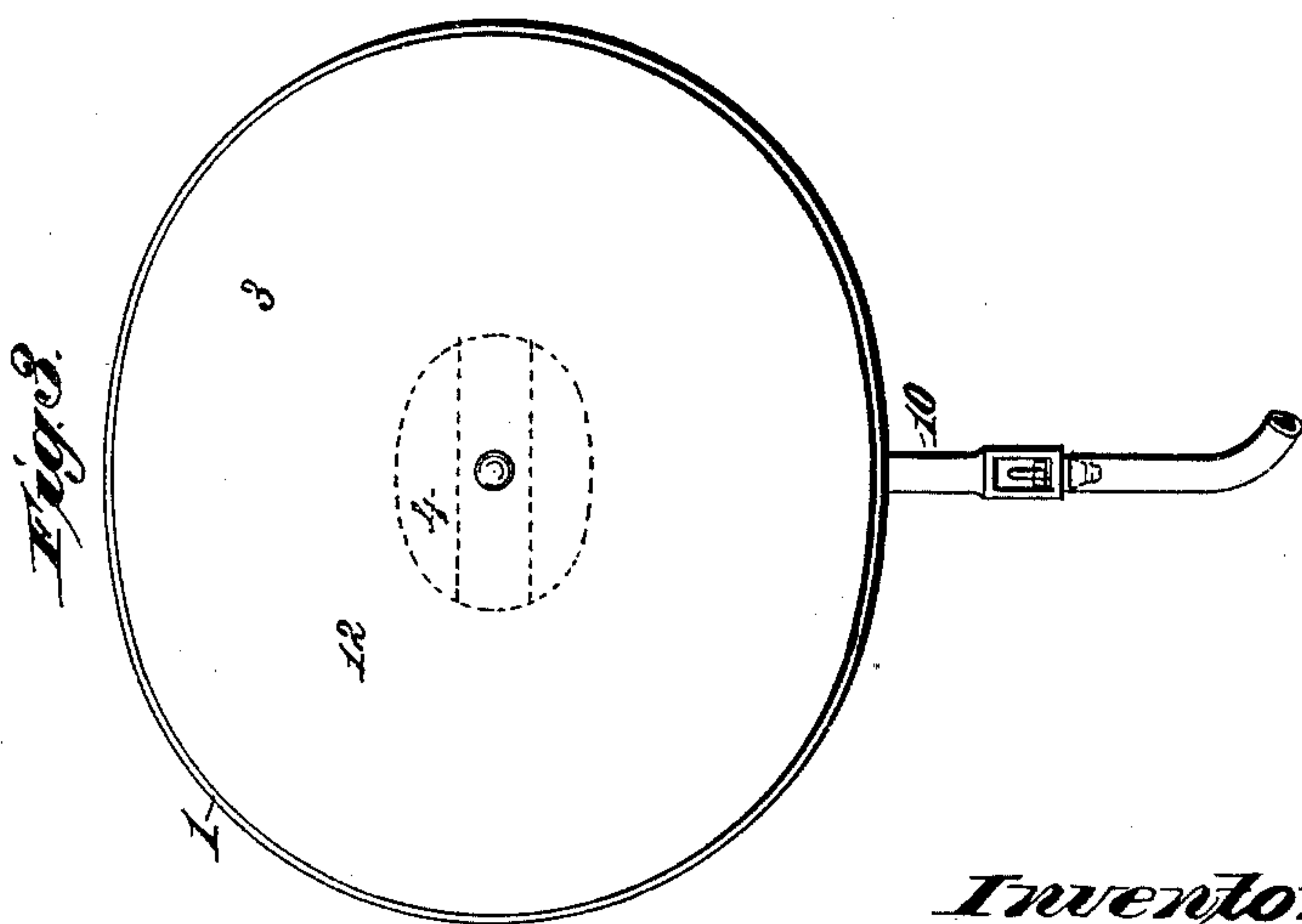
