(No Model.)

B. G. LUTHER.

GLUING ATTACHMENT FOR MATCHING MACHINES.

No. 493,101. Patented Mar. 7, 1893.

Fig. 1.

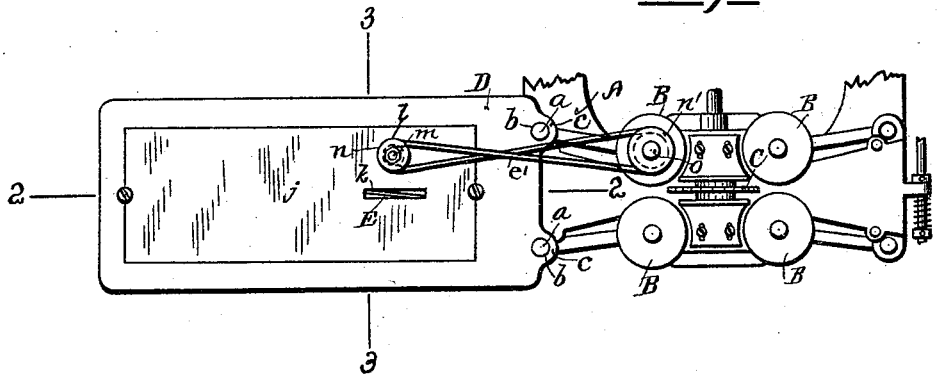

Fig. 2.

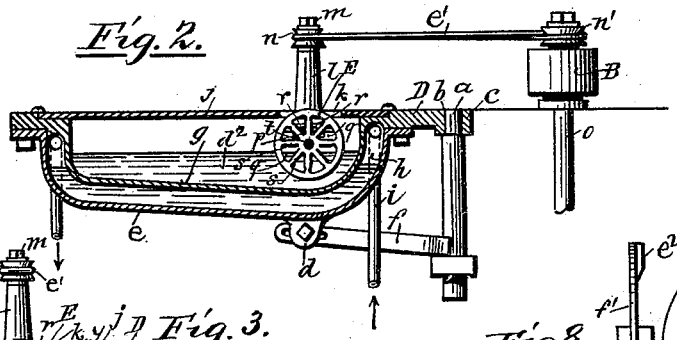

Fig. 3.

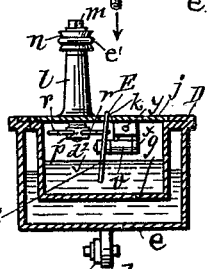

Fig. 4.

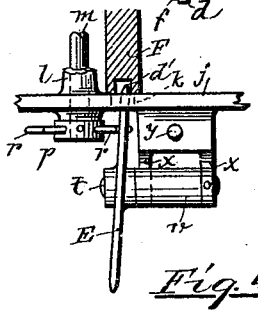

Fig. 5.

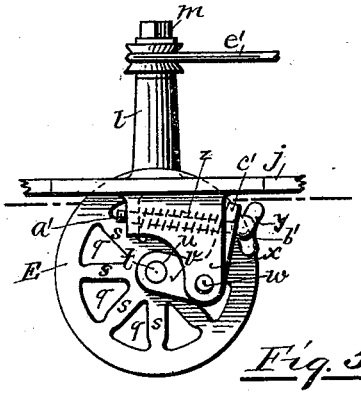

Fig. 7.

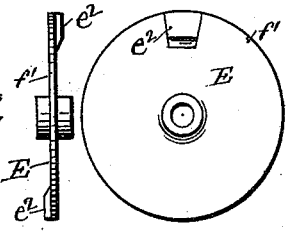

Fig. 8.

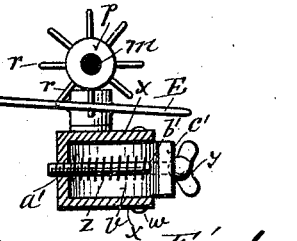

Fig. 6.

Witnesses.

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GLUING ATTACHMENT FOR MATCHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 493,101, dated March 7, 1893.

Application filed April 27, 1892. Serial No. 430,901. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN G. LUTHER, a citizen of the United States, residing at Worcester, in the State of Massachusetts, have invented a new and useful Improvement in Gluing Attachments for Matching-Machines, of which the following is a specification.

My invention consists in the improved construction and operation of the glue-distributing roller, as hereinafter fully set forth.

