

# United States Patent Office.

GEORGE H. HAZELTON, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 104,589, dated June 21, 1870.

## IMPROVEMENT IN BOTTOMS FOR WASH-BOILERS AND SIMILAR VESSELS.

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

To all whom it may concern :

Be it known that I, GEORGE H. HAZELTON, of the city and county of Philadelphia, and State of Pennsylvania, have made a new and useful Improvement in Tin-coated Bottoms for Wash-Boilers ; and I hereby declare the following to be a full and exact description of the same.

In the manufacture of metal bottoms for wash-boilers, a sheet of metal, such as tin plate or sheet-iron, is pressed in suitable dies, so as to give it the proper form.

This operation of pressing strains the metal at those points where the form is most changed, and at these points a corrosive action is easily set up, which frequently destroys the bottom.

In Patent No. 44,309, issued to me, and dated September 20, 1864, is described a process of preventing the injurious effects likely to result from stamping; the said process consisting in coating the bottom, after stamping, with a suitable alloy not easily affected by the usual influences to which wash-boilers are subjected.

My present invention is a modification of that invention, and consists of a tin-coated bottom for wash-boilers.

The mode of manufacturing this bottom is substantially the same as that described in the patent above

mentioned. After the bottom has been made into the proper form by stamping or pressing in dies, it is coated with tin by the ordinary process of tin plating, well known to persons skilled in the art. This gives a boiler bottom much cheaper than sheet copper, and, for some purposes, the equivalent of the bottom described in my patent of September 20, 1864, above referred to. The bottom thus formed is applicable for some kinds of boilers where those made of the alloys named in the patent might be objected to.

I do not claim the process of stamping or pressing sheet metal, so as to produce a boiler bottom of the proper form; nor do I claim a bottom formed by stamping and then coating, as that is embraced in my former patent above mentioned; but

Having described my invention,

What I claim, and desire to secure by Letters Patent of the United States, is—

The new manufacture herein described, a bottom for wash-boilers and similar vessels, formed by stamping or pressing in dies a sheet of metal, and then covering it with a coat of tin, substantially as described.

GEORGE H. HAZELTON.

Witnesses:

E. T. VANDEGRIFT,  
OTTO SCHWARTZ.