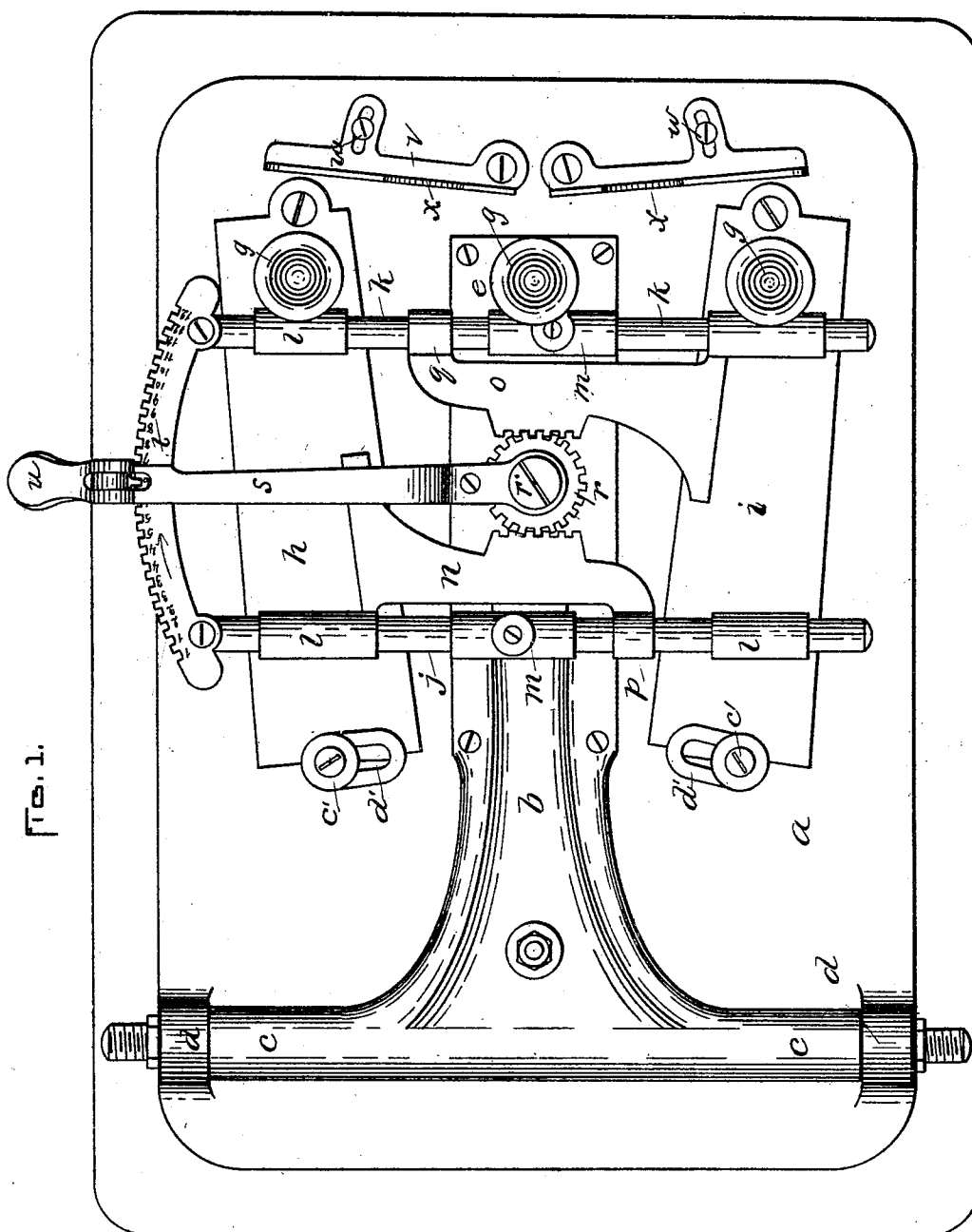


2 Sheets—Sheet 1.

No. 500,007.

