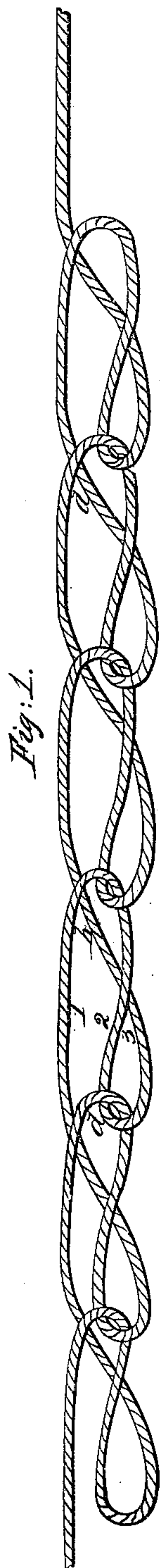


H. Kelsea.
Manufacture of Sewing Silk.

N^o 19,283.

Patented Feb. 2, 1858.



UNITED STATES PATENT OFFICE.

H. KELSEA, OF NORTH BRANCH IN ANTRIM, NEW HAMPSHIRE, ASSIGNOR TO HIMSELF
AND HENRY DUNKLEE, ASSIGNORS TO D. B. FULLER AND J. C. FULLER, OF NEW
YORK, N. Y.

MANUFACTURING SEWING-SILK.

Specification of Letters Patent No. 19,283, dated February 2, 1858.

To all whom it may concern:

Be it known that I, HAROLD KELSEA, of North Branch in Antrim, of the county of Hillsboro and State of New Hampshire, have invented a new or Improved Manufacture of Twist or Sewing-Silk; and I do hereby declare that the same is fully described and represented in the following specification and accompanying drawings, of which—

Figure 1, exhibits the mode of interlooping or trebling a single strand, in carrying out my invention. Fig. 2, the appearance of the trebled or interlooped strand in a twisted state; the above two figures being drawn on an enlarged and distorted scale, in order more easily to represent the method of performing my said new manufacture.

My invention consists in a new or improved manufacture of sewing silk or twist it being made by interlooping a single strand so as to lie together and side by side between each two adjacent interloopings of it, three straight portions of the strand. After this has been done, the whole is to be twisted together so as to form one single line or cord.

In Fig. 1, the strand is shown as looped at *a*. Another loop *b*, having been formed in it, is passed through loop *a*. Next, another loop *c*, is formed in the strand and inserted through the loop *b*. A new loop is next formed and inserted through the preceding loop and this process is continued until the whole strand is looped and interlooped,

there being made by it between the decussations of each two consecutive loops three portions 1, 2, 3 or a trebling of the strand. This trebling of the strand may be and is usually performed by machinery for which a patent was granted to me on the seventeenth day of July A. D. 1855. The strand after having been thus trebled being wound on a bobbin, or reel and subsequently twisted so as to form a single thread adapted to the purposes of sewing articles together.

In manufacturing sewing silk it has been customary to bring and twist together three separate strands, I however employ but one strand and in so doing am enabled to avoid much labor, and to effect a considerable saving in the amount and cost of machinery employed relatively to what is requisite in the old process of employing three separate strands.

I do not claim a manufacture of silk twist as made by laying and twisting together three different strands, but

What I do claim is—

My improved manufacture of silk twist or sewing silk as made by looping and interlooping a single strand and subsequently twisting it into one line or cord as specified.

In testimony whereof I have hereunto set my signature this tenth day of December A. D. 1855.

HAROLD KELSEA.

Witnesses:

HENRY DUNKLEE,
HIRAM GRIFFIN.