

900,431.

G. H. SCHEER.  
FIXING AND WASHING TANK.  
APPLICATION FILED AUG. 7, 1907.

Patented Oct. 6, 1908.

Fig. 1

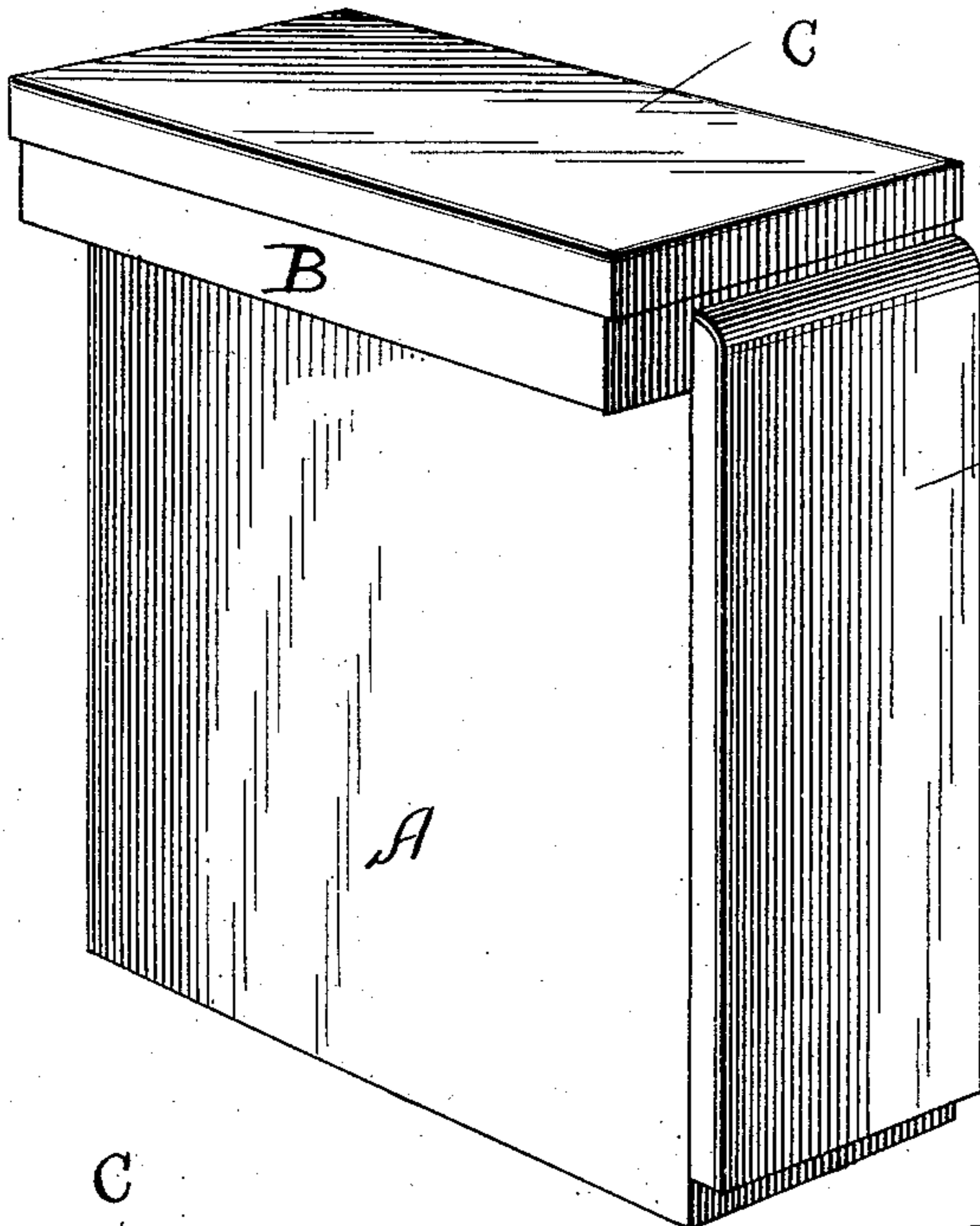


Fig. 4.

