

(No Model.)

3 Sheets—Sheet 1.

C. A. BONNEY.
SEAM MARKER.

No. 537,002.

Patented Apr. 9, 1895.

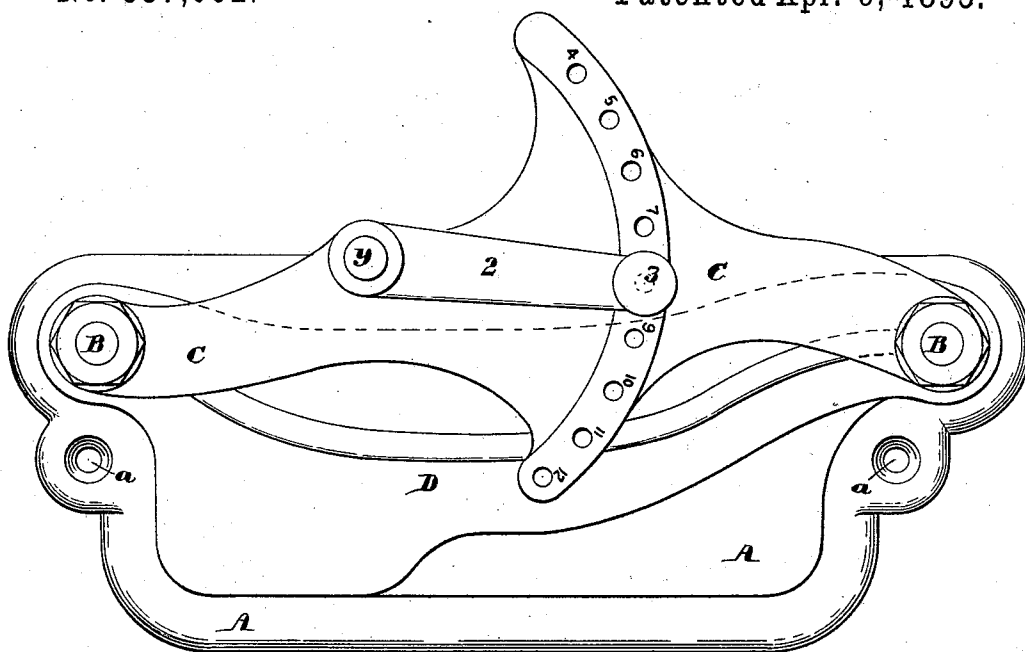


Fig. 1.

