

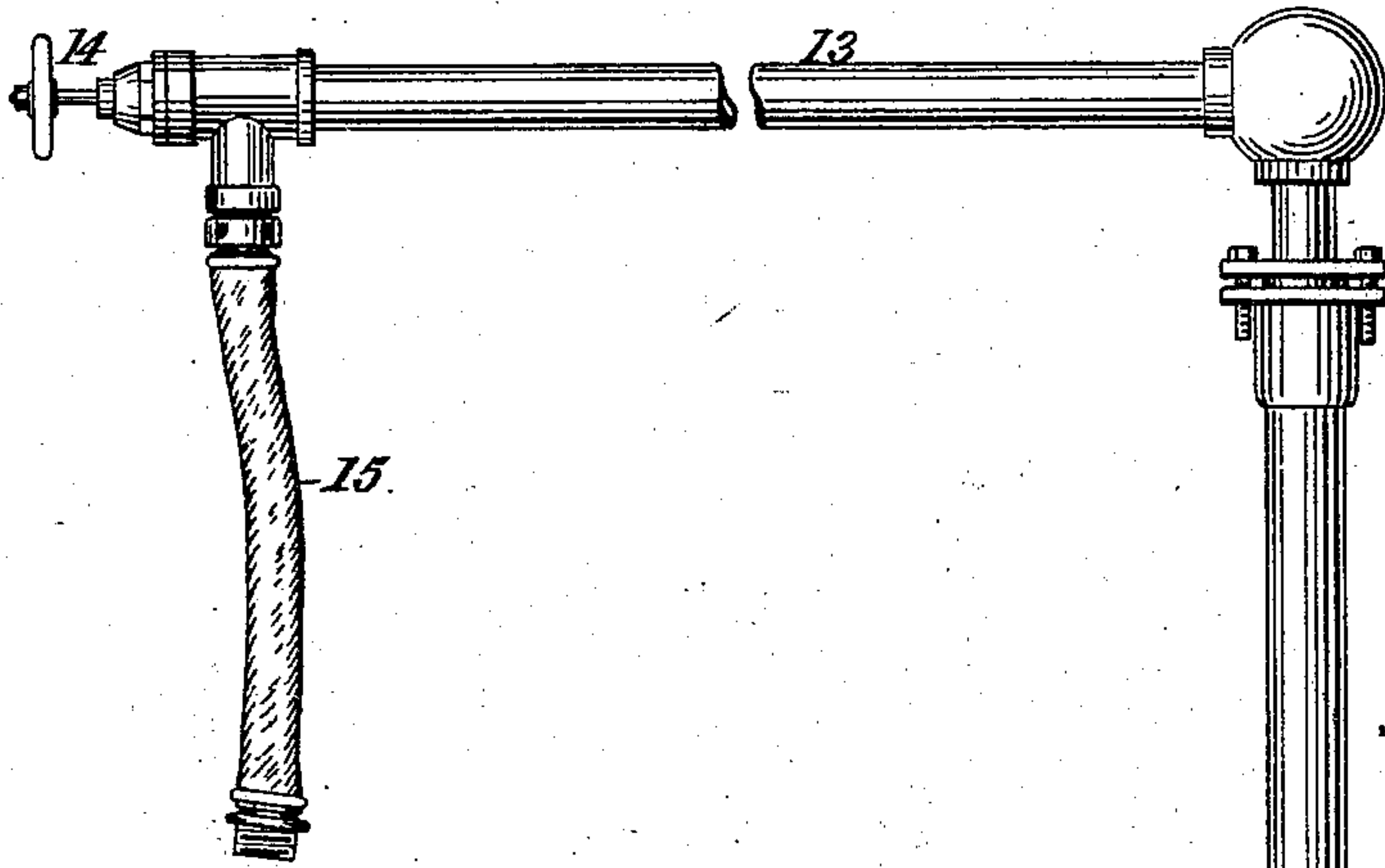
(No Model.)

