2 Sheets—Sheet 1.

A. MOLL.

Star Braid.

No. 205,567. Patented July 2, 1878.

Fig. 1.

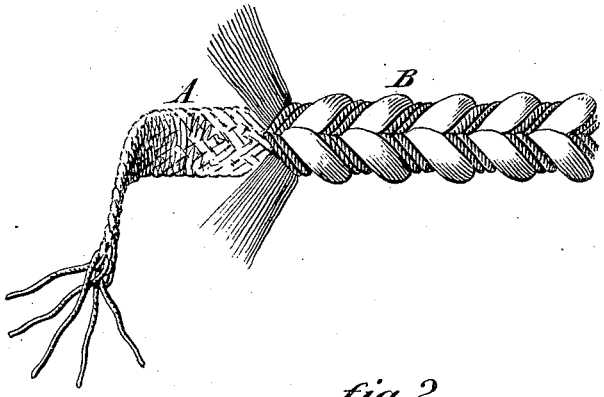
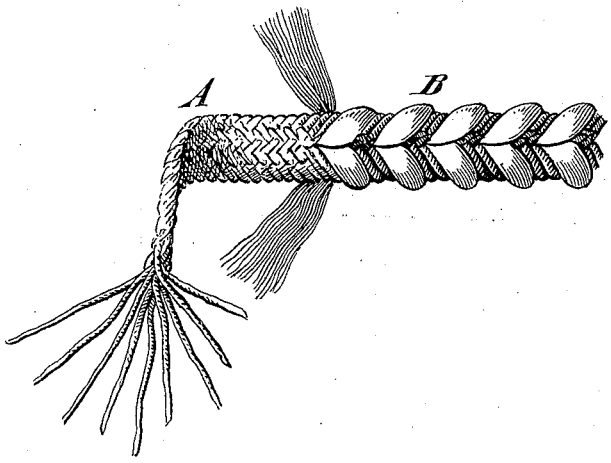


Fig. 2.



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2 Sheets—Sheet 2.

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Star Braid.

No. 205,567. Patented July 2, 1878.

Fig. 5.

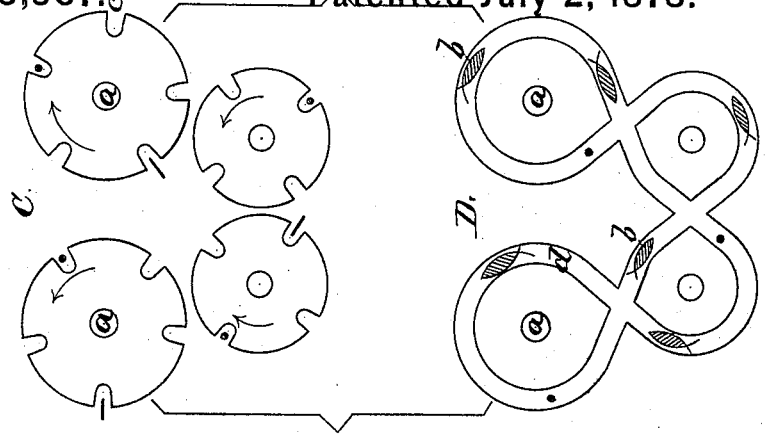


Fig. 4.

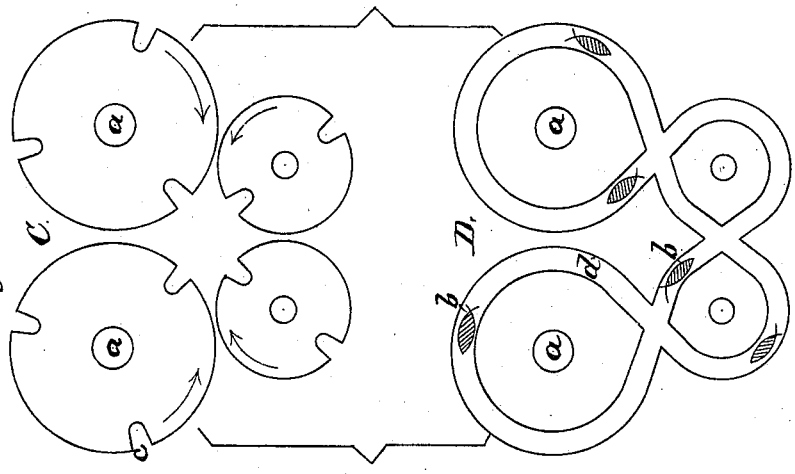
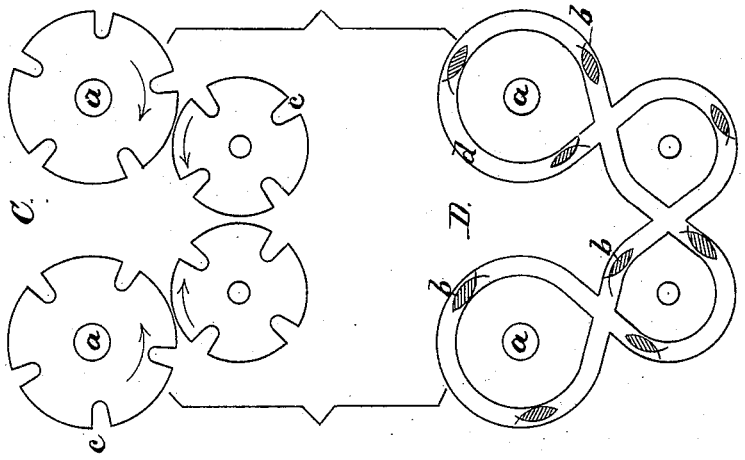


