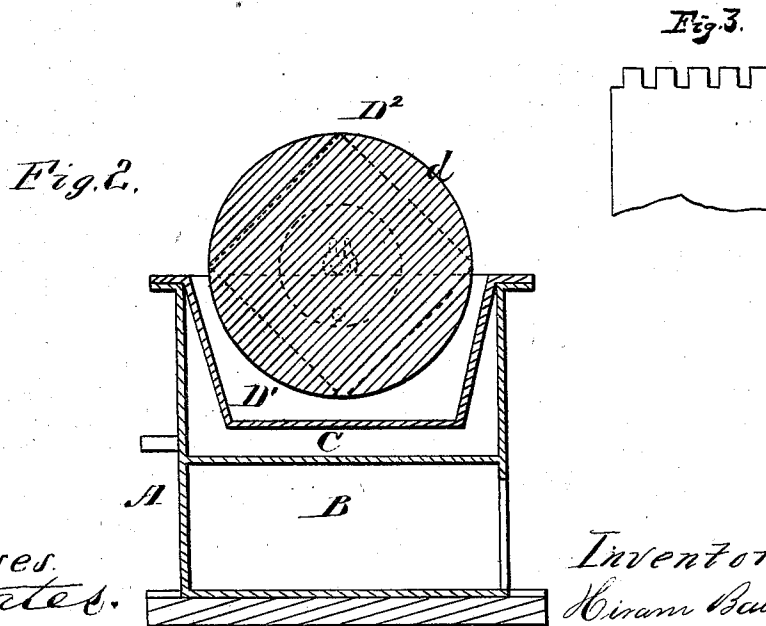
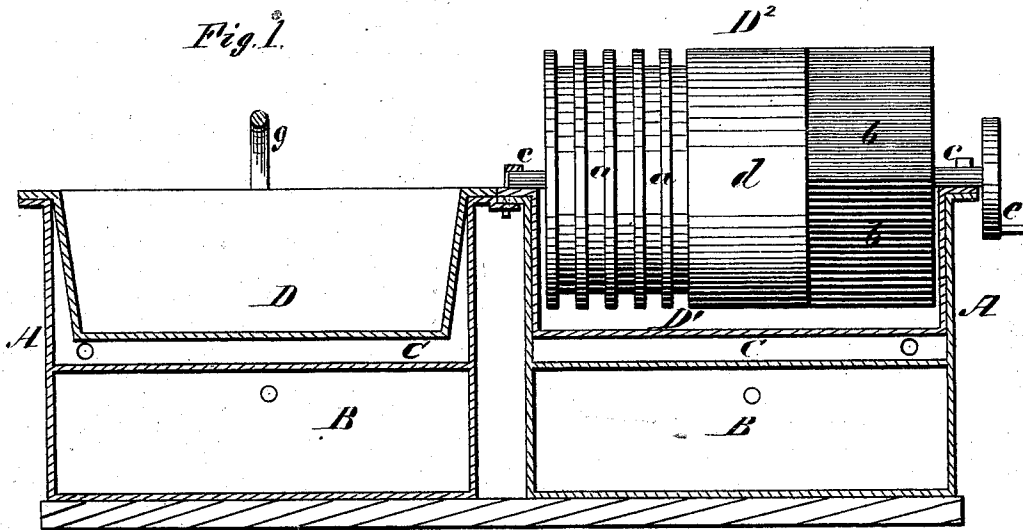


H. BALDWIN.
Glueing Devices.

No. 149,706.

Patented April 14, 1874.



Witnesses.
E. H. Bates.
Phil. C. Masi.

Inventor.
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Attys

UNITED STATES PATENT OFFICE.

HIRAM BALDWIN, OF NASHUA, NEW HAMPSHIRE.

IMPROVEMENT IN GLUING DEVICES.

Specification forming part of Letters Patent No. 149,706, dated April 14, 1874; application filed September 20, 1873.

To all whom it may concern:

Be it known that I, HIRAM BALDWIN, of Nashua, in the county of Hillsborough and State of New Hampshire, have invented a new and valuable Improvement in Gluing Devices; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical section of my gluing device. Fig. 2 is a transverse section of same. Fig. 3 is a detail of same.

This invention relates to an improvement which is applicable to glue kettles or pans, and which is intended to facilitate the application of glue to the joints of boards in the manufacture of boxes and other articles. It consists in a rotary wheel or drum arranged so as to dip into the glue-pan, and to be easily turned by a crank, which drum presents grooved, prismatic, smooth, cylindrical, or other surfaces adapted to the kind of work which is to be glued, as will be hereinafter explained.

The following is a description of my improvement:

In the accompanying drawings, A represents the wall of a furnace. B B represent fire-chambers. C C represent water-chambers, and D D¹ represent glue-pans, which are supported by their flanges on the wall A, so as to be partly immersed in the water contained in the chambers C C. The pan D is removable, and for this purpose it is provided with a bail, g. It is in this pan that the glue is dissolved, after which it is poured into the pan D¹. D² represents a gluing-drum, of any suitable di-

ameter and length, the shaft c of which is mounted in bearings c c on the end flanges of the pan D¹, and has a hand-crank, e, or a belt-pulley, applied to one end of it, as shown in Fig. 1. By means of the crank e the drum D² can be turned about its axis, and freshly-glued surfaces exposed above the surface of the glue in pan D¹. The circumference of the drum D² may present grooves and ridges, as indicated at a a, or it may present prismatic surfaces b, or a smooth cylindrical surface, d. The rectangular grooves and ribs a are designed for applying glue to the ends of boards which are notched as indicated by Fig. 3, the tongues and notches of which correspond to, but are slightly smaller than, the grooves and ridges a on the drum D². The flat surfaces b are adapted for applying glue to the flat surfaces of the bottoms of boxes, and the smooth cylindrical surface d is intended for applying glue to the ends of boards.

It is obvious that by rotating the drum D² freshly-glued surfaces can be exposed, from which the glue can be applied to any object by simply laying the same on such surfaces. I thus greatly facilitate the gluing of boxes and other articles.

What I claim as new, and desire to secure by Letters Patent, is—

The gluing apparatus described, consisting of the furnace B, pans D and D¹, and cylinder D², all arranged and operating as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HIRAM BALDWIN.

Witnesses:

HENRY B. ATHERTON,
J. C. FEMING.