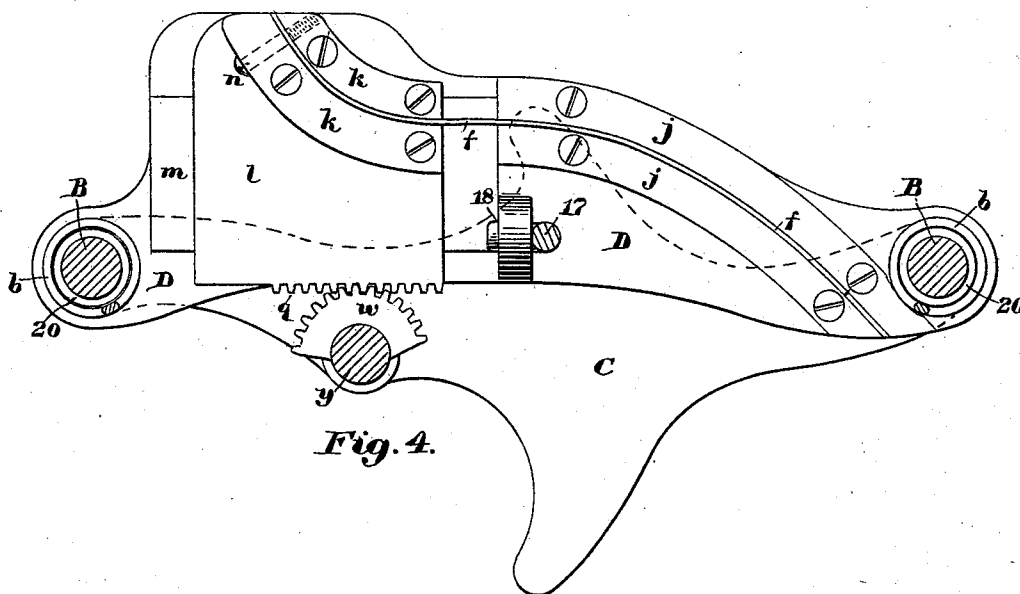


Fig. 4.

Witnesses:

Walter E. Lyndon
Moses S. Hall

Inventor:

Charles A. Bonney
per J. W. Porter Atty

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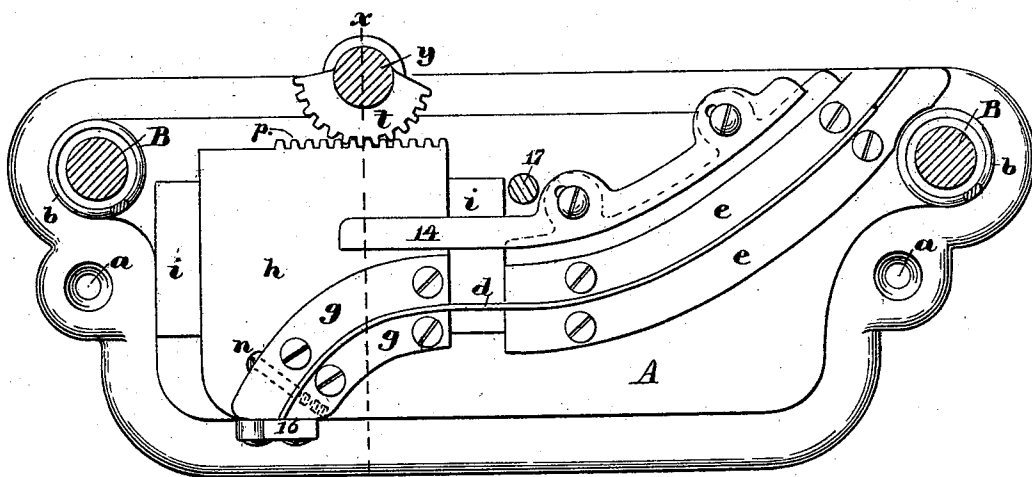


Fig. 3.

