

J. B. Crowley,

Molders' Flask-Clamp.

N^o 51,995.

Patented Jan. 9, 1866.

Fig. 1.

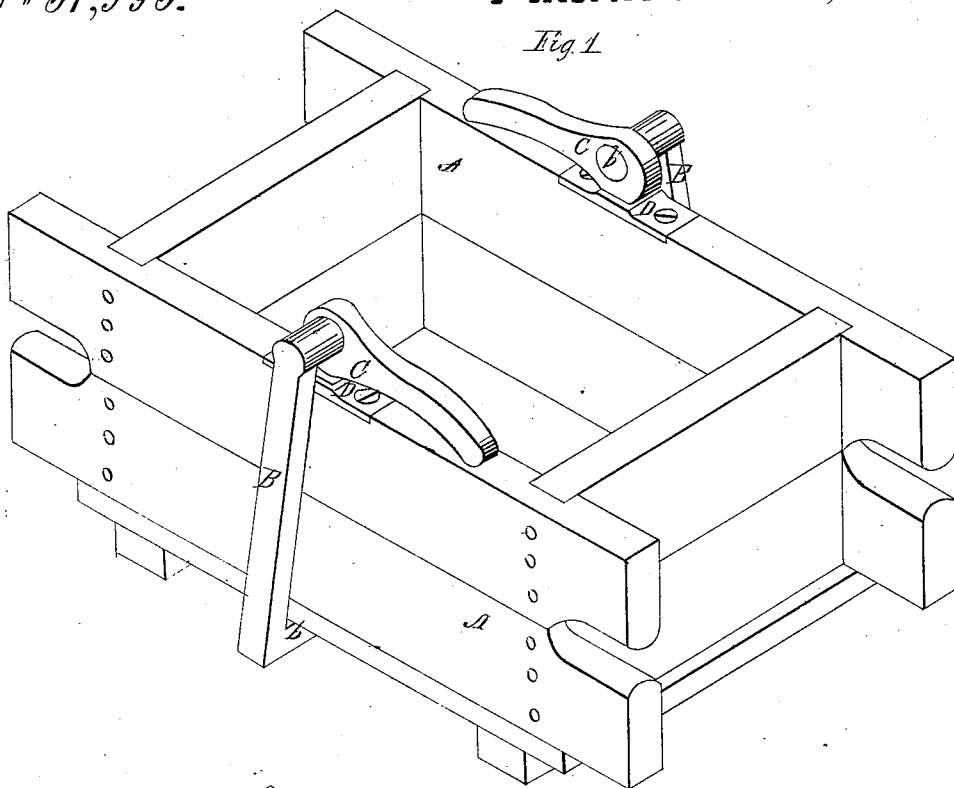
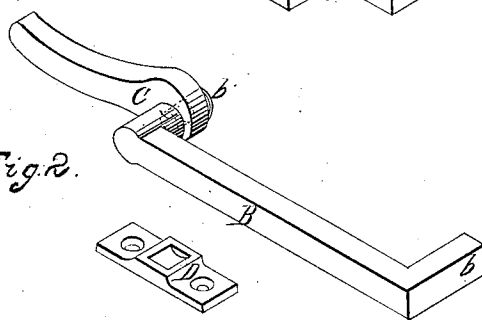


Fig. 2.



Witnesses:

*Geo. B. Nicholson
James H. Layman*

Inventor:

*J. B. Crowley
By *R. H. B. B.*
*Attest**

UNITED STATES PATENT OFFICE.

JOHN B. CROWLEY, OF CINCINNATI, OHIO, ASSIGNOR TO HIMSELF AND
CHAMBERLAIN & CO., OF SAME PLACE.

IMPROVED MOLDER'S CLAMP.

Specification forming part of Letters Patent No. 51,995, dated January 9, 1866.

To all whom it may concern:

Be it known that I, JOHN B. CROWLEY, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Clamp for Molders' Flasks, &c.; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to an improvement in clamps whereby the shoulders of the hook or hooks can be brought to bear more readily and with less injury to the flasks or other objects than any form now in use.

Figure 1 is a perspective view of a clamp and flask embodying my improvements. Fig. 2 is a perspective view of my clamp and shoe, detached.

A is a common molder's flask. B is a hook, working on one end of which as a pivot is a cam-headed lever, C. D is a metal shoe fastened securely to the flask A, and into which the cam is made to fit.

The parts of a flask having been placed one on top of the other, the shoulder *b* of the hook B is placed in such a position on the under side of the flask that the lower side of the cam sets loosely in the shoe D. The lever is now pressed down until the high side of the cam comes into the shoe, thus raising the hook after the manner of a wedge, and thereby firmly securing together the several parts.

My invention presents superior advantages over the old forms of hooks and pries or wedges. It is all in one piece, and consequently more easily cared for, doing away with the vexation of losing one of the parts and rendering the other useless—an incident of not unfrequent occurrence; but its most prominent point is the rapidity and ease with which it performs its office.

In the common methods of clamping flasks a double-headed hook is used, sometimes with

a wedge driven between one shoulder of it and the top of the flask until the proper strain is brought to bear, or the hook is alone employed, an end catching on the under side of the flask and the other projection being pried, by means of a lever, along the top of the flask until the object is effected. The latter method has an additional serious objection in the wearing out of the flask by the rough action of the lever and hook. By the use of my shoe even the slight wear on the wood my lever might occasion is avoided.

I secure economy in construction by forming my clamp entirely in the sand. The cam C being first cast, and having its eye properly greased or faced to prevent adhesion, the cam is laid in the mold and the hook B, with its pin or pivot *b'*, is cast in one piece in the cam, so that my clamp may be made wholly in the foundry.

I have selected for illustration a form of clamp adapted for the use of molders, that being the chief object of my improvement; but I do not desire to restrict my invention to such, as the principle is manifestly applicable to other purposes, such as holding together the parts of a pattern or piece of furniture after gluing, &c.

In practice I construct my molder's clamp of cast-iron; but wrought-iron or other metal or material may serve, according to the object or purpose to which the clamp is to be applied.

I claim herein as new and of my invention—

The use of the shoe D, in connection with the hook B and cam-headed lever C.

In testimony of which invention I hereunto set my hand.

J. B. CROWLEY.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.