

(No Model.)

F. F. WILCOX.
WATER TANK.

No. 448,870.

Patented Mar. 24, 1891.

Fig. 1.

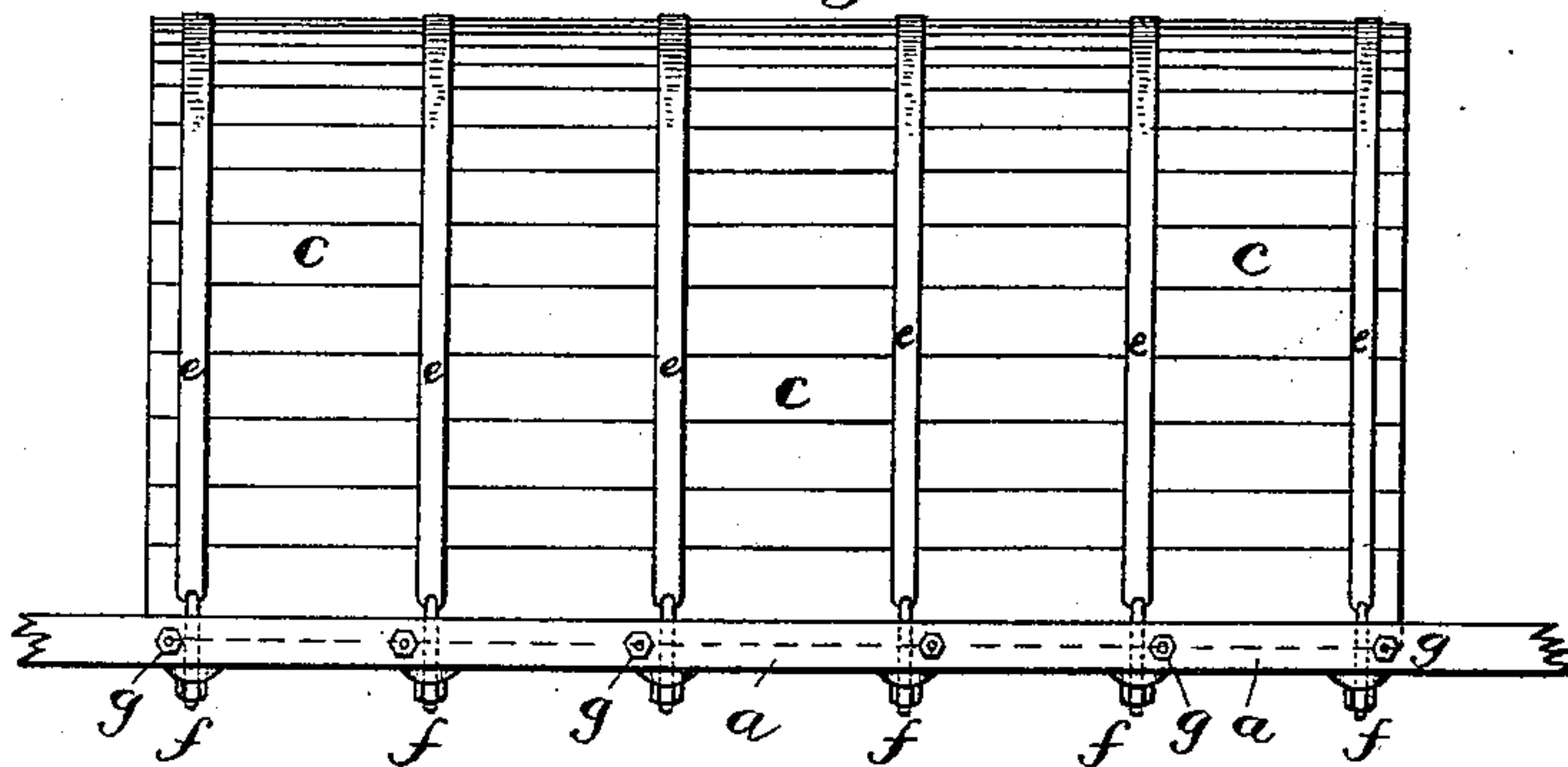


Fig. 2.

