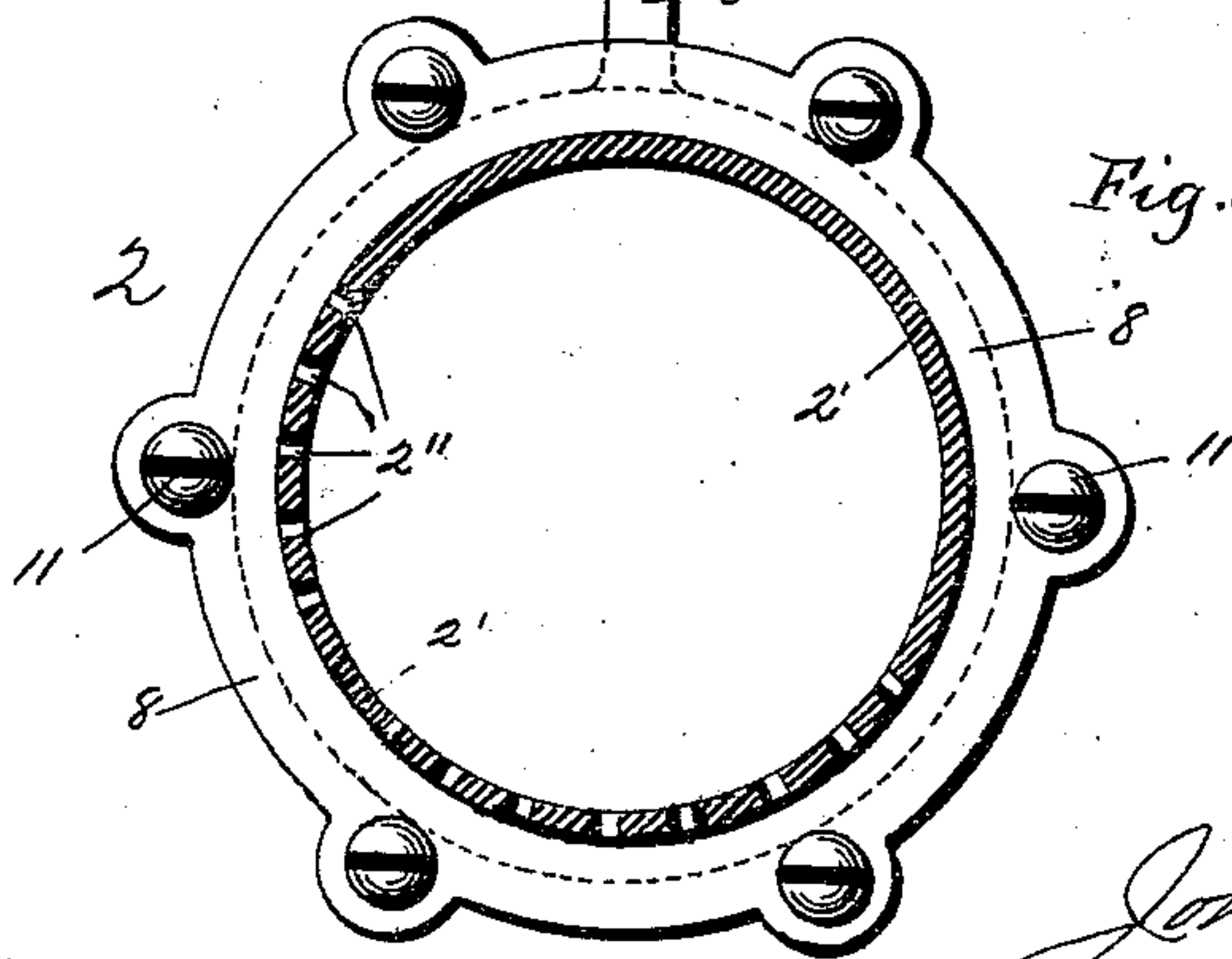
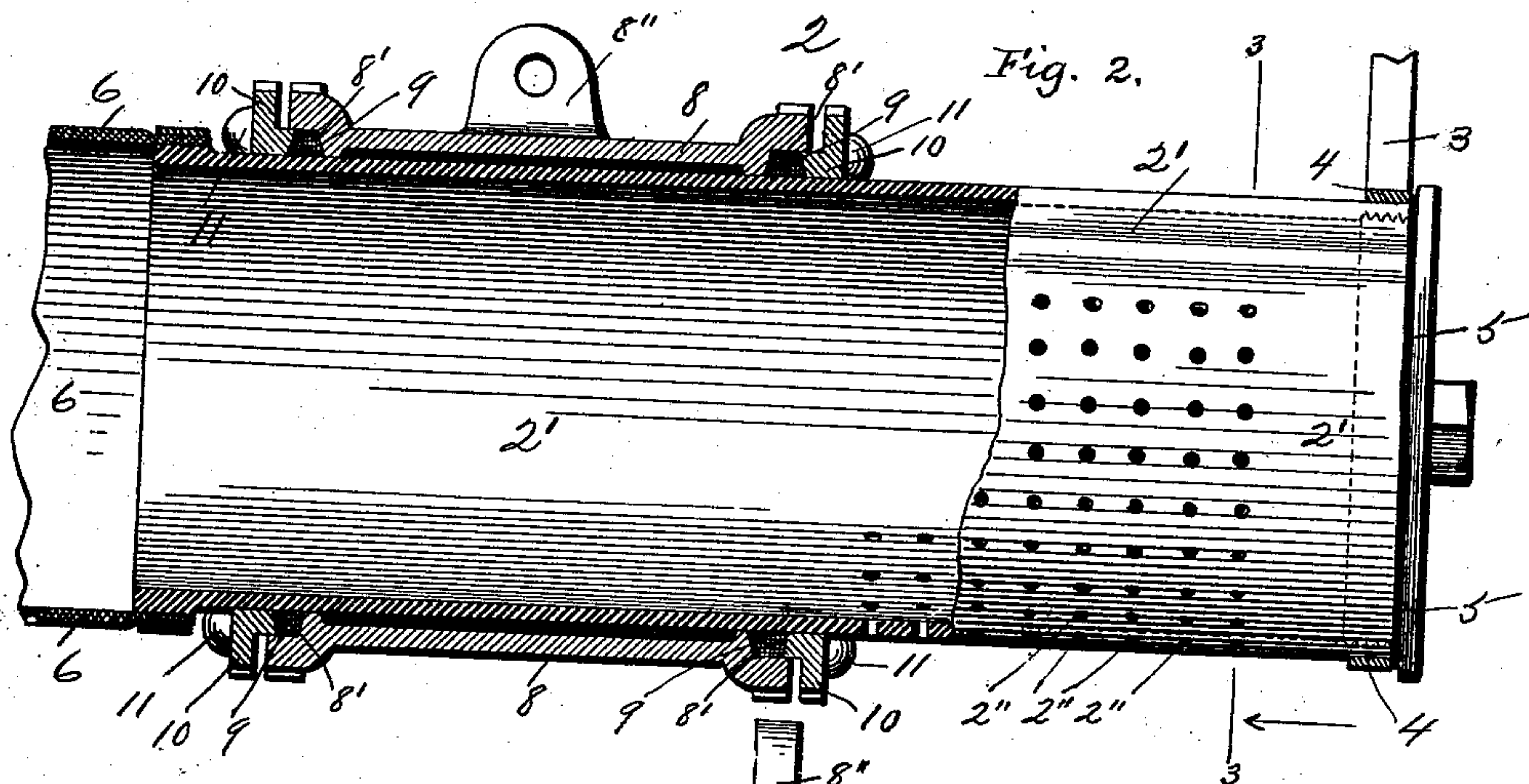
