

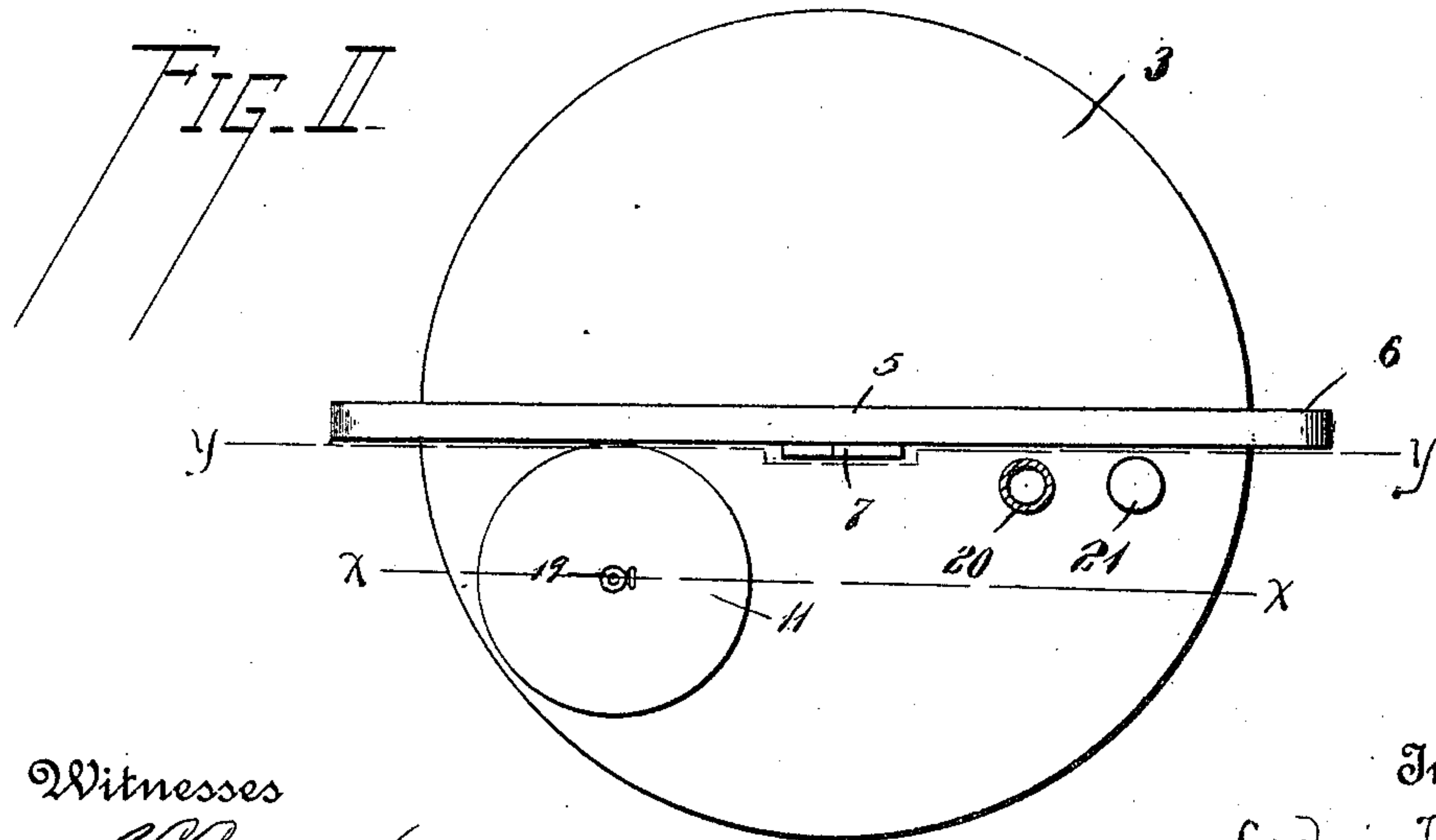
