

No. 785,395.

PATENTED MAR. 21, 1905.

H. AASS & J. M. MONSTAD.
FIRE COCK COMBINED WITH THE PIPE.
APPLICATION FILED APR. 1, 1904.

Fig. 2

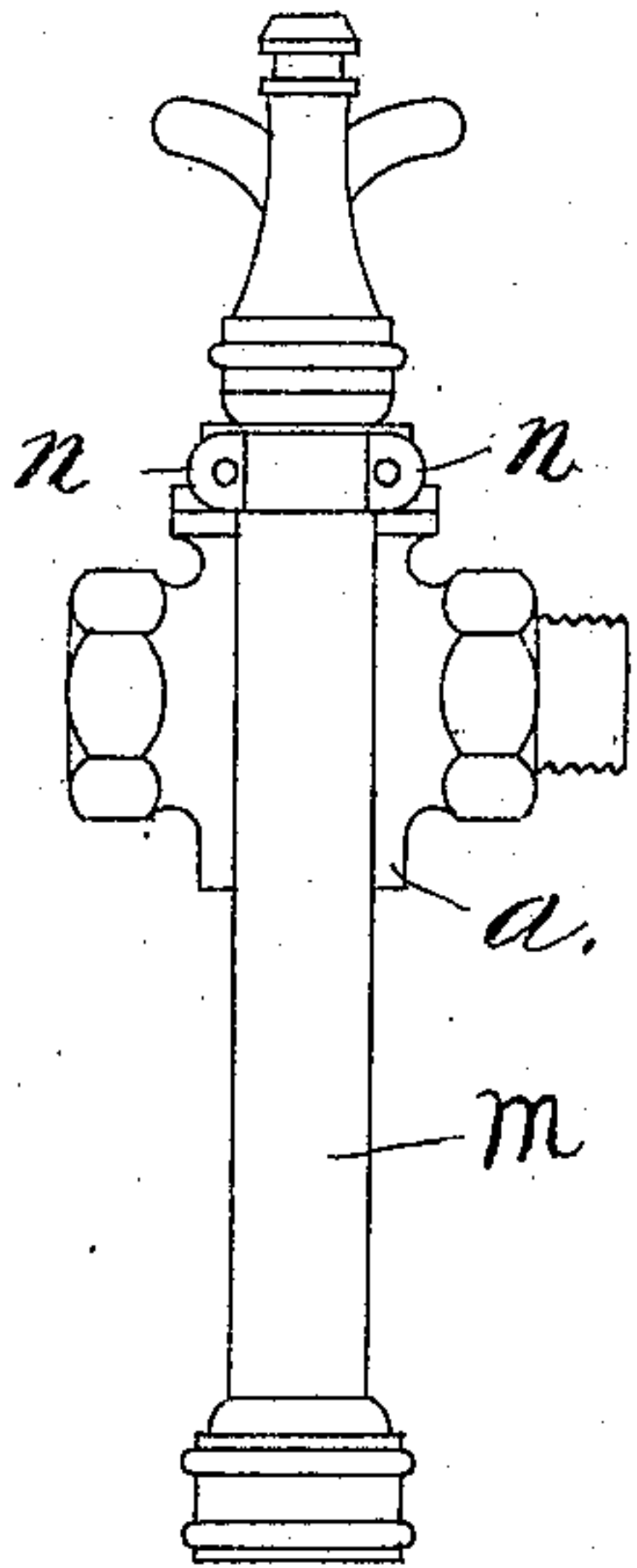


Fig. 3

