

John W. Hyatt jr. and I. Smith Hyatt's

Improved Apparatus for Moulding Dental Plates.

No. 121,522.

Patented Dec. 5, 1871.

Fig. I.

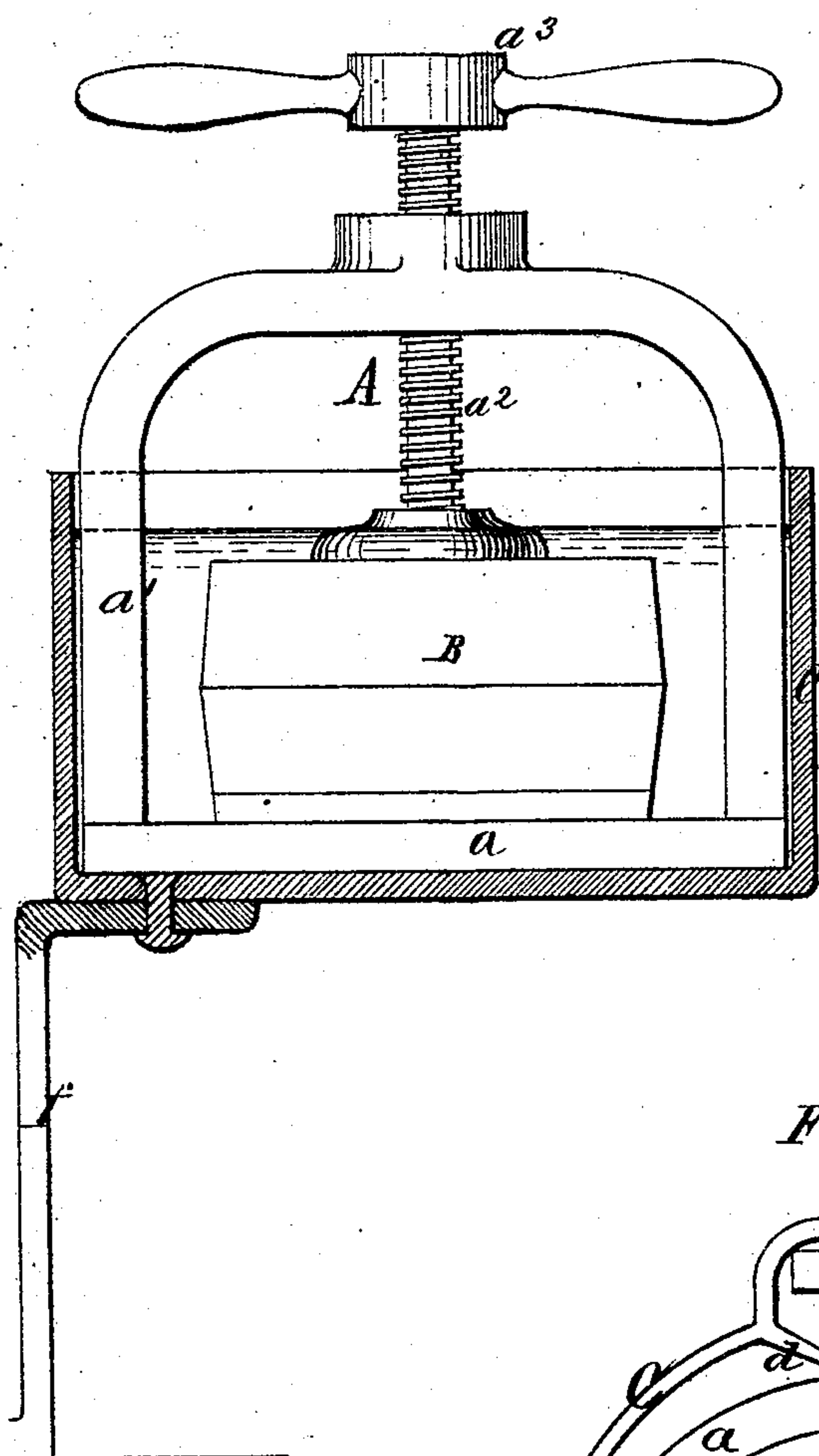


Fig. II.

