No. 794,170. PATENTED JULY 11, 1905.

J. W. FESSLER.

CENTER GAGE.

APPLICATION FILED OCT. 6, 1904.

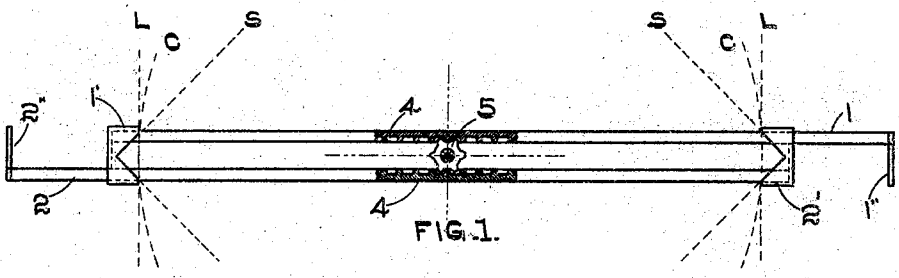


FIG. 1.

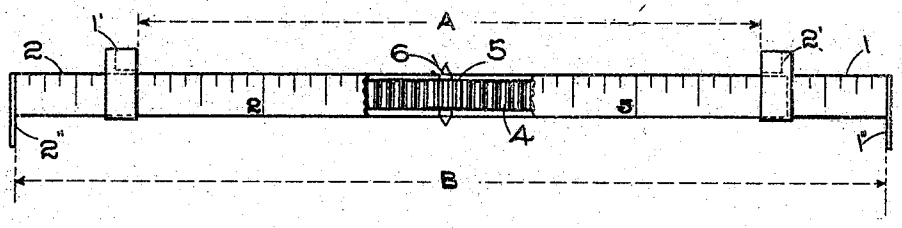


FIG. 2.

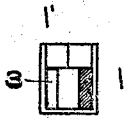


FIG. 3.

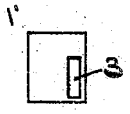


FIG. 4.

Witnesses

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No. 794,170. Patented July 11, 1905.

UNITED STATES PATENT OFFICE.

JOHN W. FESSLER, OF NEWCASTLE, PENNSYLVANIA.

CENTER-GAGE.

SPECIFICATION forming part of Letters Patent No. 794,170, dated July 11, 1905.

Application filed October 6, 1904. