

W. J. REAGAN.

Modes of and Apparatus for Varnishing Sad-Irons
and other Articles.

No. 142,728.

Patented September 9, 1873.

FIG. 1.

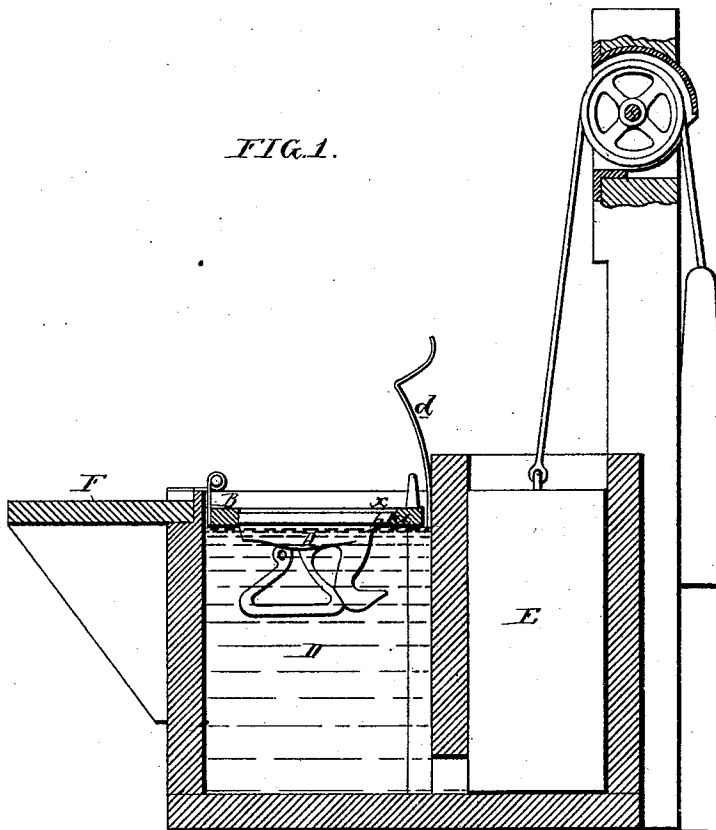
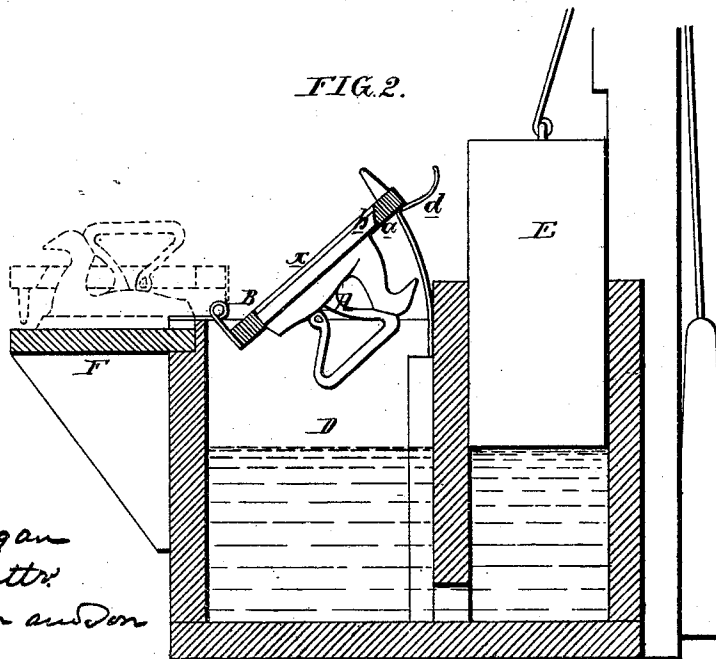


FIG. 2.



W. J. Reagan
by his Attor
Hudson and Son

WITNESSES. Hubert Houghton
Harry Smith

UNITED STATES PATENT OFFICE.

WILLIAM J. REAGAN, OF ROYER'S FORD, PENNSYLVANIA, ASSIGNOR TO
ROYER'S FORD IRON FOUNDRY, OF SAME PLACE.

IMPROVEMENT IN THE MODES OF AND APPARATUS FOR VARNISHING SAD-IRONS AND OTHER ARTICLES.

Specification forming part of Letters Patent No. **142,728**, dated September 9, 1873; application filed April 18, 1873.

To all whom it may concern:

Be it known that I, WILLIAM J. REAGAN, of Royer's Ford, Montgomery county, State of Pennsylvania, have invented a Mode of and Apparatus for Varnishing Sad-Irons and other Objects, of which the following is a specification:

The object of my invention is to rapidly and effectively varnish, or coat with other fluid material, articles of manufacture—such, for instance, as sad-irons—by so fitting them to a board or plate that those portions only which have to be coated shall be exposed to a supply of varnish, to be, by preference, applied by elevating a mass of it contained within a trough to the said boards from which the objects are suspended.

Figures 1 and 2 are vertical sections of apparatus by which my invention may be carried into effect, in connection with sad-irons, which are in the present instance the objects selected for demonstrating my invention.

A board or plate, B, is hinged to the front of a trough, D, containing the varnish, and in this board are a number of openings, each being of a proper shape for so receiving a sad-iron that the portion only of the same which has to be varnished shall project below the board, the polished edges of the sad-iron fitting snugly within the opening.

The sad-irons are placed in the openings of the board B after the latter has been lowered to the position over the trough D shown in Fig. 1; and after the irons have been thus adjusted the body of varnish is elevated in the trough until it reaches the board, and all the projecting portions have been thoroughly coated, after which the supply of varnish is caused to retreat, and the board is then raised to the inclined position shown in Fig. 2, where it is permitted to rest on a spring-catch, *d*, or its equivalent, until the coating of varnish which the exposed portions of the sad-irons have received has become "set" or partially dry. The attendant then quickly turns the board outward and downward over a detachable board, F, on which the bases of the sad-irons will rest, as shown by dotted lines in Fig. 2, leaving the board B at liberty

to be restored to its original position, shown in Fig. 1, preparatory to receiving another set of sad-irons. In the meantime an attendant removes the board F and its load of varnished sad-irons from its bearings in front of the trough, and deposits it in a place suitable for the complete drying of the varnish, and returns with another board, F, and adjusts it to its bearings for receiving another set of varnished sad-irons.

The rapidity with which a uniform coating of varnish can be thus imparted to the sad-irons, without smearing the polished edges and bases, will be readily understood without further explanation.

Different plans of elevating the supply of varnish may be resorted to, but I have found the mode shown in the drawing to be convenient and efficacious in practice. This consists in causing a plunger, *e*, to descend in a compartment communicating with the trough D, when the varnish in the latter has to be elevated, and by raising the plunger when the varnish has to be lowered in the trough.

It will be evident that objects other than sad-irons may be varnished by the above-described process, all that is necessary being the adaptation of the openings in the board B to the articles.

I claim as my invention—

1. The mode described of varnishing sad-irons and other objects—that is, by placing them in openings in a board and immersing the portions projecting below the board in a supply of varnish, all substantially as herein set forth.

2. The combination of a trough, D, in which the varnish can be raised or lowered with the board B hinged to the trough, as set forth.

3. The combination of the said board B, for carrying the sad-irons or other objects, with the detachable board F.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. J. REAGAN.

Witnesses:

MORGAN H. JONES,
CHARLES T. FOULKS.