

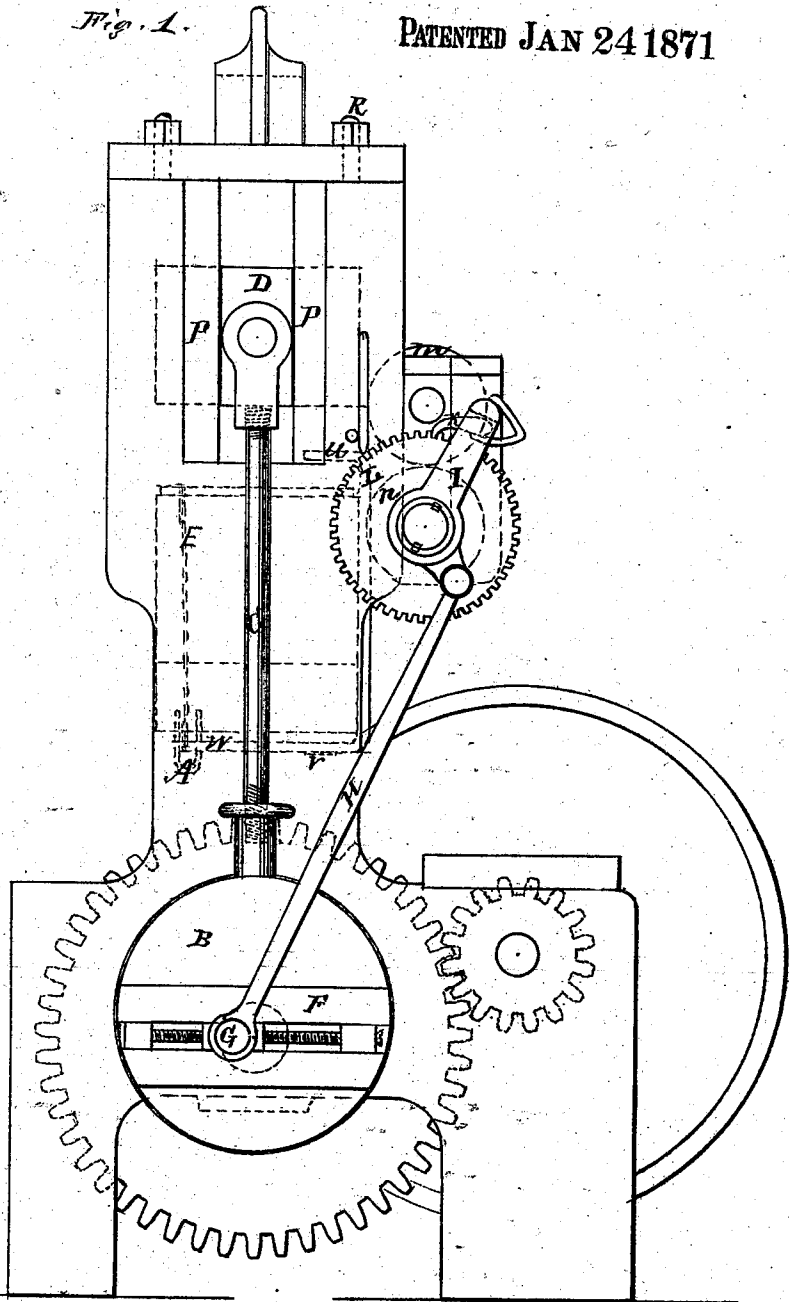
Alfred L. Elliot

Machine for Cutting Paper Collars.

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Fig. 1.

PATENTED JAN 24 1871



Witnesses.

