

No. 689,643.

Patented Dec. 24, 1901.

G. D. GIBBS.

HOSE REEL.

(Application filed Mar. 18, 1900.)

(No Model.)

Fig. 1.

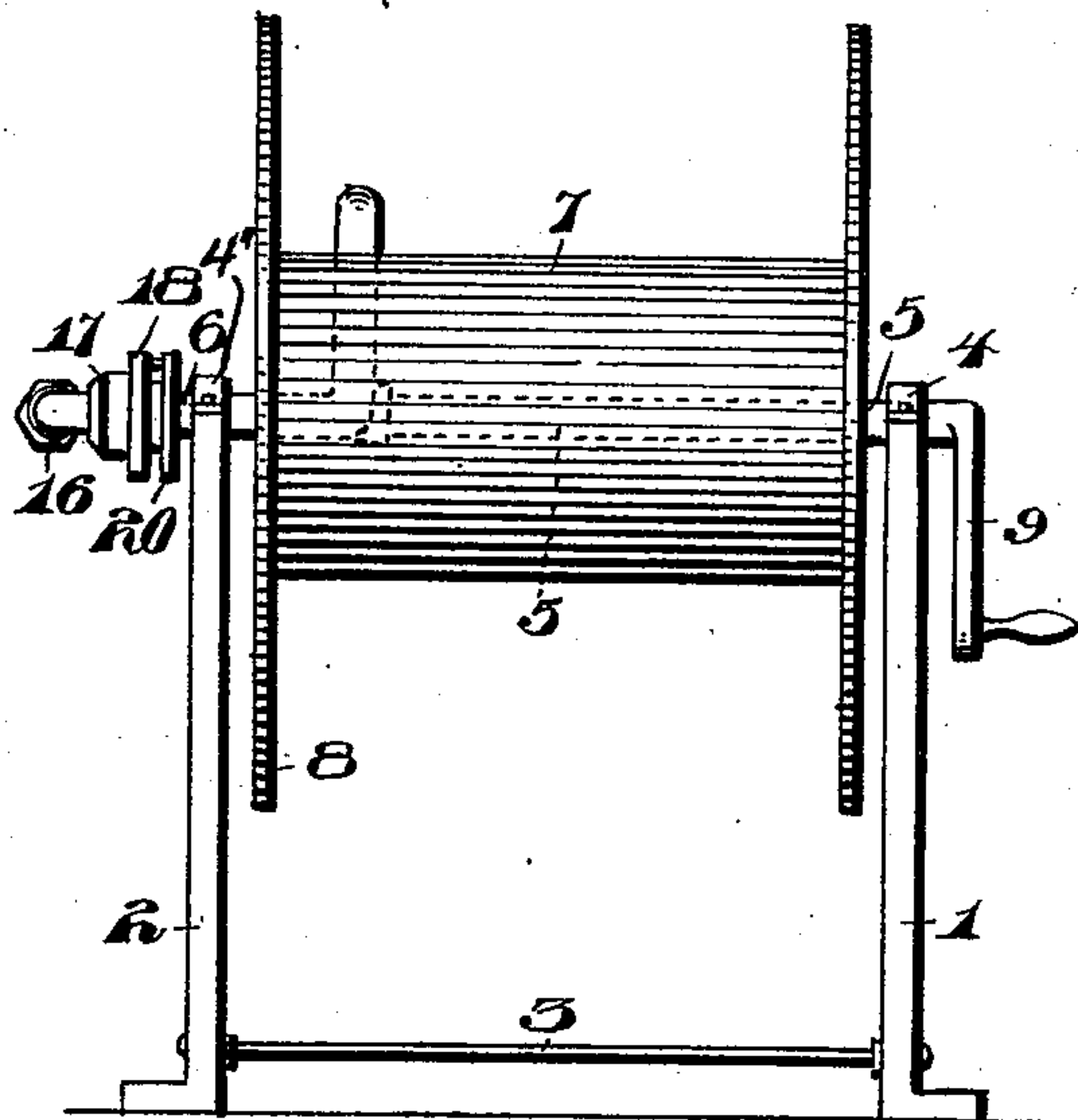


Fig. 2.

