

L. O. WINANS.
Plaiting-Machine.

No. 215,423.

Patented May 13, 1879.

Fig. 1

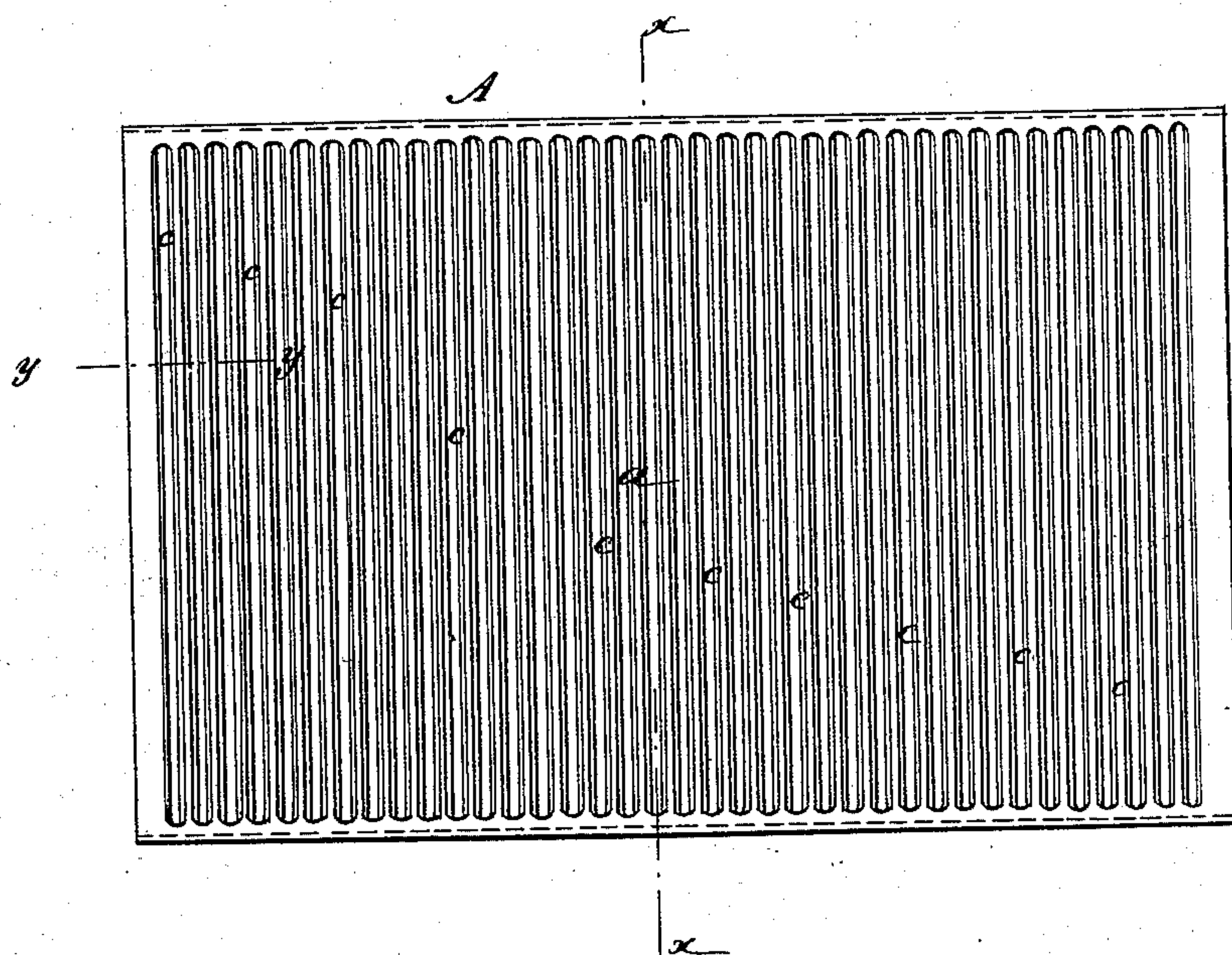