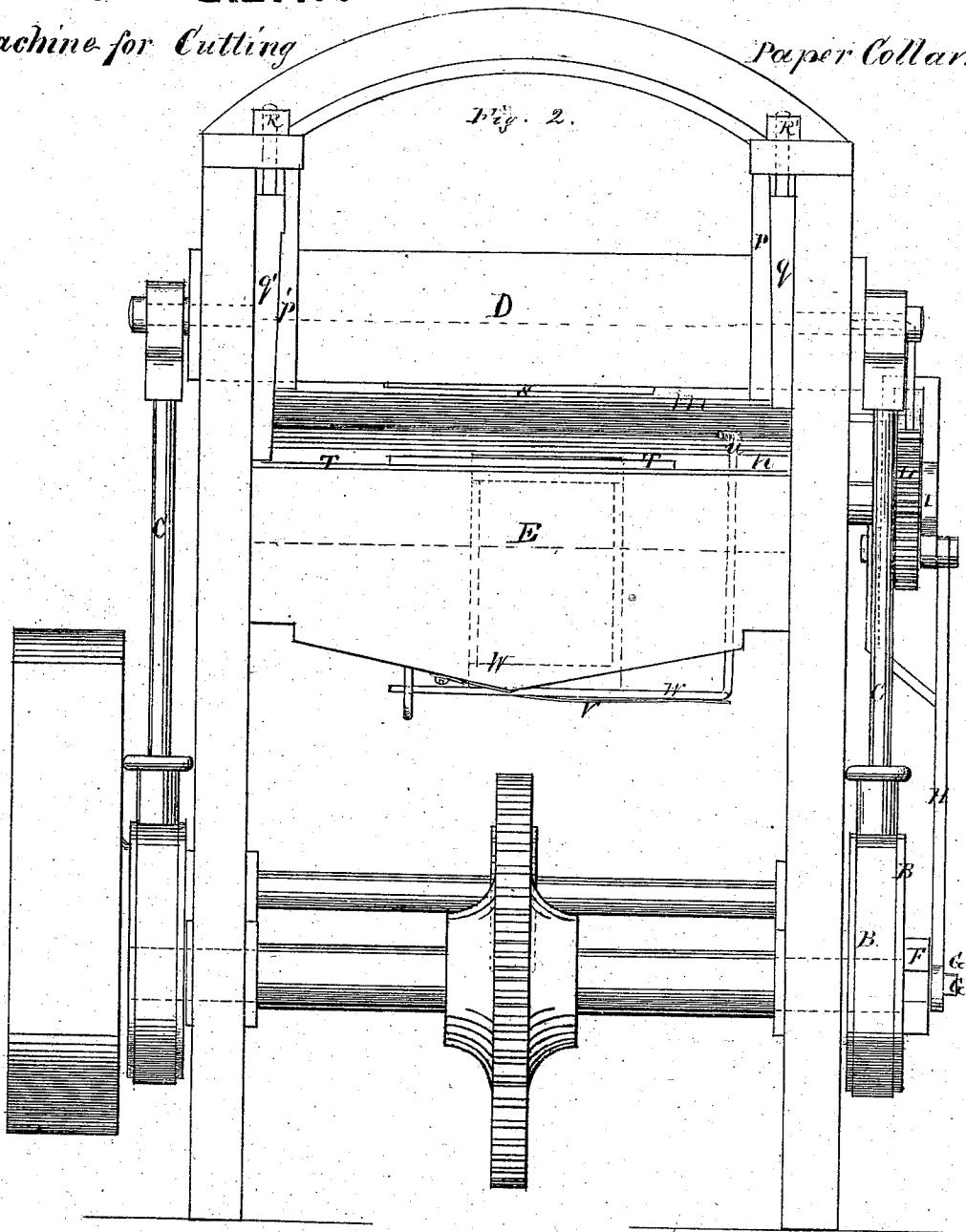
L. B. Wright.
 E. E. Emerson.

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Machine for Cutting

Paper Collar.



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Machine for Cutting Paper Collars.

Fig. 3.

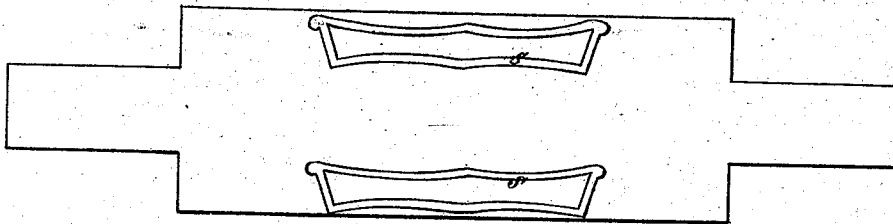
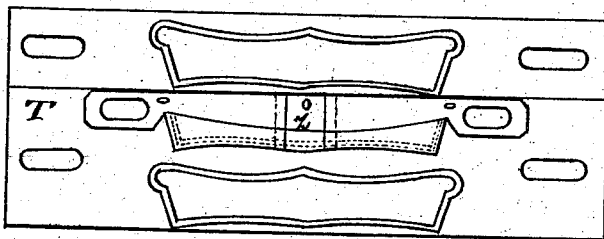


Fig. 4.



