

(No Model.)

J. G. GREENE.
OVEREDGE SEAM FOR SEWED ARTICLES.

No. 598,338.

Patented Feb. 1, 1898.

Fig. 2.

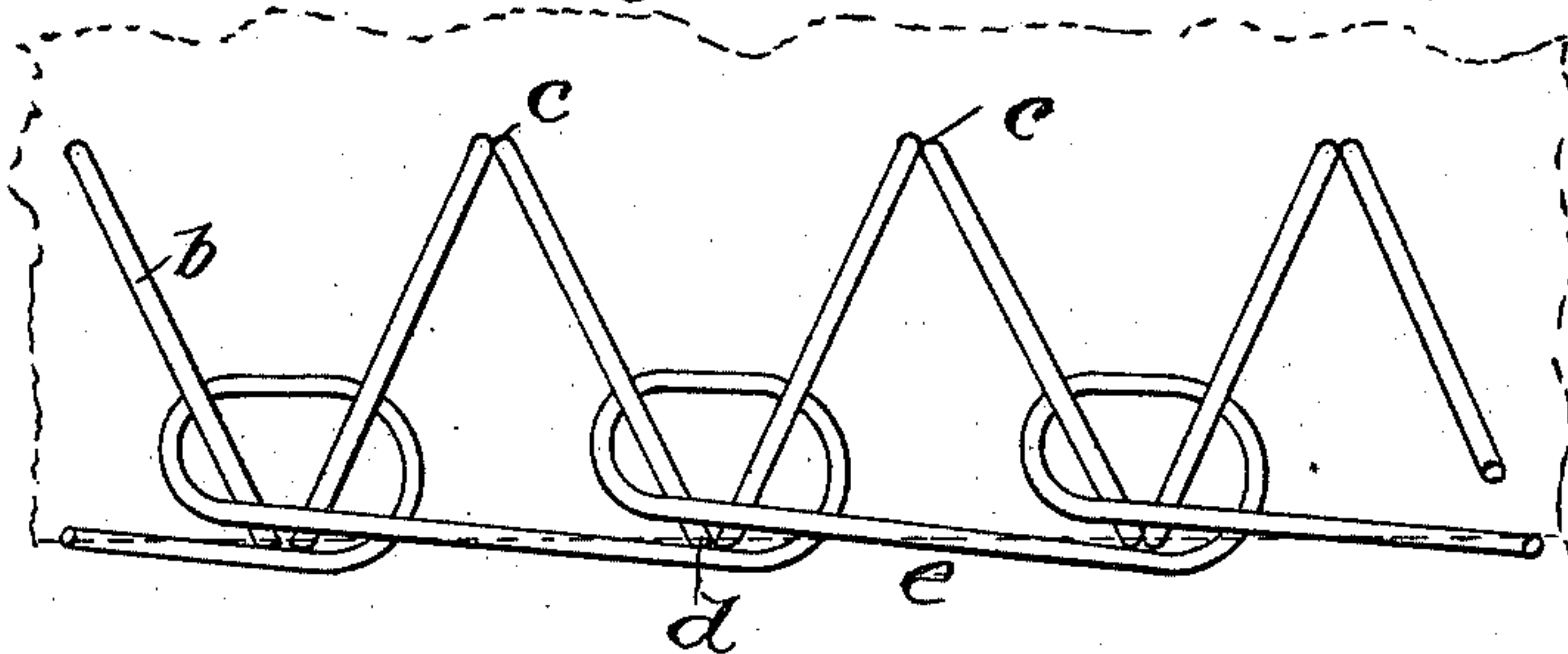


Fig. 1.

