A. HILL.

HAT-BRIM LURING MACHINE.

No. 184,780. Patented Nov. 28, 1876

Fig. 1

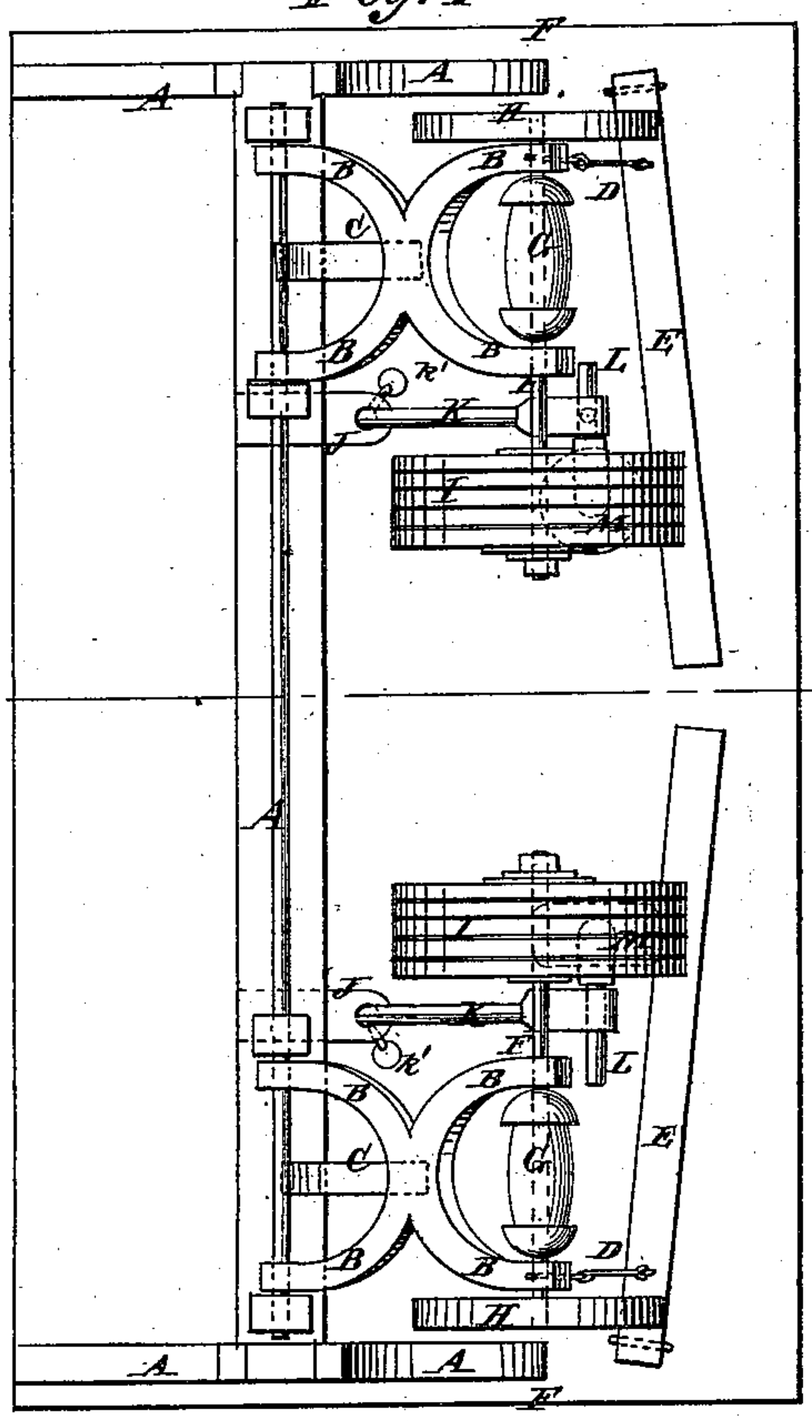


Fig. 2

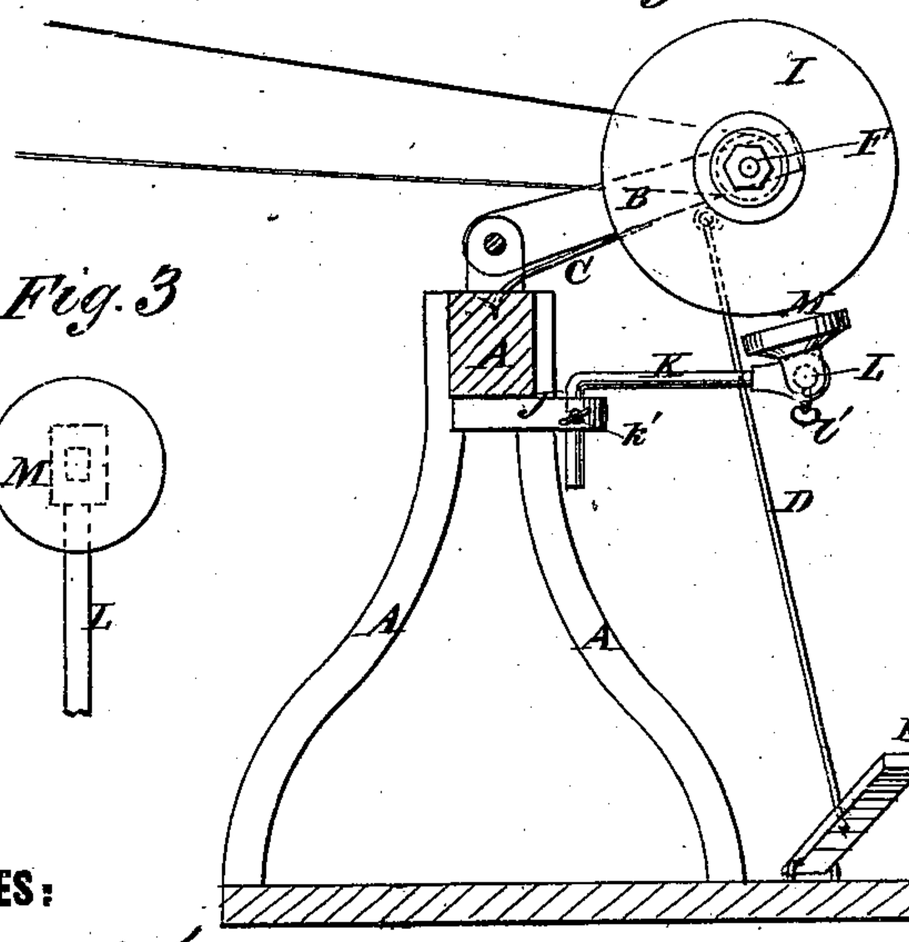


Fig. 3

Fig. 4.

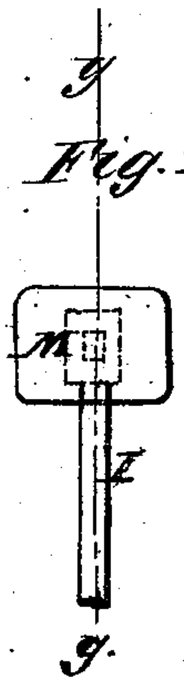
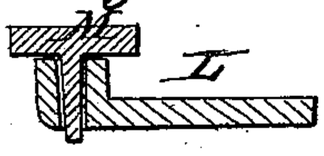


Fig. 5.



WITNESSES:

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AMBROSE HILL, OF YONKERS, NEW YORK.

IMPROVEMENT IN HAT-BRIM-LURING MACHINES.

Specification forming part of Letters Patent No. **184,780**, dated November 28, 1876; application filed September 16, 1876.

To all whom it may concern:

Be it known that I, AMBROSE HILL, of Yonkers, county of Westchester, and State of New York, have invented a new and Improved Wool-Hat-Brim-Luring Machine, of which the following is a specification:

Figure 1 is a top view of my improved machine. Fig. 2 is a cross-section of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a detail top view of the rest for supporting the hat-brim while luring the outside of said brim. Fig. 4 is a detail top view of the rest for supporting the brim while luring the inside of said brim. Fig. 5 is a vertical section of the rest, taken through the line *y y*, Fig. 4.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for luring the brims of hats, which shall be so constructed as to enable the work to be done well, and at the same time very quickly, and which shall be simple in construction and convenient in use.

The invention consists in the combination of the hinged frame, the spring, the shaft, the pulley, the fly-wheel, the luring-wheel, the connecting-rod, and the treadle with each other, and with the frame for luring hat-brims; and in the combination of the adjustable bar, the adjustable rest-bar, and the detachable rest with each other, and with the frame for supporting hat-brims while being lured, as hereinafter more fully described.

A is the frame of the machine, to the top bar of which are hinged the frames B. The frames B are held up by a spring, C, one end of which is attached to the top bar of the frame A, and to the outer part of said frames B are pivoted the upper ends of the connecting-rods D. The lower ends of the connecting-rods D are pivoted to the treadles E, which are pivoted to the platform of the machine, or to the floor upon which the machine stands. In bearings in the outer part of the frames B revolve horizontal shafts F, to which, between the arms of the said frames B, are attached pulleys G, to receive the bands by which they are