Witnesses.

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Samuel Wright his atty.

United States Patent Office.

ALFRED L. ELLIOT, OF BOSTON, ASSIGNOR TO HIMSELF AND EDWIN A. EATON, OF WINCHESTER, MASSACHUSETTS.

Letters Patent, No. 114113, dated January 24, 1871.

IMPROVEMENT IN MACHINES FOR CUTTING PAPER COLLARS.

The Schedule referred to in these Letters Patent and making part of the same.

I, ALFRED L. ELLIOT, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Machine for Cutting Collars, of which the following is a specification.

Figure 1 represents an end view of the machine;

Figure 2 is a front elevation; and

Figures 3 and 4 are plan views of the cutters and dies.

This invention relates to certain improvements in that class of machines in which, from a sheet of whole paper fed in at one side, a finished collar is turned out at the other side, as will more fully appear in the subjoined description.

Referring to the drawing—

A represents the frame of the machine, with pulley, shafting, and gearing, as generally employed, to impart motion to the eccentric B, which, being connected to press-block D by means of connecting-rod C, moves the latter to and from the receiving-block E.

The connecting-rod C is attached to eccentric and press-block D by right-and-left screw, for the purpose of raising or lowering press-block D, thereby lengthening or shortening the cut of dies.

To the eccentric B is attached the frame F, rotating about the axis of the eccentric's shaft, and containing guide-screw and adjustable pin G, to which is fastened the rod H, which moves bell-crank I, pawl K, wheel L, and feed-rollers M N.

The press-block D is guided by the plates P P', which latter rest against the wedges Q Q' in such a manner that by working the nuts R R', through which the threaded ends of the wedges pass, the horizontal position of the press-block D is adjusted.

To the lower face of block D are firmly secured the cutters S S', while to the upper face of the receiving-block E is attached the plate T, containing the die for cutting one end of the collars, another die for the imitation of the stitches and for the making of button-holes and for creasing, and a third die for cutting the other end.

To the lower portion of receiving-block E is attached the apparatus for ejecting the refuse paper. This apparatus consists of finger U, spring V, and frame W, reaching through a slot of block E up to

the last die, and by a rapid motion disengages the refuse from the collar and draws and ejects the latter from the machine.

The plate containing the dies is adjustable by means of oblong holes and screws, or in any other practical way, for the purpose that when it is required to change the size of the collar the dies are moved in relation to the cutters, which cut the ends so as to shorten or lengthen the ends.

The plunger or male die in press-block D, as above mentioned, is beveled, and thus does not come down parallel to the face of the female-die, but touches it with one end first, and thus securing a shearing cut, which may be done with one die.

Instead of two cutters and dies, one cutter and one die-plate may be substituted, by which the operation of cutting is performed, and one die for creasing, stitching, and making button-holes; but in this case ten different-sized dies would be required to make the ordinary-sized collars.

The die for stitching, creasing, and making the button-holes is made adjustable by removable center-sections, Z, of different widths, and the slots and set-screws in the ends the same as the other dies. By this means this die can be made to conform to all the variations of the cutting-dies.

Having thus fully described my invention,

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

1. The combination of the press-block D, guides P P', wedges Q Q', and nuts R R', constructed in the manner and for the purpose as explained.

2. The arrangement of sliding and beveled dies, by which with two parts of successive dies I can cut different sizes of collars, substantially as described.

3. The combination of sliding dies, as described, with dies for stitching or for button-holing collars, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED L. ELLIOT.

Witnesses:

CARROLL D. WRIGHT,
LUCIUS B. WRIGHT.