G. W. BERREY.

Machines for Attaching Imitation Beads to Woven Fabrics.

No. 150,674. Patented May 12, 1874.

Fig: 1.

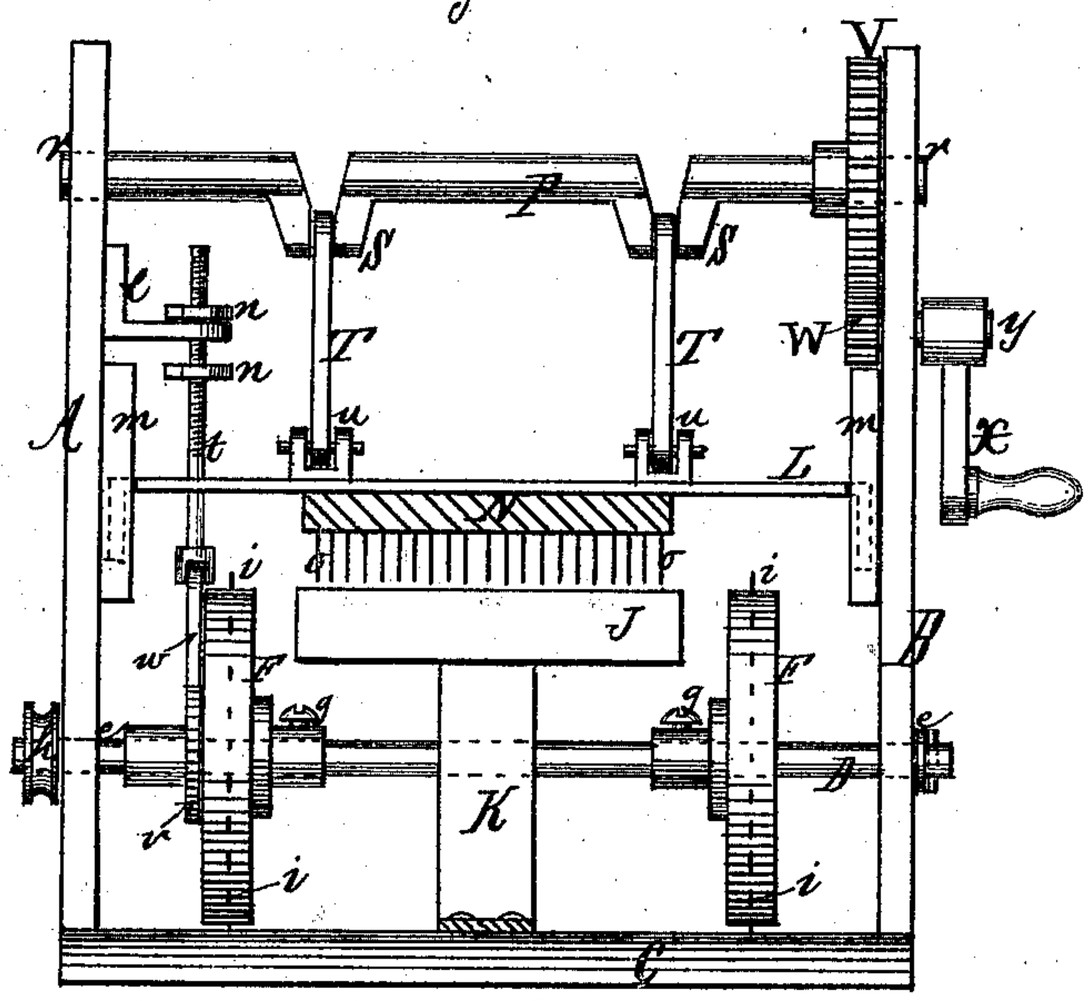
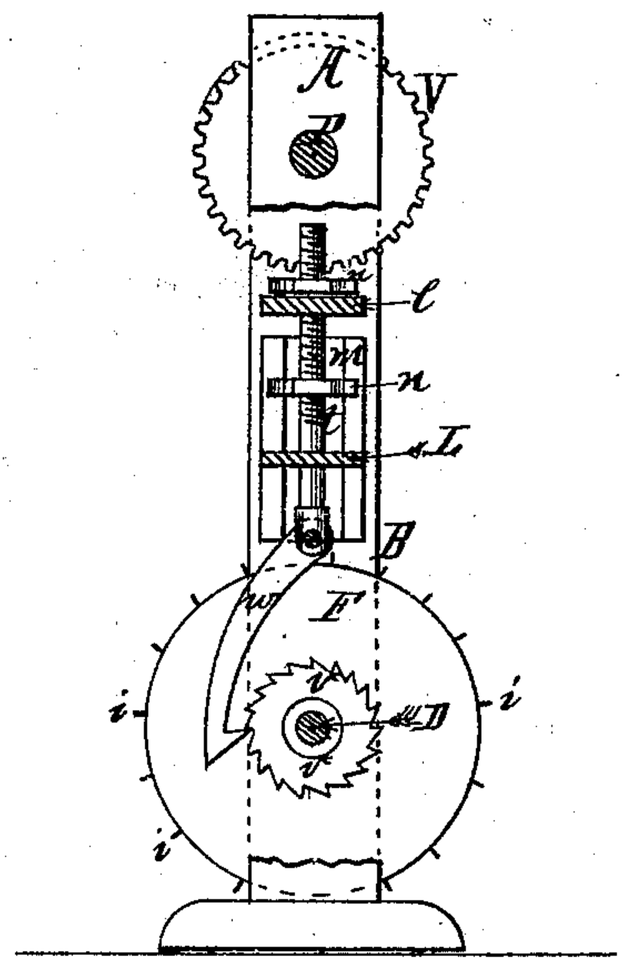


