J. B. Brown,

Pouncing Hats.

No. 108,562. Patented. Oct. 25. 1870.

Fig: 1

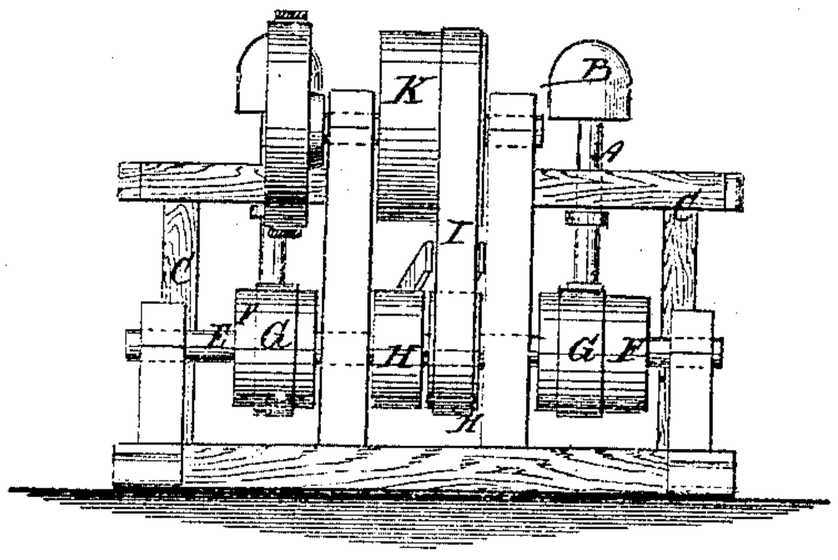
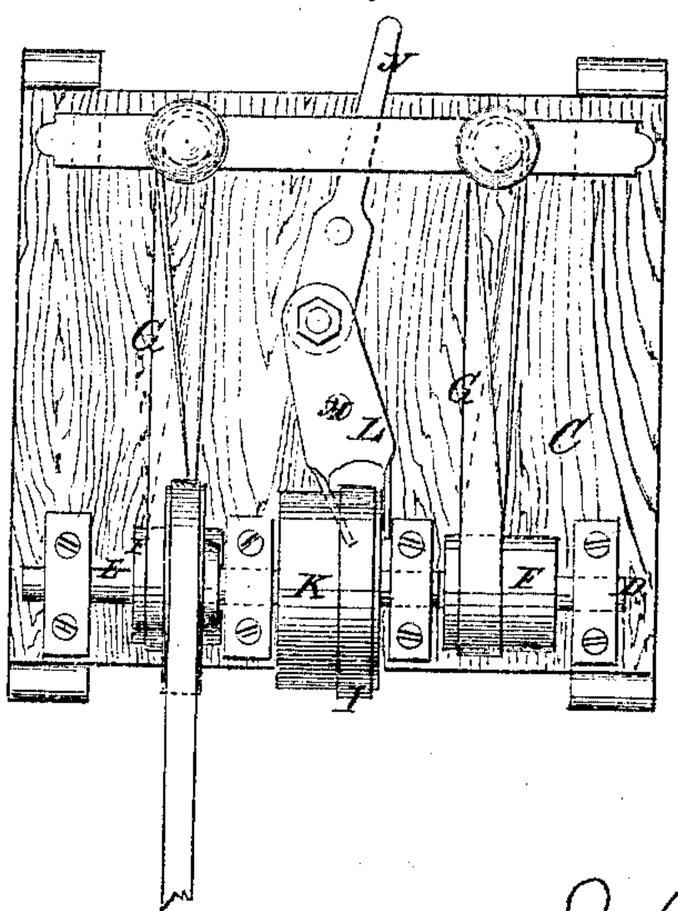


Fig: 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES B. BROWN, OF DANBURY, CONNECTICUT.

IMPROVEMENT IN HAT-POUNCING MACHINES.

Specification forming part of Letters Patent No. **108,562,** dated October 25, 1870.

To all whom it may concern:

Be it known that I, JAMES B. BROWN, of Danbury, in the county of Fairfield and State of Connecticut, have invented a new and Improved Hat-Pouncing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in hat-pouncing machines; and it consists in a novel and simple arrangement, with two vertical mandrels and the forms thereon, for holding and revolving the hat-bodies, of a driving and shifting gear, by which the time lost in shifting from one to the other may be greatly economized, all as hereinafter more fully described.

Figure 1 is a front elevation of my improved machine, and Fig. 2 is a plan view of the same.

Similar letters of reference indicate corresponding parts.

The hat-bodies are usually steamed and placed on the forms of the spindles or mandrels for revolving them, while the said spindles are not running, by one person, and the pouncing is done by another, after being set in motion.

Commonly, two spindles or mandrels are used, the attendants alternately attending to each—that is, the one removes the pounced hat-body from the spindle not running and applies another, while the other attendant pounces the body on the other spindle, the same being in motion, and vice versa. In order to make the necessary changes from one to the other in the shortest possible time, I provide the following driving and shifting gear, in connection with the vertical spindles A, on the tops of which are the forms B, on which the hat-bodies are stretched in the usual way, to be rotated, the said spindles and the driving and shifting gear being mounted on a suitable frame, C.

D and E are two counter-shafts, arranged horizontally near the bottom of the frame, in the same axial line, and each is provided with a pulley, F, over which works a belt, G, for driving a spindle, A. The said shafts meet each other at one end, and each is provided thereat with a pulley, H, the two being side by side, so that a belt may be shifted readily from one to the other.

I is the driving-belt, working from any wide driving-pulley K, and being provided with a belt-shifter, L, pivoted at M, and having a shifting-lever, N, connected to its outer end, and pivoted at O, so that the outer end, which is the handle for the pouncer to take hold of in shifting the belt, will move in the direction of the spindle which it is desirable to set in motion.

As it takes more time to pounce the hat-body than to remove the finished body and apply another, the pouncer will be most occupied, and the time to shift will be when he has finished his operation, when it should be done instantly. Therefore this arrangement of the shifting-lever is provided, so that the pouncer may, at the instant he moves from the finished body toward the other one, apply his hand to the lever and move it with him, for stopping the finished hat and setting the other in motion.

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

The arrangement, with the spindles A and form B, of the independent driving-shafts D E, the pulleys thereon, and driving-belts G, the driving-belt I, and shifting-levers L N, all substantially as specified.

The above specification of my invention signed by me this 14th day of September, 1870.

JAMES B. BROWN.

Witnesses:

G. W. HAMILTON,

DAVID B. BOOTH.