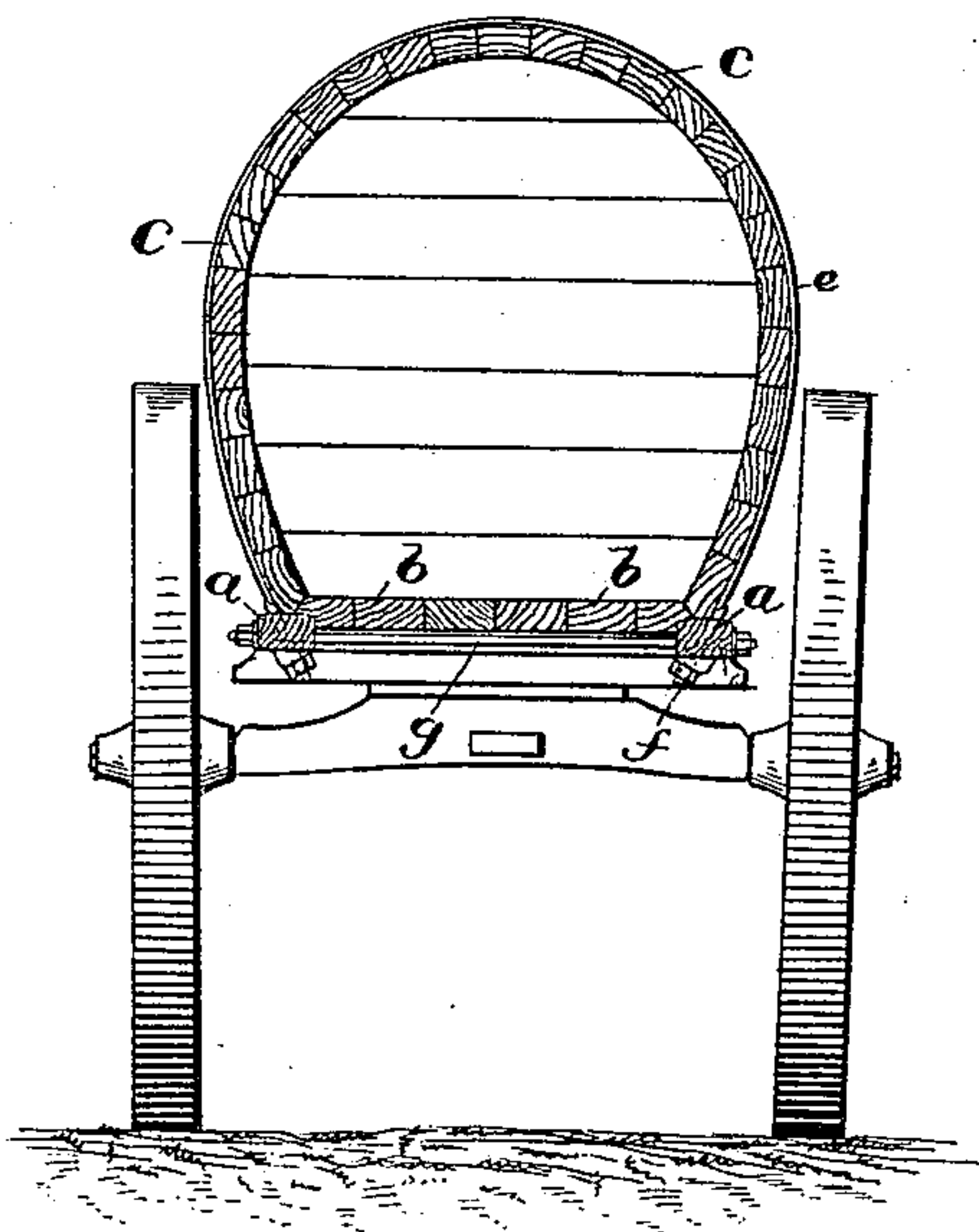
