

(No Model.)

C. R. ROBINSON.
REDUCER AND NOZZLE FOR HOSE.

No. 477,824.

Patented June 28, 1892.

Fig. 1.

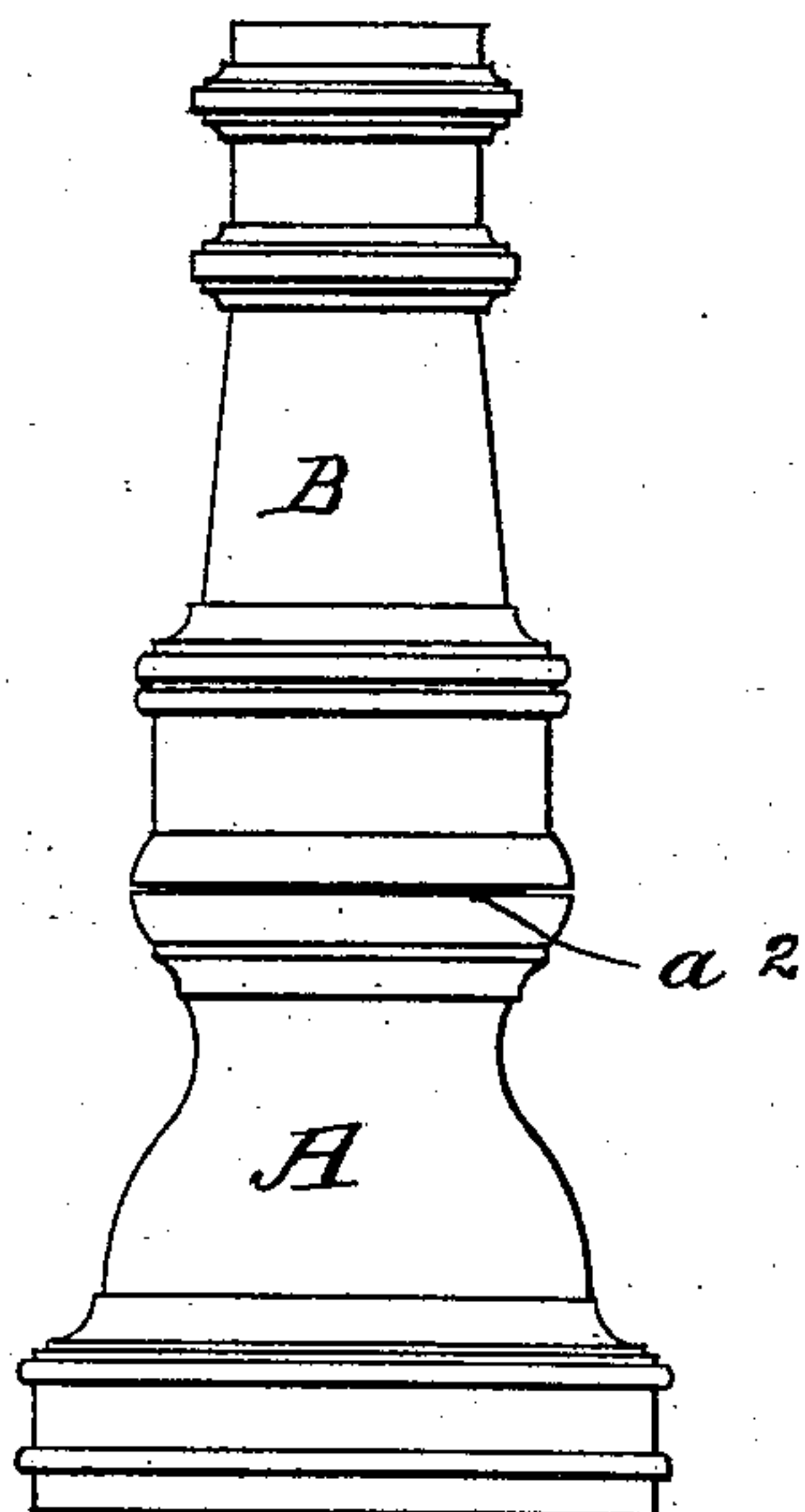


Fig. 2.

