A. S. WELLS.

LADLE FOR POURING METALS.

No. 100,826. Patented Mar. 15, 1870.

Fig. 1.

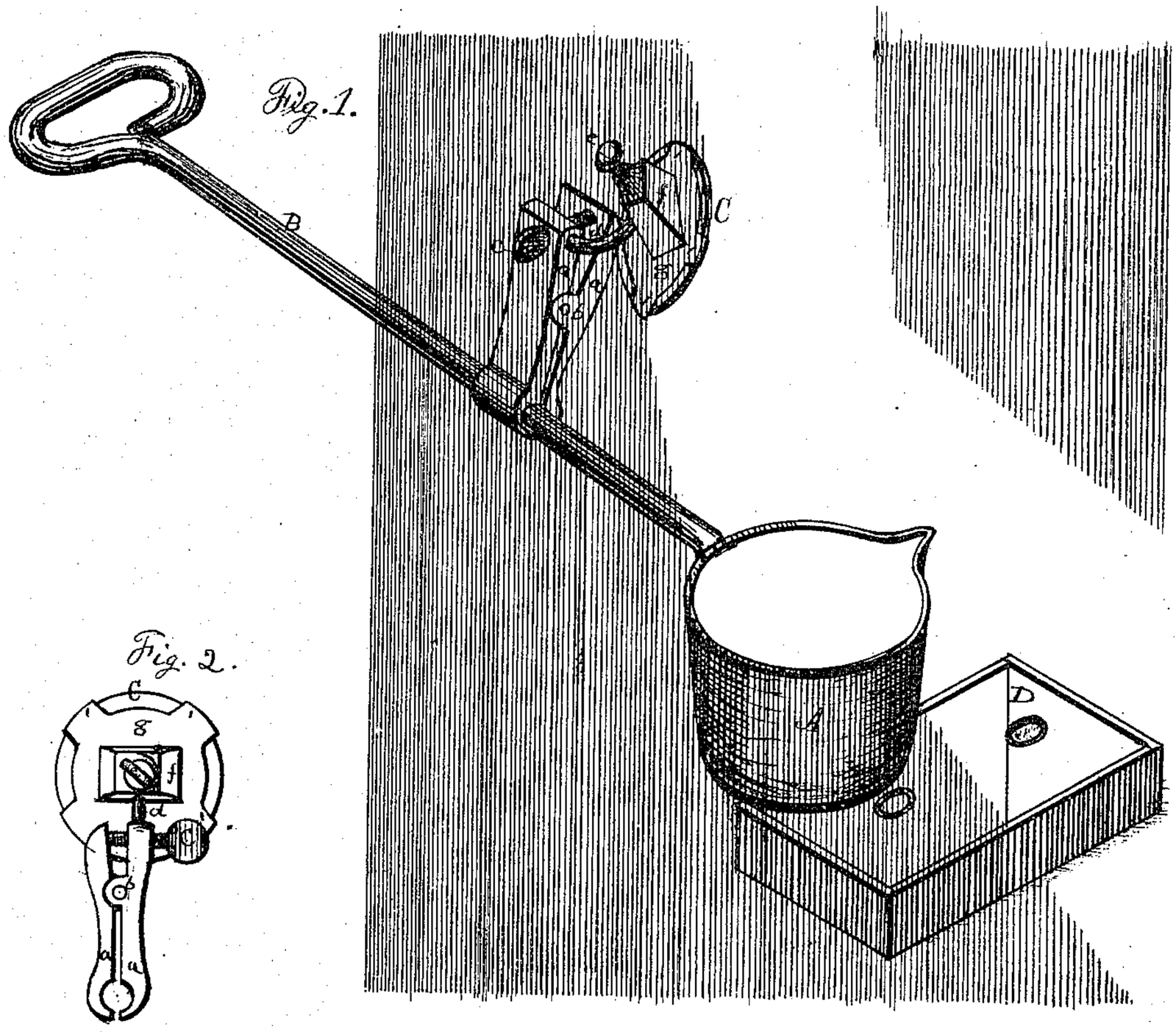
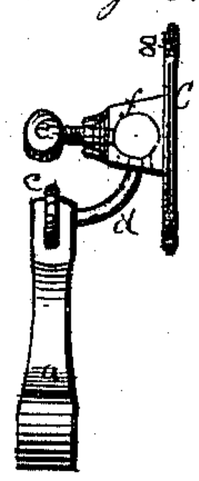


Fig. 2.

Fig. 3.



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ALBERT S. WELLS, OF NEW BRITAIN, CONNECTICUT.

Letters Patent No. 100,826, *dated March* 15, 1870.

IMPROVEMENT IN LADLES FOR POURING METALS.

The Schedule referred to in these Letters Patent and making part of the same

I, ALBERT S. WELLS, of New Britain, in the county of Hartford, and State of Connecticut, have invented a new and improved Ladle-Attachment, of which the following is a specification.

My invention consists in the employment of a reflector attached to a ladle-handle in such position that, by means of a universal joint, it may be made to reflect the light from the molten metal in the ladle on to the mold being filled.

In the accompanying drawings—

Figure 1 is a perspective view of my invention.

Figure 2, a front elevation of the same as removed from the ladle; and

Figure 3 is a side elevation of the same.

In foundries it is often customary to work until twilight or after, in which case the light from the molten metal reflects upward, blinding the eyes of the operator and lighting all the upper parts of the room, while the molds on the floor are in the darkest place in the room, so that it is difficult to see to fill them.

The design of my invention is to furnish a convenient means of throwing the light onto the mold being filled, and also shade the eyes of the operator.

A designates an ordinary ladle, and

B, its handle.

a a designate clamps pivoted at *b*, and regulated by the thumb-screw *c*.

On one end of one of the clamps *a a* is an arm, *d*, the end of which is provided with a ball which fits in a socket, forming the ordinary ball-and-socket joint, as indicated by the broken lines in fig. 3.

A set-screw, *e* is arranged so as to fasten the block *f* (in which is the ball-and-socket joint) in any desired position.

The block *f* is secured to a plate, *g*, provided with arms 1 1 1 1, which are bent over the edge of reflector C so as to retain it in its place.

The reflector must be of some hard material which will not be injured by the heat or the "spalters" which fly from the molten metal. Silver plate is well adapted to this purpose.

By means of the spurs 1 1 1 1 the reflector C can be readily removed for replating or any similar purpose when desired.

I do not wish to confine myself to the particular form of clamping mechanism herein shown, or to the ball-and-socket joint, as any of the mechanical equivalents for the same will answer equally as well for the same purpose.

I claim as my invention—

The combination of the reflector C and its adjustable mechanism with a molders' ladle, all arranged in relation to each other substantially as described.

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