H. H. GARRETT.

Molders' Flask.

No. 167,890. Patented Sept. 21, 1875.

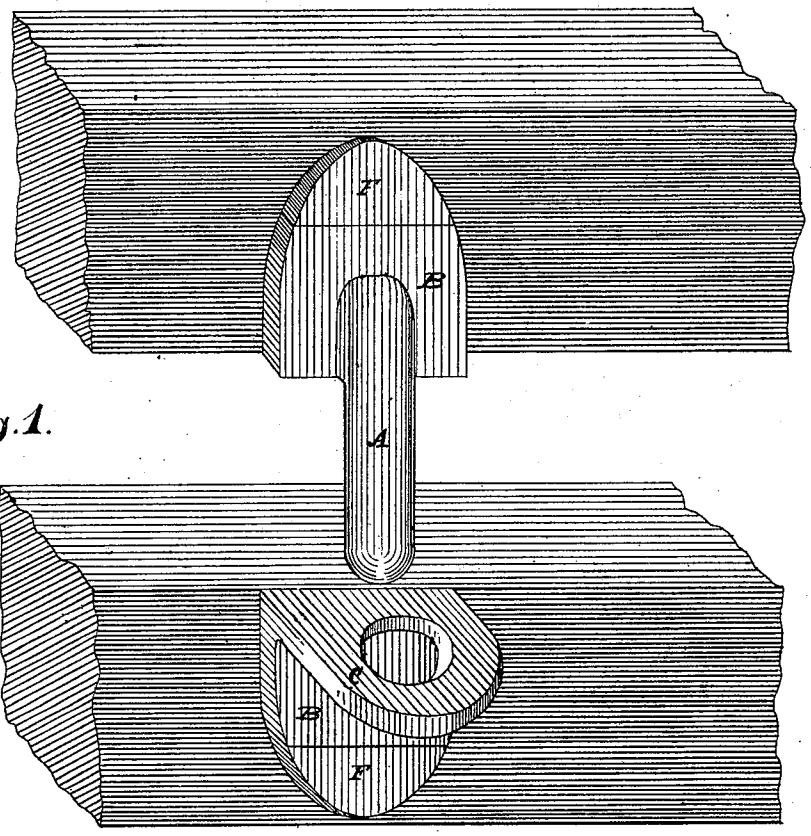

Fig. 1.

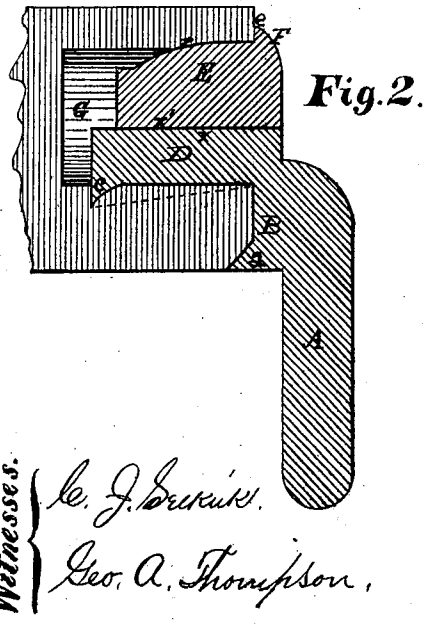

Fig. 2.

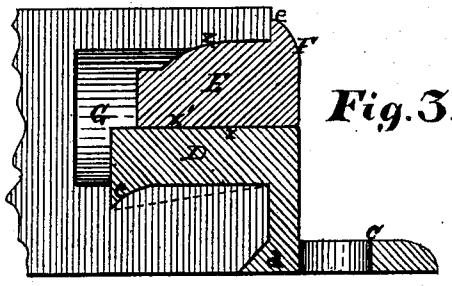

Fig. 3.

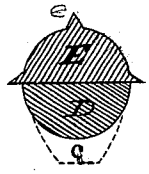

Fig. 4.

Witnesses:
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Inventor.

UNITED STATES PATENT OFFICE.

HENRY H. GARRETT, OF ALBANY, NEW YORK.

IMPROVEMENT IN MOLDERS' FLASKS.

Specification forming part of Letters Patent No. **167,890**, dated September 21, 1875; application filed May 20, 1875.

CASE B.