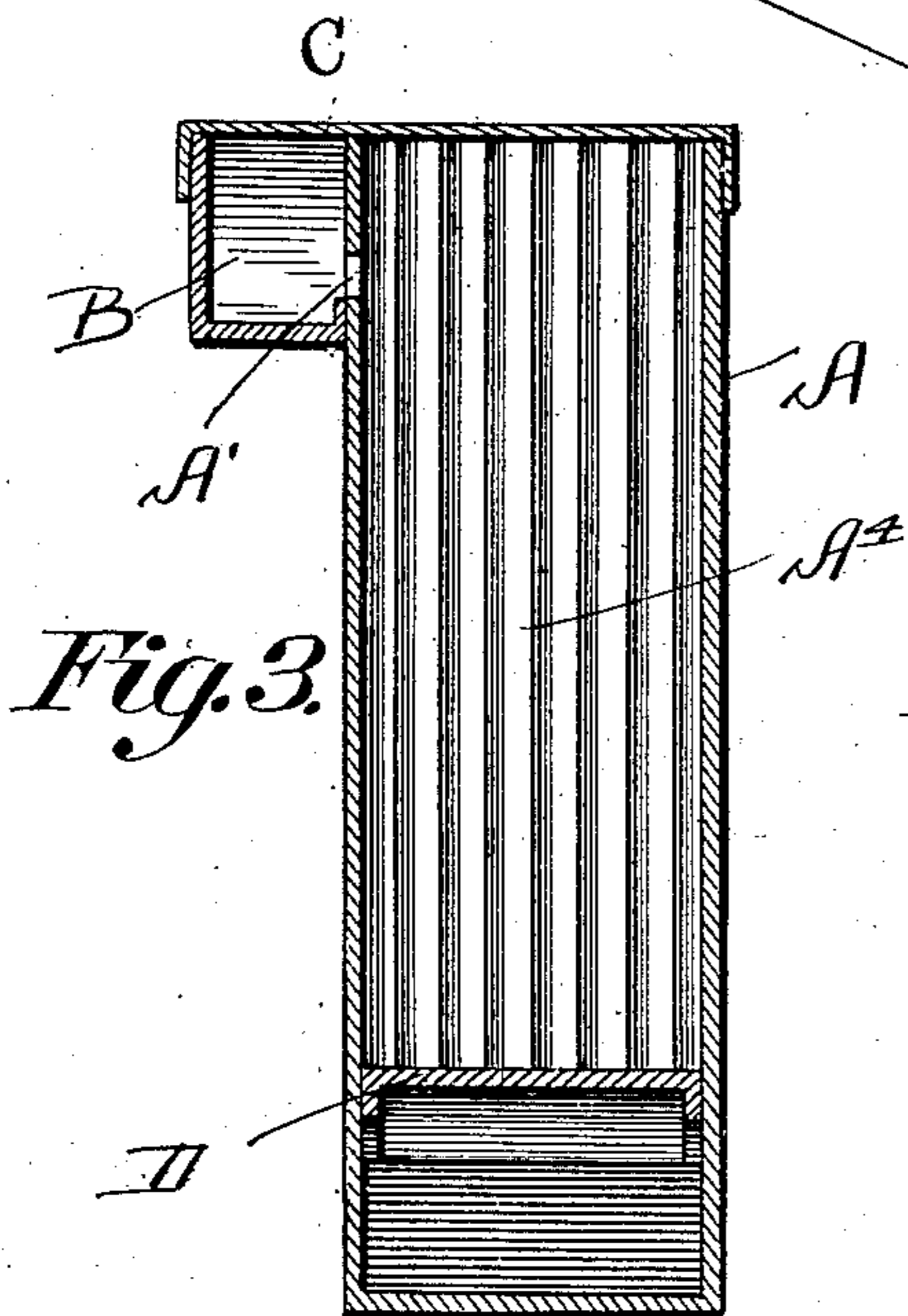
