

H. G. HUBBARD.

HOSE-GOODS.

No. 178,058.

Patented May 30, 1876.

Fig. 1.

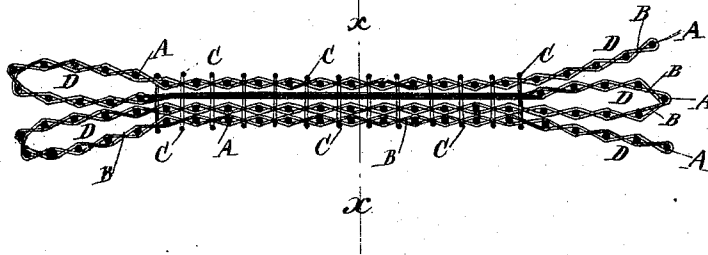
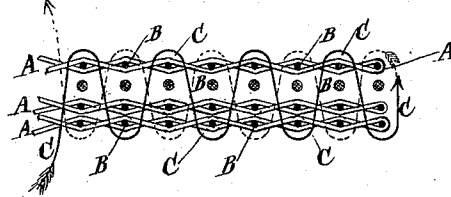


Fig. 2.



WITNESSES:

A. W. Almqvist
John Goethals

INVENTOR:

H. G. Hubbard
BY *Wm. L. L.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY G. HUBBARD, OF MIDDLETOWN, CONNECTICUT, ASSIGNOR TO
RUSSELL MANUFACTURING COMPANY, OF SAME PLACE.

IMPROVEMENT IN HOSE GOODS.

Specification forming part of Letters Patent No. **178,058**, dated May 30, 1876; application filed
March 21, 1876.

To all whom it may concern:

Be it known that I, HENRY G. HUBBARD, of Middletown, in the county of Middlesex and State of Connecticut, have invented a new and useful Improvement in Hose Goods, of which the following is a specification:

Figure 1 is a cross-section of a piece of my improved hose goods. Fig. 2 is a longitudinal section of the same, taken through the line *xx*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish hose goods so formed as to make the seam or joint stronger, and with less tendency to pull apart, than when the goods are made in the usual way.

The invention consists in an improved hose goods, having one or more selvages upon one edge, and two or more upon the other edge, to interlap with each other in forming the seam, as hereinafter fully described.

A are the warp-threads. B are the woof-threads, and C are the binder-threads. The body of the goods may be of two or more plies; and when of more than two plies, one or more of the inner plies may be without warp-threads, or all the plies may have warp-threads, as may be desired.

Upon one of the edges of the goods is formed, by the omission of the binder-warps, one or more selvages, D, and upon the other edge, in the like manner, two or more selvages, B.

There may be the same number of selvages upon both edges, or one edge may have one more than the other.

In forming the hose the selvages D are interlapped, and may then be secured by sewing or by rivets, either or both, as may be desired.

In a seam thus formed the strain will be directly across the stitches, or the pins or bodies of the rivets, so that there will be less tendency to rip, or to pull off the heads of the rivets, thus making a stronger and better seam.

Another advantage of this construction is, that in forming a hose there will be less thickness of material overlapping the inner surface of the hose, thus forming a lower shoulder, which offers less obstruction to the flow of the water, and enables the inner surface of the hose to be more conveniently coated with rubber.

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

An improved hose goods, having one or more selvages upon one edge, and two or more upon the other edge, to interlap with each other in forming the seam, substantially as herein shown and described.

HENRY G. HUBBARD.

Witnesses:

E. H. BURR,
E. DEMING.