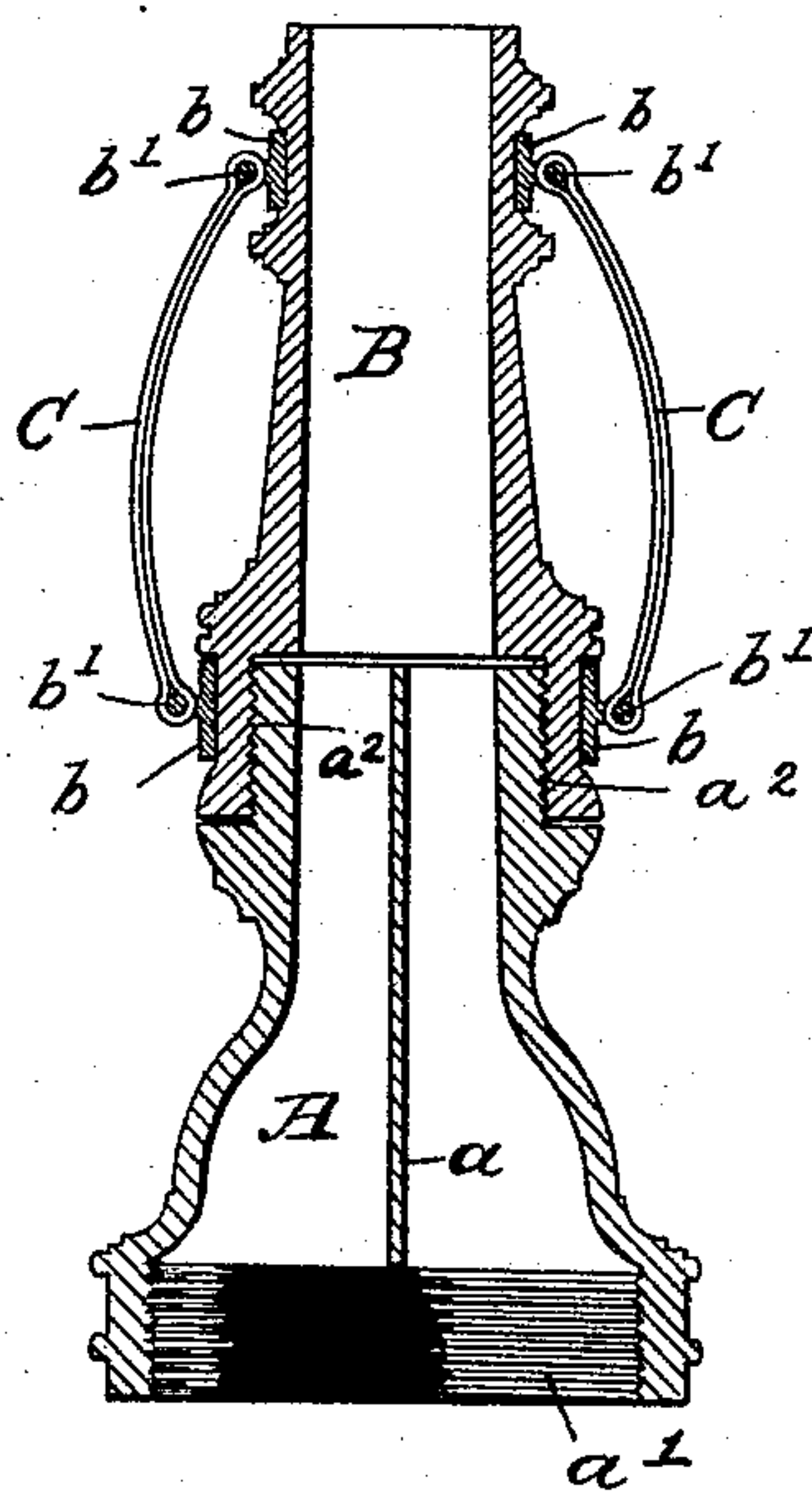
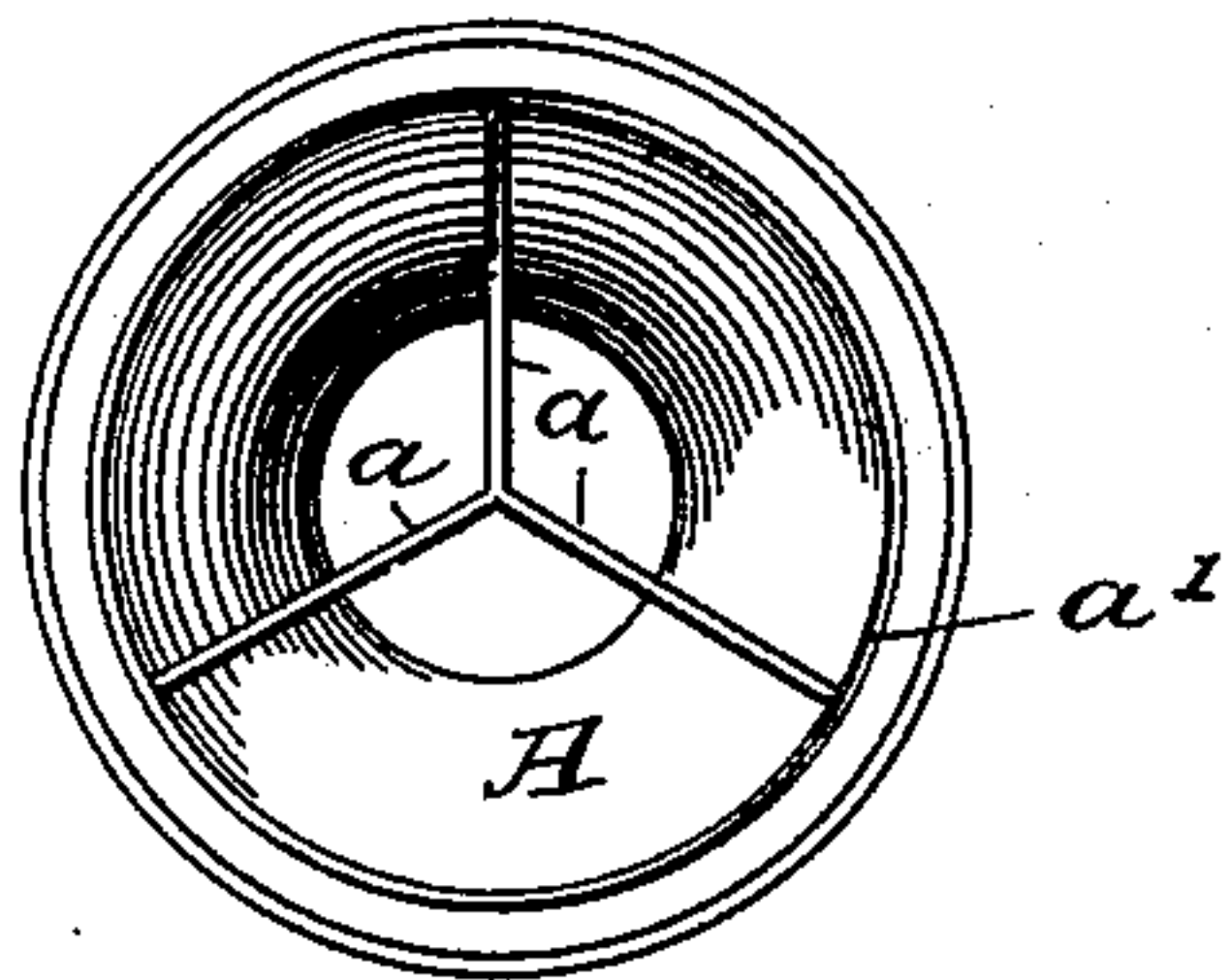