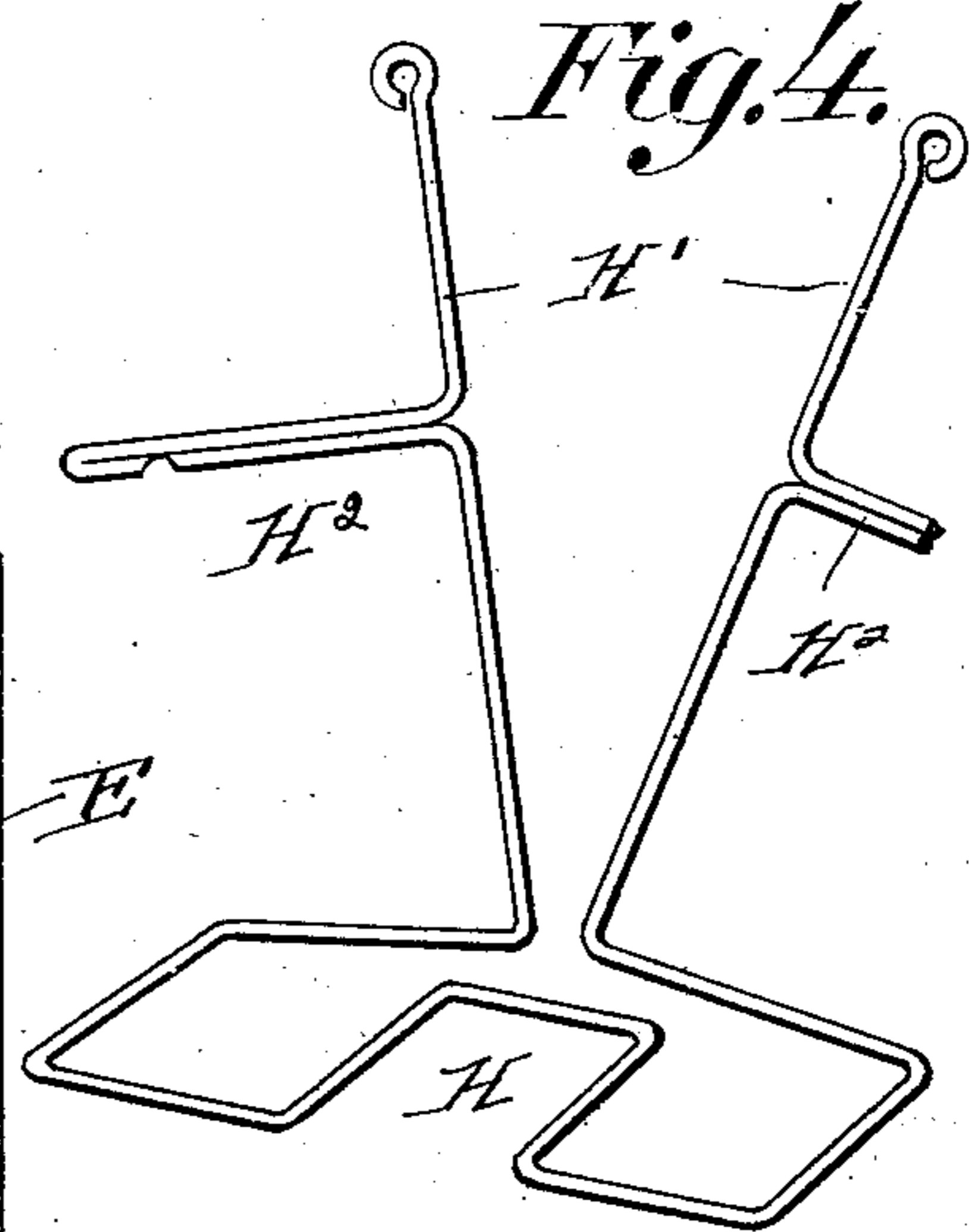