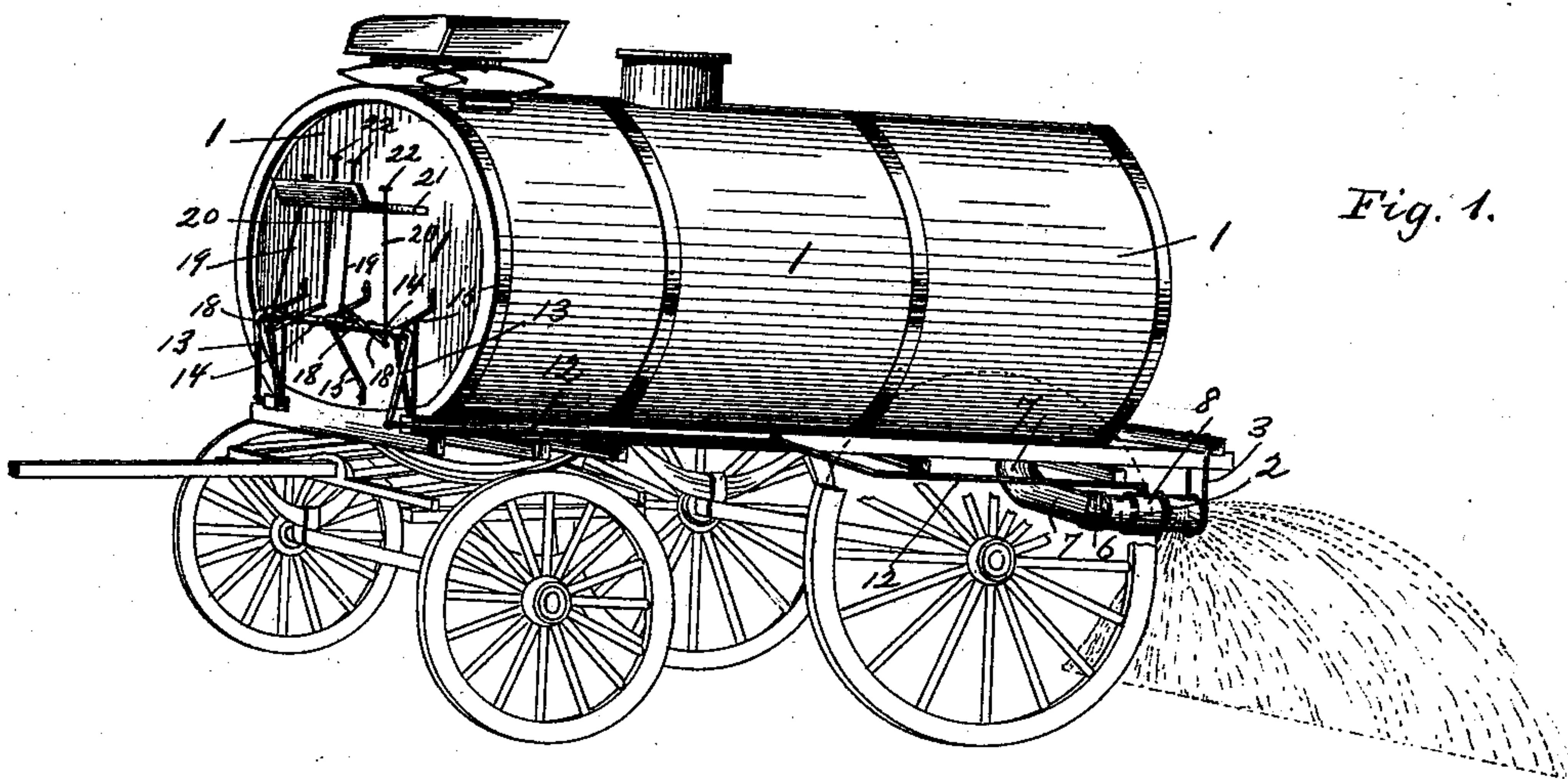