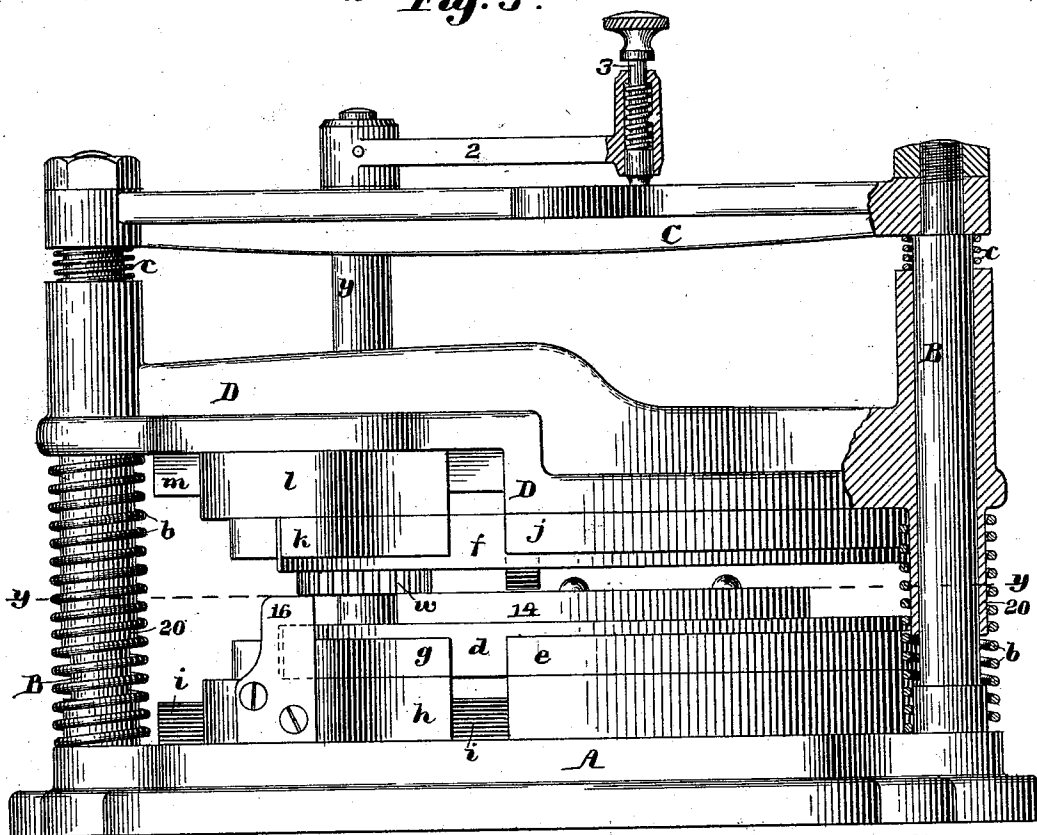


Fig. 2.

Witnesses:

Walter E. Loggins.
Moses Case

Inventor:

Charles A. Bonney
per J. M. Porter Atty

(No Model.)

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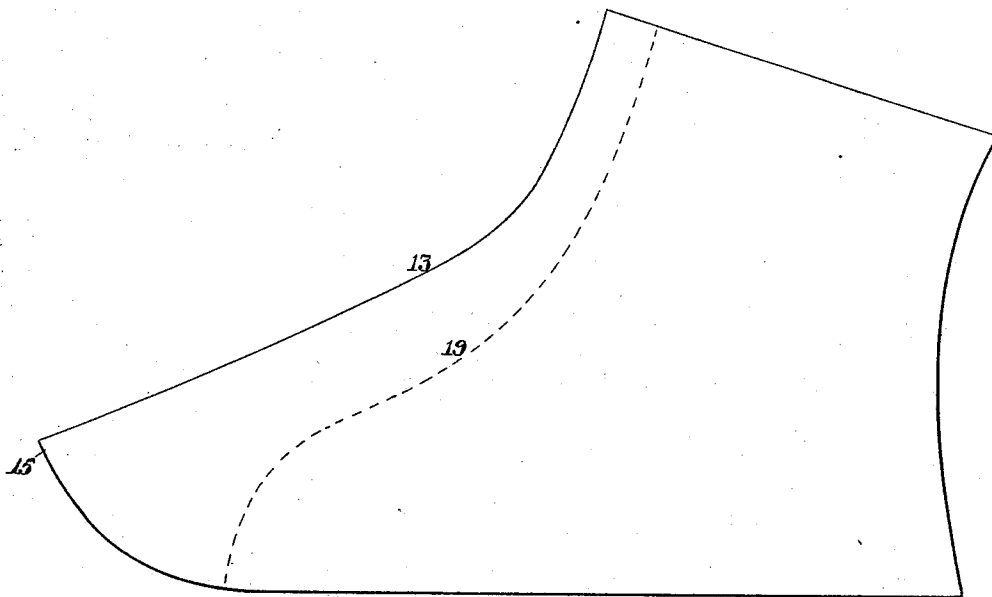


Fig. 6.