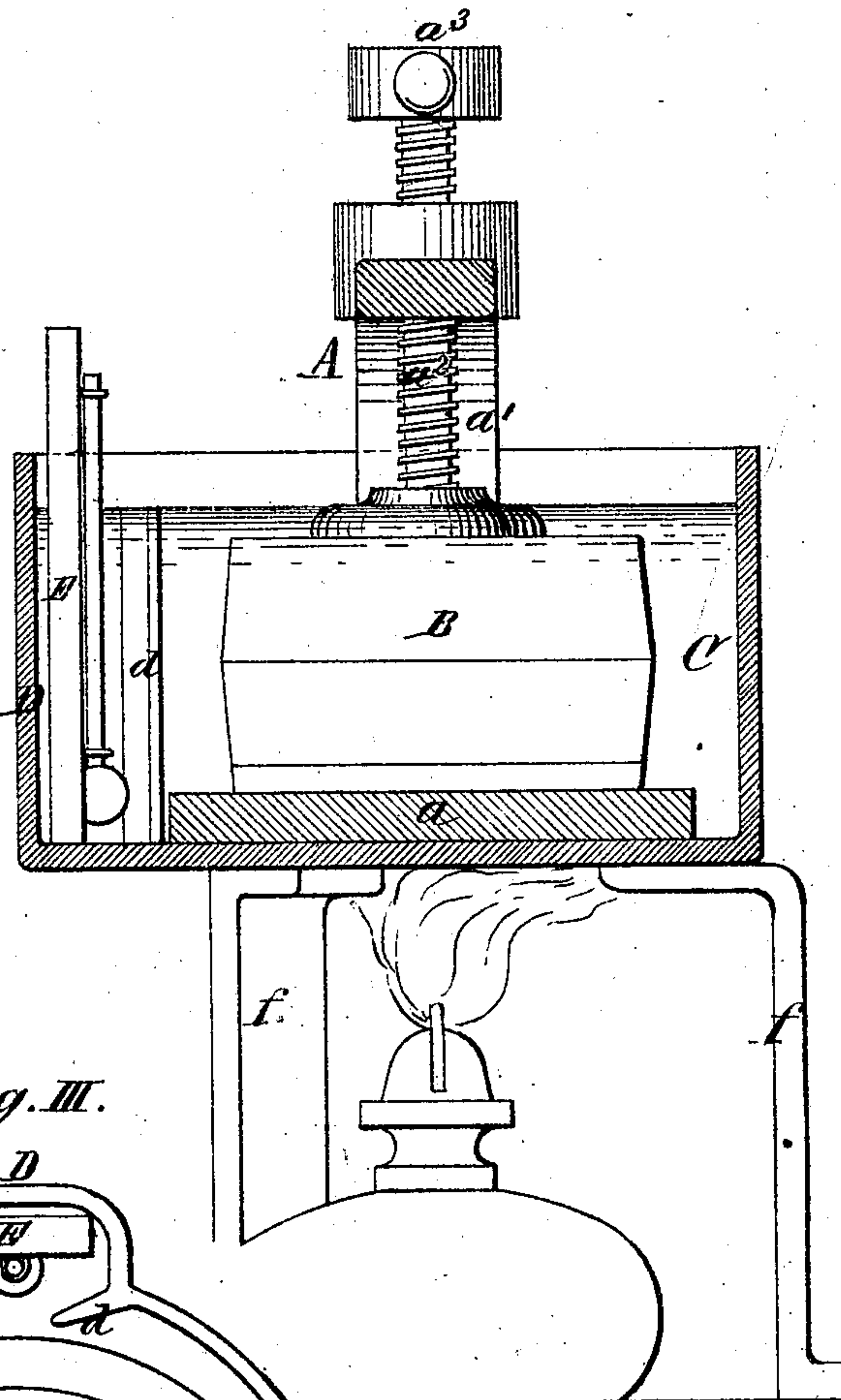