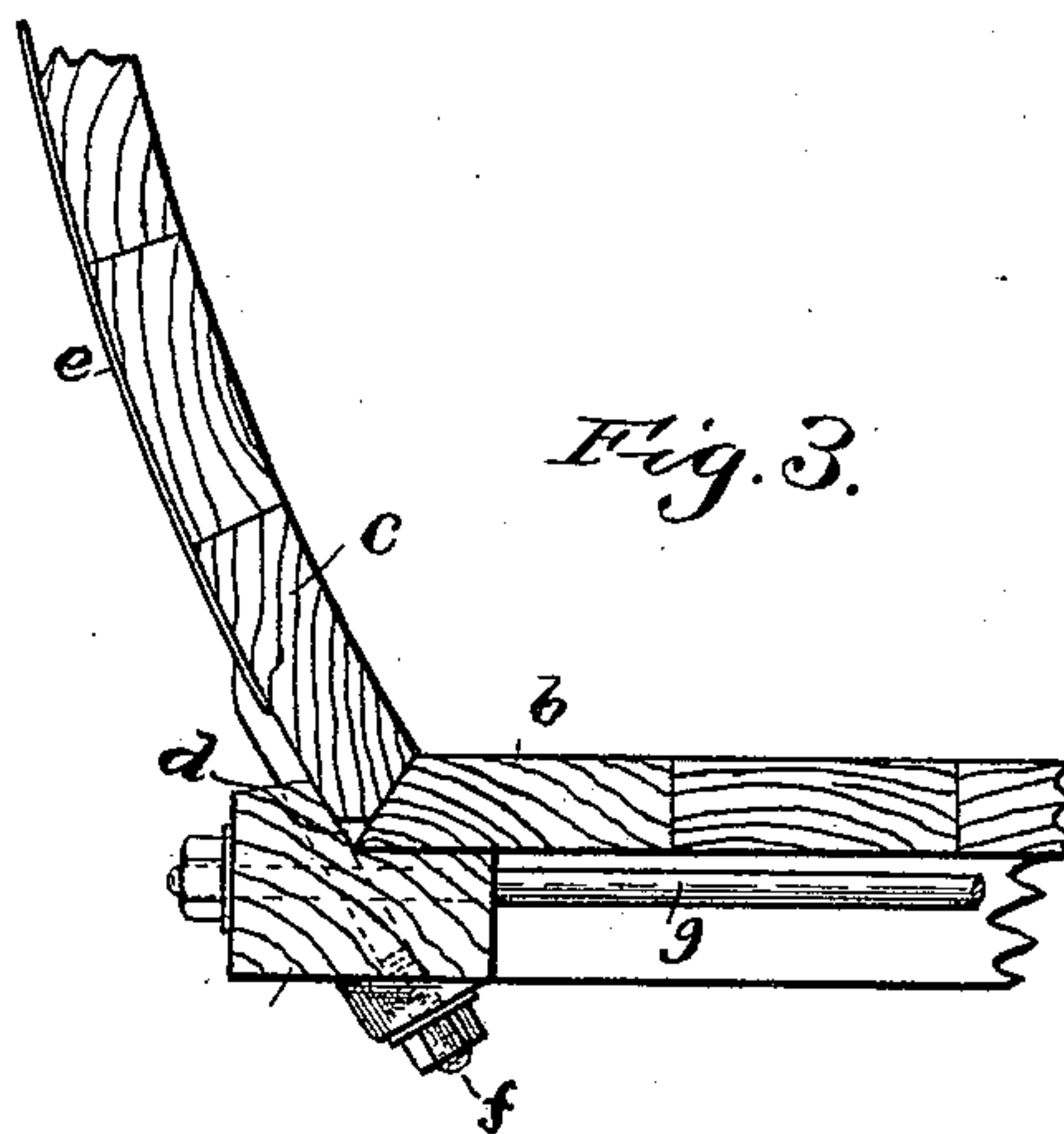