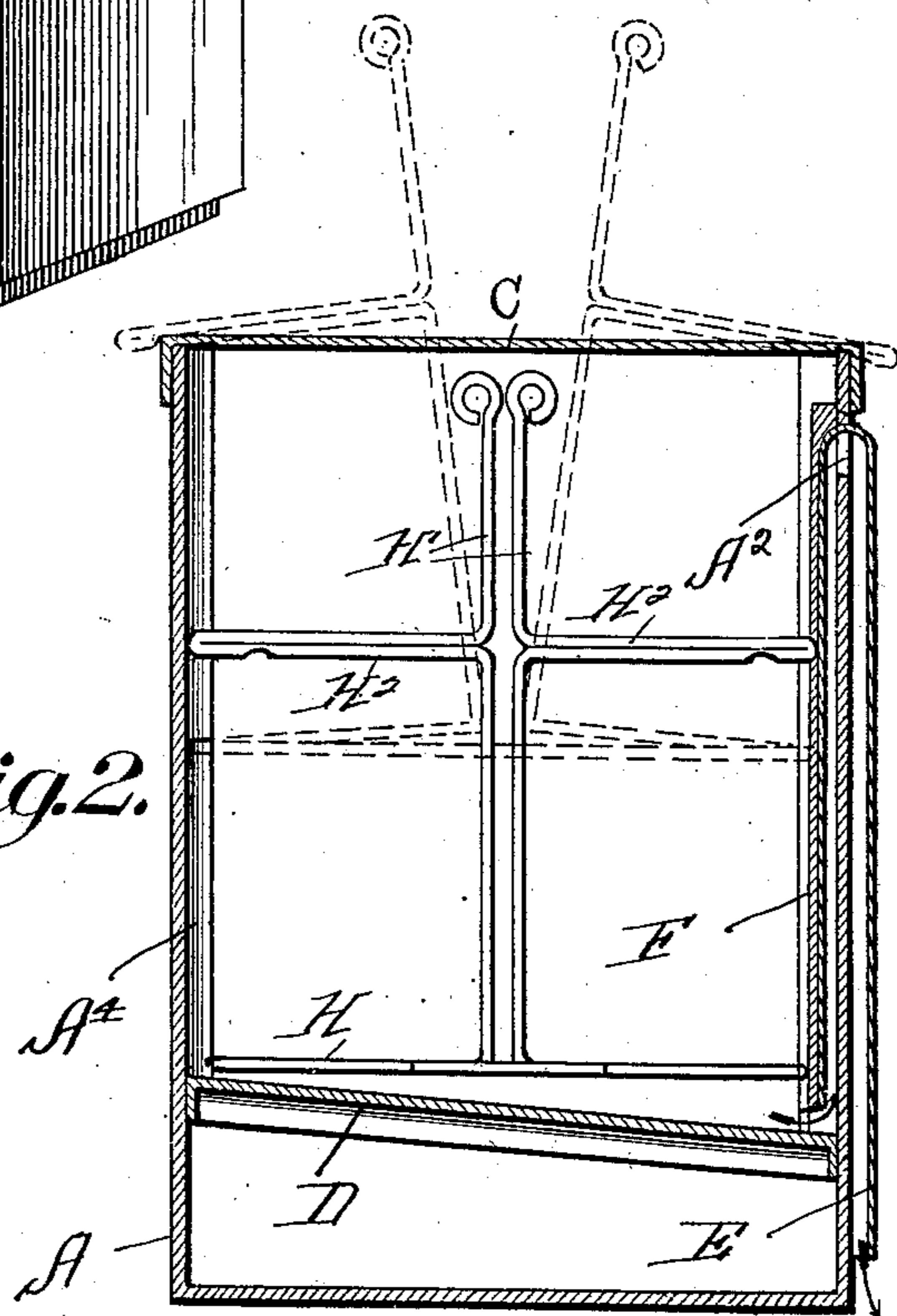


