

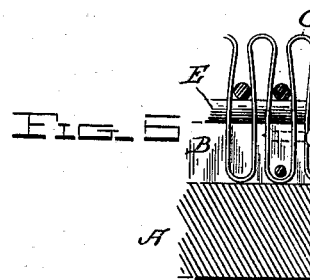
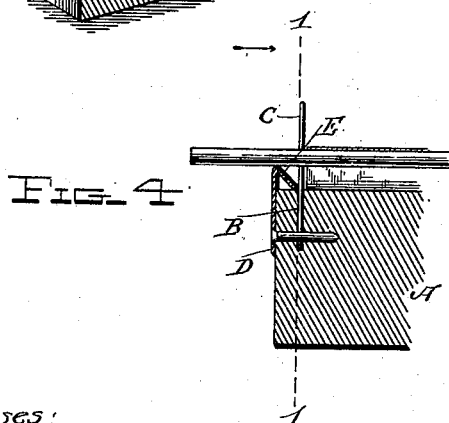
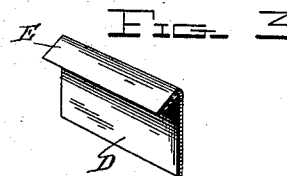
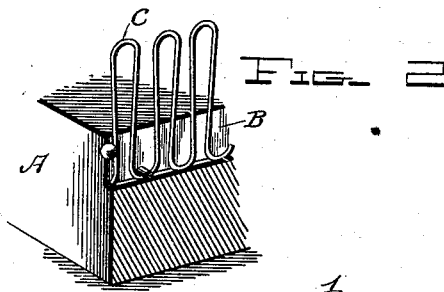
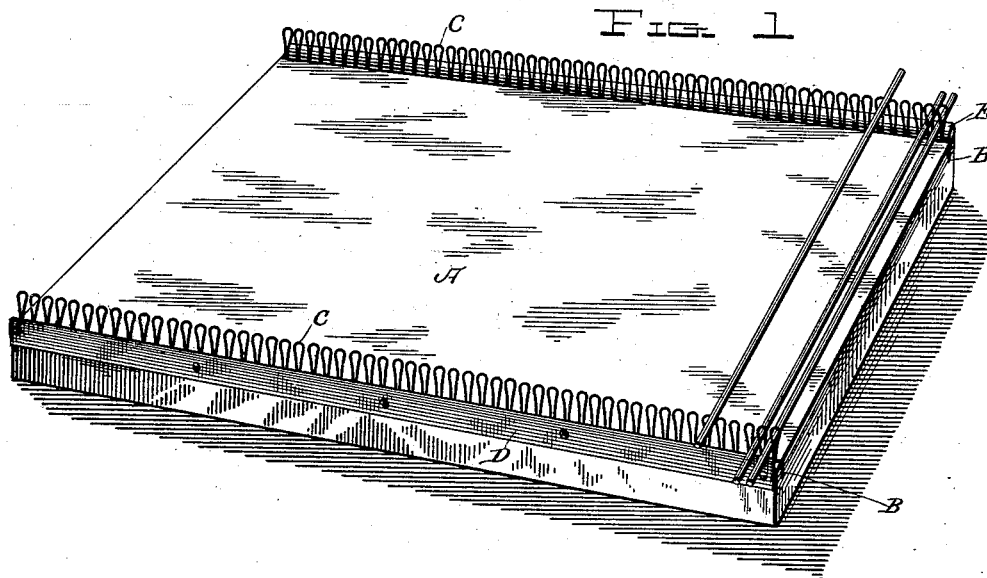
No. 647,836.

Patented Apr. 17, 1900.

C. L. HURLBUT.
PLAITING BOARD.

(Application filed Jan. 27, 1900.)

(No Model.)



Witnesses;
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UNITED STATES PATENT OFFICE.

CARRIE L. HURLBUT, OF WASHINGTON, DISTRICT OF COLUMBIA.