Fig. 3.



WITNESSES:

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FRANK F. WILCOX, OF SOUTH BEND, INDIANA, ASSIGNOR TO STUDEBAKER BROTHERS, OF SAME PLACE.

WATER-TANK. .

SPECIFICATION forming part of Letters Patent No. 448,870, dated March 24, 1891.

Application filed May 28, 1890. Serial No. 353,508. (No model.)

To all whom it may concern:

Be it known that I, FRANK F. WILCOX, of South Bend, in the county of St. Joseph and State of Indiana, have invented certain new
5 and useful Improvements in Water-Tanks; and I do hereby declare that the following is a full and accurate description of the same, reference being had to the accompanying drawings, wherein—

10 Figure 1 is a side elevation of my invention, adapted to serve as a tank for a watering-cart. Fig. 2 is a transverse section of the same. Fig. 3 is an enlarged section of a portion of the same, showing the construction
15 more clearly.

The object of my invention is to construct a tank of staves, so that the hoops may be tightened to any desired extent without displacement on the side of the tank. I propose to make the same with a cross-section, which may be described as horseshoe-shaped, or more accurately, perhaps, as a segment of an ellipse. It might equally well be a segment of a circle, but the elliptical figure is
25 preferable because capacity can then be increased without an increase of diameter laterally or to a degree which would require the cart-wheels to be placed more than ordinarily distant from each other; but whether the
30 cross-section is the segment of a circle or the segment of an ellipse is immaterial, because the mode of tightening will be the same in any case.

In the drawings, A is the tank, composed of
35 a base-frame *a*, bottom staves *b*, and side staves *c*. The side bars of the base-frame are rabbeted, as at *d*, to receive and seat the adjoining staves of the bottom and side. The hoops *e e* are provided at each end with a
40 screw-threaded shank *f*, which is caused to pass down through the side bar *a*, and with a washer and nut on the under side of said bar the side staves may be put under pressure to any desired degree to force them together. The bottom frame *a* is tied together

by the bolts *g*, which pass horizontally through said frame immediately below the staves.

Aside from the general advantages of the segmental form of the tank, there is a decided
50 practical advantage in making the base-frame and tank parts of the same structure, as it simplifies the wagon-frame upon which the tank is to be mounted for the purposes of a sprinkler, and there is also a decided ad-
55 vantage in dividing the clamping effect between two agencies instead of submitting it all to one, as is the case where the cask is circular and each hoop passes entirely around it.

Having described my invention, I claim— 60

1. A water-tank built of staves, having in cross-section a form which is the segment of a curved figure, substantially as described, and provided with a base-frame *a*, rabbeted at *d* to seat the adjoining staves of bottom
65 and side clamping-hoops *e*, which pass around said tank and through said frame, and tie-bolts *g*, which pass through said frame below said tank.

2. A water-tank constructed with a bed-
70 frame rabbeted at *d*, bottom staves *b*, laid in said frame, side staves *c*, erected on said frame and resting in said rabbet, and hoops *e*, the ends whereof pass through said frame and compress the staves, as set forth. 75

3. A water-tank for sprinkling-carts, composed of a bed-frame *a*, each side bar whereof is rabbeted along its inner upper corner, a bottom having beveled edges composed of
80 staves *b* arranged horizontally in said frame, side staves *c*, beveled to fit edges of the bottom within said rabbets and erected therefrom in the segment of a curved figure, and hoops *e*, the ends whereof pass through said
85 bed-frame to compress said staves, as set forth.

FRANK F. WILCOX.

In presence of—

JEREMIAH L. TAYLOR,

H. W. CASE.