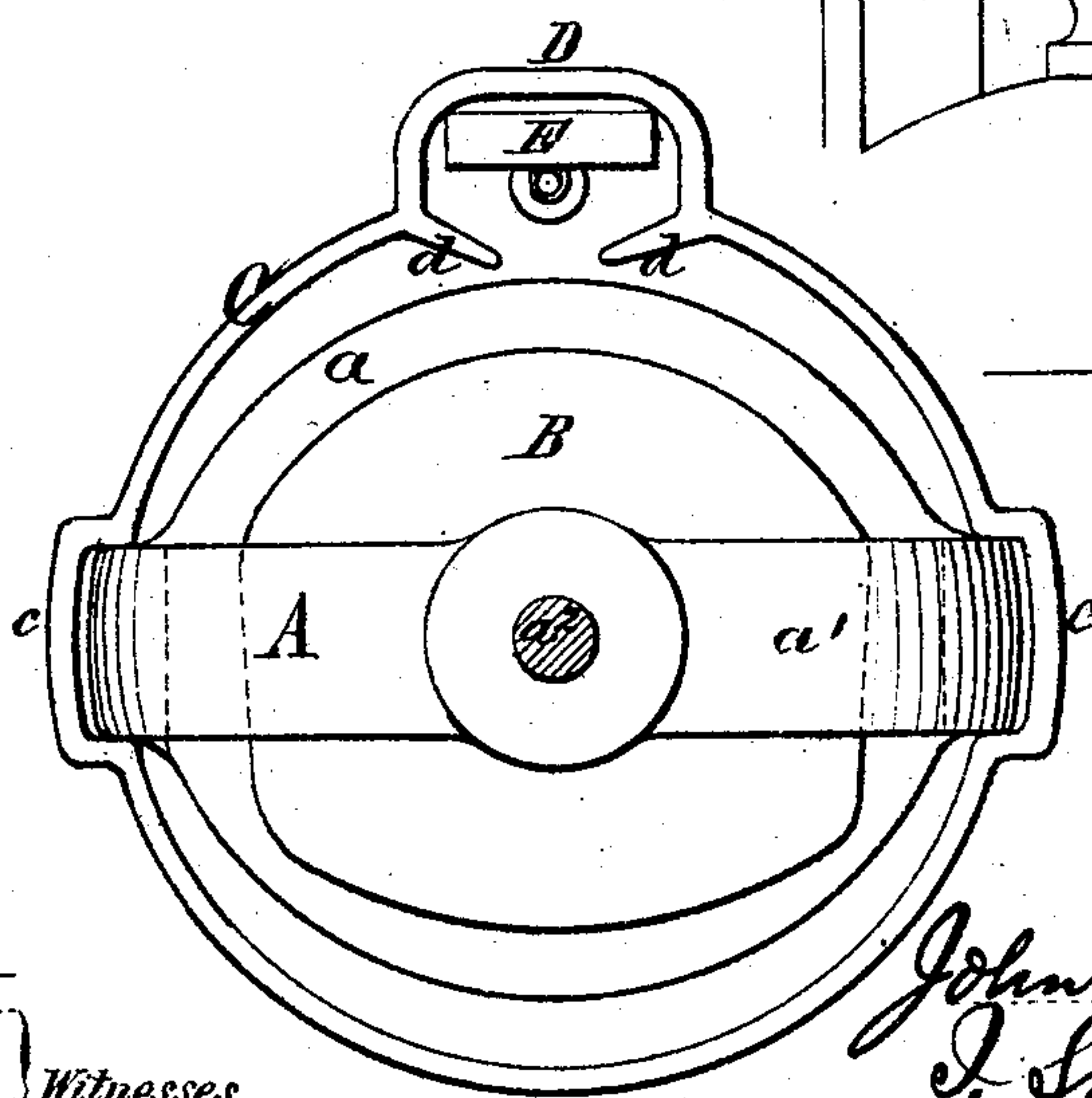


