

J. H. BROWN.
PLAITING MACHINE.

No. 179,763.

Patented July 11, 1876.

Fig. 1.

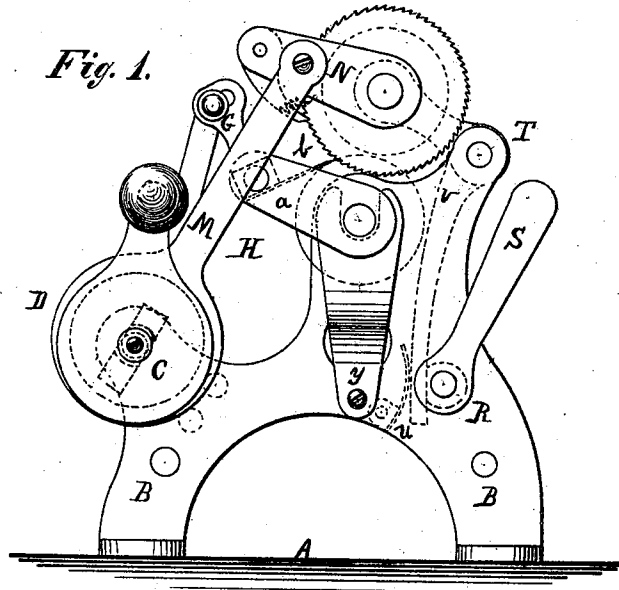
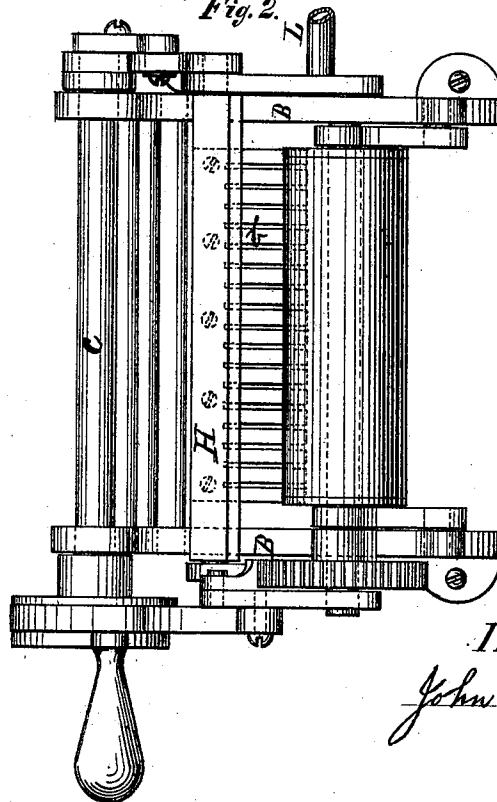


Fig. 2.



Witnesses:

Henry Eichling
Attest

Inventor:

John Hamilton Brown

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Fig. 3.

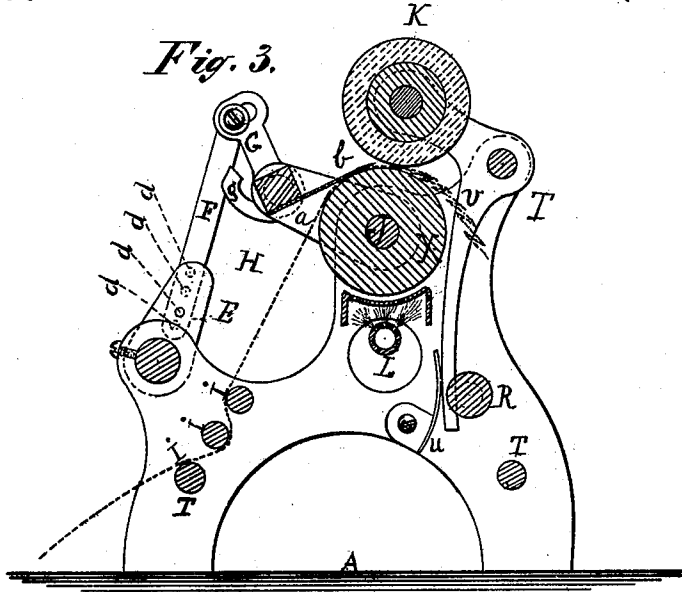
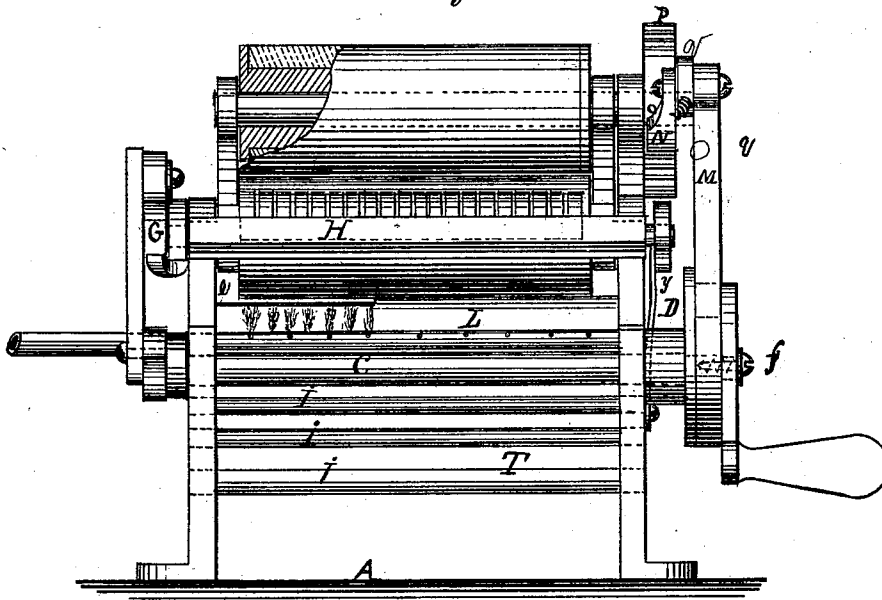