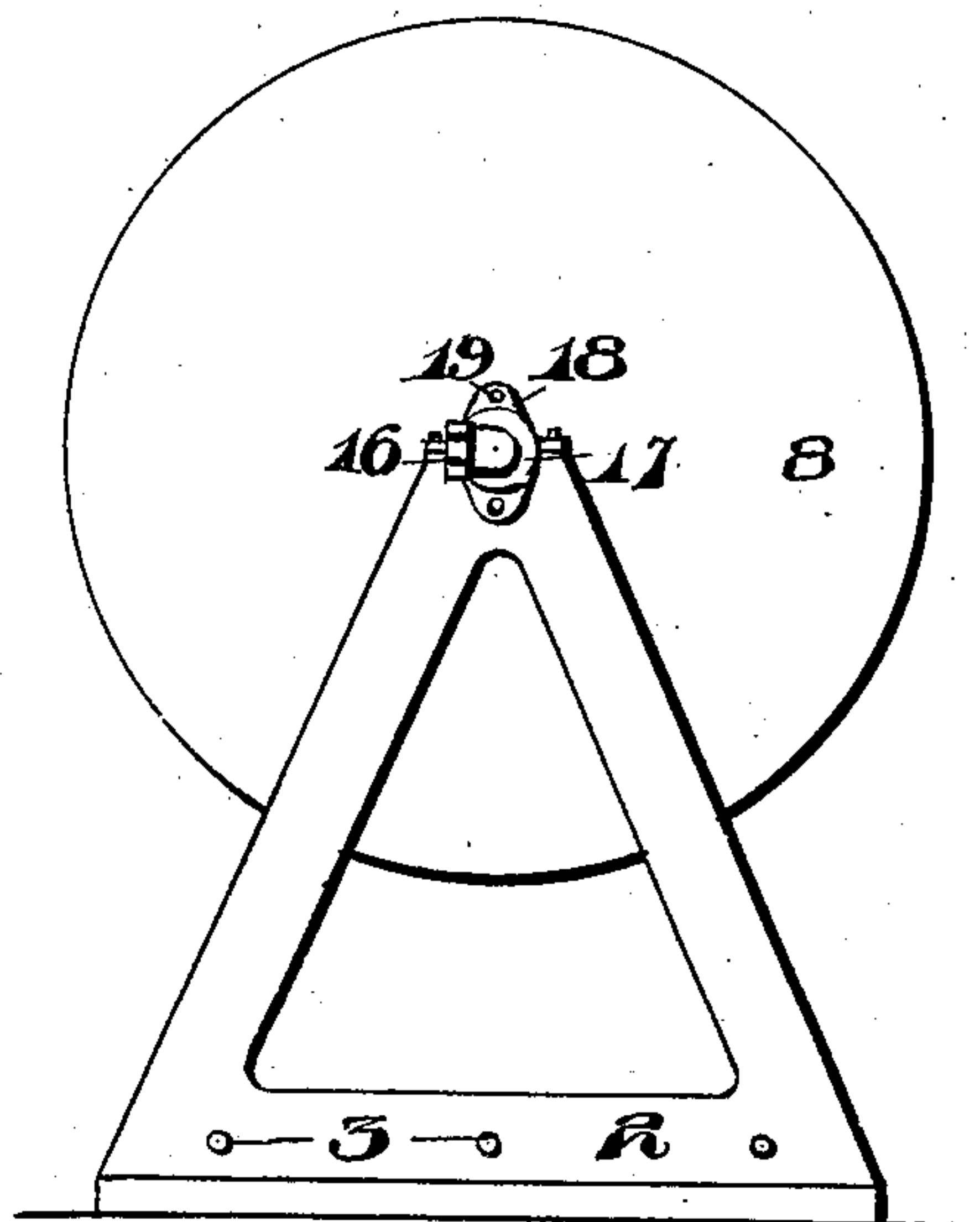


Fig. 3.