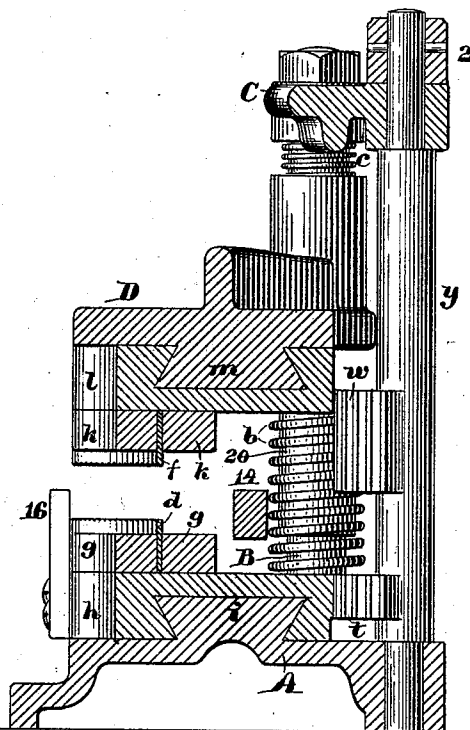


Fig. 5.

Witnesses:

Walter E. Fagnard
Moses S. Hall

Inventor:

Charles A. Bonney
per J. W. Porter Atty

UNITED STATES PATENT OFFICE.

CHARLES A. BONNEY, OF BROCKTON, MASSACHUSETTS.

SEAM-MARKER.

SPECIFICATION forming part of Letters Patent No. 537,002, dated April 9, 1895.

Application filed October 15, 1894. Serial No. 525,907. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BONNEY, of Brockton, in the county of Plymouth and State of Massachusetts, have invented a new and useful Improvement in Seam-Markers, which will, in connection with the accompanying drawings, be hereinafter fully described, and specifically defined in the appended claims.

10 The object of this invention is to produce a machine that can be quickly changed as desired, so as to be in condition to seam mark any size of shoe that may be presented for such purpose; and the invention consists in
15 a machine provided with a base, to be secured to the bench, having two standards rising therefrom and supporting a girt secured at the top of said standards; with a spring supported vertically movable part arranged to be depressed by means of a treadle, on which
20 as also on said bed are arranged curved guide-ways in which are arranged bent strips of thin elastic metal which when brought together impart to the leather placed between them the mark shown in Fig. 6, as will be again referred to; stop gages being provided against
25 which the shoe upper is placed when being marked; and one end of said strips of bent elastic metal being secured to a slide arranged to be moved on a dovetail so as to adapt said
30 strips of metal to mark shoes of any desired size; mechanism to be described, providing for sliding and locking said slides and strips at any desired point, according to the size of
35 shoes to be marked, all as will be next herein explained and then specified in the claims.

In the drawings, Figure 1 is a top plan view of a machine embodying my invention. Fig. 2 is a front elevation of the machine shown
40 in Fig. 1, the top girt and the movable section being broken away at one end to show the construction. Fig. 3 is a sectional plan view, the section being horizontal and taken on line *y*, Fig. 2, and the view being from
45 above that line. Fig. 4 is an inverted or under-side plan view, from line *y*, Fig. 2, upward. Fig. 5 is a vertical section taken as on line *z*, Fig. 3, and viewed as from the right in that figure. Fig. 6 is a side elevation of a
50 shoe upper as marked by my machine.

Referring again to said drawings, A represents the base of the machine, provided with

screw holes *a*, *a* by which to secure it in place when in use. At the respective ends of said base are secured the standards B, B, on which, at the top, is secured the girt C. Between said base A and said girt C is arranged the intermediate piece D mounted on said standards B and cushioned by the helical springs *b*, while the lighter springs *c* arranged between D and girt C relieve D from shock when it is released and rises by force of springs *b*.

Arranged above bed A is the elastic curved strip of metal *d*, which at its rearward curve is arranged between the curved bars *e*, *e*, secured on said bed, while the part that curves to the front is secured between the curved bars *g*, *g*, secured to slide *h* arranged upon dovetail *i* of bed A.