(No Model.)

G. T. AITCHISON.  
SPRINKLING WAGON.

No. 549,481.

Patented Nov. 12, 1895.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

GEORGE T. AITCHISON, OF WORCESTER, MASSACHUSETTS.

## SPRINKLING-WAGON.

SPECIFICATION forming part of Letters Patent No. 549,481, dated November 12, 1895.

Application filed April 22, 1895. Serial No. 546,677. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE T. AITCHISON, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Sprinkling-Wagons, of which the following is a specification.

My invention relates to sprinkling-wagons, and more particularly to the sprinkling mechanism or sprinkler; and the object of my invention is to improve upon the construction and manner of operating the sprinkler as now ordinarily made, and to provide a sprinkler of very simple construction and operation, and mechanism for operating the same to let on or shut off the water and to regulate the size of spray.

My invention consists in certain novel features of construction of my improved sprinkler, as will be hereinafter fully described, and the nature thereof indicated by the claim.

Referring to the drawings, Figure 1 is a front perspective view of a sprinkling-wagon with my improved sprinkler mechanism combined therewith. Fig. 2 is, on an enlarged scale, a sectional detail of the sprinkler-cylinder detached; and Fig. 3 is a cross-section through the sprinkler-cylinder on line 3 3, Fig. 2, looking in the direction of the arrow, same figure.