Fig: 2.



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UNITED STATES PATENT OFFICE.

GEORGE W. BERREY, OF NEW YORK, N. Y.

IMPROVEMENT IN MACHINES FOR ATTACHING IMITATION BEADS TO WOVEN FABRICS.

Specification forming part of Letters Patent No. **150,674**, dated May 12, 1874; application filed March 6, 1874.

To all whom it may concern:

Be it known that I, GEORGE W. BERREY, of New York city, county and State of New York, have invented certain Improvements in Fastening Imitation Beads on Woven Fabrics, of which the following is a specification:

The object of my invention is to provide a machine which will produce and place imitation beads on woven fabrics any distance apart, as desired. My invention consists in a machine having two standards placed on a platform. Between these standards I place, in suitable journals, a shaft having a tension-pulley on one end, over which a belt is run connected to a weight. On this shaft two wheels are placed, provided with pins or points penetrating into the fabric, which is laid over said wheels. By turning the shaft the fabric is by this means turned as required. Between these wheels I place a trough or reservoir, designed to contain gum—black or colored—varnish, oil, wax, plaster-of-paris, or any glutinous substance. Over this reservoir I place a horizontal bar, which slides in suitable guideways fastened to the inner sides of the standards. To the lower part of this bar, directly over the reservoir, I fasten a wooden block, into the lower part of which is inserted a number of pins or needles. This sliding bar receives a reciprocating motion from a shaft placed over the bar, in journals in the standards, and is turned by aid of gear-wheels and a crank. This shaft is provided with a double crank, having connecting-rods pivoted to the sliding bar. On one of the wheels of the lower shaft a ratchet-wheel is fastened, into which a pawl works, which serves to turn the lower shaft. This pawl is pivoted to a vertical rod and placed parallel to one of the standards, where it is held by a bracket. The vertical rod, being threaded where it passes through the hole in the bracket, is provided with two set-screws, one on each side of the bracket. The vertical rod, penetrating the sliding bar, is worked up and down by the motion of the same when it comes in contact with the lower set-screw. By adjusting these set-screws the wheels are given longer or shorter revolutions.

In order to more fully describe my invention I refer to the accompanying drawing forming a part of this specification.

Figure 1 is a front view of a machine embodying my invention. Fig. 2 is an end view with part of one of the standards removed.

A and B are the standards; C, the platform; D, the lower shaft in journals *e e*. F F are wheels fastened to the shaft D with aid of set-screws *g g*. *h* is the tension-pulley. *i i* are pins on the circumference of wheels F F. J is the trough or reservoir, fastened to the platform by support K. L is the sliding bar. *m m* are the guides. N is the block with pins or needles *o o*. P is the upper shaft, placed in the journals *r r*. S S are the cranks. T T are the connecting-rods, pivoted at *u u* to the sliding bar. V is the gear-wheel on shaft P, gearing into the gear-wheel W on the shaft *y*, placed in a journal in standard B. *x* is the crank. *v* is the ratchet-wheel on the lower shaft; *w*, the pawl; *t*, the vertical rod; *l*, the bracket; *n n*, the set-screws.

The operation of my machine is as follows: The glutinous substance being placed in the trough, and the fabric being laid over the wheels, the machine is put in operation by turning of the crank. The pins or needles in the block will then penetrate the fabric and dip down into the substance, and by being raised deposit the substance in forms of drops or beads on the lower side of the fabric, which is carried forward by the movements of the pawl and ratchet. By adjusting the set-screws the beads may be set closer or farther apart.

Having thus described my invention, I claim—

The sliding bar L, with pins or needles *o*, trough J, and wheels F F, with pins *i*, in combination with shafts D and P, connecting-rods T T, ratchet-wheel *v*, pawl *w*, rod *t*, set-screws *n n*, standards A and B, and platform C, substantially as and for the purpose set forth.

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