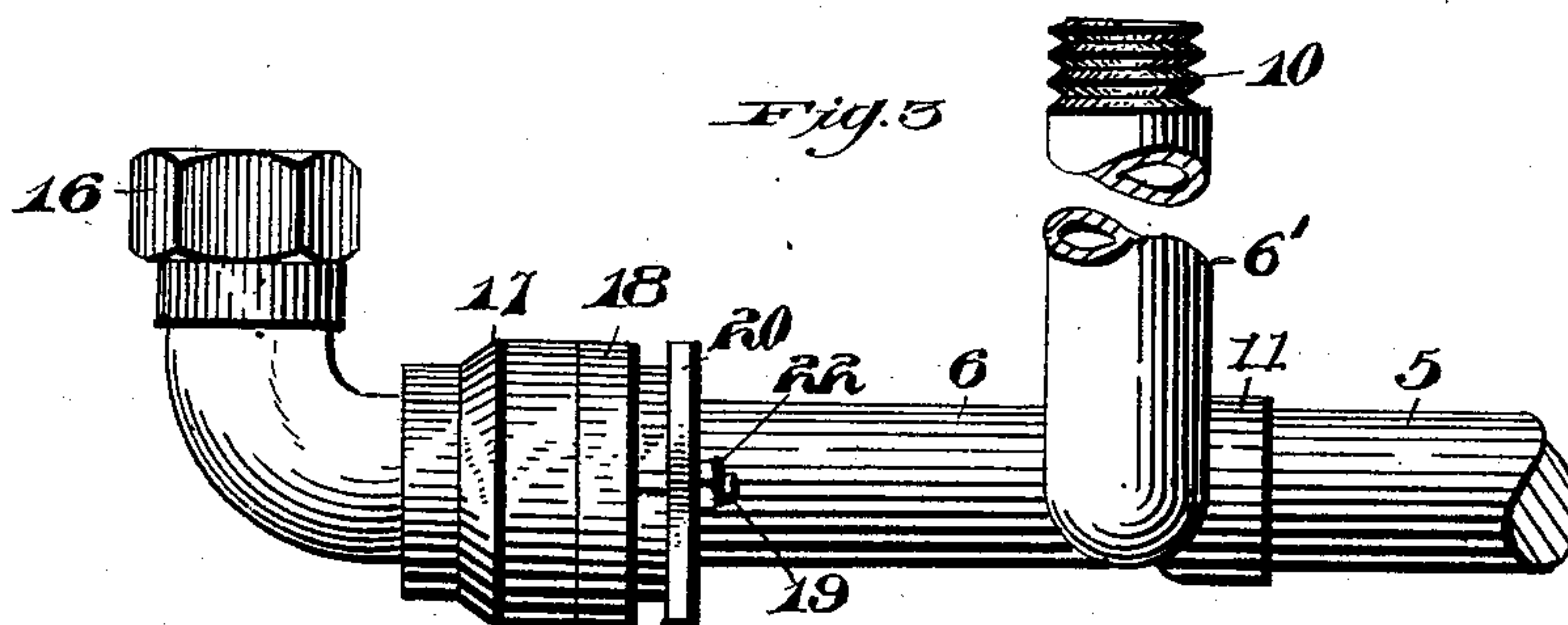
