driver fitting in said socket and engaging the screw, substantially as set forth.

GEORGE ALDEN WHITE.

Witnesses:

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