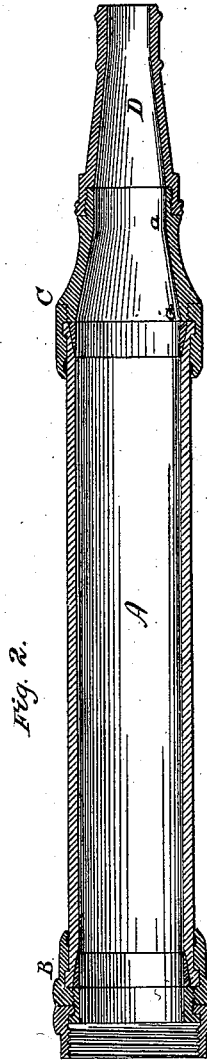
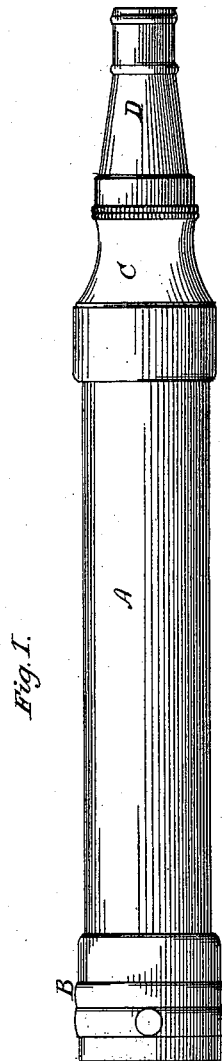


C. CALLAHAN.
Textile Fabric Hose-Pipe.

No. 209,860.

Patented Nov. 12, 1878.



Attest:

Clarence Poole

W. H. Morrell

Inventor:

Cornelius Callahan

per atty

A. H. Evans & Co

UNITED STATES PATENT OFFICE.

CORNELIUS CALLAHAN, OF CHELSEA, MASSACHUSETTS, ASSIGNOR OF
TWO-THIRDS HIS RIGHT TO EDWIN E. SIBLEY, OF SAME PLACE.

IMPROVEMENT IN TEXTILE-FABRIC HOSE-PIPE.

Specification forming part of Letters Patent No. 209,860, dated November 12, 1878; application filed
October 31, 1878.

To all whom it may concern:

Be it known that I, CORNELIUS CALLAHAN, of Chelsea, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Textile-Fabric Hose-Pipes; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a plan view of the nozzle or pipe. Fig. 2 is a longitudinal section of the same.

Heretofore it has been necessary in making textile-fabric hose-pipes to weave or knit them tapering, and this plan has many objectionable features.

The object of my invention is to provide a textile hose-pipe without the taper weaving, and avoid the sinuous movement of the pipe while a stream is flowing, incident on that construction; and my invention consists in providing the outer end of the pipe section with a peculiarly-shaped mounting, whereby I accomplish an easier delivery at the nozzle, an entire contraction of the stream in the fitting between the pipe and nozzle, so as to give a full volume of water at the nearest point of delivery.

In order that those skilled in the art may make and use my invention, I will proceed to

describe the manner in which I have carried it out.

In the said drawings, A is a hose-pipe made of textile fabric and of equal diameter throughout, thus avoiding the expense of any special weaving of tapering tubes. On the ends of tube or pipe A are the coupling B and the mounting C, constructed as shown. From the point in the mounting where the expansion-ring holds the fabric the said mounting is rapidly contracted into a much smaller diameter as it approaches the point, bearing a screw-thread by which to attach the nozzle. The lines of this contraction are marked *a a* in the drawing, and gradually merging into the same lines with the nozzle D. This contraction of the stream in the mounting, instead of being brought to an abrupt shoulder, as heretofore, avoids the retarding of the flow and crowding the flow against the center, and consequent increase of friction.

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

A fabric hose-pipe of equal diameter throughout, substantially as described.

CORNELIUS CALLAHAN.

Witnesses:

A. B. FULLER,
GEORGE WILLCOMB.