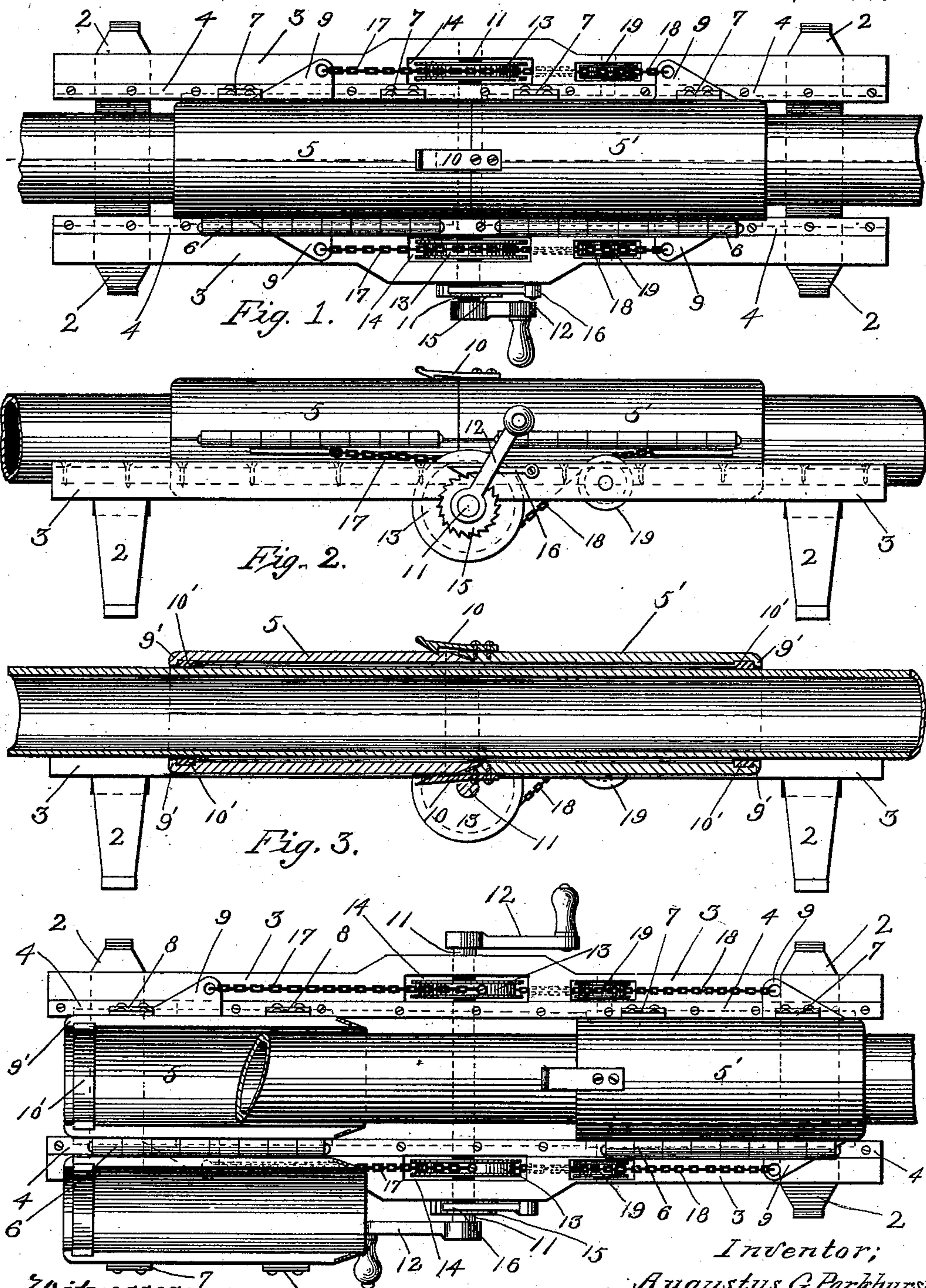


(No Model.)

A. G. PARKHURST.  
HOSE LEAK STOP OR JACKET.

No. 534,280.

Patented Feb. 19, 1895.



Witnesses:

Henry B. Arny.  
W. E. Gookey.

Fig. 4.

Inventor;  
Augustus G. Parkhurst.  
By *Paul D. Gookey*  
his attorney.



# UNITED STATES PATENT OFFICE.

AUGUSTUS G. PARKHURST, OF MINNEAPOLIS, MINNESOTA.

## HOSE-LEAK STOP OR JACKET.

SPECIFICATION forming part of Letters Patent No. 534,280, dated February 19, 1895.

Application filed August 16, 1894. Serial No. 520,538. (No model.)

*To all whom it may concern:*

Be it known that I, AUGUSTUS G. PARKHURST, of the city of Minneapolis, county of Hennepin, and State of Minnesota, have invented a certain new and Improved Hose-Leak Stop or Jacket, of which the following is a specification.

My invention relates to improvements in devices for stopping a leak in any hose, and the particular object I have in view is to provide a simple and inexpensive device which can be quickly applied to a fire hose, and which will effectually stop any leak therein.