To all whom it may concern:

Be it known that I, HENRY H. GARRETT, of the city and county of Albany, State of New York, have invented certain new Improvements in Pins and Eyes for Molders' Flasks; and I do hereby declare that the following is a description thereof, reference being had to the accompanying drawings forming a part of this specification, in which—

Figure 1 represents a section of two parts of a flask, with the steadying-pin and eye, embodying the improvements in this invention, and attached thereto. Fig. 2 is a cross-sectional view of the steadying-pin and its key, secured in place in the wood of the flask. Fig. 3 is a cross-sectional view of the eye and its key, secured in place in the side of the flask. Fig. 4 is a cross-sectional view taken at lines No. 1 in Figs. 2 and 3.

My invention relates to steadying-pins and eyes for molders' flasks, and consists in the combination, with a plate-bracket carrying the pin or eye, of an attaching-pin, having a spur on its wood side at some point back of the said plate-bracket, and a key, in such a manner that, when the attaching-pin is inserted in a hole made in the side of the flask and the key is driven in the same hole on the opposite side from the spur, the said spur may be driven or sunk into the wood in a direction at right angles with the holding-pin; the object of this invention being to secure the plate-bracket and its pin or eye firmly to the sides of the flask, and prevent its shifting or displacement, by a key that may be readily removed, that, in the event of a pin or eye being broken the molder may, by the use of a new duplicate piece, after removing the old piece by a withdrawal of the key, replace the broken piece, and thereby obviate all necessity for its removal to the carpenter's shop for the necessary repair, as now required.

To enable others skilled in the art to make and use my invention, I will proceed to describe it in reference to the drawings and the letters of reference marked thereon, the same letters indicating like parts.

In the drawings, A represents the steadying-pin, cast solid with the plate-bracket B, and starting from the face of the same in the manner shown in Figs. 1 and 2. C represents the eye, also cast to the similar plate-bracket B, and standing at right angles from the same, as in Figs. 1 and 3. Made with the plate-bracket B, employed with both the pin A and eye B, is the lip *a*, made solid with said bracket, and on the side opposite from the said pin or eye employed. Cast solid with the plate-bracket B, and at the end opposite from the lip *a*, is the attaching-pin D, Figs. 2, 3, and 4, made with a plain bearing-surface, *x*, and a little shorter in length than the thickness of the wood of the flask into which it is to be introduced. The terminating end of the said attaching-pin is made with the spur *c* on its side toward the lip *a*, or pin, or eye, the said attaching-pin is to secure. E is the key, made substantially as shown in Figs. 2, 3, and 4, with plain bearing-surface *x'*, and with a partially-inclined surface, *z*, as shown in the said figures. The said key is made with the head F having a lip, *e*, extending laterally a little out from the body of the key. The head of the said key is preferably made with a form that will correspond with the plate-bracket B, for the appearance of a finished termination of the same, as shown in Fig. 1. To secure the pin or eye in place with the sides of the flask, a hole, G, is bored into the wood of the flask at a proper point, with a diameter about equal to that of the key E and pin D. The attaching-pin is then inserted with its spur toward the meeting-surface of the flask, when the key is also inserted and driven in, when the inclined surface *z* will force the surface *x'* of the key down on the surface *x* of the attaching-pin, and cause the spur to sink into the wood, as shown in Figs. 2 and 3, and the whole will be firmly secured.

When it is desired to replace a broken pin or eye the key is to be withdrawn, which may be effected by inserting any suitable instrument beneath the head F and prying on the same, when the plate, with its attaching-spur, may be readily removed, when the old broken pin or eye may be replaced by a new duplicate piece.

If desired, an inclined rib, extending from the rear side of the plate-bracket to the rear end of the attaching-pin, may be employed in lieu of the spur, as shown by dotted lines in Figs. 2 and 3, in which case a portion of the wood at the lower side of the hole G may be removed by a chisel or gouge to correspond with the said inclined rib, which rib would operate substantially the same as the spur for holding the device in place and secure, when the key is driven in place.

By the improvements in this invention the steadying-pin or its eye may be securely held attached to the wood of the flask without the aid of screws, bolts, or rivets, as heretofore required, or the cost of both labor and screws for attachment, besides the saving of metal in the castings.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with the plate-bracket B, carrying the steadying-pin or eye, of the attaching-pin D, provided with the spur *c*, or its described equivalent, and the key E, substantially as and for the purpose set forth.

HENRY H. GARRETT.

Witnesses:

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