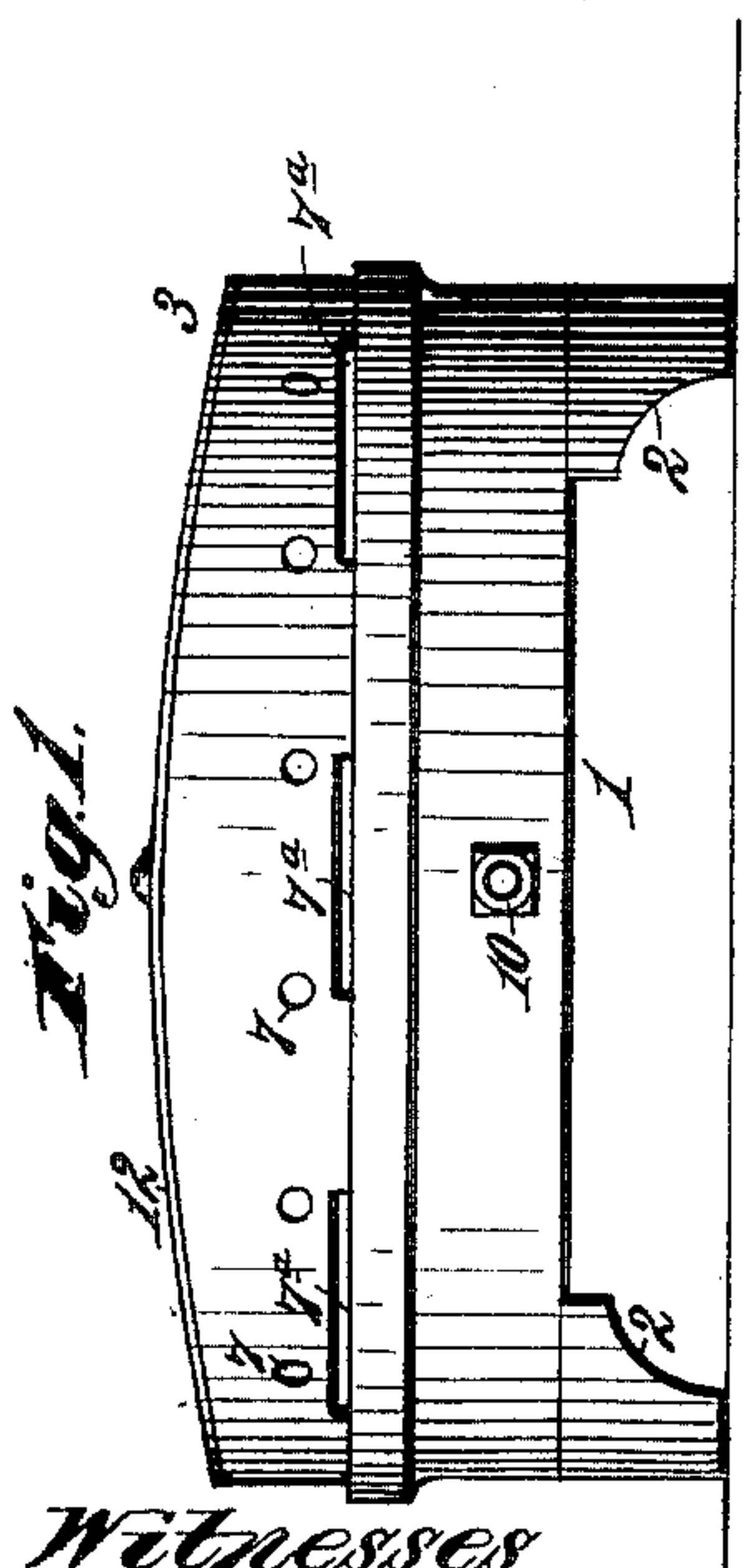
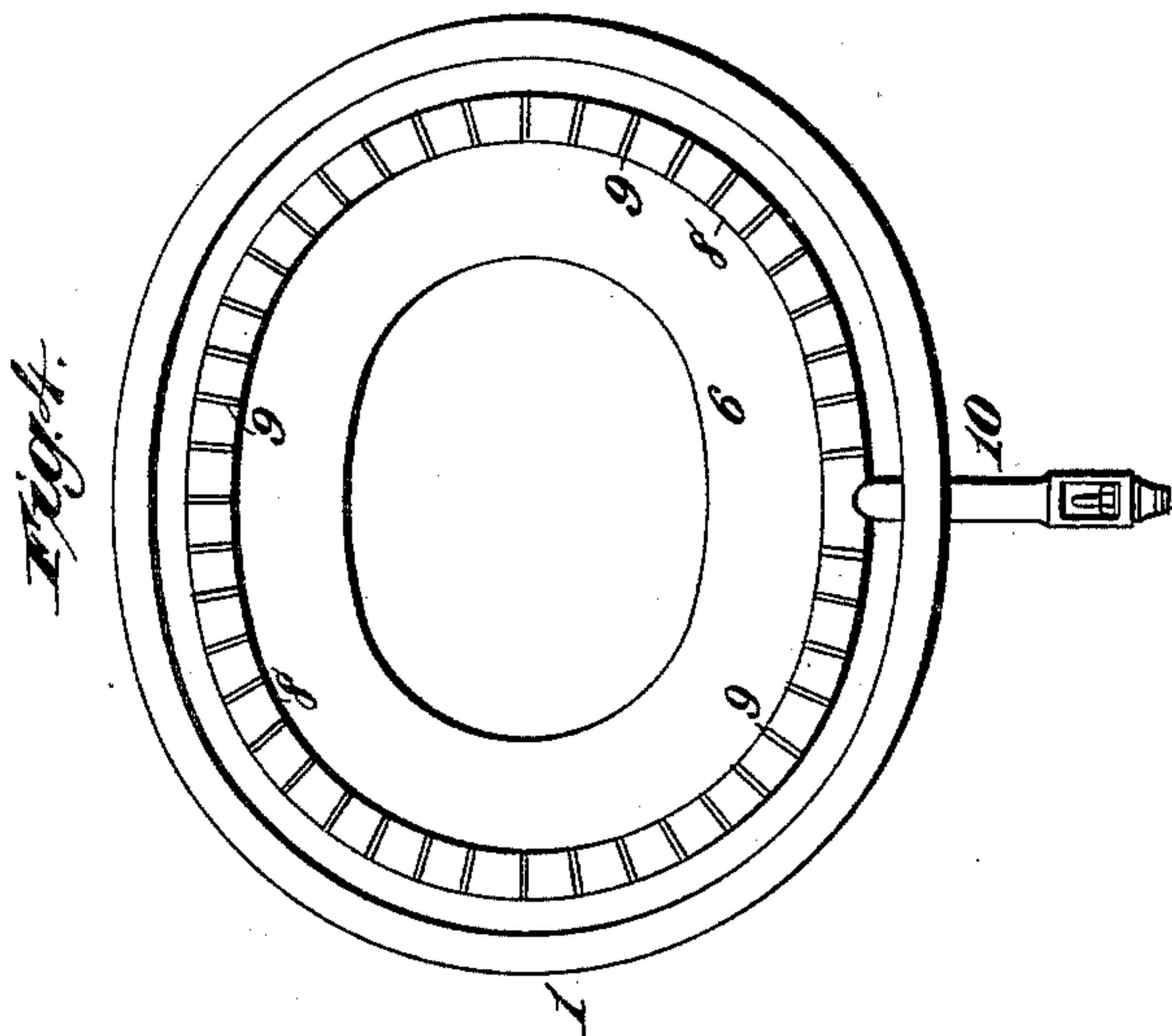