driven. To the outer ends of the shafts F are attached fly-wheels H, and to their inner ends are attached the luring-wheels I, which are formed by securing several plies of woolen felt or other fibrous texture to a hub. To the top bar of the frame A are attached supports J, in the projecting parts of which are formed holes to receive the vertical parts of the rods K, which are bent at right angles, and are secured in position by a set-screw, *k'*, so that the said rods can be adjusted vertically or laterally, as may be desired. The outer ends of the adjustable rods K are enlarged, and through them are formed transverse holes, to receive the rest-bars L, which are secured in place adjustably by set-screws *l'*. In the ends of the rest-bars L are formed square holes or sockets to receive the stems of the rests M, so that the said rests may be readily detached and replaced by others of different shape or size, as may be best adapted for the brim of the hats to be operated upon.

The rest M that supports the brim of the hat while its outer side is being operated upon I prefer to make round, and the rest M that supports the brim of the hat while its inner side is being operated upon I prefer to make rectangular, with its angles rounded off.

The two parts of the machine are made exactly alike, and they may be placed near each other, as shown in Fig. 1, and this position I prefer, as being more convenient; or they may be placed at any desired distance apart.

With this construction the rests may be adjusted to bring the hat-brims into such a position that the luring-wheels may operate most favorably upon them, and also to take up the wear of the said luring-wheels.

The luring-wheels are raised from the rests, to allow the hat-brims to be inserted and removed, by the springs C, and they are lowered to apply the friction by pressure upon the treadles E.

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

1. The combination of the hinged frame B, the spring C, the shaft F, the pulley G, the fly-wheel H, the luring-wheel I, the con-

necting-rod D, and the treadle E with each other, and with the frame A, for luring hat-brims, substantially as herein shown and described.

2. The combination of the adjustable bar K, the adjustable rest-bar L, and the detachable rest M with each other, and with the frame A, for supporting hat-brims while being lured, substantially as herein shown and described.

AMBROSE HILL.

Witnesses:
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