Figure 1, represents a top view, also showing the cutter, and the feed-rolls of the matching-machine. Fig. 2, represents a longitudinal vertical section, taken in the line 2, 2, of Fig. 1. Fig. 3, represents a transverse section taken in the line 3, 3, of Fig. 1. Figs. 4, 5 and 6, are enlarged detail views of the mechanism for operating the glue-distributing roller. Fig. 7, represents a side view, and Fig. 8, an edge view, of a glue distributing wheel, showing a modification in its construction.

In the accompanying drawings, A represents the frame of the matching-machine, B, B, the feed-rolls, and C the cutter for making the groove in the edge of the board. The table D is removably held upon the upwardly projecting studs *a*, which enter the holes *b* in the ears *c* of the table, and to the ear *d* at the bottom of the hot-water dish *e*, is attached the supporting brace *f*. The glue-pot *g*, as shown in the drawings, is made integral with the table, and forms with the hot water dish *e*, a cavity *h*, into which steam is caused to enter through the pipe *i*. The cover *j* of the glue pot, is provided with a slot *k*, and the hollow upright standard *l*, which forms a bearing for the upright shaft *m*, at the upper end of which is secured the grooved pulley *n*, the said pulley being driven by means of a belt *e'*, from the pulley *n'*, upon the upper end of the shaft *o* of the feed-roll B. To the lower end of the shaft *m* is secured the hub *p*, provided with the radial arms *r*, *r*, which are adapted to enter the spaces *q* between the radial arms *s*, *s*, of the glue-distributing wheel E, the said wheel being held upon a shaft *t*, which is supported for rotation, in the bearing *u*, of the bearing block *v*, which is pivoted at the point *w*, to the ears *x*, *x*, made integral with the cover *j*; and the bearing-block *v* is operated upon its pivot *w*, by means of the thumb screw *y*, upon which is placed the spiral spring *z*, the said screw *y* engaging with the fixed nut *a'*, and passing loosely through the perforation *b'*, in the arm *c'*, of the said pivoted bearing-block *v*. The glue-distributing wheel E, is bored at a slight angle, so that, when secured to its shaft *t*, and rotated upon its bearing *u*, the periphery of the wheel will wabble from side to side of the groove *d'* in the board F, as the said board is being fed forward over the wheel E, by the action of the feed-rolls B, B, the slot *k* in the cover *j*, being made wide enough to allow for the said wabbling movement of the wheel E.

When the board to be grooved is passed between the rollers B, B, over the grooving cutter C, and thence, forward, over the table D, the revolving wheel E,—the lower edge of which is embedded in the glue d^2 with the upper edge projecting upward from the slot *k*,—will enter the groove *d'* in the board, and, as the wheel E revolves, preferably, in a direction opposite to that of the movement of the board, the glue will be placed on alternate sides of the groove, in suitable quantity, so that, when the matched boards are placed together edge to edge, they will be properly glued to each other.

Instead of the inclined wabbling wheel E, shown in Fig. 4, a true disk *f'*, with suitable projections e^2 upon opposite sides, as shown in Figs. 7 and 8, the said projections serving to apply the glue in patches, alternately upon opposite sides of the groove in the edge of the board, as in the case of the said wabbling wheel, of which the construction shown in Figs. 7, and 8 is an equivalent.

I claim as my invention—

1. The combination with the cutter, and the feed-rolls of a matching-machine, of the glue-pot, the wabbling glue-distributing wheel, and means for rotating the said wheel, substantially as described.

2. The combination with the cover *j*, provided with the slot *k*, the shaft *m*, provided with the radial arms *r*, and means for driving the said shaft, of the glue-distributing wheel E, provided with the openings *q* adapted to

receive the arms *r*, the pivoted bearing block *v*, adjusting screw *y*, and the spring *z*, substantially as described.

3. The combination with the cutter, and the feed rolls of a matching machine, of the glue pot, the slotted cover, the glue distributing wheel, the bearing block pivoted to the cover, and means for adjusting the height of the bearing block, substantially as described.

4. The combination with the cutter, and the feed rolls of a matching machine, of the glue pot, and the glue distributing wheel adapted to apply the glue in alternate patches, first on one side of the groove in the board, and then on the other side, and means for rotating the said wheel, substantially as described.

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