In the accompanying drawings, 1 is the tank, of any suitable construction, mounted on suitable running-gear, and 2 is the sprinkler. It will be understood that two sprinklers are used, which may be located at the rear of the tank, as shown, or underneath the tank between the wheels. I prefer to have the sprinkler 2 well elevated and extending in a plane a little below the bottom of the tank, as shown.

The sprinkler 2 consists of a cylinder 2', in this instance rigidly supported at its outer end by a hanger 3, extending down from the frame of the wagon and secured at its lower end to a ring 4, fast on the end of the cylinder 2'. There is no rotary motion of the cylinder.

The cylinder 2' has a series of holes or openings 2'' therein at one end in its lower portion and in its outer portion, as shown in Fig. 3, for about half the length of the cylinder. (See

Fig. 2.) The outer end of the cylinder 2' is in this instance screw-threaded internally and closed by a head 5 screwed thereon. The inner end of the cylinder 2' is connected by a piece of rubber hose 6 or other suitable material to the end of the pipe 7, which leads out of the bottom of the tank 1. The hose 6 is secured to the end of the cylinder 2' and to the end of the pipe 7, so as to make a watertight joint between said cylinder and pipe.

Mounted on the cylinder 2' to slide longitudinally thereon is a sleeve 8, provided in this instance with a circumferential recess 8 in each end, in which is fitted a gasket 9, which is compressed and held therein by a ring 10, secured by screws 11 to the end of the sleeve to prevent any leaking of the water around the ends of the sleeve 8 when said sleeve extends partially or fully over the perforated portion of the cylinder 2'.

To slide the sleeve 8 on the cylinder 2' and move it over the openings therein to shut off wholly or partially the spray of water or to move it away from said openings to allow the water to spray, I preferably combine with said sleeve the mechanism shown in the drawings, and which consists of a rod 12, supported and having a longitudinal motion at the lower part of the tank on the frame of the wagon and pivotally connected at one end with an ear 8'' on the upper side of the sleeve 8 and pivotally attached at its other end to a crank-arm 13 on a rock-shaft 14, mounted in brackets 15, secured to the front end of the tank 1. On the rock-shaft 14 is fast a two-arm lever 18, and to one end of said lever 18 is pivoted the lower end of a vertically-moving rod 19, and to the other end of said lever 18 is pivoted the lower end of a second vertically-moving rod 20. The rods 19 and 20 are supported in the foot-rest 21 at the front end of the tank and are provided with foot-pieces 22 on their upper ends, to be engaged by the foot of the driver of the wagon.

For operating the other sprinkler, (not shown,) similar mechanism to that above described is used, and a second set of levers and a second rock-shaft, as shown in Fig. 1.

The vertical rods 19 and 20 may be operated by the hands of the driver, if preferred.

From the above description, in connection



with the drawings, the operation of my sprinkler will be readily understood by those skilled in the art.

When it is desired to use the sprinkler and spray the water, the rear rod 20 is pushed down, as shown in Fig. 1, causing the shaft 14 to be rocked and, through crank-arm 13 and rod 12, the sleeve 8 to be moved forward on the cylinder 2' to partially or wholly uncover the openings 2'' therein, according to the size of the spray desired. The pushing down of the rod 20 will raise the rod 19, and when it is desired to shut off wholly or partially the spray the rod 19 is pushed down and through the intermediate mechanism will move the sleeve 8 in the opposite direction to wholly or partially cover the opening 2'' in the cylinder 2', according to the size of the spray desired.

The advantages of my improved sprinkler will be readily appreciated. It is of very simple construction and easily operated and will not get out of order. The spray of water may be quickly and easily turned on or shut off, and the size of the spray may be regulated as desired by uncovering more or less of the openings in the cylinder.

It will be understood that the details of con-

struction of my sprinkler-cylinder and the mechanism for operating the sprinkler may be varied, if desired. The sprinkler may be located under the tank, if preferred.

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

In a sprinkler, the combination, with a tank, provided with an outlet and a foot rest, of a cylinder communicating with the outlet, the rear end of which is closed and the portion adjacent thereto is perforated, a longitudinally movable sleeve upon the cylinder provided with a compressible gasket at each end and a lateral projection upon one side, a rock shaft secured to the front end of the tank below the foot rest, a rod for connecting the projection upon the sleeve with the rock shaft, a two armed lever upon the shaft, and a vertically movable rod secured to each end of the lever and projecting through the foot rest, the upper end of each of which rods is provided with a foot piece, substantially as set forth.

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Witnesses:

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