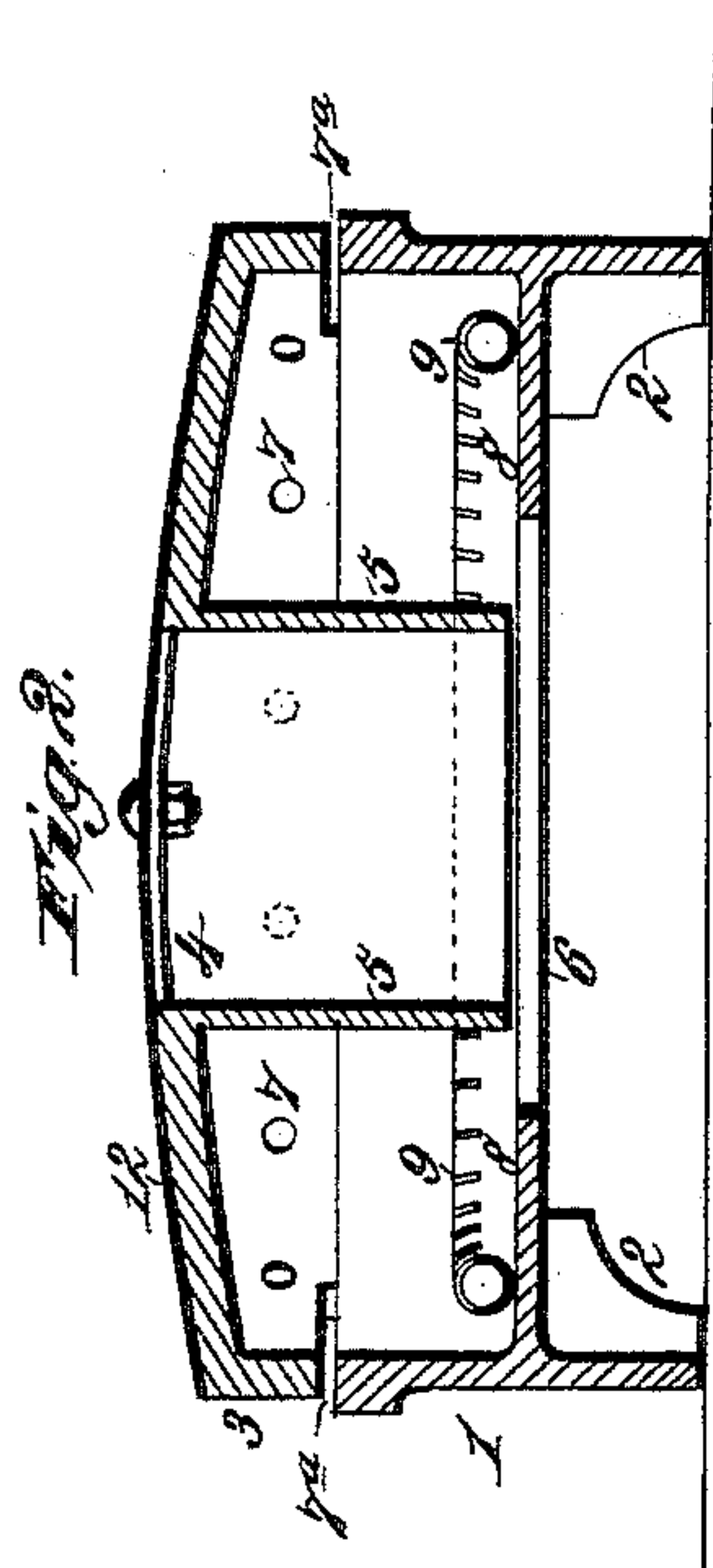