It very frequently happens at a fire that the pressure of the water will burst the hose and render an engine to which it is attached useless until a new hose is brought and substituted for the leaky one, and much valuable time is lost which might be saved by having an attachment at hand for stopping the leak.

My invention consists generally in two sleeves or jackets slidably arranged in a frame work and adapted to receive a hose, and means for bringing the inner ends of the two sleeves together and holding them in that position and stopping the leak in the hose, all as hereinafter described and particularly pointed out in the claims.

In the drawings forming part of this specification; Figure 1 is a plan view of my invention attached to a hose. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal and vertical section of Fig. 2. Fig. 4 is a plan view, the sleeves being disconnected and the hinged upper half of one being thrown back.

In the drawings, 2 represents suitable standards for supporting the parallel bars 3 arranged thereon. The standards 2 are preferably single iron bands having a depressed middle portion and downwardly turned ends forming the legs of the standards. The parallel bars 3 are rabbeted upon their inner upper edges, and metal strips 4 are arranged over these rabbeted edges, thereby forming a groove in the upper inner edges of the parallel bars. The parallel bars are preferably made thicker in the middle than at the ends for the purpose hereinafter described. Arranged on the bars at either side of the middle thereof are the sleeves or jackets 5 and 5'. Each sleeve is halved longitudinally, and the upper half of each sleeve is connected by hinges 6 on one

side to the lower half and is adapted to swing back to allow a hose to be placed in the lower half. Each upper half is provided with suitable springs 7 adapted to engage catches 8 provided on each lower half, by which the upper halves will be firmly secured when it is desired to mend a leak in the hose. The lower half of each sleeve is provided with longitudinal ribs or feathers which are adapted to fit into and slide in the grooves in the parallel bars, as indicated by dotted lines in Fig. 1. Each lower half is also provided with outwardly extending lugs 9. The inner ends of the sleeves are beveled thereby forming a comparatively tight joint when brought together, and the upper and lower half of one sleeve is provided with suitable spring catches 10 adapted to engage notches or slots in the end of the opposite sleeve, as shown in Fig. 3. The sleeves 5 and 5' are each provided at their outer ends with the inwardly turned edges or flanges 9' and gaskets or rings 10' are arranged in the outer ends of each of the sleeves and are prevented from sliding out the ends thereof by the flanges 9'. The gaskets 10' form a tight joint with the hose and prevent water from leaking out around the ends of the sleeve. Passing through the thickened portions of the bars 3 and journaled in bearing therein, is a shaft 11. The shaft 11 is provided with cranks 12 arranged on opposite ends thereof and with pulleys 13 arranged one at each end of said shaft and extending up through slots 14 in the bars 3. The shaft 11 is also provided with a ratchet wheel 15 and pawl 16 secured to the outside of one of the bars 3 and adapted to engage the teeth of said ratchet wheel. Chains 17 are provided each having one end secured to the periphery of said pulleys 13 and the other end thereof secured respectively to the lugs 9 on the lower half of the sleeve 5. Chains 18 are also provided each having one end secured to the periphery of the pulleys 13 on the opposite side of the pulley from the ends of the chains 17. The chains 18 pass over idler pulleys 19 arranged in vertical slots in the bars 3 and journaled therein, and are secured respectively to the lugs 9 on the lower half of the sleeve 5.

The operation of the device is as follows: When a hose springs a leak the hinged por-



tions of the sleeve are thrown back and the hose laid in the lower halves of the two sleeves. The upper or hinged portion is then shut down over the hose and fastened by the catches 7 and 8. Then by turning the cranks 12 the sleeves will be drawn together, the beveled edges telescoping each other until the catches 10 engage the slots in the sleeve 5. The sleeves will then be firmly clamped together and a practically water tight jacket will be formed around the leak in the hose and will render the hose as serviceable as a new one and with a great saving of time.

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

1. The combination, with a suitable support, of longitudinally divided sleeves arranged thereon, the upper portions thereof being hinged to the lower portions, said lower portions being adapted to receive a hose, means for securing the detached side of said upper portion to the detached side of said lower portion, and means for bringing the adjacent ends of said sleeves together, and making a water tight joint between the ends of said sleeves substantially as described.

2. The combination, with a suitable sup-

port, consisting of two parallel bars mounted upon suitable standards, of longitudinally divided sleeves arranged to slide thereon, the upper portions of said sleeves being hinged to the lower portions, and said lower portions being adapted to receive a hose, gaskets arranged on the inside of said sleeves at the outer ends thereof, the inner ends of said sleeves being beveled, and means for bringing the adjacent ends of said sleeves together, substantially as described.

3. The combination, with a suitable support, of longitudinally divided sleeves slidably arranged thereon, the upper portions of said sleeves being hinged to the lower portions, said sleeve portions being adapted to receive a hose, a shaft mounted in bearings between said sleeves and carrying pulleys, chains connecting said sleeves, and pulleys whereby when the shaft is turned the sleeves will be drawn together, substantially as described.

In testimony whereof I have hereunto set my hand this 10th day of July, A. D. 1894.

AUGUSTUS G. PARKHURST.

In presence of—

C. G. HAWLEY,

A. C. PAUL.