Patented June 20, 1893.



**Tab. 1.**

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Katharine E. Gunn.  
A. D. Harrison.

INVENTOR:

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John Kent,  
by  
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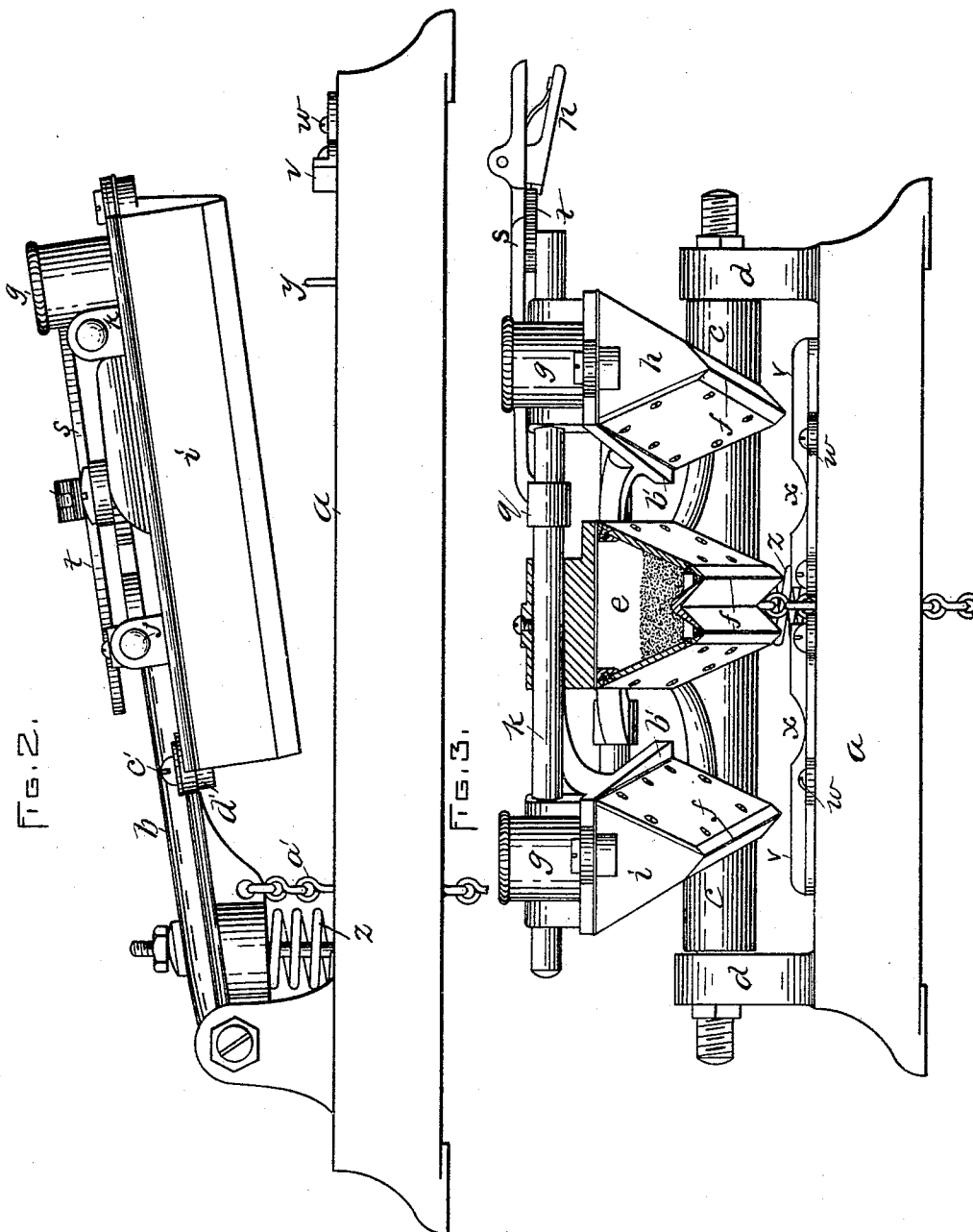
(No Model.)