Fig. 3.



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UNITED STATES PATENT OFFICE.

AUGUST MOLL, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN STAR BRAIDS.

Specification forming part of Letters Patent No. **205,567**, dated July 2, 1878; application filed February 2, 1877.

To all whom it may concern:

Be it known that I, AUGUST MOLL, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Star Braid; and I do hereby declare that the following is a full, clear, and exact description of the same.

The invention relates to improvements in that kind of trimming-braid known in the market as "star" braid, being mainly intended to simplify, facilitate, and cheapen the manufacture of star braid, so that it can more successfully compete with the imported article.

The usual kind of star braid is manufactured on double-braiding machines, which form a double-braided body or binding-braid, the pearl being tied off with three binding-threads.

I have found that star braid can be made on single-braiding machines with a single-braided body or binding-braid, thereby using from forty-five to forty-eight per cent. less number of threads, and, in order to obtain the same width, use thicker threads.

In cotton and worsted the coarse thread is cheaper per yard than the fine thread, so that the binding-braid of single-braided star braid is over fifty per cent. cheaper than the binding-braid of double-braided star braid.

My invention consists, as a new article of manufacture, of a star braid with a single-braided body or binding-braid, and with the usual two filling-threads to form the pearls.

In the accompanying drawing, Figure 1 represents a piece of single-braided star braid manufactured in accordance with my invention. Fig. 2 is a piece of double-braided star braid as heretofore commonly made.

In Figs. 3, 4, 5 are shown at C the wheels, and at D the track of the spindles in the several machines for making star braid. Fig. 3 shows the old style of double-braider; Fig. 4, the single-braider as employed in making my improved braid, and Fig. 5 an arrangement of the double-braider as modified by the omission of every third spindle to form the braid patented by me October 3, 1876.

Referring to Figs. 3, 4, and 5, illustrating the construction of machines upon which star braid is formed, each spindle *b* (represented in cross-section) carries a binding-thread, and all together form the binding-braid A, Figs. 1 and 2, which, when interlocked with the filling-threads, form star braid. In incorporating the filling-threads to form the pearls, said filling-threads are fed up through concentric openings or hollow shafts *a a* in the end wheels, as heretofore done, and the spindles are carried around the same in the track *d* by the carrying-notches *c* of the wheels C, to tie off the pearls. Instead, however, of tying off said pearls with three threads, as in Fig. 3, I tie off the pearls with two threads by the devices shown in Fig. 4, thus forming as a distinctive article a flat star braid having a single-braided body and uniform pearls.

The material reduction in the cost of manufacturing single-braided star braid admits not only competition with the imported star braids, but furnishes a more preferable braid on account of its greater pliability and reduced thickness.

My previous patent, granted October 3, 1876, is for a braid made on a double-braiding machine, as shown in Fig. 5, omitting every third spindle, as shown at D; but by the omission of this third spindle the braid loses the form of a braid and assumes the form of a cord, and consequently does not answer the purpose required.

Having thus described my invention, what I claim as new is—

As a new article of manufacture, a flat star braid having a single-braided body composed of an uneven number of binding-threads, and with the pearls tied off with two of said binding-threads, substantially as described.

AUGUST MOLL.

Witnesses:
PAUL GOEPEL,
C. SEDGWICK.