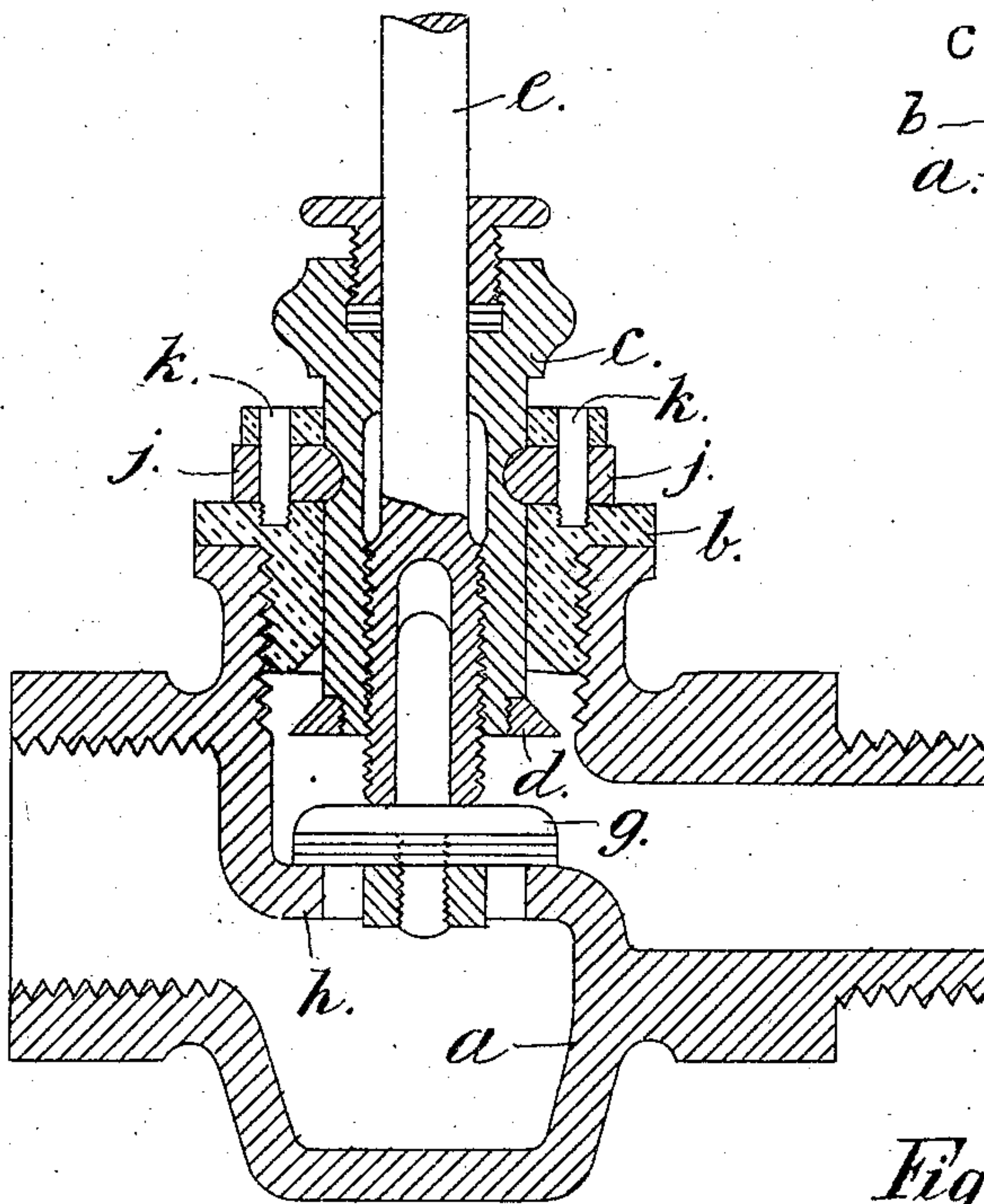


Fig. 1

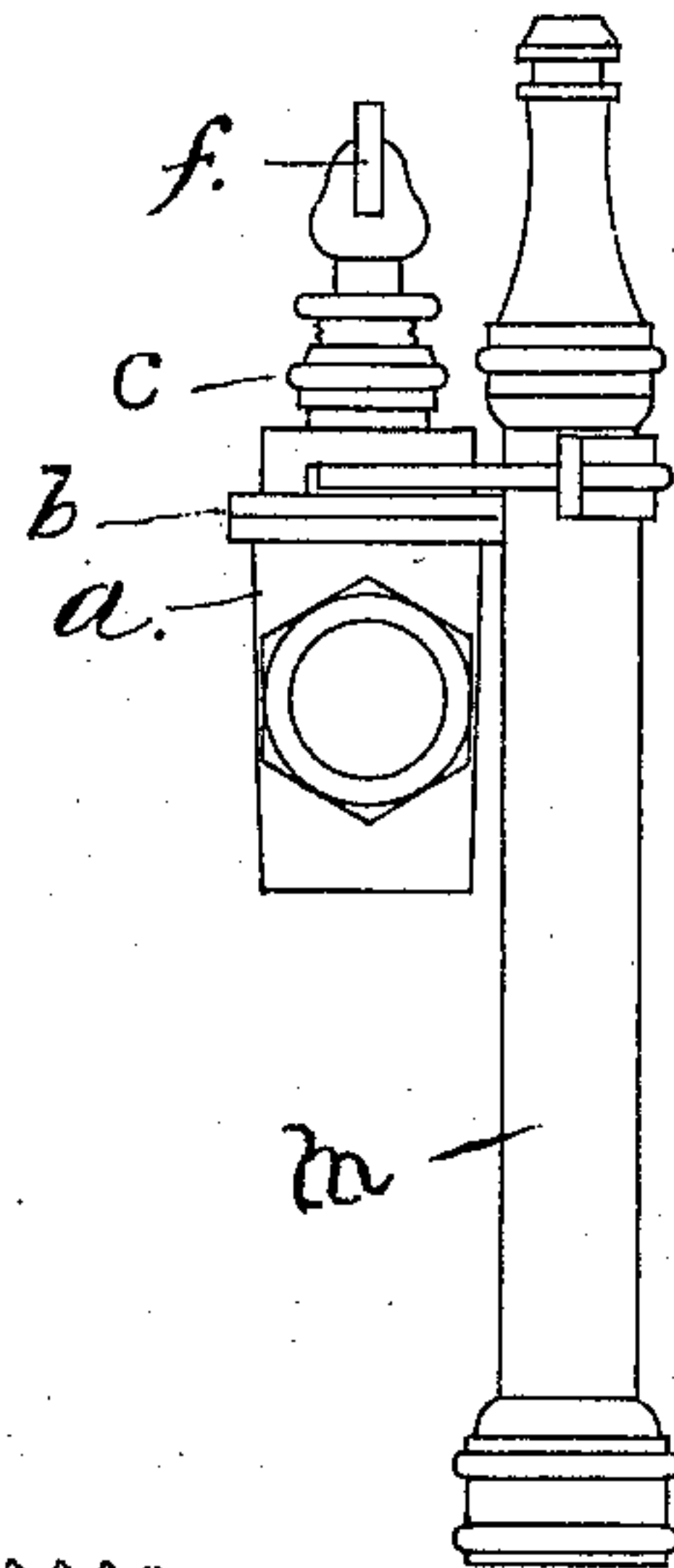


Fig. 4