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

CYRUS R. ROBINSON, OF EAST CONCORD, NEW HAMPSHIRE.

REDUCER AND NOZZLE FOR HOSE.

SPECIFICATION forming part of Letters Patent No. 477,824, dated June 28, 1892.

Application filed December 26, 1890. Serial No. 375,791. (No model.)

To all whom it may concern:

Be it known that I, CYRUS R. ROBINSON, a citizen of the United States, residing at East Concord, in the county of Merrimac and State of New Hampshire, have invented certain new and useful Improvements in Reducers and Nozzles for Hose; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to fire-hose, the object being to provide, in combination with a tip or nozzle of any desired bore, a short coupling for attaching to an end of hose and quickly reducing the size of the stream before it shall have entered the discharge-nozzle.

The invention will be readily understood by reference to the following specification and claim, and to the accompanying drawings, forming a part thereof, of which—

Figure 1 shows my improved reducer and discharge-nozzle in elevation. Fig. 2 is a sectional elevation of same, and Fig. 3 is an end view.

The reducer A may be provided with one or more partitions a , running longitudinally therein, as seen in Figs. 2 and 3, for the purpose of taking the twist or rotary motion out of the water before it reaches the discharge tip or nozzle B. One end of the reducer A is provided with an internal thread a' , which fits one end of a section of hose, and the other end has an external thread a'' , to which various sizes of tips or nozzles B may be threaded.

These tips or nozzles B are smooth-bored and preferably of equal diameter from end to end, and, if desired, loose rings b b may be mounted, one near either end, each of said rings being provided with eyes b' and straps C, attached to said rings, and connecting one ring with the other form handles by which the nozzle may be held. By this construction the long "discharge-pipe," as it is familiarly called, and which is usually from three to four feet in length and tapering, is dispensed with, the short reducer and nozzle serving as a substitute therefor with advantage, as it is but from eight to ten inches in length and can be carried and handled more readily, and various sizes of tips or a shut-off nozzle may be carried in one's pocket for applying to the reducer when needed.

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

The combination of a short reducer for fire-hose, having an internal thread at one end and an external thread at the other, and a short tip or nozzle provided with a swivel-band near each end, connected by pliable bands of some suitable material, forming handles for said nozzle.

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

CYRUS R. ROBINSON.

Witnesses:

J. B. THURSTON,
H. J. CRIPPEN.