A curved elastic strip *f* is arranged beneath part D, it being arranged in position at the part curving to the rear between guides *j*, *j* that are secured to D, while the part that curves to the front is secured between parts *k*, *k*, that are secured to slide *l* that is mounted upon dovetail *m* formed upon D. Said curved strips *d*, *f*, are arranged to slide as required between *e*, *e*, and *j*, *j*, but are locked rigidly between their respective blocks *g*, *g*, and *k*, *k*, they being held by a screw *n* that passes through them and the bars between which they are secured. Upon the rear side of slide *h* is a rack *p* and a like rack *q* is formed upon slide *l* and a vertical shaft *y* carries a lower gear *t* that meshes in rack *p* and an upper gear *w* that meshes in rack *q* so that as said shaft is slightly rotated in one direction it will move slides *h* and *l* toward guides *e* and *j*, thus arranging the machine for smaller shoes; while if moved in the opposite direction said slides are moved farther from said guides, thus arranging the machine for larger shoes. For the purpose of actuating said shaft *y* and the slides *h*, *l*, and strips *d*, *f*, an arm 2 is secured to the top of the shaft which at its outer end carries a spring pin 3 that engages in the seats marked from 4 to 12 in the arc formed at the top of girt C; which seats respectively represent the numbers corresponding to sizes of shoes that are to be marked in the machine.

In use, lever 2 is so placed that pin 3 will rest in the seat whose number corresponds to the size of upper to be marked. Then the

upper shown in Fig. 6 is placed with its line 13 against gage 14 while toe part 15 bears against gage 16 secured to slide *h*, which gages determine the exact position the upper should occupy. Then part D is depressed by a treadle (not shown) attached to rod 17, secured to boss 18, formed on D, by which means the two sides of the upper receive from strips *d, f*, the mark 19 on which the stitching is done. In practice the two halves of the upper will be marked in this machine before being stitched together, and both out-sides of the upper will be marked at the same time by the two strips *d, f*.

It will be obvious that by means of the ready adjustment of my machine all sizes of shoes can be marked thereon, and this with but a moment spent in its adjustment to the proper size, as the mere moving of slides *h, i*, by the means specified, or any equivalent means, is all that is required to adjust the machine for any size of shoe. To prevent the bringing together of strips *d, f*, to their injury at any time, or to prevent marking the leather too deeply, the thin tubes 20 are arranged on standards B inside springs *b* to stop the approach of part D at the proper point.

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

1. In a seam marking machine of the class specified, the thin elastic curved strips secured to a slide at one end and arranged to move between guides at the opposite end, with means for moving said strips to adjust

them to the size of shoe to be marked, substantially as specified.

2. In a seam marking machine the combination of flexible strips *d, f*, arranged in guides as shown and actuated by slides *h* and *d*, mounted on guides, substantially as shown, the racks *p, q*, shaft *y* with gears *t, w*, and means to actuate and adjust shaft *y*, substantially as specified.

3. In a seam marking machine and in combination with adjustable marking strips *d, f*, the curved gage 14 and the gage 16, arranged upon slide *h*, substantially as specified.

4. In a seam marking machine the adjustable elastic strips *d, f*, secured at one end to slides, mechanism connecting said slides with shaft *y*, an arm secured to said shaft, an arc carried by girt C and a series of graduations thereon with which said arm can connect as the machine is adjusted to sizes of shoes to be marked, substantially as specified.

5. In a seam marking machine, the base A, standards B, girt C, intermediate section D, mounted on standards B and arranged to be actuated up and down, the flexible strips secured at one end to a slide and arranged in guides, gears by which said slides are connected with shaft *y*, the arm 2 connected with said shaft and a point 3, connecting with spaced points on the arc of said girt, all substantially as specified.

CHARLES A. BONNEY.

Witnesses:

T. W. PORTER,
N. W. GREEN,