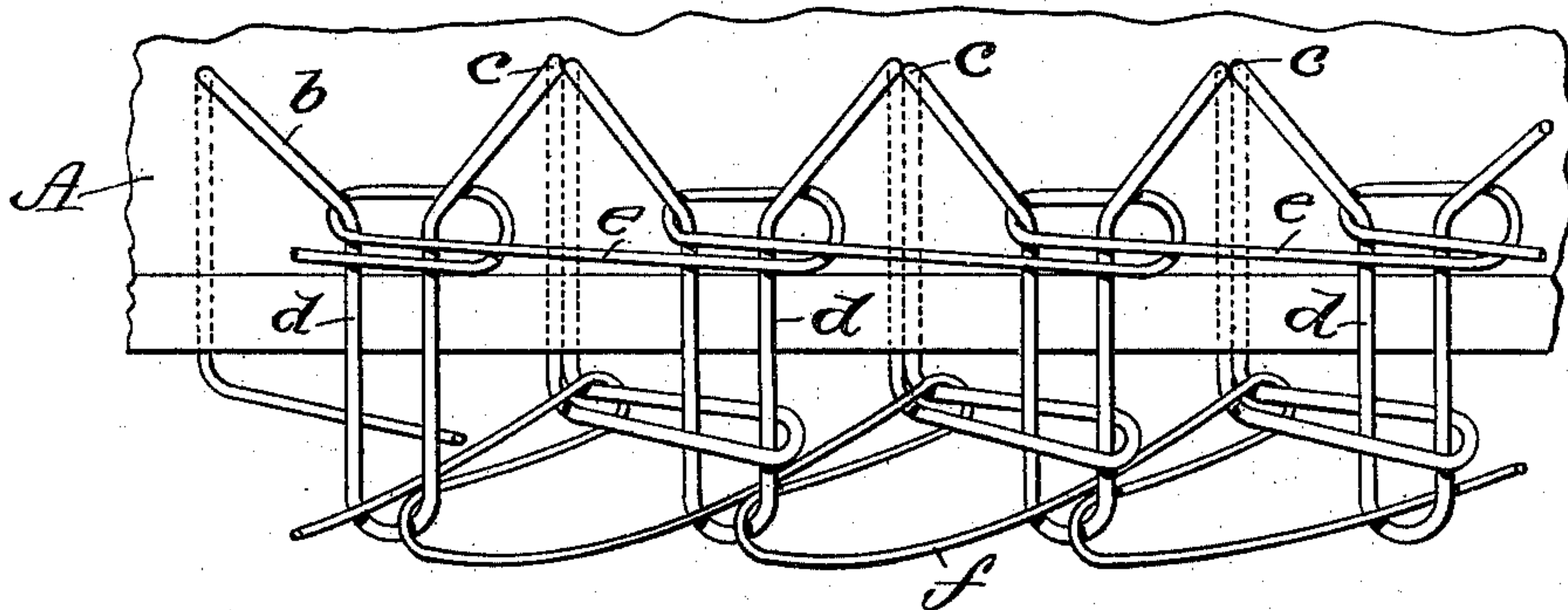
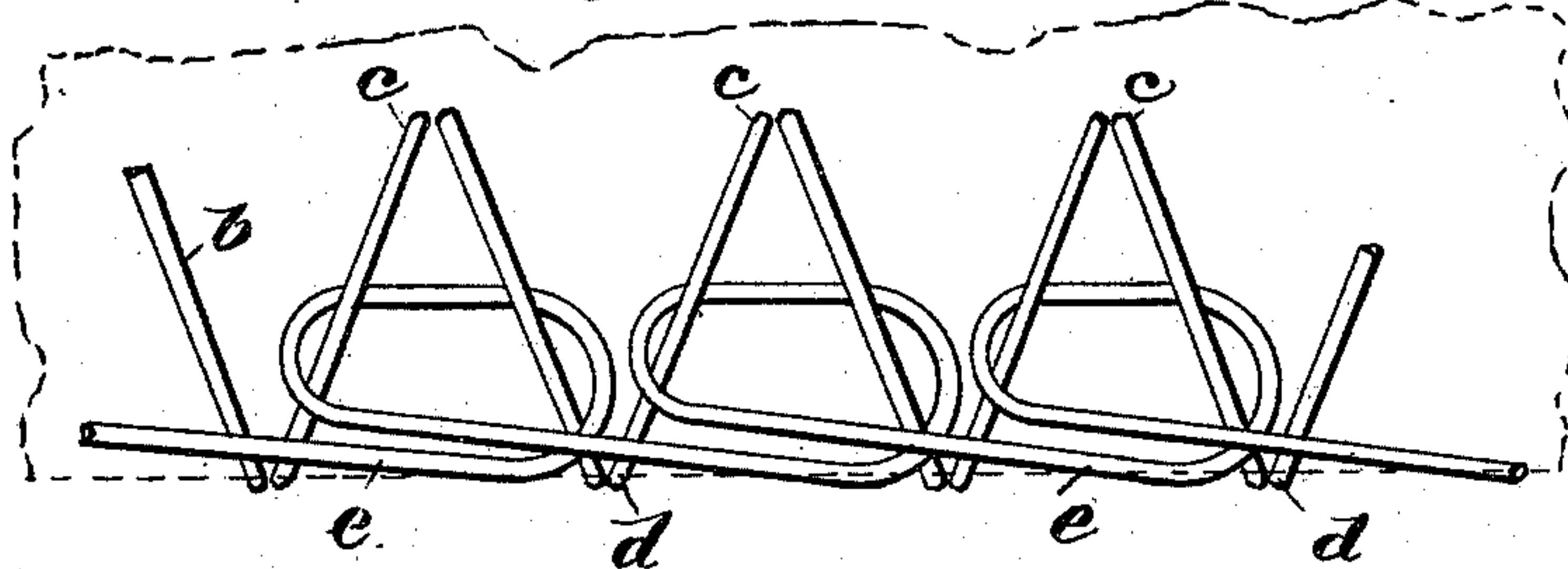


Fig. 3.



