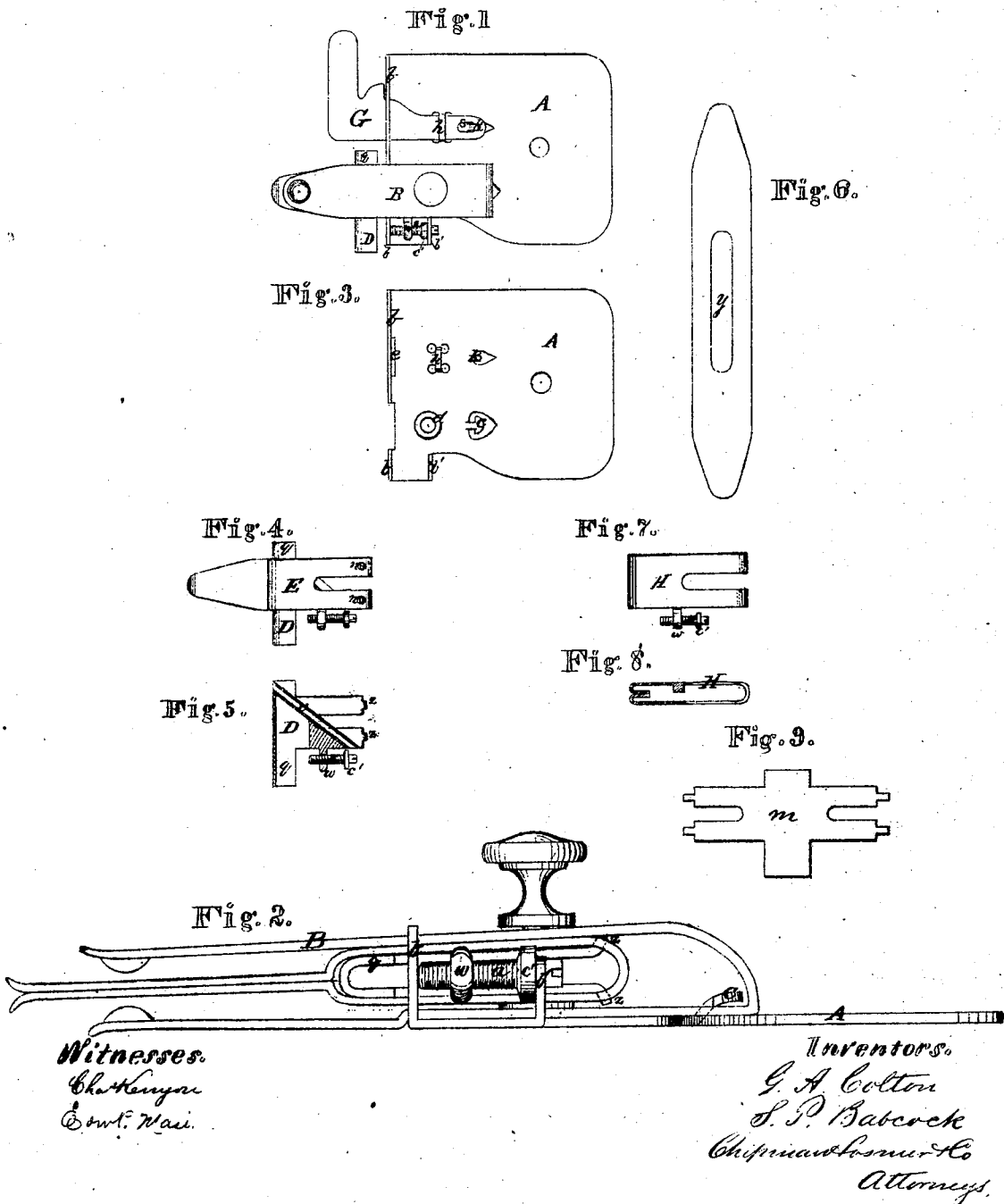


G.A. COLTON & S.P. BABCOCK
Improvement In
Attachments To
SEWING MACHINES.

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UNITED STATES PATENT OFFICE.

GEORGE A. COLTON AND SYLVESTER P. BABCOCK, OF ADRIAN, MICHIGAN.

IMPROVEMENT IN ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 118,109, dated August 15, 1871.

