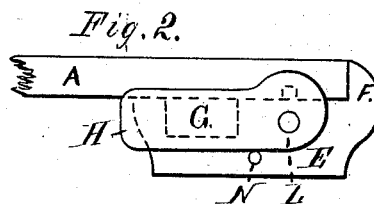
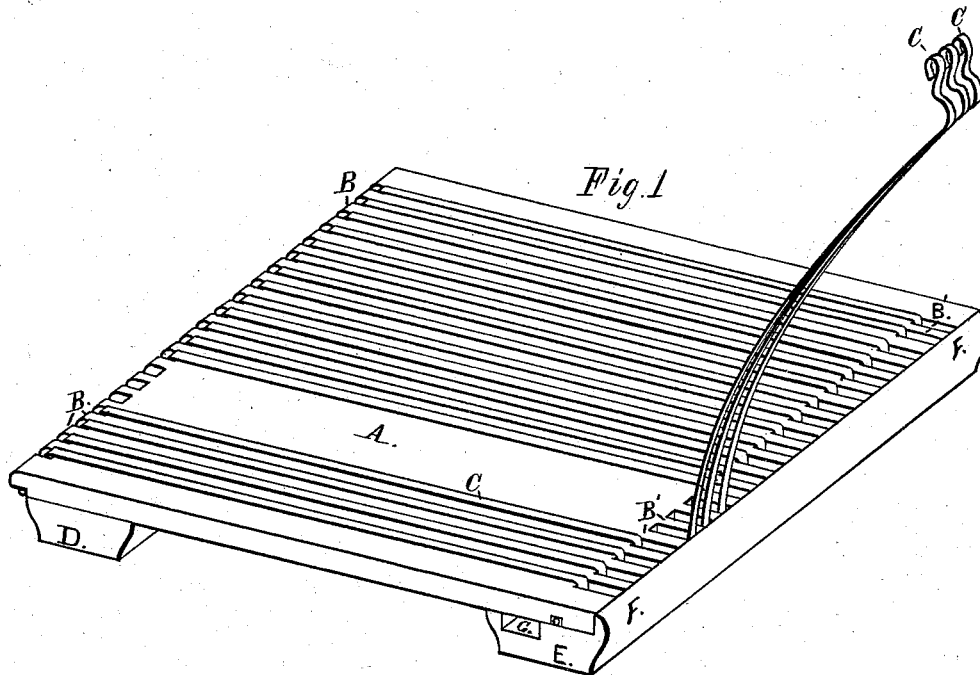


H. P. YOUNG.
Plaiting - Machine.

No. 219,611.

Patented Sept. 16, 1879.



Witnesses.
Erving S. Porter,
Nathaniel Hill

Inventor.
Harlan P. Young,
By Albert M. Moore,
His Attorney.

UNITED STATES PATENT OFFICE.

HARLAN P. YOUNG, OF LOWELL, MASSACHUSETTS, ASSIGNOR OF ONE-HALF HIS RIGHT TO ABEL WHEELER, OF SAME PLACE.

IMPROVEMENT IN PLAITING-MACHINES.

Specification forming part of Letters Patent No. **219,611**, dated September 16, 1879; application filed April 26, 1879.

To all whom it may concern:

Be it known that I, HARLAN P. YOUNG, of Lowell, in the county of Middlesex and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Plaiting Devices for Plaiting Cloth, of which the following is a specification.

My invention consists in providing the back rib with a vertical extension to cover and protect the back ends of the tongues; also, in providing the plaiter with a pocket to hold the gages when not in use; also, in providing a pocket.

In the accompanying drawings, Figure 1 is an oblique view of a plaiter with my improvements attached, except the cover of the pocket; and Fig. 2 is an end view of the rib containing the pocket, with cover attached, the pocket being indicated by the dotted rectangle.

A is the plate, tongued at B B' to receive the presser-bars C C in the usual manner, and consisting of a very thin board supported upon the narrow ribs D E, which extend from end to end of the plate A along the under side of the same at its edges. The ribs D E, by raising the plate A and the free ends of the presser-bars C above the table on which the plaiter is used, allow the use of a much thinner plate, a thin plate requiring much less stock and being much less likely to warp than the thick board heretofore used, as the latter rested directly upon the table, whereas the air circulates on both top and bottom of the thin plate, and the grain of the ribs runs across the grain of the plate. The ribs also, by allowing the fingers to be placed under the plate, enable the plaiter to be lifted and handled with much greater ease.

The rib E, besides being one of the supports of the plate A, is rabbeted on its upper side, so as to allow the plate to rest in the rabbet, and the back side of said rib to extend vertically at F to the top of the plate, and thus to support and protect the ends of the long tongues B' from being damaged or broken, and

also to prevent the presser-bars from springing back and catching on the ends of said tongues B'.

The vertical extension F of the rib E dispenses with a molding formed of a separate piece, as heretofore, and frequently getting loose from the plate.

The rib E is grooved on its upper side next to the bottom of the plate A to form a pocket, G, to receive the gages when not in use, the gages being thin strips of wood or metal used to regulate the width of the plaits made in the cloth.

The pocket G is permanently closed at the farther end by a plug of wood, or by not cutting the pocket the whole length of the rib. At the nearer end the pocket is closed by a cover, H, pivoted at L at one end to the rib E, and prevented from dropping below the pocket by the stop N.

The presser-bars C C are, as usual, made of iron or steel wire, and are likely to be rusted by damp weather and by the moisture which is applied to the cloth plaited and ironed upon the machine. To avoid this danger I cover these bars with tin, nickel, or other metal or substance which resists corrosion, and thereby, besides improving the appearance of the bars and causing them to last much longer, I prevent them from soiling with iron-rust any white cloth or cloth of delicate color which may be plaited on the machine.

I claim as my invention—

1. In a plaiting device, rib E, provided with the vertical extension F, as and for the purpose specified.
2. A plaiting device provided with the pocket G, as and for the purpose specified.
3. A plaiter provided with the pocket G, in combination with the cover H, as and for the purpose specified.

HARLAN P. YOUNG.

Witnesses:

ALBERT M. MOORE,
GEORGE W. SEARLE.