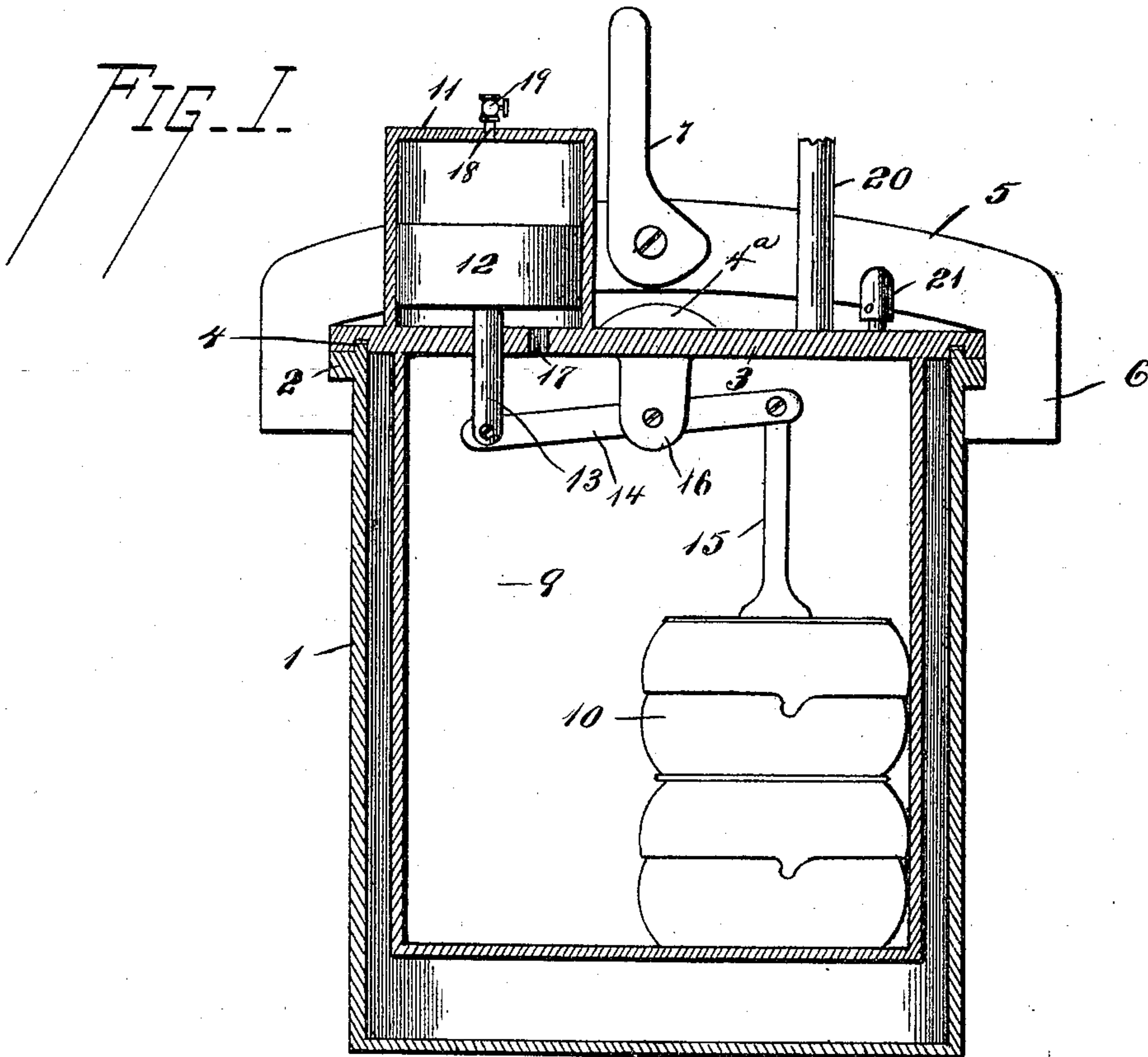
No. 607,823.