To all whom it may concern:

Be it known that we, GEORGE A. COLTON and SYLVESTER P. BABCOCK, of Adrian, in the county of Lenawee and State of Michigan, have invented certain new and valuable Improvements in Sewing-Machine Attachments; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a top view of our invention. Fig. 2 is a side view of the same. Figs. 3, 4, 5, 6, 7, 8, and 9 are details.

Our invention has relation to certain improvements in cord-welting devices and other attachments for sewing-machines; and consists in the method of connecting the bed-plate and the detachable presser-plate, whereby they are rendered more steady; in the construction of the corder and method of attaching it to the tongues; and in the construction of the adjusting set-screw and the method of operating the same between two bearings formed by the bed-plate.

A of the drawing designates the bed-plate, provided with the gauge *b*, button *c*, and nut *d*. A slot, *e*, is formed at the bend between the flanch and the horizontal part of the plate for the introduction of the presser-plate *G*, which is provided with a slot, *s*, in its end. A loop, *h*, serves to confine the presser-plate to the bed-plate, and a spring-catch, *k*, connects the two by rising into the slot *s* in the end of the presser-plate. *B* represents the detachable fingers, secured to the bed-plate by means of a set-screw and the button *c*. *D* represents the corder, which is attached to the tongues *E* by means of small lugs *z z*, which project upward and downward into small openings *n* formed in the upper and lower branches of the tongue near the bend. Prior to bending the tongues *E* a slot, *y*, is formed longitudinally, which, after it is bent, serves to divide the rear end vertically into two branches, which pass on either side of the set-screw. Each of these branches is furnished with two openings, *n*, one above and the other below, for the reception of the lugs *z z*. In the manufacture of the corder a plate, *m*, is first stamped or cut out of sheet metal of the form shown at Fig. 9. The center is expanded into a rectangular form, while

the ends are forked. The rectangular expansion serves, after the plate is bent, as a gauge for the welt-cloth, while the forked ends extend to the rear on each side of the set-screw, and are attached to the tongues by the lugs *z z*. The cord-way *v* consists of a tube of steel or other metal, rigidly attached by solder or otherwise to the plate *m*. It is secured between the upper and lower branches of the plate after it is bent, and extends from front to rear at an angle of about forty-five degrees. The delivering end of the tube, from which the cord passes into the cloth-welt, extends through the bend of the welt-cloth gauge *q* at the end thereof which lies next to the presser-plate. Attached to the side of the corder *D*, in rear of the welt-cloth gauge, is the lug *w*, whose perforation is provided with a female-screw thread to receive the adjusting-screw *a*. This screw is provided with a collar, *c'*, and works between the flanch *b* and the notched bearing or rest *b'*, both being formed by bending up the metal of the bed-plate.

By turning the screw *a* the corder is adjusted backward or forward as may be required, while the rounded edge or bend of the welt-cloth gauge is always kept parallel to itself, thereby preventing any turn or twist in the material, and enabling the operator to feed it forward in a right line to the needle. The object of the forked shape of the end of the corder is now apparent.

A similar adjusting-screw may be attached to a binder, *H*, Fig. 7, and, the forked shape being given to the rear end thereof, it may be placed between the fingers and adjusted back and forth according to requirement in a similar manner to the corder above described. By means of the little lug *w*, with its female screw, the adjusting-screw *a* may be attached to a hemmer also, and to any sewing-machine attachment which operates in an analogous manner.

All of the above-described devices, with the exception of the cord-tube *v*, nut *d*, set-screw *a*, and lug *w*, can conveniently be made of sheet metal.

We do not claim, broadly, a removable presser-plate attached to a bed-plate, as we are aware that such a plate is an old device; but

What we claim as our invention, and desire to secure by Letters Patent, is—

1. In combination with the plate *A*, having loop *h* and catch *k*, the removable presser-plate

G provided with a slot or catch, *s*, for the purpose specified.

2. The corder, constructed substantially as described, and provided with a set-screw having a collar, *c'*, in combination with the bed-plate having the flanch *b* and notched bearing *b'*.

3. In combination with the bed-plate A having the bearings *b b'*, the combined tongues and corder herein described, provided with the adjust-

ing-screw *a* with its collar *c'*, substantially as and for the purpose specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

GEO. A. COLTON.

Witnesses: SYLVESTER P. BABCOCK.

C. B. JOHNSON,

S. E. GRAVES.