C. W. BLAKE.

Machine for Attaching Paper-Fasteners.

No. 207,157. Patented Aug. 20, 1878.

fig. 1.

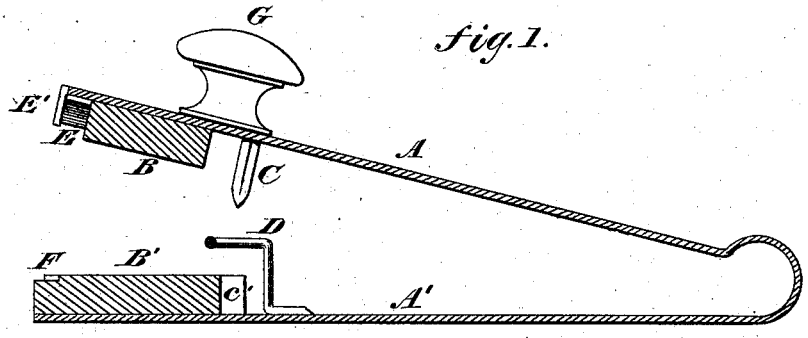


fig. 2.

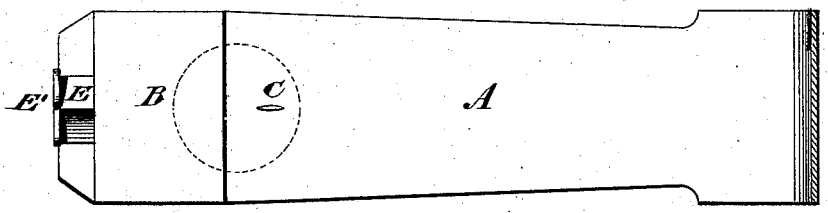


fig. 3.

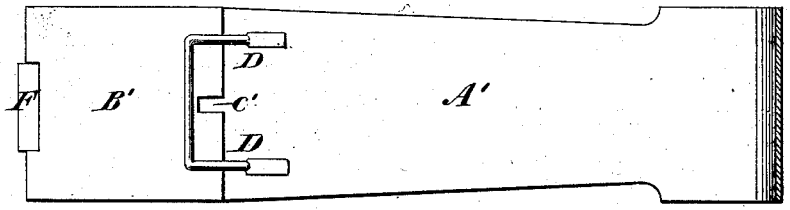
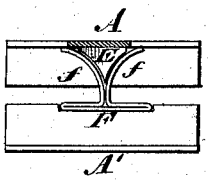


fig. 4.



WITNESSES:

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CHARLES W. BLAKE, OF LYNDON, KANSAS.

IMPROVEMENT IN MACHINES FOR ATTACHING PAPER-FASTENERS.

Specification forming part of Letters Patent No. **207,157**, dated August 20, 1878; application filed January 19, 1878.

To all whom it may concern:

Be it known that I, CHARLES W. BLAKE, of Lyndon, Osage county, and State of Kansas, have invented a new and Improved Machine for Attaching Paper-Fasteners, of which the following is a specification:

In the accompanying drawings, Figure 1 represents a vertical longitudinal section of my improved device for attaching paper-fasteners. Figs. 2 and 3 are, respectively, a bottom view of the upper or hammer part, and a top view of the lower or bed part; and Fig. 4 is a front view of the machine, shown in the act of splitting or spreading the fastener.

Similar letters of reference indicate corresponding parts.

The invention relates to a machine for attaching paper-fasteners, particularly the well-known McGill fasteners.

The invention consists of a machine made of a spring portion, carrying at the lower or base part a guard for the paper, and a bed-plate with rear recess for the slitting-knife and front groove or seat for the fastener, and at its top part the slitting-knife, hammer-plate, and spreader.

By referring to the drawing, A A′ represent the main part of my improved device for attaching brass paper-fasteners to the sheets of paper to be connected. The main part A A′ is made of **V** shape, of suitable spring metal, so that the upper or top part, A, is readily raised from the lower or base part, A′, after being depressed. The base part, A′, is provided with a bed-plate, B′, and the top part with a hammer-plate, B, which fits upon the bed-plate.

Back of the bed-plate B′ is arranged a wire guard, D, against which the sheets to be fastened together are first placed and pushed until the edges of all the sheets rest against the guard. The top part of the wire guard is bent forward at right angles, as shown in Fig. 3, and bears on the top of the paper.

A fixed slitting or cutting knife or blade, C, of the top part A pierces, when the top part is brought down, a hole through the paper a convenient distance from the edge. The guard D serves both for regulating the distance of hole or slit from the edge, and for preventing the paper from sticking to and rising with the blade. The blade C enters a recess, C′, at the rear part of the bed-plate B′, after passing through the paper. An ordinary brass fastener, *f*, is then pushed through the hole of the paper, and its upper upright part placed directly below a **V**-shaped splitter or spreader, E, at the front end of the hammer-plate B, while the base or **T** of the fastener rests in a front groove or seat, F, of the bed-plate. By pressing the spreader E down its edge passes into the split end of the fastener *f*, and forces the same open by bending or spreading the fastener, as shown in Fig. 4.

The spreader E is provided with a front guard-plate, E′, which prevents the top or point of fastener from slipping forward when the spreader is pressed down upon it. The fastener is next placed on the bed-plate, and, by a short blow upon the knob G of the top part, is laid over the paper in a neat and firm manner.

The bed and hammer plate are made perfectly flat, so as to flatten the fastener in the same manner as by the hammer and bed plate at present in use.

The spring-part A A′ may be made of spring brass, iron, or steel, and the device finished in suitable manner, forming a convenient machine for applying these brass fasteners in quick and neat manner, without the troublesome opening of the fastener by hand, and without requiring separate tools for piercing of the paper and clinching of the fastener ends, which tools are thus combined in one simple, convenient, and time-saving implement.

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

1. A machine for attaching paper-fasteners, consisting of a spring-frame having a top part, with a hammer-plate, fixed slitting-blade, a spreader, and a base part, with a bed-plate, a wire gage-guard, and groove or seat for the fastener, all arranged substantially in the manner described, and for the purpose specified.

2. The combination of the bed-plate B′, having rear recess, C′, and of the wire safeguard D, with the slitting knife or blade C of spring-acted top part, A, substantially as specified.

3. The combination of the bed-plate B′, having groove or seat F for the fastener, with the hammer-plate B, spreader E, and front guard, E′, substantially as specified.

CHARLES WILLIAM BLAKE.

Witnesses:
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