Witnesses:

C. W. Benjamin

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Att'y.

UNITED STATES PATENT OFFICE.

JAMES G. GREENE, OF ELIZABETH, NEW JERSEY, ASSIGNOR TO THE SINGER MANUFACTURING COMPANY, OF NEW JERSEY.

OVEREDGE-SEAM FOR SEWED ARTICLES.

SPECIFICATION forming part of Letters Patent No. 598,338, dated February 1, 1898.

Application filed February 6, 1897. Serial No. 622,324. (No model.)

To all whom it may concern:

Be it known that I, JAMES G. GREENE, a citizen of the United States, residing at Elizabeth, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Overseams, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a novel overedge-stitch seam which will have a purl along the edge of the work at both sides thereof, so that when the same is utilized for buttonhole or other similar overedge work a double face or finish will be given to the work, and it will thus present substantially the same appearance on both sides.

In carrying my invention into effect I employ a suitable stitch-forming mechanism for producing alternate overedge and depth stitches, said depth-stitches passing through the material or work adjacent to the edge thereof, and said "overedge-stitches," as the name implies, passing over the edge of the material. To produce the purl at the edge of the material on the upper side of the work, I employ a purling-thread which is carried entirely around the doubled needle or other overedge-thread of each alternate or overedge stitch on the upper side of the work, and as the loops or circles of this purling-thread are tightened around the needle-thread at the edge of the work they form, in connection with the overedge-thread, a purl finish to the upper side of the overedge-seam, the purl edge on the lower side of the work being formed in the usual manner, thereby producing a double-faced purl-edged seam.

In the accompanying drawings, Figure 1 is a perspective diagrammatic view, and Fig. 2 a diagrammatic plan view, illustrating my invention. Fig. 3 is a diagrammatic plan view illustrating a slightly-modified form of my invention.

A denotes the material, and b the needle-thread of an overseam, in the production of which either the needle or the material is shifted horizontally between the descents of the needle to produce alternate depth-stitches c through the material adjacent to the edge thereof and overedge-stitches d over the edge thereof.

To produce the purl on the upper side of the material, I employ the purling-thread e, which is looped entirely around loops or bights of the needle-thread of each of the overedge-stitches on the upper side of the work and which, when suitably tightened or drawn up around the needle-thread of the said stitches, produces a purl edge on the upper side of the work, and as this upper purl will be employed in connection with an ordinary double chain-stitch or other form of buttonhole-seam into which is incorporated a looper or other thread f, manipulated in the ordinary manner to produce a purl edge on the lower side of the work, a double purl-edged or double-faced overseam will result.

My improved overseam, instead of being made by an overseaming mechanism, in the production of which either the needle or the work is reciprocated horizontally, may be produced by an overseaming stitch-forming mechanism in which the overedge-stitches are formed by a lower thread-carrying needle or looper rising from beneath the work at the edge of the material and the thread-loops of which are carried over the edge, so that the needle in making the depth-stitches can pass downward through the same, the loops of the upper purling-thread e being in such instance so presented to the lower needle or looper that the latter will rise and carry its doubled thread through the purling-loops, which are subsequently tightened around the loops of overedge-thread thus brought up from beneath the work.

My improved overseam is or may be produced by means of a purling mechanism described in another application, Serial No. 622,325, filed by me simultaneously herewith, or by any other equivalent or suitable mechanism. Although I have hereinbefore described the upper purling-thread as passing around the thread of the overedge-stitches of an overseam composed of alternating overedge and depth stitches, my invention is not to be understood as being limited to this manner of forming the upper purl edge, as this may be produced by passing the purling-thread around the thread of the other alternating stitches—to wit, the depth-stitches of the overseam—and then properly tightening the purl-

ing-loops by drawing them toward the edge of the material. This modified form of my invention is diagrammatically illustrated in Fig. 3. In either form of my invention, however, the purling-thread loops or circles pass around loops or bights formed by doubling the thread around which the purling-thread is carried, thereby making a better or fuller purl than would be made by carrying the purling-thread around a single or undoubled thread.

It will of course be understood that, if desired, one or more gimps or cords may be laid along either the upper or the lower side, or both, of my improved overseam without changing the essential features of my invention.

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

The herein-described overseam, comprising the combination with suitable fabric, of a series of alternating overedge and depth stitches interlocked or interlooped to form a purl along the edge of the lower side of the material, and a purling-thread passing completely around bights or doubled portions of the thread of alternate stitches of the said overseam at the upper side of and at the edge of the material, to form a purl along the edge of the latter at the upper side of the work, thereby forming an overedge-seam with purl edges on both sides.

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

JAMES G. GREENE.

Witnesses:

L. L. BURRITT,

WALTER J. PETTIT.