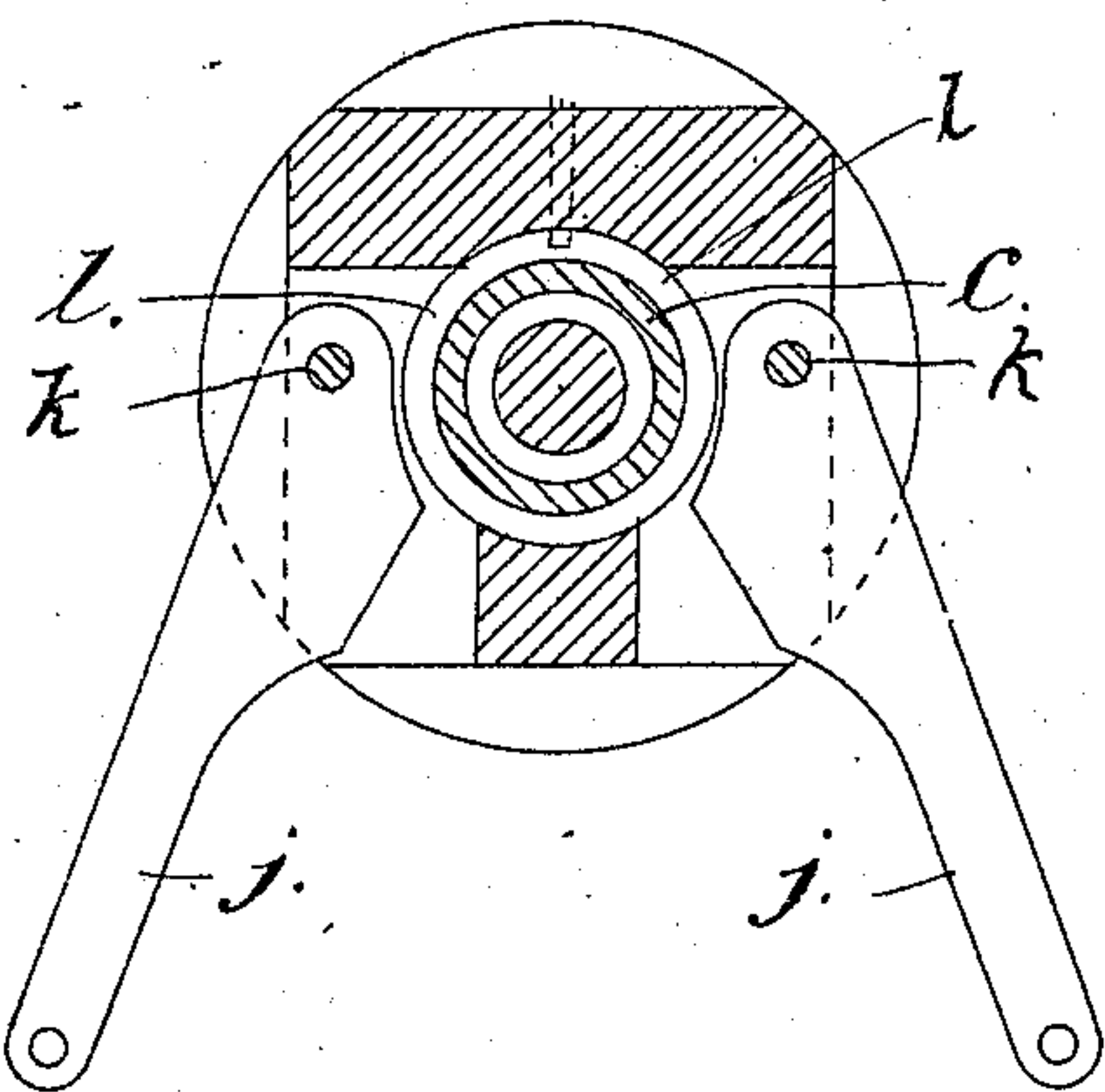
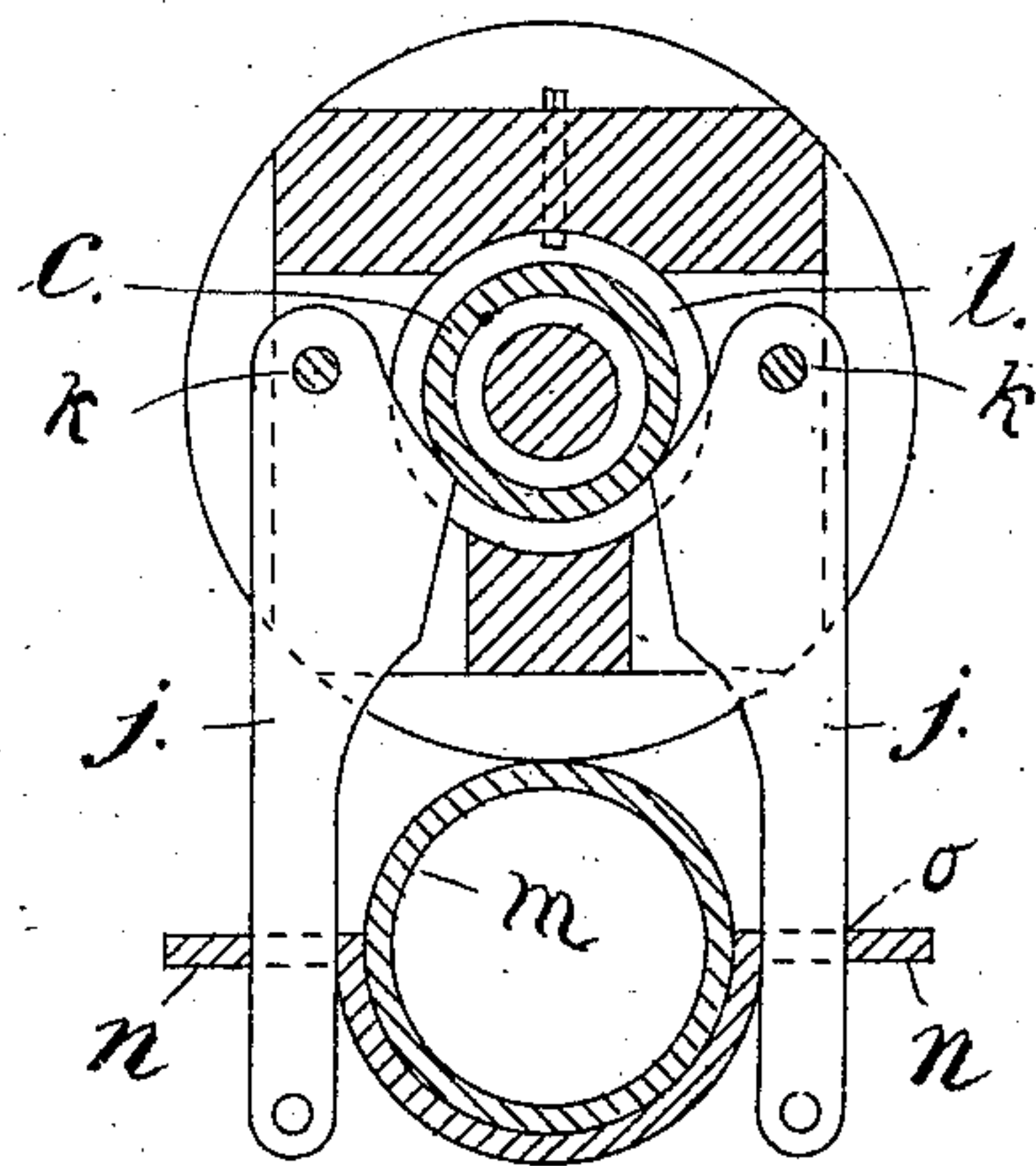


Fig. 5



Witnesses.