2 Sheets—Sheet 2.

J. KENT.  
ELASTIC GORE MARKER.

No. 500,007.

Patented June 20, 1893.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

JOHN KENT, OF BROCKTON, MASSACHUSETTS.

## ELASTIC-GORE MARKER.

SPECIFICATION forming part of Letters Patent No. 500,007, dated June 20, 1893.

Application filed March 18, 1893. Serial No. 466,579. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN KENT, of Brockton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Elastic-Gore Markers, of which the following is a specification.

This invention has relation to devices for marking elastic gorings for Congress and other boots and shoes.

It is the object of the invention to provide a machine whereby a pair of gores, suitable for a single Congress shoe, may be marked at a single operation, which work may be done speedily, accurately, and with entire safety from accident to the operator.

It is also the object of the invention to provide a machine of the character before mentioned which can be readily adjusted with exactness to mark gores suited to boots and shoes of varying size.

It is also the object of the invention to provide other improvements, incidental to the foregoing, all as I will now proceed to describe and claim.

Reference is to be had to the annexed drawings and to the letters marked thereon forming a part of this specification, the same letters designating the same parts or features as the case may be, wherever they occur.

Of the drawings—Figure 1 is a top plan view of the invention, complete. Fig. 2 is a side elevation of the same. Fig. 3 is a front view, part being shown as in section.

In the drawings *a* designates the bed of the machine which may be a flat smooth plate of suitable dimensions and strength.

*b* is a bar provided at its rear end with laterally extended arms *c* which are journaled in suitable bearings *d* connected with the bed.

*e* is the central marking device, having the character of a double trough and of the form of a **W** in cross section, which marking device is secured beneath the forward part of the bar *b* and extending parallel therewith. In the angles forming the bottoms of the double troughs of the said central marking device there are made narrow slits *f* which communicate between the interior and exterior of the said troughs, which are constructed so as to hold powdered chalk or other marking material which may be supplied through the screw-capped opening *g*. The lines upon

which the two slits *f* extend may be parallel, or they may extend at an angle the one to the other, as may be desired.

*h i* designate the side-markers, each of which is trough-like in character, and has a slit *f* formed along the line of its angular bottom similar to the slits *f* in the bottom of the central marker *e*. The said markers *h i* are supported upon rods *j k* by bearings *l* integrally connected with the tops of the markers *h i* which bearings are adapted to slide on the said rods, the latter being, in turn, secured in bearings *m* connected with the top of the bar *b*.

*n o* are shifting bars, the former being rigidly connected at one end with the marker *h*, and provided with a sleeve *p* at the other end adapted to slide on the rod *j*, and the latter being connected at one end with the marker *i* and provided at the other end with a sleeve *q* adapted to slide on the rod *k*.

At their inner edges, over the bar *b* the shifter bars *n o* are constructed as rack-bars, the teeth of which mesh with a pinion *r* secured to a stud *r'* which turns in a bearing at the bar *b* and connected with which stud or pinion, at its inner end, is the lever *s*, the outer end of which extends over the sector *t*. A dog formed on the inner end of the spring-pressed finger piece *u* is adapted to be engaged with and disengaged from the teeth formed in the outer edge of the sector.

*v* designates top-gages pivoted at their inner ends upon the bed *a*, and adapted at their outer ends by means of a bolt *w* passing through a slot in the gages, to be adjusted so that the said gages may extend at a greater or less angle to the slitted marking lines in the bottoms of the markers.

The gages *v* are provided with rounded notches *x* in their upper edges at points opposite the spaces between the central and side markers.

*y* is a gage pin, projecting up from the bed centrally between the double central markers.

*z* is a spring interposed between the bed and the lower face of the bar *b* and operating with a tendency to keep the said bar normally raised.