Fig. 2

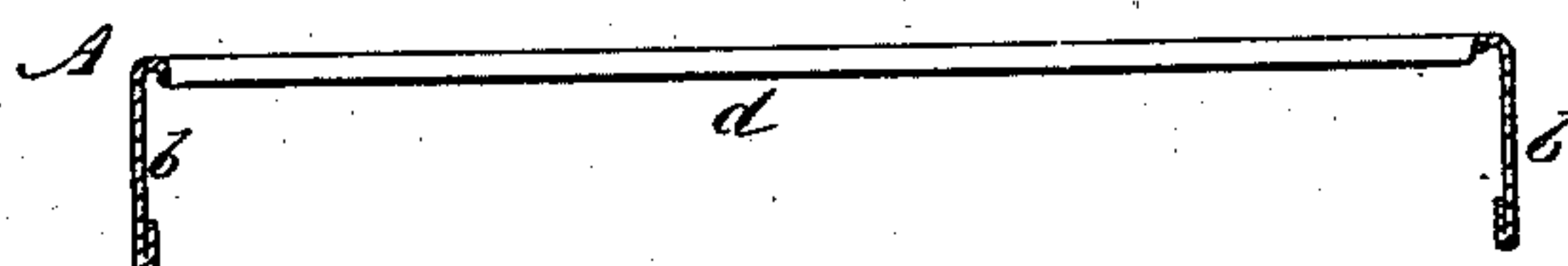
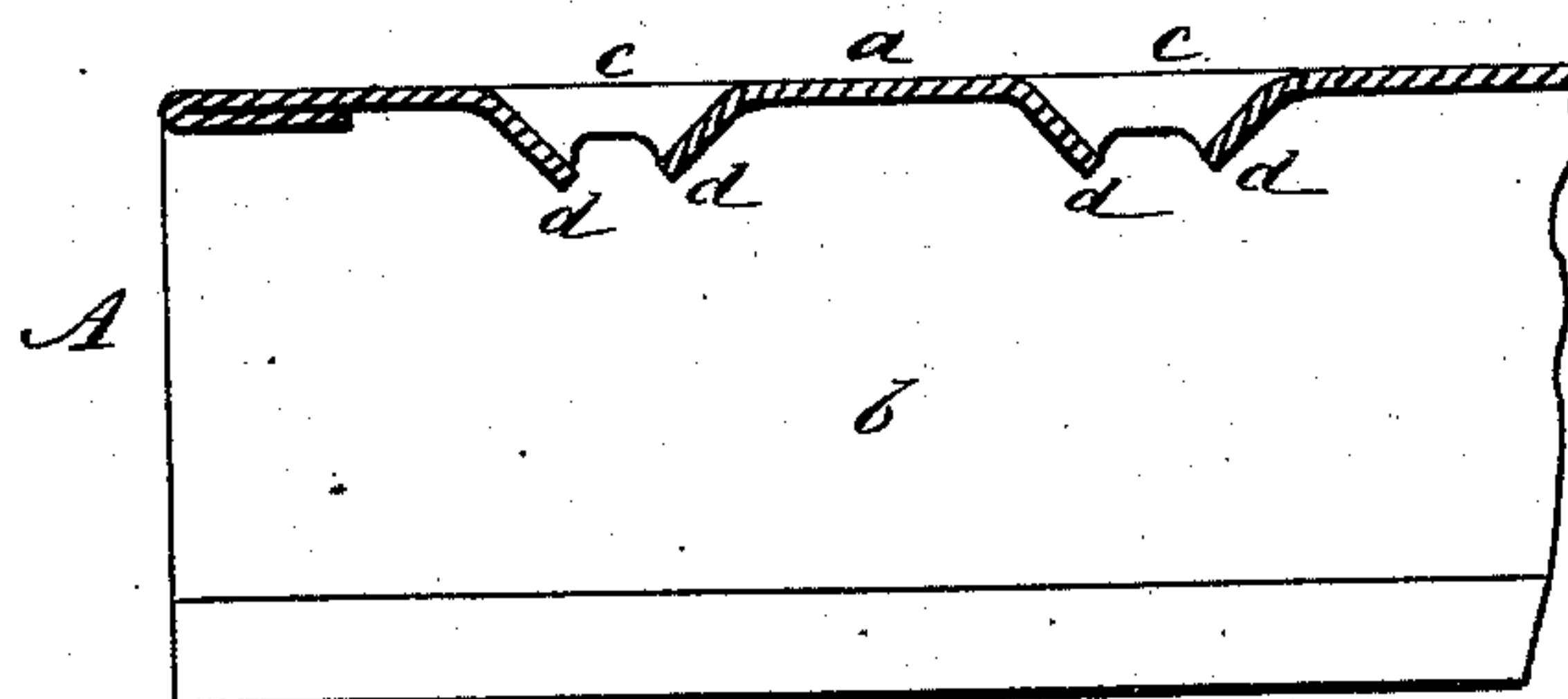