Patented July 26, 1898.

L. H. BERG.  
VULCANIZING APPARATUS.

(Application filed Aug. 26, 1897.)

(No Model.)



Witnesses

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# UNITED STATES PATENT OFFICE.

LUDVIG H. BERG, OF BRIGHAM CITY, UTAH.

## VULCANIZING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 607,823, dated July 26, 1898.

Application filed August 25, 1897. Serial No. 649,498. (No model.)

*To all whom it may concern:*

Be it known that I, LUDVIG H. BERG, a citizen of the United States, residing at Brigham City, in the county of Box Elder and State of Utah, have invented certain new and useful Improvements in Vulcanizing Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has reference to a novel construction in a vulcanizing apparatus that is employed by dentists in vulcanizing teeth-plates, the object being to provide improved and effectual means for closing the boiler in which the vulcanizing takes place and also for closing the flasks in which the teeth are situated.

The invention consists in the features of construction hereinafter described and specifically claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a vertical section of a vulcanizing apparatus constructed in accordance with this invention, the section above the cover taken on the line *x x* and the section below the cover taken on the line *y y* of Fig. 2. Fig. 2 is a top plan view.

Referring now to said drawings, 1 indicates the boiler that is provided a little distance below its upper edge with an outwardly-extending flange 2. The cover for this boiler is indicated by 3 and is provided on its lower side with an annular groove 4 to receive the upper edge of the boiler, so that the outer rim of the cover rests upon the flange 2. It is also provided at a point adjacent to its center with a convex projection 4<sup>a</sup>, for a purpose which will hereinafter appear. Means for closing the cover upon the boiler in a steam-tight manner comprise a cross-bar 5, that is provided at its ends with the fingers 6. The inner edges of these fingers 6 are notched, so as to receive the flange 2 and the edge of the cover, and the cross-bar 5 is provided with a cam-lever 7, that presses upon the top of the cover 3 and serves to force it tightly upon the upper end of the boiler 1. The said cam-lever bears against the upper surface of the convex projection 4<sup>a</sup>, heretofore referred to, and serves to force and hold said cover in close engagement with the boiler.

It is seen from the foregoing description

that the cover can be fastened upon the boiler quickly and in a steam-tight manner and that the use of screws or other fastening means is avoided, since the entire operation of closing the boiler is accomplished by one movement of the lever 7.

Depending from the cover 3 is a frame 9, that extends downwardly and into the boiler and upon which the flasks 10 are supported. The cover is provided with an upwardly-extending cylinder 11, in which is mounted a piston 12, the stem 13 of which passes through an opening in the cover and is pivoted to one end of a lever 14, to the other end of which is pivoted a post 15. This lever is pivoted between its ends upon a hanger 16, depending from the cover. The opening 17 is made through the cover to establish communication between the boiler and the cylinder 11 below the piston. The upper end of the cylinder is provided with an outlet-pipe 18, controlled by a valve 19. A steam-inlet pipe 20 is fastened to the cover 3, and the said cover is also provided with a safety-valve 21.

In use the flasks are placed upon the frame and below the end of the post 15. The cover is then placed upon the boiler and secured in place by the cam-lever 7. Steam is then admitted to the boiler through the pipe 20, enters the cylinder, and raises the piston. This forces the post downwardly and upon the top flask, so as to close the flask while the vulcanizing operation takes place. It is understood, of course, that a suitable thermometer can be employed to ascertain the temperature within the boiler.

Having thus described the invention, what is claimed as new is—

A vulcanizing apparatus comprising a boiler, a cover therefor, means for securing said cover upon the boiler and for admitting steam thereto, a cylinder carried by said cover communicating with said boiler, a piston within said cylinder, a lever mounted upon the cover and connected at its opposite ends with said piston, and with a post and a frame depending from said cover.

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

LUDVIG H. BERG.

Witnesses:

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