

D. N. CODDING.
Molders' Drawing-Screws.

No. 150,291.

Patented April 28, 1874.

Fig. 1.

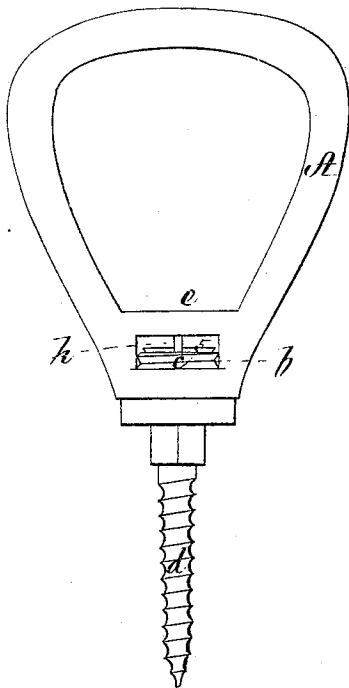


Fig. 2.

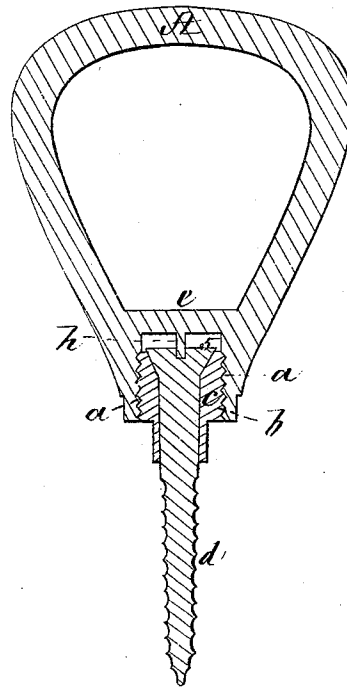


Fig. 3.

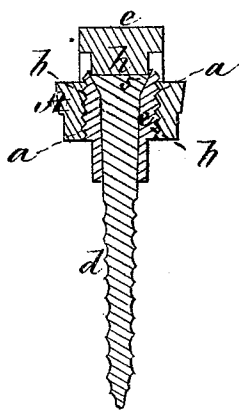
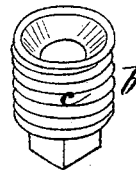


Fig. 4.



Witnesses,
W. W. Stearns
W. J. Cambridge

Inventor,
David M. Coddington

UNITED STATES PATENT OFFICE

DAVID N. CODDING, OF NEPONSET, MASSACHUSETTS.

IMPROVEMENT IN MOLDERS' DRAWING-SCREWS.

Specification forming part of Letters Patent No. **150,291**, dated April 28, 1874; application filed March 24, 1874.

To all whom it may concern:

Be it known that I, DAVID N. CODDING, of Neponset, in the county of Norfolk and State of Massachusetts, have invented certain Improvements in Drawing-Screws for Removing Patterns from Molds and for other purposes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is an elevation of my improved drawing-screw. Figs. 2 and 3 are vertical sections through the same; Fig. 4, detail in perspective.

Heretofore it has been customary to remove patterns from molds by means of a screw having its handle permanently attached thereto. This screw, by continued contact with the sand collected in the screw-holes previously formed, soon becomes worn out, and the entire tool is rendered unfit for further use.

To avoid the loss of the handle of the screw, and to utilize it for any number of screws, is the object of my invention, which consists in a handle so constructed as to admit of a screw being readily removed when worn out and a new one substituted therefor, whereby the same handle can be used for any desired length of time.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A represents a handle made in the form of a loop for the entrance of the fingers therein. Within the lower end of

this handle is formed a female screw-thread, *a*, for the reception of a male thread, *b*, cut on the outside of a cylindrical thimble, *c*, through the center of which is formed a circular opening for the passage of an ordinary wood-screw, *d*, the upper end of the thimble being reamed out to form a cavity of a size and shape corresponding to the head of the screw *d*, which is snugly countersunk therein. Extending across the lower end of the handle, a short distance above the female screw *a*, is a transverse piece, *e*, provided on its under side with a narrow projection, *h*, which, when the screw *d* is brought up by the screwing in of the thimble, fits into the groove in the head of the screw, by which it is prevented from turning independently of the handle.

From the foregoing it will be seen that when the screw *d* becomes worn out from contact with the sand it can be readily removed by unscrewing the thimble and a new screw substituted therefor, thus enabling me to use the handle for any desired length of time.

What I claim as my invention, and desire to secure by Letters Patent, is—

The handle A, with its projection *h* and screw-thread *a*, in combination with the thimble *c* and screw *d*, constructed and operating substantially as described, for the purpose set forth.

Witness my hand this 18th day of March, A. D. 1874.

DAVID N. CODDING.

In presence of—

N. W. STEARNS,
W. J. CAMBRIDGE.