Fig. 4



Witnesses:

Henry Cichling.
W. H. H. H. H.

Inventor:

John Hamilton Brown

UNITED STATES PATENT OFFICE.

JOHN H. BROWN, OF NEW YORK, N. Y.

IMPROVEMENT IN PLAITING-MACHINES.

Specification forming part of Letters Patent No. **179,763**, dated July 11, 1876; application filed April 21, 1876.

To all whom it may concern:

Be it known that I, JOHN HAMILTON BROWN, of the city, county, and State of New York, have invented certain new and useful Improvements in Crimping-Machines, of which the following is a specification:

The object of my invention is to produce a machine which shall be simple in action and accurate in operation, for making trimming for ladies' wearing apparel; and consists of the mechanism hereinafter described.

Figure 1 is an end view. Fig. 2 is a top view. Fig. 3 is a sectional view. Fig. 4 is a front view.

A is the bed plate. BB are the sides of the frame. C is the driving-shaft. D is an adjustable eccentric for regulating the feed. E is the crank for operating the crimping-blade *b*. F is the connecting-rod for conveying motion to the crimping-blade. G is a lever for governing the action of the crimp-former on the material. H is a rock-shaft, to which the crimping-blade is attached. III are tension-bars, through which the material is passed before crimping. J is a shaft, to which two arms, *a a*, are secured, said arms *a a* forming bearings for rock shaft H. K is the top or the feeding-roller. L is the gas-pipe for heating the lower roller X. M is a connecting-rod for conveying motion from the adjustable eccentric D to the feed-lever N. O is a pawl for operating the ratchet-wheel P. *q* is a spring for holding the pawl to the ratchet-wheel. R is an eccentric shaft for detaching the top or feeding roller K from the heated lower roller X. S is the lever for operating the eccentric shaft R. TT are bars for holding the sides of the frame together. UU are springs, which convey a pressure through the levers V V to the feed-roller K. Y is a spring for producing a friction on the shaft J, for the purpose of allowing the crimping-blade to press on the material before any forward ac-

tion of the crimping-blade takes place. *ddd* are holes in the crank E and connecting-rod F, for regulating the width of the crimp. *e* is a shield for protecting the lower roller from gas, soot, or dirt. *f* is a set-screw for securing the adjustable eccentric D in position. *s* is an extension of lever *a*, against which the lever G strikes, causing the return movement of the crimping-blade *b*. The material to be crimped is passed through the tension-bars III, and between the crimping-blade *b* and heated roller X. When motion is given to the driving-shaft C, the crimping-blade *b* receives a forward and back motion from the crank E and connecting-rod F. In the forward motion the blade *b* presses the material firmly on the roller X, a forward movement of the crimper takes place, making a crimp of the desired width, which is forced between the rollers X and K, which are held in contact by pressure from the springs U U. The crimp being now formed, the feed-rollers receive motion from the eccentric D and ratchet-wheel P, carrying the crimp through the rollers. The crimping-blade returns to its starting-point to form another crimp.

I have now fully described my invention, and the manner of carrying it into effect.

What I claim, and desire to secure by Letters Patent, is—

1. In a plaiting-machine, the adjustable eccentric D, for operating the feed mechanism, substantially as described.

2. The combination of the detaching-levers V V, springs U U, and shaft K, substantially as described.

3. The rock-shaft J, passing through the roller X, in combination with the arms *a a* and blade-shaft H.

JOHN HAMILTON BROWN.

Witnesses:

GEORGE A. WHITMORE,
CHAS. G. STEVENS.