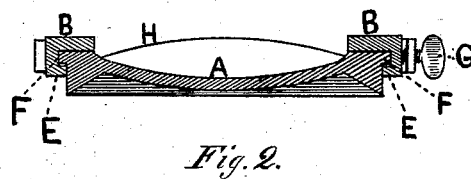
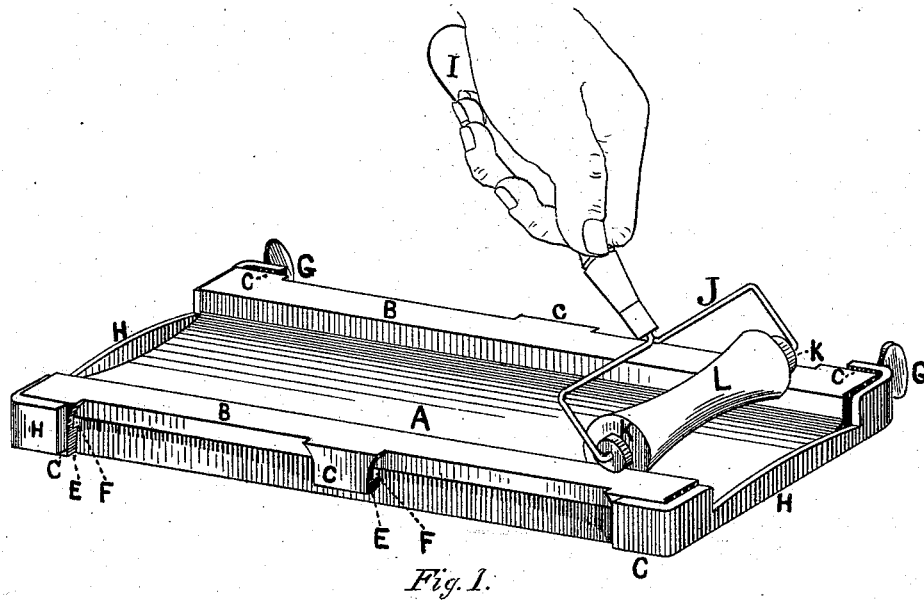


A. T. WHITEHOUSE.
Core-Box.

No. 217,438.

Patented July 8, 1879.



Witnesses:

H. S. Talbot
W. R. Marble

Inventor:

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UNITED STATES PATENT OFFICE.

ARTHUR T. WHITEHOUSE, OF SOMERVILLE, MASSACHUSETTS.

IMPROVEMENT IN CORE-BOXES.

Specification forming part of Letters Patent No. **217,438**, dated July 8, 1879; application filed September 13, 1878.

To all whom it may concern:

Be it known that I, ARTHUR T. WHITEHOUSE, of Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Core-Boxes, of which the following is a specification.

The object of my invention is to provide a core-box with side guides, which may be retained in exact position against the force tending to displace them by the core material or sand-mud working in between the guide and core-box, as is frequently the case when constructed in the old form, as now in general use; and a further object is to provide a slicker-roll to press the material forming the core into the core-box without liability of cracking or separating the plastic material when forcing the same into the core-box by the "sliding slicker" heretofore employed in displacing and removing the surplus material beyond the amount necessary to fill the box, as heretofore; and it consists in the combination and arrangement of lugs having hooked ends secured to the side guides, which engage with suitable projections formed upon the sides of the core-box, and held in position by the usual metal clamps; and also in a "rotary presser" or "revolving slicker" provided with a suitable handle, to which the roll of desired form is pivoted or journaled, as hereinafter more fully described and set forth.

Figure 1 represents a perspective view of my invention as in actual use. Fig. 2 is a view of a transverse section of the core-box.

A represents the core-box of any desired form, provided with the side guide-pieces B B, having the downward-projecting lugs C C C, which are provided with hooked ends E E E, which hold under the projections F F F on each edge or side of the core-box A, as shown in Fig. 2. H H represent clamps of the usual construction, which are applied to each end,

as shown in Fig. 1, and are held temporarily in place by the set-screws G, as heretofore.

The side guides B B thus adjusted, the core-box is filled with the usual plastic material for forming the core, the upper surface of which is ready to receive the proper form by the sliding slicker; and to remedy this defect I employ a rotary slicker, as shown in Fig. 1, composed of a roll, L, journaled to a handle, I, by the wire frame J, the ends K of the roll L resting or bearing upon the top of the two guide-pieces B, as shown, being rolled back and forth over the material until it is evenly and thoroughly pressed into the core-box, after which it is removed and finished in the usual manner.

By means of the above-described devices I am enabled to form an elliptic or thin-edged core with well-defined edges, and remove the same from the core-box without injury in an expeditious manner, thus producing a superior core for use in casting hollow ingots, to be drawn into seamless tubing.

Having thus described my invention, what I claim is—

1. In combination with the core-box A, having projections F, the guide-pieces B, having lugs C and hooked ends E, substantially in the manner described, as and for the purposes set forth.

2. In combination with the core-box A, provided with side guides B, the rotary slicker-roll L, having gage-journals K K, adapted to roll upon and having ends bearing against the inner face, the parallel guides B, so as to form the upper surface of an elliptic core, to correspond with that formed in the box, substantially as set forth.

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Witnesses:

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