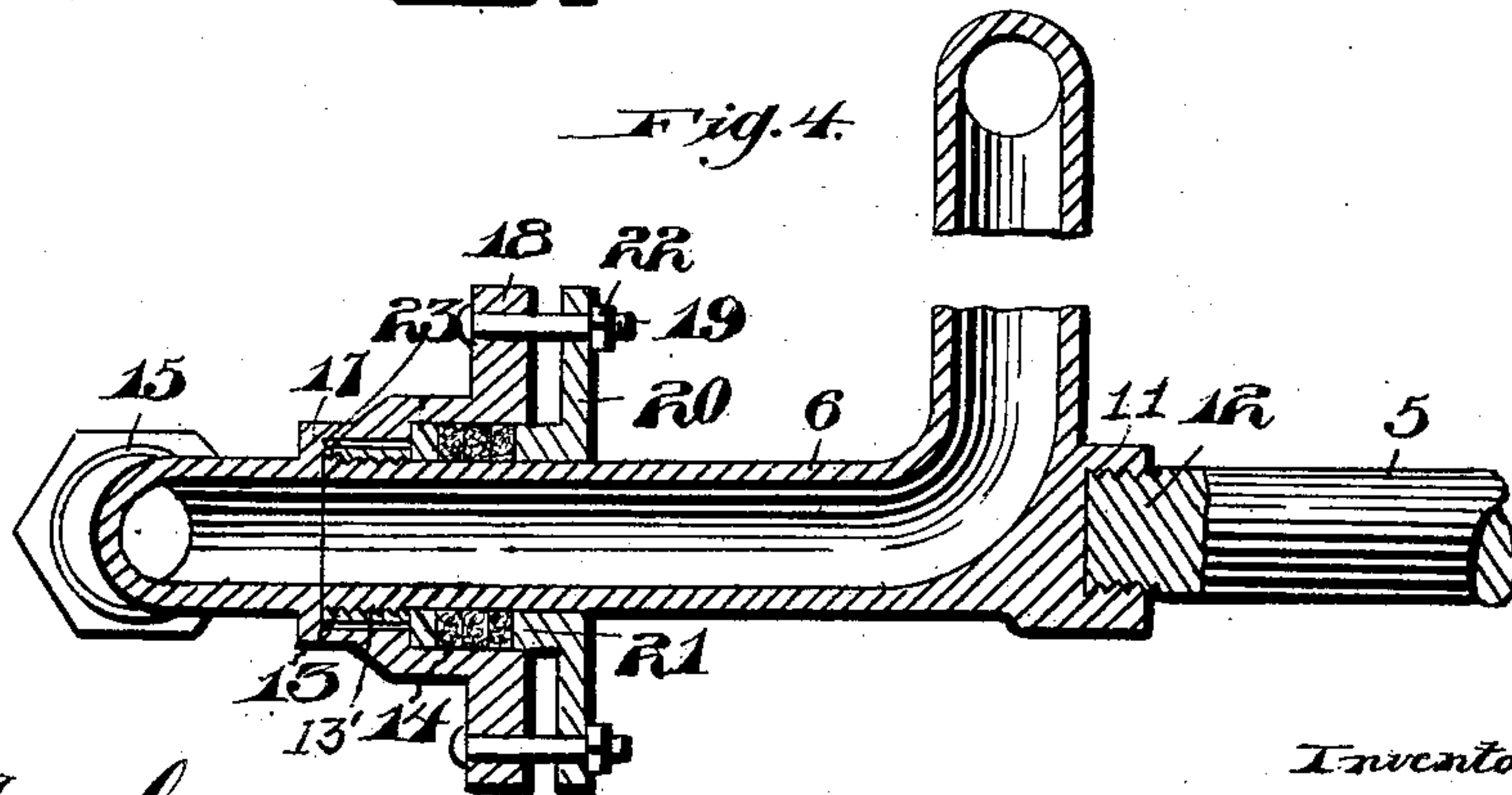


