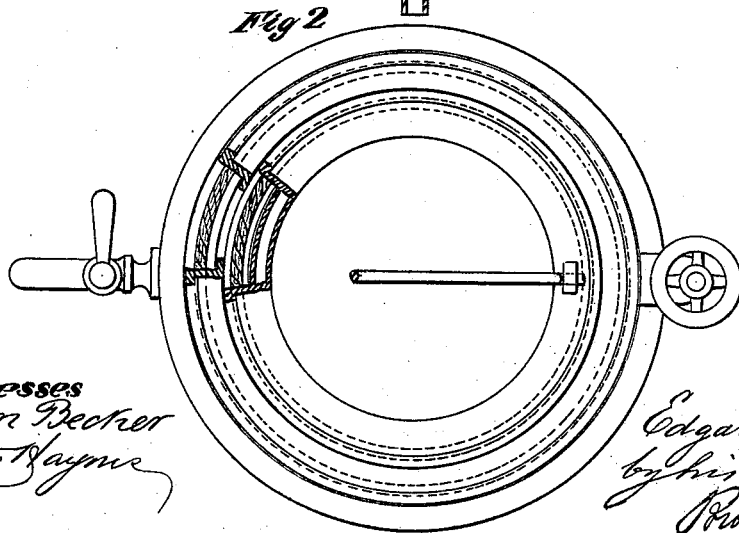
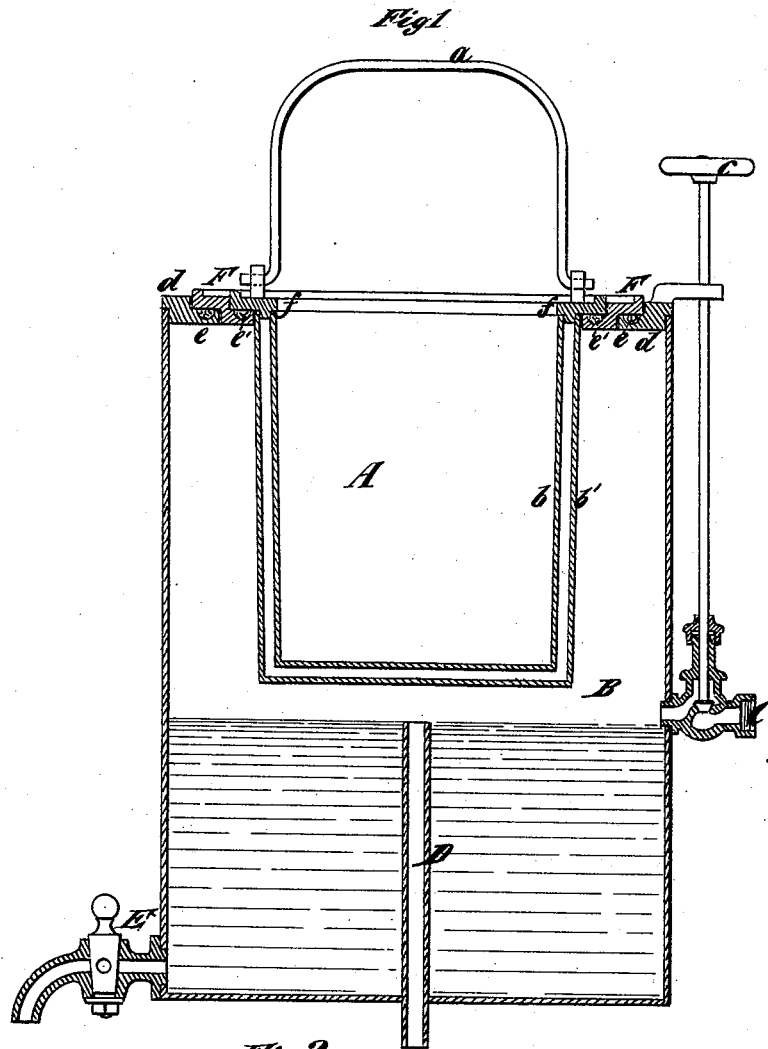


E. J. WOOD.
 Apparatus for Heating Glue.

No. 212,294.