P. ELEY.

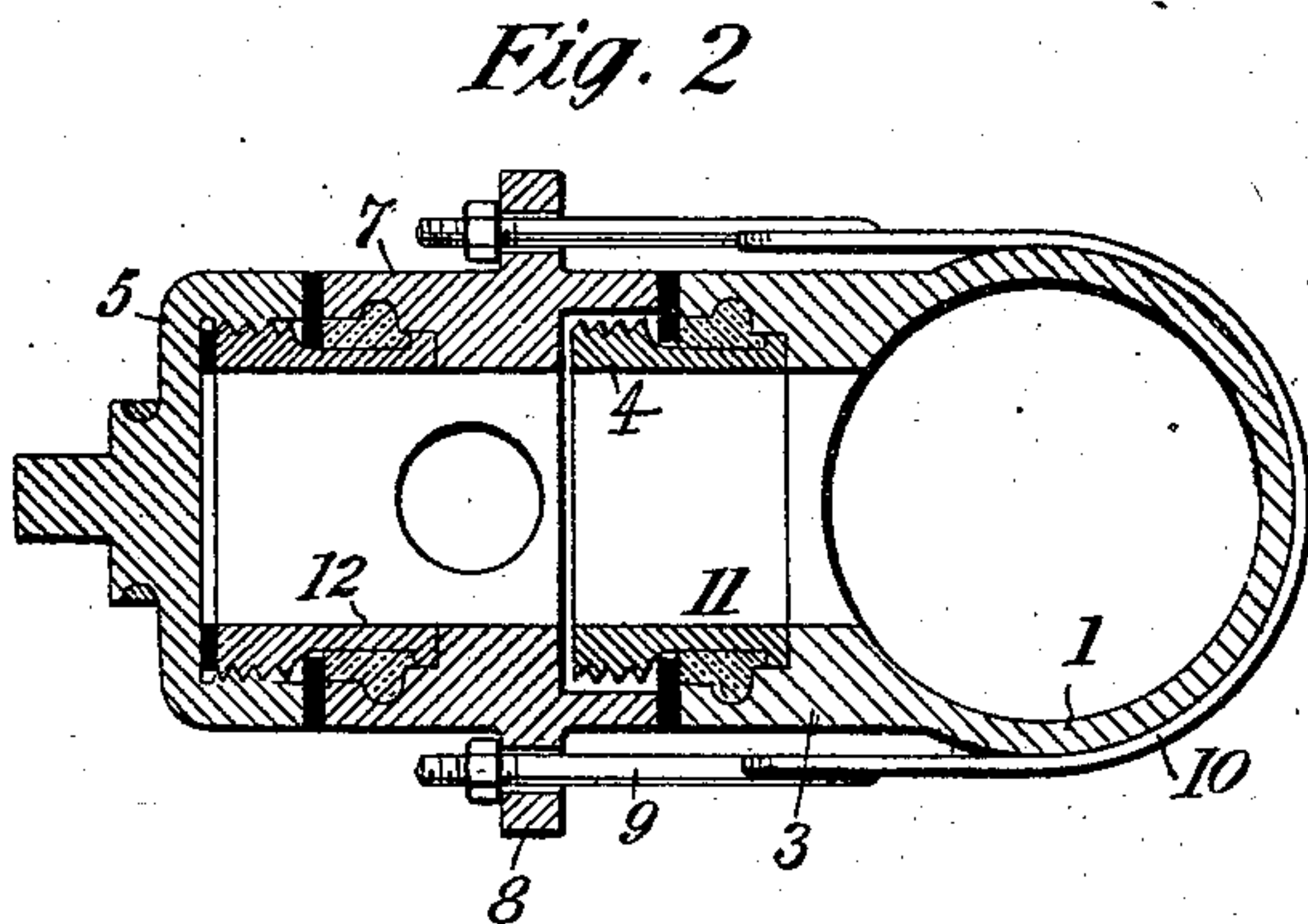
HYDRANT CRANE FOR STREET SPRINKLERS.

No. 548,910.

