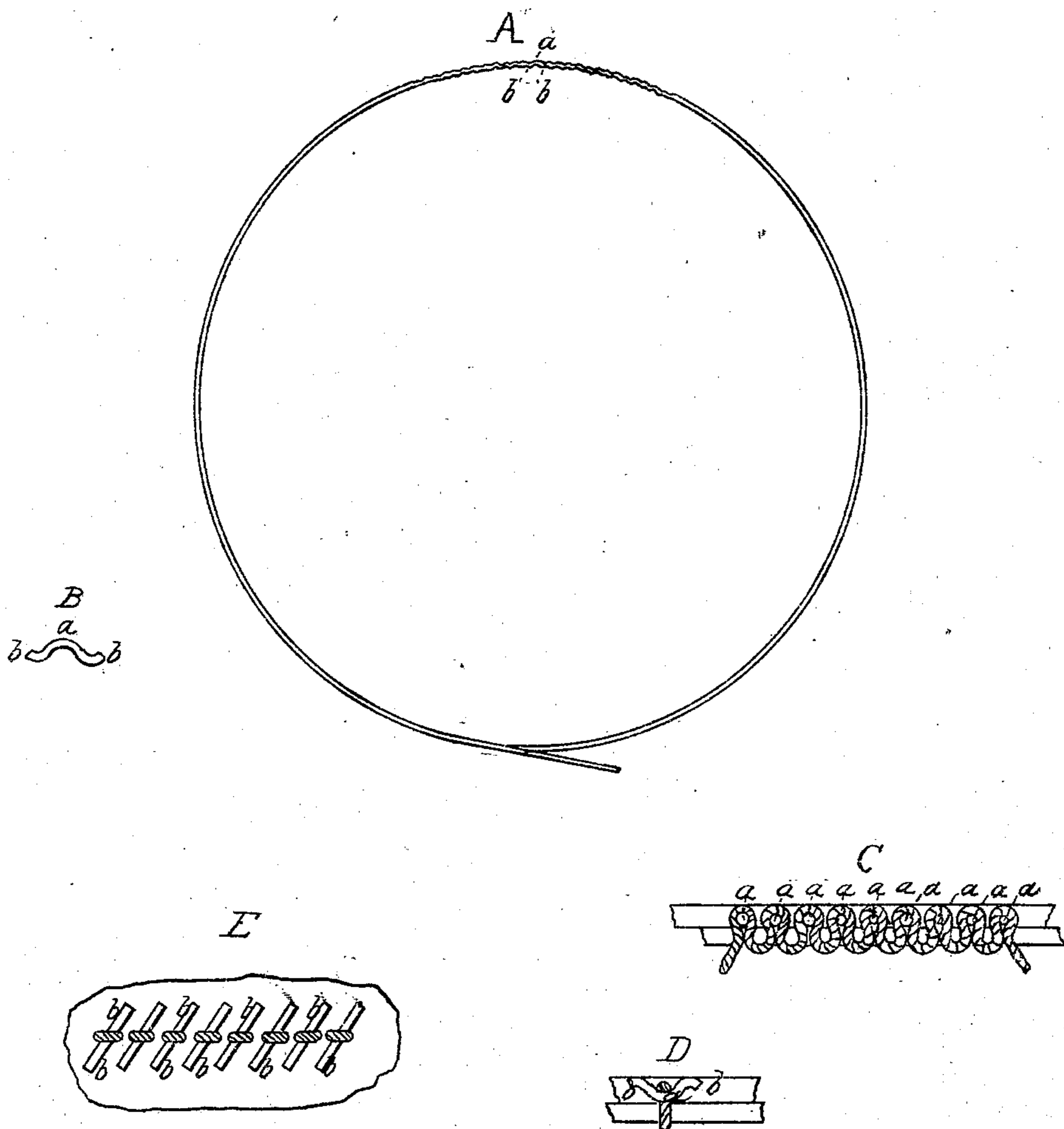


T. K. Reed,
Stitch Fastening Wire for Sewing Machines.
No 86591. *Patented Feb 2, 1869.*





T. K. REED, OF EAST BRIDGEWATER, MASSACHUSETTS.

Letters Patent No. 86,591, dated February 2, 1869.

IMPROVEMENT IN STITCH-FASTENING WIRE.

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, T. K. REED, of East Bridgewater, in the county of Plymouth, and State of Massachusetts, have invented an Improved Stitch-Fastening Wire; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practise it.

I have lately invented an improved means of fastening sewing-machine stitches, applicable particularly to stitches made in leather with waxed thread, and consisting in confining each loop or bow of thread at the surface of the stock opposite to that at which the thread enters, by means of a short pin or piece of wire inserted in the bow.

In practising said invention, I prefer to use, for each stitch, a short piece of wire, bent into the form shown at B in the accompanying drawing, the bow part or centre of the wire drawing up into the thread-hole, and keeping the ends tightly against or embedded in the surface of the stock, and also preventing end movement of the wire.

My intention is to employ a mechanism for inserting these wires, co-operating with the stitch-forming mechanism, and, for that purpose, it is desirable to have a series of the fastenings so disposed that they may be fed successively into position for the successive stitches, for which purpose I prefer to use a wire made up of a continuous series of these fastenings, all formed ready for the insertion of each into a stitch-loop, as it is cut from the end of the wire or coil.

The drawing represents a section of a coil of wire

thus made, the wire having a series of bows or bends, *a*, forming the centres of the respective fastenings, and at each side of each bow, two horns or ends, *b b*, each united to the adjacent horn or end of the next bow or fastening.

The wire, being brought into this form by passing it through suitable machinery, is in condition to be placed in the sewing-machine, and to be intermittently fed, to bring the end of the wire into the successive stitch-loops, each piece of a length forming one fastening, being automatically cut off at the formation of each stitch.

The formation of the fastenings may, of course, be somewhat varied from that shown, but the shape substantially as represented I consider to be the best.

The application of the wire as a stitch-fastening device will be readily understood from the sketches marked C, D, and E; C showing a section through a series of stitches, D, a section taken lengthwise through one of the wires, and E, a plan of the series of stitches so secured, the wire and thread, in each view, being enlarged.

This stitch-fastening wire may be applied with rapidity in a machine for which I have an application for a patent now pending in the United States Patent Office, filed October 28, 1868.

I claim a stitch-fastener or bolt, made of wire, bent at its centre, and turned over at its ends, substantially as shown at B.

T. K. REED.

Witnesses:

J. B. CROSBY,
FRANCIS GOULD.