

(No Model.)

B. L. STOWE.
HOSE.

No. 460,925.

Patented Oct. 6, 1891.

Fig. 1.

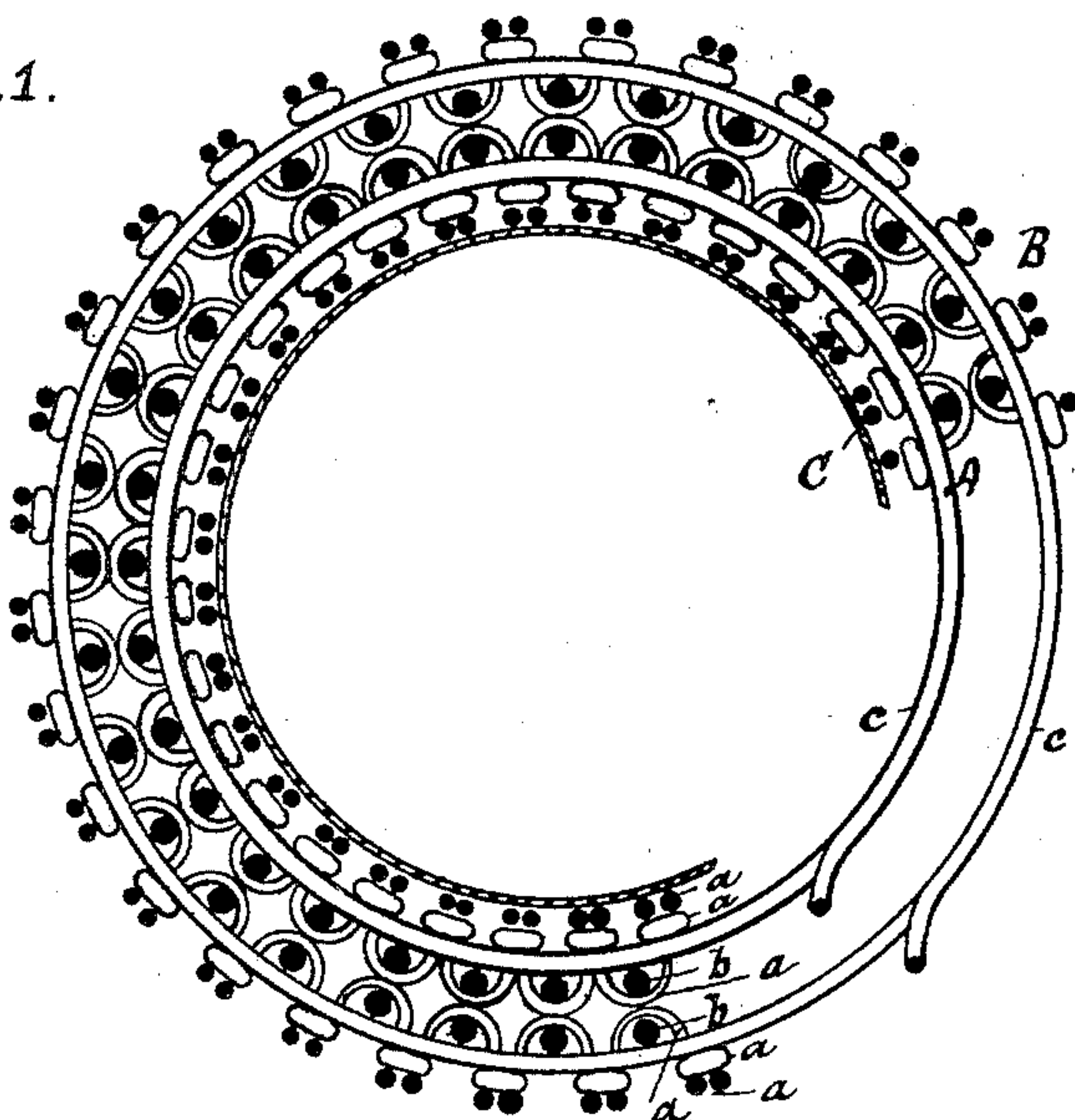
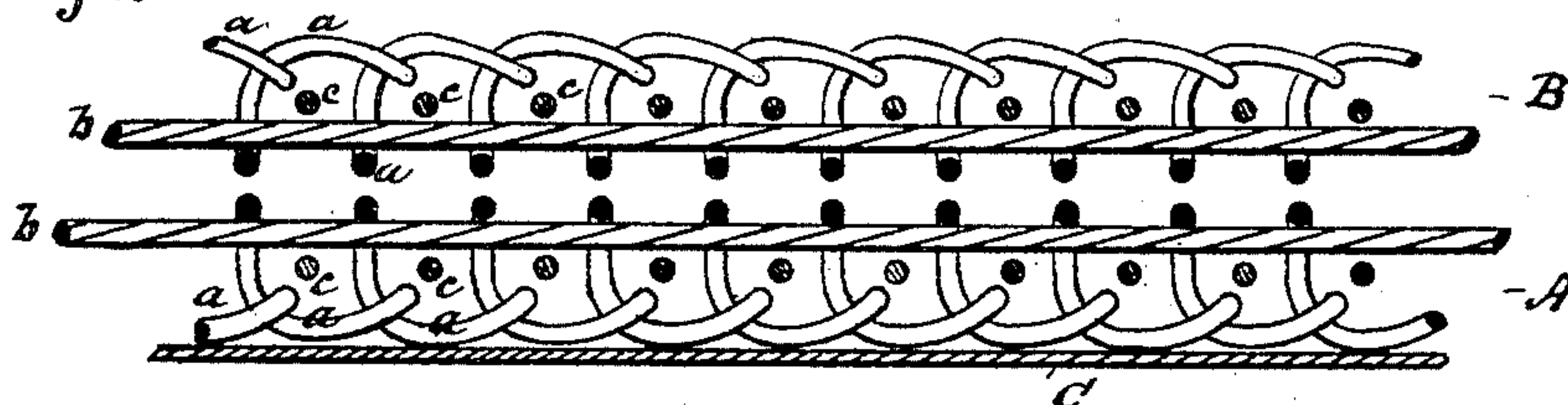


