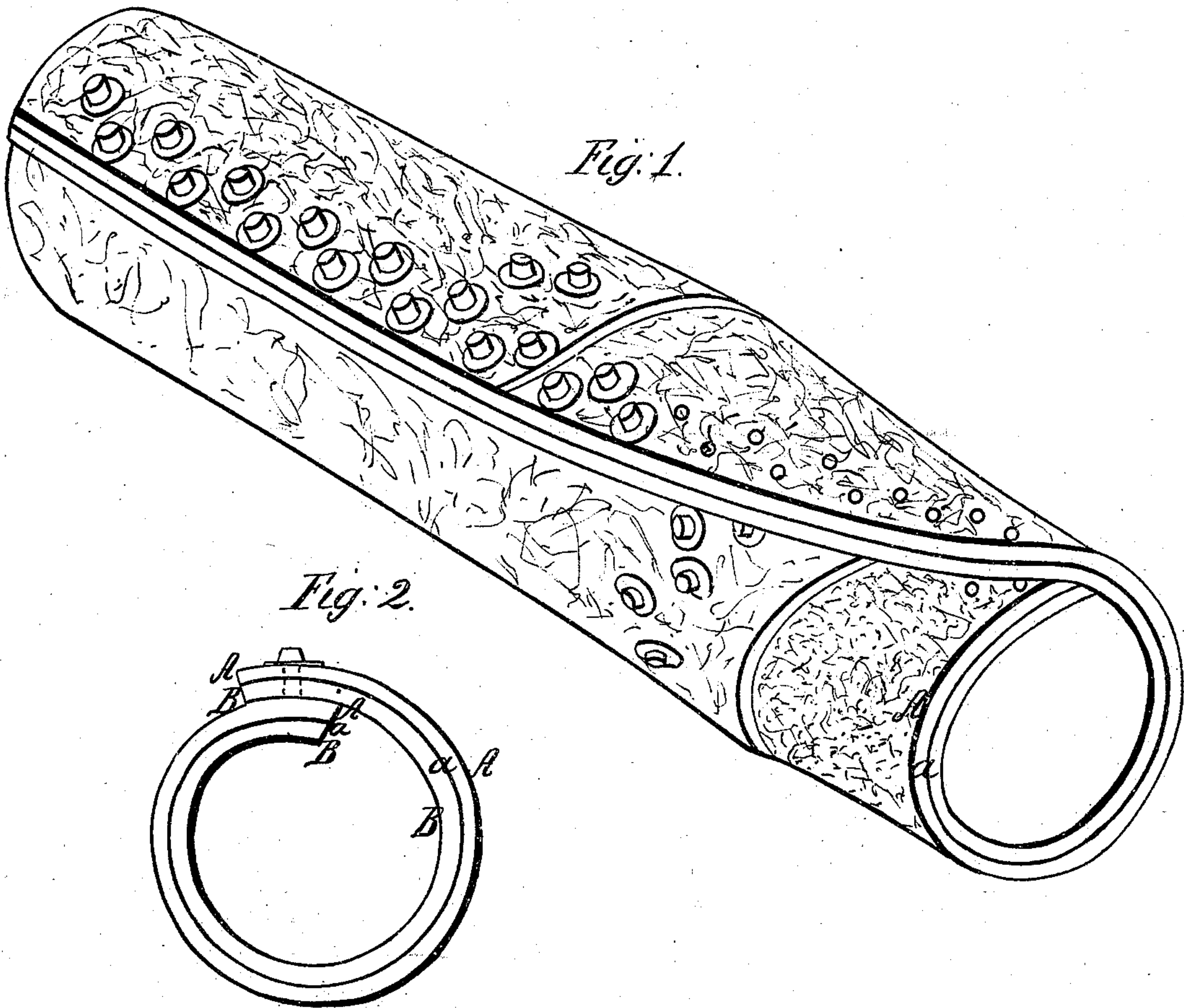


J. Davis,
Flexible Hose.

No. 86,652.

Patented Feb. 9, 1869.



Witnesses;

James M. Cogrove

James W. Stillman

Inventor;

James Davis

United States Patent Office.

JAMES DAVIS, OF PAWTUCKET, RHODE ISLAND.

Letters Patent No. 86,652, dated February 9, 1869.

IMPROVED FLEXIBLE HOSE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JAMES DAVIS, of Pawtucket, in the county of Providence, and State of Rhode Island, have invented a new and useful Improvement in Flexible Hose; and I do hereby declare that the following specification, taken in connection with the drawings making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a view in perspective of my improved hose.

Figure 2 is a transverse section.

My invention consists in constructing a hose from two or more thicknesses of leather, whose surfaces in contact are united by means of an interposed coating of adhesive cement, made from gutta-percha, or other gum which is impervious to water, whereby I am enabled to preserve the leather so protected from the decay and destruction which result from its becoming soaked in conveying water under high pressure, and consequently increase its durability.

I also claim that the capacity of resistance to internal pressure of which a hose so constructed is capable, is very much greater than that of a hose made from single skins of equal thickness.

In the drawings, a hose is represented made from two thicknesses of leather, A and B, which are cemented together, as seen at *a*.

The skins from which the hose is to be made are to be cut and lapped, so as to make, when united, a long strip.

Two or more of these strips of leather are to be piled

upon each other, the surfaces to be brought in contact having been first thoroughly coated with a thick layer of gutta-percha dissolved by naphtha, turpentine, or other suitable solvent.

The surfaces of the leather forming the laps should also be coated with cement, and the laps are to be fastened by rivets in the usual way.

A long strip of lengths of leather united, sufficient to form the required section of hose, is thus made, and this is formed into a hose by lapping the edges and riveting them in the manner well understood.

Any other preferred method of making up the hose may be employed, as the invention resides not in the manner in which it is put together, but in the use of two or more thicknesses of leather, whose contiguous surfaces are united by water-proof cement.

I do not seek to claim as new the application of rubber, or equivalent gums, to leather hose, for rendering the same impervious to water, inasmuch as the use of rubber for coating the interior of leather hose is described in the English patent to Wilson & Son, No. 2,880, for 1858.

What I claim as my invention, and desire to secure by Letters Patent, is—

A flexible hose, made of two or more thicknesses of leather, whose surfaces are united by water-proof adhesive cement, substantially as herein described.

JAMES DAVIS.

Witnesses:

J. M. COSGROVE,
J. W. STILLMAN.