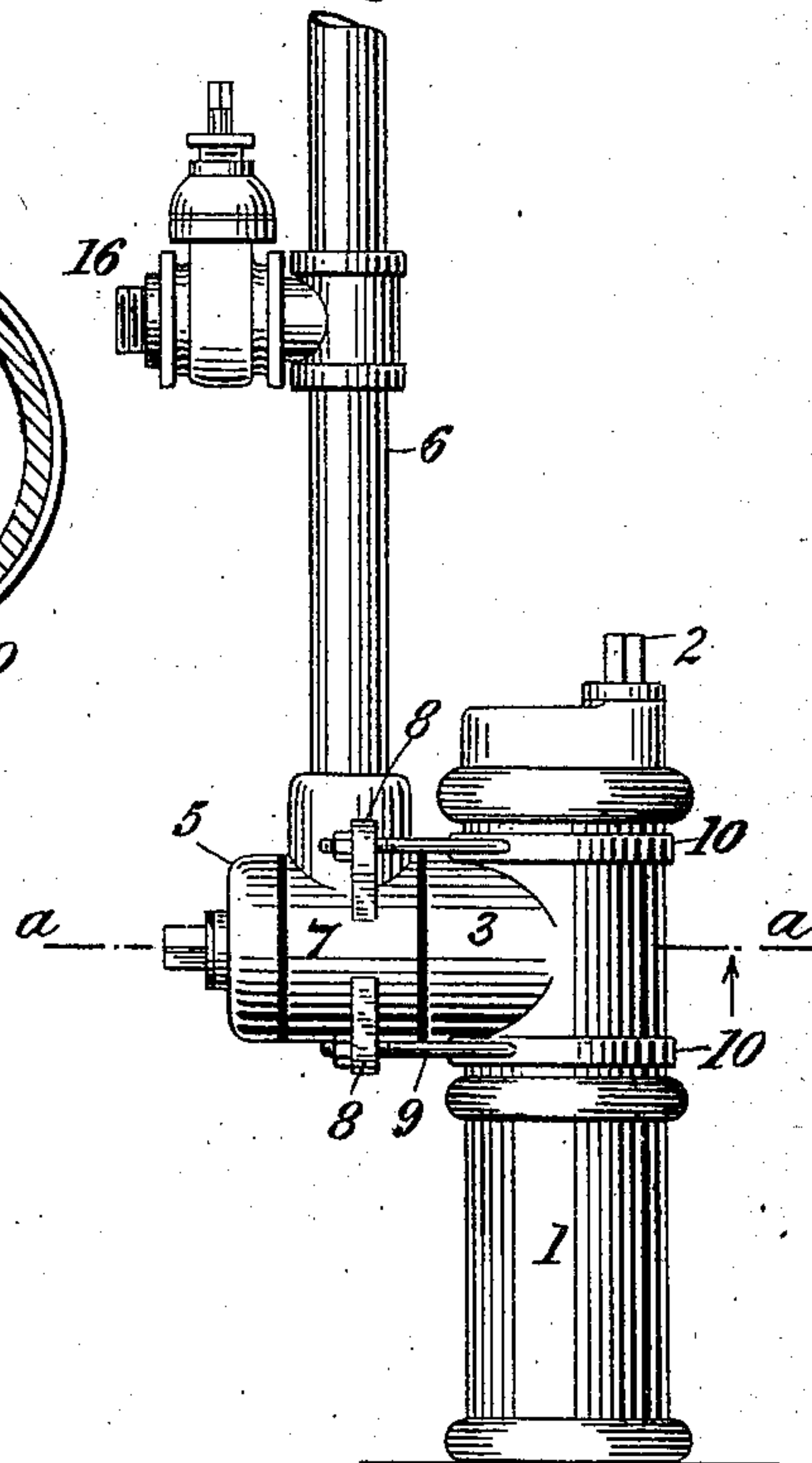
Patented Oct. 29, 1895.



*Fig. 1*



*Fig. 2*



Witnesses:  
Raphaël Tetter  
James M. Catlow.

Inventor:  
Philip Eley  
by Duncan & Page, Attorneys



# UNITED STATES PATENT OFFICE.

PHILIP ELEY, OF BAYONNE, NEW JERSEY.

## HYDRANT-CRANE FOR STREET-SPRINKLERS.

SPECIFICATION forming part of Letters Patent No. 548,910, dated October 29, 1895.

Application filed July 20, 1895. Serial No. 557,159. (No model.)

*To all whom it may concern:*

Be it known that I, PHILIP ELEY, a citizen of the United States, residing at Bayonne, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Hydrant-Cranes for Street-Sprinklers, of which the following is a specification, reference being had to the drawings accompanying and forming a part thereof.

The subject of my present application for Letters Patent is a device known as a "hydrant-crane," which consists generally of an upright or tubular standard either attached to a hydrant or a special connection from a street-main and provided with a horizontal arm and nozzle for delivering water to the tanks of street-sprinklers. Heretofore such devices have been screwed to the threaded nozzle of a hydrant in such manner as to simply extend the passage for the water, or a special pipe has been sunk in the ground as a support for the crane and connected with the water-main. The latter are somewhat elaborate and expensive devices, while the operation of the former in the turning on and off of the water involves a so frequent use of the hydrant-valve as to soon impair its usefulness and necessitate its renewal, an operation which practically involves the removal of the old hydrant and the substitution of a new.