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

GLENN D. GIBBS, OF PITTSBURG, PENNSYLVANIA.

HOSE-REEL.

SPECIFICATION forming part of Letters Patent No. 689,643, dated December 24, 1901.

Application filed March 16, 1900. Serial No. 8,926. (No model.)

To all whom it may concern:

Be it known that I, GLENN D. GIBBS, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Hose-Reels, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in attachments for hose-reels, and has for its object to provide novel means to permit of the flow of water through any length of hose desired without its removal from the reel for the purpose of coupling to a water-supply, thus overcoming the objection and inconvenience of removing the entire length of hose and coupling the same to a source of water-supply.

Briefly described, the attachment consists of securing to one end of the axle of a hose-reel a water-pipe connection, which revolves with the axle and forms the remainder of the same and is suitably attached at one end to the hose when wound upon the reel and at its opposite end swivelly connected to a union in communication with a source of water-supply. Furthermore, the invention aims to construct an attachment of this character which shall be extremely simple in construction, strong, durable, efficient in its use, and comparatively inexpensive to manufacture.

With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

Figure 1 is a front view of a hose-reel, showing my improved attachment connected thereto in full and dotted lines. Fig. 2 is a side view thereof, showing the swivel connection. Fig. 3 is a front view of my improved attachment. Fig. 4 is a longitudinal sectional view thereof, the axle of the hose-reel being broken away.

In the accompanying drawings, 1 and 2 in-

dicating a pair of skeleton supports connected together by and also braced by the cross-rods 3 and carrying on their upper ends journals 4 55 4', in the former of which is journaled one end of the axle 5 and in the latter of which is journaled one end of the water-pipe connection 6. The axle 5 on its free end which extends beyond the support 1 carries an operating-crank 9. The reel consists of the cylindrical hub 7 and sides or flanges 8 and is suitably mounted on the axle and pipe connection. This water-pipe connection is substantially L-shaped in form, the branch or leg 6' 65 thereof extending outwardly through the hub of the reel and having screw-threads 10 to permit the securing of the hose (not shown) thereto. The horizontal branch or leg of the water-pipe connection is provided at its closed 70 end with an annular bushing 11, having a screw-threaded recess to receive the threaded inner end 12 of the axle 5. This horizontal branch or leg of the water-pipe connection is journaled in the bearing 4', carried by the support 2, and has its end threaded, as at 13', 75 to receive the bearing-sleeve 13, the inner end of which abuts the outer one of a series of flexible washers 14, that are mounted on the water-pipe connection. Engaging the outer or free 80 end of the water-pipe connection is a union 15, substantially L-shaped and carrying a coupling 16 for connecting with a source of water-supply. (Not shown.) This union is provided on its inner end with an enlarged cup 17, 85 which surrounds the bearing and the flexible washers 14 and has an annular flange 18 for securing the union to the collar 20, mounted on the water-pipe connection. The collar 20 and flange 18 are provided with registering apertures to receive securing-bolts 90 19, held in position by nuts 22. The inner end of this collar fits within the cup 17 and engages the inner one of the series of flexible washers 14, these washers being thus compressed between the collar 20 and bearing 13 95 to form a perfectly water-tight joint between the union 15 and the water-pipe connection. The tightening of the nuts 22 serves also to draw the shoulder 23 of the union into firm 100 engagement with the outer end of the water-pipe connection. The bearing-sleeve 13 is preferably reduced in diameter for at least a portion of its length to reduce the friction to

a minimum when the water-pipe 6 is revolving with the axle and reel. When water is turned on by the opening of the cock or faucet in the water-supply, (not shown,) the water
5 will pass through the pipe 6 and branch 6' to the hose (not shown) that is wound on the reel, and if it is desired to use but a portion of the hose only the length desired need be unwound from the reel. By this arrangement, as hereto-
10 fore stated, it is not necessary to remove any length of hose to couple it to a separate water-supply, but all that is necessary is to open the nozzle and the hose is ready for use, and also by swivelly connecting the water-pipe 6
15 to the union 15 the reel can be revolved in any manner desired.

It is thought that the many advantages of my improved attachment for hose-reels can be readily understood from the foregoing de-
20 scription, taken in connection with the accompanying drawings, and it will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

In combination with a supply-pipe and a branch pipe carrying a union, an annular en-

larged cup made integral with the end of said 30
branch pipe and extending therebeyond, an annular flange made integral with the ex-
tremity of said cup, said supply-pipe having
a threaded end, a bearing-sleeve of less cir-
cumference than the inner circumference of 35
said cup mounted on the said threaded end of the supply-pipe, an annular flange made
integral with said bearing-sleeve and engag-
ing the inner circumference of said cup, a
collar carrying an annular inwardly-extend- 40
ing flange secured on said supply-pipe, said
flange engaging the periphery of the supply-
pipe and the inner circumference of the said
cup, a series of washers mounted on the pe-
riphery of said supply-pipe and engaged by 45
said collar-flange and bearing-sleeve flange,
said cup-flange and collar having registering
apertures formed therein, and nuts and bolts
engaging in said apertures whereby the said
washers may be adjusted and replaced, sub- 50
stantially as described.

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

GLENN D. GIBBS.

Witnesses:

JOHN NOLAND,
JNO. W. WAY.