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

BENJAMIN L. STOWE, OF NEW YORK, N. Y.

HOSE.

SPECIFICATION forming part of Letters Patent No. 460,925, dated October 6, 1891.

Application filed April 2, 1890. Renewed September 12, 1891. Serial No. 405,460. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN L. STOWE, of the city, county, and State of New York, have invented a new and useful Improvement in
5 Hose, of which the following is a specification.

My invention is directed to what is known as "jacketed hose" for hydraulic purposes. It is my purpose to produce an improved knitted hose of this character. To this end
10 the fabric portion of the hose consists of a seamless knitted interior tube, the looped stitches of which are upon the inner surface, and a separate exterior jacket of a seamless knitted tubular fabric, the looped stitches of
15 which are upon the exterior surface. By having the looped stitches of the interior tube upon the inner surface thereof I procure a smooth inner surface for the rubber lining which is applied to this tube and a smooth
20 water-way in the lined hose. I also produce a hose whose inner fabric dries more readily than it would were the looped stitches upon the exterior of said fabric. By placing the looped stitches of the knitted jacket upon the
25 exterior surface thereof I obtain the same effective wearing-surface that is possessed by ordinary jacket-hose. The hose thus produced is in effect a compound hose comprising a knitted inner hose and a knitted exterior
30 jacket or hose. The two can be manufactured in any of the known ways in which knitted hose is made, the only requisite being that when the two are fitted together after they have been produced the interior surface
35 of the inner hose and the exterior surface of the jacket or outer hose shall each be provided with the smooth surface afforded by the looped stitches of a knitted fabric.

I prefer that each of the two parts of the
40 hose shall be a knitted fabric which has the knitting thread or threads combined with a weft or filling and straight longitudinal strands, as described in a general way, for example, in my Letters Patent No. 393,185, of
45 November 20, 1888, or No. 222,327, of December 2, 1879.

My improved compound or jacketed knit hose is represented in the accompanying drawings, in which—

Figure 1 is a cross-section of the hose, and 50
Fig. 2 is a longitudinal section of one side of a portion of the hose.

In the actual hose the strands are of course tightly packed together. They are represented, however, in the drawings as widely 55
separated in order that their arrangement and the structure of the fabric can better be seen.

In Fig. 1 I have omitted from a portion of the compound hose the longitudinal strands 60
and knitting-threads.

The inner hose is indicated at A and the exterior or jacket hose at B.

C is the rubber lining for the interior of the inner hose. 65

In each part A and B, *a* are the knitting threads or warps, *b* are the straight longitudinal strands, and *c* is the weft or filling.

In the inner hose A the looped stitches of the knitting-warps are upon the interior surface thereof. In the external or jacket hose 70
B the corresponding looped stitches are upon the exterior surface thereof. After the two are made the jacket-hose is drawn over the inner hose, so that the looped stitches of the 75
two shall occupy in the compound hose the position last above indicated.

The rubber lining may be applied to the inner hose either before or after the two parts 80
A and B are fitted together.

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

A compound seamless knit hose consisting of an inner seamless knit hose having looped 85
stitches upon its interior surface, an external seamless knit jacket or hose having looped stitches upon its exterior surface, and a rubber lining applied to the surface afforded by the looped stitches upon the interior of the 90
inner hose, substantially as hereinbefore set forth.

In testimony whereof I have hereunto set my hand this 1st day of April, 1890.

BENJAMIN L. STOWE.

Witnesses:

FREDERICK A. STOWE,
NATHAN STOWE.