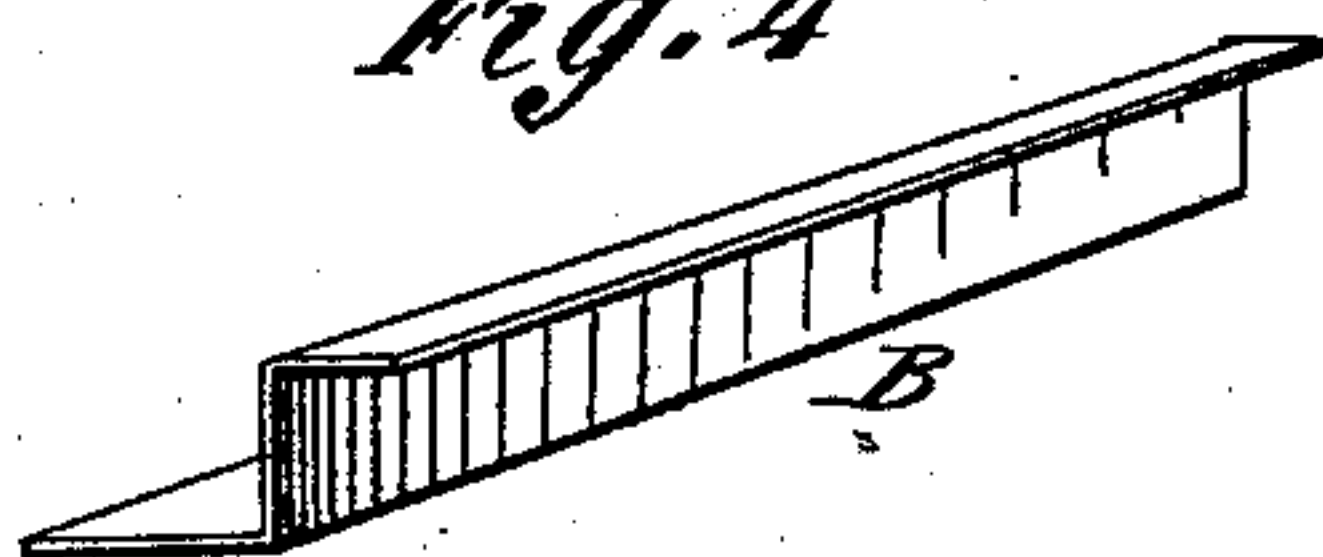
Fig. 3



WITNESSES:

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Fig. 4



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UNITED STATES PATENT OFFICE.

LEONARD O. WINANS, OF NEWBURG, NEW YORK.

IMPROVEMENT IN PLAITING-MACHINES.

Specification forming part of Letters Patent No. **215,423**, dated May 13, 1879; application filed March 28, 1879.

To all whom it may concern:

Be it known that I, LEONARD O. WINANS, of Newburg, in the county of Orange and State of New York, have invented a new and Improved Plaiter, of which the following is a specification.

The object of this invention is to provide a device for facilitating the making of plaits in dresses and other articles; and it consists of a rectangular frame or box, made of a single piece of tin, in the top whereof are transverse parallel slots equidistant from each other, and having the edges of the slots bent down at an obtuse angle, so as to form lips under each slot. The plaits are formed by forcing the goods down through the slots with a flat blade, the rough edges holding the material and preventing it from slipping, and, when all the plaits are made, pressing them down flat with an iron.

In the accompanying drawings, Figure 1 is a top view or plan of the plaiter. Fig. 2 is a cross-section on line *x x*. Fig. 3 is a longitudinal section on line *y y*; and Fig. 4 represents the plaiting-blade.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a rectangular frame or box having a top part, *a*, and sides *b b*, formed by bending the sheet of tin down at a right angle, and stiffening the edge by bending it or doubling it up. These sides *b* form the support of the plaiter, holding it up to give space underneath to force the material down and form the plaits.

In the top *a* are transverse slots *c*, made by striking through the metal with a suitable die, so as to force the sides of the slots down at obtuse angles to the top, and thus form lips *d d* under the sides of the slots, the edges whereof are left rough to catch the material.

B is the knife or blade for forcing the material through the slots.

The device is employed as follows: The material is laid flat on the top *a*, and by means of the knife B it is forced down through the slots, one after the other, or at suitable intervals, according to the width of plait required. The rough edges of the lips *d* catch the material and prevent it from drawing out, and thus only one knife or blade is necessary. When all the plaits are made the iron is run over them, underneath, pressing them down flat, and then they are drawn out by pulling the material from the end opposite that at which the plaiting was commenced.

This construction of the plaiter greatly simplifies the work, and it can be done much more rapidly than where two blades are employed; and the construction of the plaiter of one piece of metal and the forming of the slots with dies greatly reduce the cost of the article.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. As an improvement in plaiters, the plaiter herein described, made of a single piece of metal, having a top, *a*, with slots *c*, and sides *b*, turned down at right angles to the top to form a support for the plaiter, substantially as described.

2. In combination with the slots *c*, the lips *d d*, under the sides of the slot and at an obtuse angle thereto, for the purpose of catching the material and holding it during the operation of plaiting, substantially as described.

LEONARD O. WINANS.

Witnesses:

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