Fig. III.



John J. Conner
Edward Wilhelm Witnesses

John W. Hyatt jr. Inventors
I. Smith Hyatt
by Jay Hyatt
Att'y.

UNITED STATES PATENT OFFICE.

JOHN W. HYATT, JR., AND ISAIAH SMITH HYATT, OF ALBANY, NEW YORK, AS-
SIGNORS TO ALBANY DENTAL-PLATE COMPANY.

IMPROVEMENT IN APPARATUS FOR MOLDING DENTAL-PLATES.

Specification forming part of Letters Patent No. 121,522, dated December 5, 1871.

To all whom it may concern:

Be it known that we, JOHN W. HYATT, Jr., and ISAIAH SMITH HYATT, of the city and county of Albany and State of New York, have invented an Improved Apparatus for Molding Dental-Plates, of which the following is a specification:

Our invention relates to certain improvements in apparatus employed in the manufacture of sets of artificial teeth from collodion plates, produced according to the improved process described in Letters Patent No. 113,055, and dated March 28, 1871, to which reference is here made for a description thereof.

In making a set of artificial teeth according to this process, the prepared plates are placed within the flask and heated to the temperature of about 300° Fahrenheit, which is most conveniently effected by placing the flask and clamp in a vessel containing oil and bringing the same to the required temperature, which softens and renders plastic the plate so as to enable it to be properly molded and attached to the teeth.

First, our invention consists of a flask-clamp, and a heating vessel constructed of a form in horizontal section corresponding more or less nearly with the base of the clamp so as to receive the same and hold it against turning, while it at the same time enables a small quantity of oil to suffice for the purpose of heating the flask, thereby expediting the latter process; second, of a recess cast with the oil-reservoir, and partially separated from the interior of the tank by projecting flanges so as to form a convenient receptacle for a thermometer, by which the temperature of the liquid is determined.

In the accompanying drawing, Figure 1 is a sectional elevation of our improved apparatus. Fig. 2 is a similar view at right angles to Fig. 1. Fig. 3 is a plan view.

A is the flask-clamp, of ordinary construction, consisting of an oval base-plate, *a*, upright frame,

*a*¹, screw *a*², operated by handle *a*³. B is a flask of any suitable construction, in which the plates are molded. C is the oil-tank or reservoir, cast substantially of the form shown in Fig. 3, *c* being recesses at opposite sides to receive the ends of the press or clamps. D is a recess cast on one side of this vessel, and *d d* flanges projecting inward so as to partially shut off this recess from the interior of the vessel. E is a thermometer, represented and arranged in this recess. *ff* are legs by which the oil-tank is secured to the table, and supported above the same so as to permit of the arrangement of a lamp or gas-jet thereunder, by which the oil is heated. The construction of the vessel C, as just described, enables the clamp to be readily inserted and removed therefrom, while its form, corresponding with the base of the clamp, is such as to securely hold it against turning while the screw is being turned down in forcing the flask together. The base of the clamp fitting close within the vessel enables a smaller quantity of oil (which is sooner heated) to be used than would be required if the vessel were differently constructed. The recess forms a convenient receptacle for the thermometer, while the flanges *d* retain it in place.

What we claim as our invention is—

1. The arrangement, with the flask-press A, of the heating-vessel C cast with recesses *c* or equivalent construction to receive and hold the press against turning, substantially as hereinbefore set forth.

2. The recess D and flanges *d* cast with the flask-heating vessel A, and forming a receptacle for the thermometer, as hereinbefore set forth.

JOHN W. HYATT, JR.
ISAIAH S. HYATT.

Witnesses:

J. G. JARVIS,
WM. S. SHEPARD.

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