*a'* is a chain connected at its upper end with the bar *b* and extending through a hole (not

shown) in the bed, and supposed to be connected at its lower end with a treadle, by which the bar and the markers connected therewith may be depressed so that the bar *b* may be depressed to a degree that will bring the slitted bottoms or lower angular faces down upon the bed *a* or upon material placed thereon.

The operation of the invention is as follows: Supposing the marking devices to be supplied with a sufficient quantity of powdered French chalk or other suitable marking powder and blanks for gores to be at hand on both sides of the machine, and the several parts of the latter properly adjusted, the operator with each hand may take a blank, and bring each at its inner edge against the gage-pin *y*, with the top of each against its respective top-guide *z*. Then, with his or her foot the operator may by depressing the treadle (not shown) or by any other suitable means bring the markers down upon the blanks with a blow which will cause the powdered material in the markers to sift through their slitted angular bottoms and mark said blanks—a pair at a time—with the utmost exactness along the desired lines. The notches *x* in the upper edges of the top gages enable the operator with a finger of the hand to hold on to the blanks and maintain them in place, and said notches being on a line falling between the central and side markers insures the finger being in position where the markers in their descent, will not strike them. The spring *z* it will be understood, will raise the markers off the material on the bed. By taking hold of the lever *s* and pressing upward the outer end of the finger piece *u* so as to disengage the dog on the inner end of the said finger piece from the notches formed in the outer edge of the sector *t* said lever may be swung forward or backward moving the outer markers *h* *i*, through the medium of the pinion *r* and shifting slides *n* *o* away from or toward the central marking device, and so adjusting the device for marking gorings in different widths, suited to different-sized boots or shoes. By moving the lever *s* in the direction of the arrow marked on the sector *t* the markers *h* *i* will be moved outward, and by moving said lever in the opposite direction, the said markers will be moved inward.

The face of the sector is scale-marked as shown, to enable the operator at a glance at the scale to adjust the markers by a simple movement of the lever *t* so as to suit the device for marking gorings of any particular size.

By adjusting the gages *v* the stitching marks on the gorings may be made to extend at any desired angle with reference to the line of the upper edge.

It will be seen that the covers to the side markers are wider at their rear ends as indicated at *b'* (Fig. 3) than at their front ends

so that by shifting the trough part of the side markers on the cover, the said markers may be varied in position with respect to the central markers, and so vary the angularity of the marks made by the side markers with respect to the lines made by the central marker. This adjustment may be obtained by screws *c'* passing through slotted projections *d'* on the said covers, which screws are tapped into projections on the trough proper.

Having thus explained the nature of the invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, it is declared that what is claimed is—

1. A gore marker comprising in its construction a bed to support the gores, a plurality of depressible markers of trough-like character having slitted openings formed in their bottoms longitudinally thereof, as set forth.

2. A gore marker comprising in its construction a bed to support the gores, a marker of trough-like character, V-form in cross section, having a slitted opening formed in its angular bottom extending longitudinally thereof, as set forth.

3. A gore marker comprising in its construction a bed to support the gores, fixed central markers, adjustable side markers, each of said markers being of trough-like form having slitted openings in their bottoms extending longitudinally thereof, and adjustable top-gages, as set forth.

4. A gore marker comprising in its construction a bed to support the gores, fixed central and adjustable side markers, a lever for adjusting the latter, and an indicator or scale in proximity to the lever to indicate the extent of the adjustment, as set forth.

4. A gore marker comprising in its construction a bed to support the gores, a fixed central marker constructed to make a double mark, and two single side markers, adjustable with respect to the central marker, as set forth.

6. A gore marker comprising in its construction a bed to support the gores, depressible central and side markers, and adjustable top-gages provided with notches or depressions in their upper edges at points falling on a line coincident with the spaces between the central and side markers, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 10th day of March, A. D. 1893.

JOHN KENT.

Witnesses:

ARTHUR W. CROSSLEY,  
A. D. HARRISON.