Fig. 2.



Witnesses

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# UNITED STATES PATENT OFFICE.

GEORGE HENRY SCHEER, OF SHEBOYGAN, WISCONSIN.

## FIXING AND WASHING TANK.

No. 900,431.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed August 7, 1907. Serial No. 387,557.

*To all whom it may concern:*

Be it known that I, GEORGE H. SCHEER, a citizen of the United States, residing at Sheboygan, in the county of Sheboygan and State of Wisconsin, have invented a new and useful Improvement in Fixing and Washing Tanks, of which the following is a specification.

This invention relates to tanks for developing, fixing and washing dry plates, the object being to provide a tank so constructed that the plates will be held spaced apart so that the developing fluid or washing fluid will pass readily between the same so as to come into contact with every part of the plate.

Another object of my invention is to provide a tank so constructed that the hypo will be removed from the films as the water passes over the plate and carried out of the tank from the bottom by a siphon tube.

Another object of my invention is to provide very novel means for holding the plates in the tank so that they can be readily removed when desired.

Another object of my invention is to provide a tank in which the water enters from the top and passes out from the bottom at one end, so that the water which is heavily charged with hypo will pass out of the tank.

Still another object of my invention is to provide a tank with a slanting bottom so that the particles of hypo removed from the plates will be carried to the lowest part of the tank where they will be carried off by the flow of water caused by the siphon.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts, hereinafter fully described, and pointed out in the claims.

In the drawing forming a part of this specification:—Figure 1 is a perspective view of my improved tank. Fig. 2 is a longitudinal sectional view through the same. Fig. 3 is a transverse sectional view, and Fig. 4 is a perspective view of a plate holder detached.

Referring to the drawings A indicates a deep rectangular tank having an oblong trough B secured to one of its sides at its upper end, the side of the tank being provided with a longitudinal slot A' communicating with the trough, through which water is adapted to pass into the tank, the tank and trough being inclosed by a cover C. An inclined bottom D is arranged in the tank

above the bottom of the tank and one end of the tank is provided with a slot A<sup>2</sup> adjacent its upper end extending across the whole width of the end. A bowed metal plate E is inserted into the slot, the same width of the tank, the bowed portion being secured to the upper edge of the slot, and one of the depending portions of the plate being secured at its edges to the inside of the sides of the tank and extending down to a point adjacent the lower end of the inclined bottom, and is spaced from the end of the tank. The other depending portion of the bowed plate extends down on the outside of the end of the tank, and having its side edges secured to the tank, the plate and sides forming a flat siphon tube adapted to drain the fluid out of the tank, the outside depending portion of the tube being longer than the portion within the tank, and extending down below the inclined bottom, thus producing siphonic action.

The inside of one end of the tank is formed with a series of vertical grooves A<sup>4</sup> and a strip of metal F is secured to the outer face of the inner depending portion of the tube, which is also provided with a series of vertical grooves, the two forming guides for the plates, adapted to hold the same apart, whereby a free circulation of water or fluid can pass between the same, so as to reach every part of the plates.

Arranged in the tank is a plate-holder H which consists of a wire rectangular frame having an inwardly projecting U-shaped portion, the ends of the frame extending upwardly forming handles H' which are provided with outwardly and inwardly extending portions forming arms H<sup>2</sup> which are provided with notches adapted to fit over the edges of the tank, when drawn up and hold the plates above the fluid, so that they can be readily removed. It will be readily seen that the spring action of the arms of the holder will hold the holder in a lowered or raised position.

When it is desired to wash the plates, the water supply in the trough can be regulated so that the overflow will not reach the upper portion of the bow of the siphon tube, so as to cause the siphon to start.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A device of the kind described consisting of a tank apertured upon one side adja-

cent the top and horizontally slotted upon one adjacent side, a trough carried by the apertured side and communicating with the tank through the aperture, an inclined bot-  
5 tom arranged in said tank the lower edge of said bottom resting adjacent the slotted side of the tank, a bowed plate, the bow portion of said plate being secured to the upper edge of the slot, a portion of the plate extending  
10 down the inner side of the tank and a portion extending down the outer side of the tank, the outer portion of the plate having its side edges secured to the tank, and having its lower edge extending below the lower  
15 edge of the inclined bottom, the inner portion of the plate terminating short of said bottom and a cover common to the tank and trough.

2. A device of the kind described comprising  
20 ing a tank having an inclined bottom, the ends of said tank being vertically grooved, a siphon arranged at one end of the tank,

means for supplying a current of water to said tank, and a plate holder consisting of a rectangular wire frame arranged horizontally  
25 and movably in the tank, said frame having integral spring wire handles extending upwardly from one of its side members midway the ends of the frame, and laterally extending arms carried by said handles, said arms  
30 being grooved upon their under sides, the free ends of said arms extending into the grooves of the ends of the tank, when said plate holder is in its normal position, the  
35 spring wire arms being parallel to each other, and the grooves of said arms engaging the upper edges of the ends of the tank when the plate holder is in an elevated position and the arms sprung apart.

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Witnesses:

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