PLAITING-BOARD.

SPECIFICATION forming part of Letters Patent No. 647,836, dated April 17, 1900.

Application filed January 27, 1900. Serial No. 3,024. (No model.)

To all whom it may concern:

Be it known that I, CARRIE L. HURLBUT, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Plaiting-Machines, of which the following is a specification.

My present invention relates to improvements in plaiting-machines, the construction and advantages of which will be hereinafter set forth, reference being had to the annexed drawings, wherein—

Figure 1 is a perspective view of the apparatus as a whole; Fig. 2, a sectional perspective view of a portion of the apparatus; Fig. 3, a perspective view of a portion of one of the side bars or strips; Fig. 4, a transverse sectional view of a portion of the device, and Fig. 5 a longitudinal sectional view on the line 1 1 of Fig. 4.

Referring to said drawings, A denotes the base, preferably made of wood and provided near each side, upon its upper face, with a channel or kerf B, extending from end to end thereof. Within said channels or kerfs thus formed there are seated and secured the spring-retaining arms or loops C, which, as shown in Figs. 2 and 5, are made of a single piece of wire bent back and forth upon itself, forming a series of loops. The closed looped ends are, as will be noted, largest near the ends, so that the adjacent sides come close to each other at this point. The side bars or strips are formed of a single piece of sheet metal bent to form a main body portion D and an overturned downwardly-inclined portion E, as is best illustrated in Figs. 3 and 4. Said bars are secured upon the outer face of the base parallel to the kerfs and loops, the main body portion D lying flat against the edge of the base, as is best illustrated in Fig. 4, while the downwardly-inclined section E extends in toward the loops, the edge of said section preferably coming in contact with the loops. To secure said side bars in place and also to maintain the loops in their proper position and relation, small nails F or other equivalent fastening devices are driven in through the side bars over the ends of the loops seated within the kerf and into the base, Figs. 2 and 4.

To hold the ends of the loop-strip from projecting out of the ends of the kerf, a brad or small nail is driven into the base and engages the free ends, as is illustrated in Figs. 2 and 5.

In use one of the needles or cross-bars is forced down between the second pair of loops from the end of the apparatus farthest from the operator, the needle bearing upon the upper edge of the side bars or bearing-strips over the cloth to be plaited. The second needle is then placed under the goods and said goods is brought over the first needle and said second needle is secured between the first pair of loops. The third needle is placed between the fourth pair of loops on top of the goods and the fourth needle is placed under the goods, the goods being drawn toward the first plait, and said fourth needle is forced down between the third pair of loops, forming the second complete plait. This operation is continued until the desired number of plaits is made. The width of the plait will of course be determined by the space left between the needles or cross-bars as they are put in position. Box-plaiting and other plaiting may also be formed, as will be well understood. When the plaiting is finished, the needles are carefully drawn endwise out between the loops, thus not displacing the plaits which have been formed.

By reason of the inclination of section E should one of the needles become displaced it can be readily inserted by moving it endwise between the loops, the end riding up over said inclined portion and coming to place.

Having thus described my invention, what I claim is—

1. In a plaiting-machine, the combination of a base; a series of spring-loops extending up therefrom near the side edges thereof; and bearing strips or bars secured to the base at a point intermediate the loops and the outer edge of the base, said bars or strips having that face next to the loops inclining upwardly and outwardly, substantially as and for the purpose described.

2. In a plaiting-machine, the combination of a base provided with longitudinally-extending kerfs near its sides; spring-loops formed of a single piece of wire seated within said

kerfs; and bearing bars or strips secured to the sides of said base and extending up a slight distance therefrom, said bars being provided with a downwardly-inclined face projecting in toward the loops, substantially as
5 and for the purpose described.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

CARRIE L. HURLBUT.

Witnesses:

MAY V. HURLBUT,
HORACE A. DODGE.