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UNITED STATES PATENT OFFICE.

HJALMAR AASS AND JOHAN MELCHIOR MONSTAD, OF CHRISTIANIA,
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FIRE-COCK COMBINED WITH THE PIPE.

SPECIFICATION forming part of Letters Patent No. 785,395, dated March 21, 1905.

Application filed April 1, 1904. Serial No. 201,140.

To all whom it may concern:

Be it known that we, HJALMAR AASS and JOHAN MELCHIOR MONSTAD, residing at Christiania, Norway, subjects of the King of Sweden and Norway, have invented a certain new and useful Fire-Cock Combined with the Pipe, (for which we have obtained a patent in Norway, No. 12,923, bearing the date November 25, 1903,) of which the following is a specification.

The object of our invention is to provide a combination, with the fire-cock, of the pipe belonging to it in such a manner that on removing the pipe from its place on the cock the latter will be at once opened for the full delivery of water.

An embodiment of our invention is shown in the accompanying drawings.

Figure 1 represents a side view of a fire-cock with the pipe attached thereto. Fig. 2 is a front view of the same. Fig. 3 is a vertical longitudinal section of the fire-cock. Figs. 4 and 5 are horizontal sections on the line 4 5 in Fig. 3, showing the locking-arms, respectively, in open and locked position.

a is the casing, which is provided a cover *b*. *c* is a bush which slides in the said cover *b*, the said bush *c* having on its lower end a flange or collar *d*, which limits the upward movement of the said bush. Within the said bush *c* is located a rod or spindle *e*, having male threads working in female threads in the bush. The rod *e* is at its upper end provided with a handle *f*, and at its lower end it engages a valve-body *g*, resting against a valve-seat *h*, formed in the casing *a*.

On top of the cover *b* are mounted two levers *j j*, which turn on pivots *k k*, and the bush *c* is provided with a groove *l*, in which engage the said levers *j j* in their locking position, Fig. 5. In order to keep the said levers *j j* in locking position, the pipe *m* is provided with lugs *n n*, having openings *o o* for the engagement of the said levers.

On putting the cock in place on the water-pipe the bush *c* is pressed down until the groove *l* is just in level with the levers *j j*.

The latter are then turned inward, Fig. 5, so as to enter the said groove, the ends of the levers being inserted in the openings in the lugs on the pipe, thereby keeping these in locking position. Finally the spindle *e* is screwed down, pressing the valve *g* against the seat *h*.

In case of any accident by fire the pipe is simply taken from its place, and the water-pressure will push the valve *g*, with the bush, which is now free of the levers, upward, giving the water full passage. The levers may be turned outward by hand when the pipe *m* is removed. However, the groove *l* is preferably given sufficient slant, so that the pressure on the valve *g* will force the bush *c* upward and throw out the levers *j*.

The above-mentioned collar *d* should be made to fit tight against the bottom end of the cover *b*, thereby increasing the tightness of the bush in its uppermost position.

The merits of the present invention as compared with the fire-cocks now commonly in use are evident, because the ordinary fire-cocks must be turned by hand until full delivery of water, whereby much time is lost, and it does not seldom occur that in the hurry the pipe is removed but the opening of the valve is entirely forgotten. By our invention such accident will never occur.

The fire-cock as described above might also be used as an ordinary valve-cock whether the pipe be attached or not, as the valve *g* can be operated by means of the handle *f*.

Having now described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a fire-cock or the like, the combination of a casing provided with a valve-seat, a slidable valve mounted in said casing, a bush carrying said valve and provided with a groove therein, pivoted levers adapted to lock in said groove to hold the valve closed, a keeper having perforated lugs adapted to slip over the ends of the levers to hold the latter in locking position.

2. The combination of a casing, a valve-seat in said casing, a slidable bush supported in said

casing, a threaded valve-stem in said bush carrying a valve adapted to engage with said valve-seat, a groove in said bush, locking devices adapted to engage with said groove and
5 to be forced outward when released, and means for holding said locking devices in locking position.

In testimony whereof we affix our signatures in presence of two witnesses.

HJALMAR AASS.

JOHAN MELCHIOR MONSTAD.

Witnesses:

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K. Y. RØIDERGARD.