(No Model.)

H. C. JONES.

METHOD OF DISHING METAL PLATES.

No. 270,077. Patented Jan. 2, 1883.

Fig. 2.

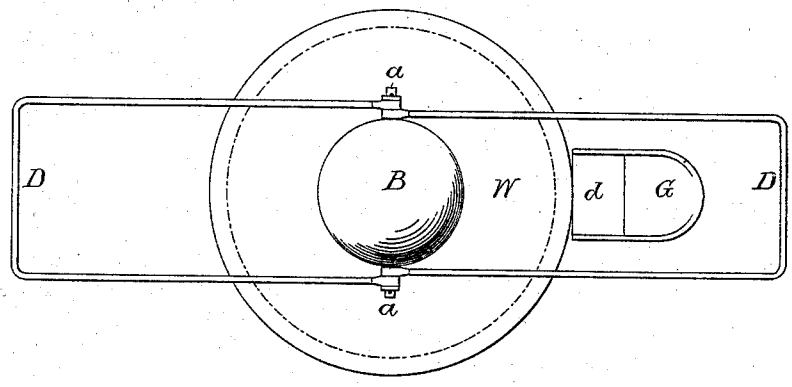


Fig. 1.

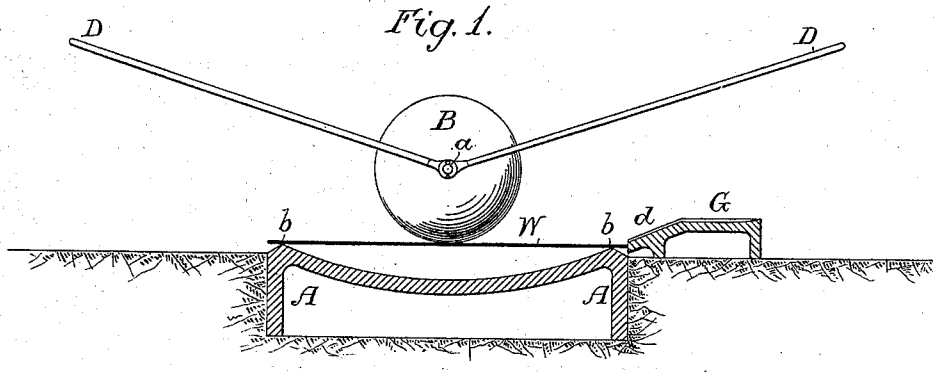
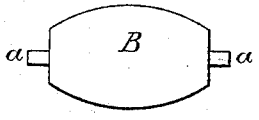


Fig. 3.



Witnesses:
Harry Drury
Hamilton Turner.

Inventor:
Henry C. Jones
by his Attys.
Howson and Sons

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

HENRY C. JONES, OF WILMINGTON, DELAWARE.

METHOD OF DISHING METAL PLATES.

SPECIFICATION forming part of Letters Patent No. 270,077, dated January 2, 1883.

Application filed June 26, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. JONES, a citizen of the United States, and a resident of Wilmington, Delaware, have invented certain Improvements in Dishing Metal Plates, of which the following is a specification.

My invention relates to a mode of forming concavo-convex plates—such as are used for the ends of the cylindrical bodies of steam-boilers, wood-pulp digesters, and for many other purposes—the said mode consisting in depressing a plate into a concave former by rolling over the said plate a heavy rounded weight, as described hereinafter.

In the accompanying drawings, Figure 1 is a vertical section of a former, and side view of the weight by which my invention is carried into effect; Fig. 2, a plan view of Fig. 1; and Fig. 3, a modified form of weight.

A is a former consisting of a heavy casting supported on a suitable foundation, this former having a concave upper surface, and being essentially similar to those in use for dishing plates.

B is a heavy sphere, through the center of which passes a pin, *a*, and to the latter are pivoted two handles, D D, constructed in the manner shown in Fig. 2, or in any other suitable manner, which will enable a number of operatives to move the sphere backward and forward and turn it and the handles laterally, according to the direction in which the weight has to be rolled.

The upper edge, *b*, of the former projects to a limited extent above the floor, and on the latter, adjoining the said former, is a rest, G, consisting preferably of a substantial casting, for supporting the weight when it is not in use, a portion of this rest presenting an inclined plane, *d*, up or down which the weight may be rolled. The plate W to be dished is placed on the former A and the weight B, which had hitherto been retained on the rest G, is rolled down the inclined plane *d* of the said rest onto the plate, and by means of the handles D a number of operatives proceed to roll the weight over the plate, the weight and handles being turned laterally from time to time, so that the weight may be applied to all parts of the plate, until the latter conforms with the concave upper surface of the former A. A plate can thus be dished more rapidly, accurately, and by a less effort than by the usual mode of hammering it into a concave former.

It is not essential that the weight should be spherical. It may be of the form shown in Fig. 3, for instance; but it must always be rounded.

In dishing wrought-iron plates, they must of course be in a heated condition when operated on; but there are plates of softer metal which can be dished in the manner described while they are cold.

I claim as my invention—

The mode herein described of dishing metal plates, the said mode consisting in depressing the plate into a concave former by rolling a rounded weight in different directions over the plate, substantially as set forth.

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

HENRY C. JONES.

Witnesses:
HARRY DRURY,
HARRY SMITH.