A further objection to the devices last described lies in the fact that when applied to the nozzle of a hydrant they preclude the attachment thereto of any other device, so that in case it becomes necessary to attach a fire-hose to the hydrant the crane must first be removed before this can be done.

The object of my invention is to provide a simple, cheap, and effective device which may be attached to any hydrant without in the least impairing its usefulness in other respects, and which will relieve the wear on the hydrant occasioned by the opening and closing of its main valve whenever a water-cart is to be filled.

In the accompanying drawings I have illustrated my invention in the best form which I have devised for carrying out the same in practice, and I now refer to said drawings for an understanding of the nature and purpose

of the said improvement, Figure 1 being an elevation view of a hydrant provided with a crane of my construction; and Fig. 2 being an enlarged section on plane *a a*, looking from below the plane.

The numeral 1 indicates the barrel of the hydrant, which is connected by a valve-joint to the water-main below ground in any common way, and 2 indicates the squared upper end of the rod through which the valve between the hydrant and main is operated.

3 indicates the hydrant-nozzle, which usually is threaded or bears a threaded sleeve, such as is shown at 4, to which a fire-hose may be coupled and which is closed by a screw-cap similar to cap 5.

6 indicates the upright of the crane. This crane is properly attached to, as by being screw-threaded therein, the extensible coupling-sleeve 7, which sleeve is provided with ears 8, adapted to receive the screw-bolts 9 of the binding-straps 10. The passage through this coupling is preferably of the same size as that of the nozzle of the hydrant. Instead of the nozzle of the hydrant being threaded, a screw-threaded nipple or bushing 11 may be seated in the nozzle, and a similar bushing 12 may be carried by the coupling-sleeve instead of the outer end of the body of this sleeve being threaded.

It will be understood that ordinarily the cap 5 is screwed upon the bushing 11 of the hydrant-nozzle for the purpose of holding the nozzle closed, and is removed therefrom for the purpose of attaching a fire-hose. When it is desired, as during the warm months and when the hydrant is employed for the purpose of supplying water-carts, &c., the screw-cap may be removed, the crane-coupling temporarily fastened, as shown in Fig. 2, to the nozzle of the hydrant, and the nozzle-cap placed on the outer end of the coupling. The main valve of the hydrant can now be opened and left open, allowing the water to stand in the hydrant and the crane. The horizontal arm 13 of the crane is pivotally connected to the upright of the crane in the usual way. It is provided with a closing-valve 14 and hose 15, positioned to feed downward into water-carts. In case where a carriage water-tank is filled through the side or



bottom of the same, as in the case of water-tanks run on trolley or cable lines, a hose connection and valve 16 may be employed.

When the crane is thus in use, and in case  
5 of necessity of using the hydrant for fire purposes, all that would be necessary to do would be to close the main hydrant-valve, remove the screw-cap 5, and attach the fire-hose to the nipple or nozzle 12, as usual, after which  
10 the main hydrant-valve can be opened. The essential point in this regard is that the crane in no way interferes with the usual manipulation of the hydrant in case of connecting the latter to a fire or other hose or using the same  
15 for the purpose of flushing the streets, &c.

I am aware that various modifications of my improvements are possible, and I do not, therefore, confine myself to the form illustrated in the drawings.

20 What is claimed as new is—

1. A removable water crane nozzle provided with means of attachment to and for supporting a water crane, and constructed to receive

and be closed by the screw cap or device employed for closing a hydrant nozzle, and mechanism for removably securing the water  
25 crane nozzle to a hydrant, substantially as set forth.

2. In combination, a water crane provided with a coupling sleeve adapted to be mounted  
30 upon the nozzle of a hydrant and to be closed by the hydrant nozzle cap, and mechanism for removably securing the coupling and crane to a hydrant, substantially as set forth.

3. In combination with a hydrant, a water  
35 crane coupling constructed to fit the hydrant nozzle and continue the passage thereof and also adapted to be closed by a hydrant nozzle cap or similar device, and means for removably attaching the coupling to the hydrant  
40 nozzle, substantially as set forth.

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Witnesses:

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