Patented Feb. 11, 1879.



Witnesses
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UNITED STATES PATENT OFFICE.

EDGAR J. WOOD, OF WILLIAMSBURG, BROOKLYN, NEW YORK.

IMPROVEMENT IN APPARATUS FOR HEATING GLUE.

Specification forming part of Letters Patent No. **212,294**, dated February 11, 1879; application filed December 28, 1878.

To all whom it may concern:

Be it known that I, EDGAR J. WOOD, of Williamsburg, in the city of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Apparatus for Heating Glue and other Substances, of which the following is a specification:

My invention consists in a heater for glue or other substances, comprising a receiver for the glue or other substance to be heated, which is preferably jacketed, and a boiler, in which the receiver is placed, provided with a steam-inlet and an overflow-outlet for the water produced by condensation, the said overflow being situated at some distance below the bottom of the receiver, whereby, while the receiver is entirely surrounded by steam, a supply of hot water is retained therein for thinning the glue, whenever necessary, or for other purposes. The heater is also preferably provided with a packing between the receiver and boiler, to prevent the escape of steam, and a reducing-ring, similarly packed, may be used to accommodate receivers of different sizes.

In the accompanying drawings, Figure 1 represents a central vertical section of a heater embodying my improvements, and Fig. 2 a plan thereof.

Similar letters of reference designate corresponding parts in both figures.

A designates a receiver, in which glue or other substances to be heated may be placed, and which is provided with a bail, *a*. The sides and bottom of the receiver are composed of two thicknesses of metal, *b b'*, between which any packing material which is not injured by heat, such as asbestos, may be placed. The receiver is of sufficient weight to prevent its being raised by the slight pressure of steam in the boiler.

B designates a boiler, in which the receiver is placed, and which is provided with a steam-inlet valve, C, a water-overflow pipe, D, and a cock, E.

The steam-inlet valve C is preferably of such a size that it will supply steam only as fast as it is condensed, and may be operated by a hand-wheel, *c*, placed above the heater, so that the hand of the person operating it will not be liable to be burned.

The mouth of the overflow-pipe D is below the bottom of the receiver, so that the receiver may always be surrounded by steam, while a sufficient quantity of hot water is retained in the boiler to thin the glue, or for other purposes.

A trap may be applied to the pipe D to prevent the escape of steam.

The cock E affords means for drawing water from the boiler as it may be desired for use.

In order to prevent steam from escaping I provide the boiler, at its top, with an inwardly-projecting flange, *d*, in which is a circular channel or groove, in which packing *e*, composed of hemp or other material, is placed.

F designates a reducing-ring interposed between the boiler and receiver, which may be removed if it is desired to employ a larger receiver, and which overlaps the packing *e*. This ring is provided with a packing, *e'*, similar to the packing *e*, and the receiver is provided with a flange, *f*, which overlaps the packing *e'*.

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

1. A heater for glue and other substances, in which are combined a boiler having an open top, a removable receiver for the glue or other substance, suspended within the boiler through the open top and supported thereby, a steam-inlet communicating with the interior of the boiler, and an overflow, the mouth of which is below the bottom of the receiver, substantially as and for the purpose described.

2. A boiler constructed with an open top, having an inwardly-projecting flange, and provided with a steam-inlet, C, and an overflow, D, in combination with a jacketed receiver, A, having at the upper end a flange, and suspended within the boiler through the open top, said flange of the jacketed receiver resting on the flange of the open end of the boiler, substantially as and for the purpose described.

3. A heater for glue or other substances, comprising the combination of the receiver A, boiler B, valve C, overflow-pipe D, cock E, and packings *e e'*, substantially as specified.

EDGAR J. WOOD.

Witnesses:

T. J. KEANE,
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