(No Model.)

J. MOORES.
APPARATUS FOR HEATING HAT BRIMS.

No. 450,889.

Patented Apr. 21, 1891.



Witnesses:
Robert Everett.
J. A. Rutherford.

Inventor:
Jonathan Moores.
By James L. Norris.
Atty.

UNITED STATES PATENT OFFICE.

JONATHAN MOORES, OF DENTON, NEAR MANCHESTER, ENGLAND.

APPARATUS FOR HEATING HAT-BRIMS.

SPECIFICATION forming part of Letters Patent No. 450,889, dated April 21, 1891.

Application filed June 14, 1888. Renewed April 25, 1890. Serial No. 349,578. (No model.) Patented in England April 28, 1887, No. 6,217.

To all whom it may concern:

Be it known that I, JONATHAN MOORES, a subject of the Queen of Great Britain, residing at Denton, near Manchester, in the county of Lancaster, England, have invented a new and useful Improvement in Apparatus for Heating Hat-Brims, (for which I have obtained Letters Patent in Great Britain and Ireland, No. 6,217, dated April 28, 1887,) of which the following is a full, clear, and exact specification.

My invention relates to apparatus for heating the under side of hat-brims for the purpose of curling and setting the same; and the purpose thereof is to provide means whereby the hat-brim may be heated without danger of scorching and burning the same, and whereby the process of curling and setting may be conveniently and expeditiously carried out.

To this end the invention consists in the several novel features of construction and new combination of parts hereinafter fully set forth, and specifically pointed out and defined in the claim following this specification.

Referring to the accompanying drawings, Figure 1 is a front elevation of an apparatus embodying my invention. Fig. 2 is a central vertical section of Fig. 1. Fig. 3 is a plan view of the parts shown in Fig. 1. Fig. 4 is a plan view of the same, the top plate being removed.

In the said drawings, the reference-numeral 1 denotes a circular disk-shaped vessel, preferably composed of cast metal, and forming the base of the apparatus, said vessel being mounted upon suitable legs or brackets 2. Upon said base is mounted the top plate 3, which may also be composed of cast metal. The plate 3 is provided with a central orifice 4, from the edge of which the flange 5 depends, its lower edge extending to a point in or nearly in the plane of the bottom 6 of the base-plate 1. At suitable intervals in the vertical edge or flange of the top plate 3 are formed air-openings 7, and slots or channels 7^a may also be formed at intervals in the edge

of the flange which rests upon the perimeter of the base-plate 1. Arranged within the annular space lying between the perimeter of the base-plate and the depending flange 5 is a circular tube 8, having slits 9 at frequent intervals. This tube is connected in any suitable manner to a gas-supply pipe 10, and forms in connection therewith a Bunsen burner, in which the combustible element is preferably air and gas mingled together. Upon the exterior surface of the top plate 3 I lay a coating or stratum 12, formed of asbestos or other non-combustible material. By the construction shown the heat generated by the Bunsen burner can be regulated with great nicety, the products of combustion passing out of the interior space laterally through the apertures 7 or 7^a, or through both.

It is found in practice that the asbestos becomes heated sufficiently for the purposes specified without danger of injury either to the layer 12 or to the hat-brim laid thereon. The hat may thus be laid thereon with the crown or body uppermost and left with the under side of the brim in contact with the hat-plate until the operator is ready to remove it to subject it to the process of curling and setting.

Having thus described my invention, what I claim is—

The herein-described apparatus for heating hat-brims preparatory to curling and setting the same, said apparatus consisting of the cylindrical base 1, the top plate 3, provided with lateral orifices 7 and having in its top an opening 4, from which depends a cylindrical flange 5, the heating-tube 8, inclosed in the cylindrical base and provided with openings 9, and a covering 12, of asbestos or non-inflammable material, on top of the top plate, substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

JONATHAN MOORES.

Witnesses:

JOHN G. WILSON,
WALTER GUNN.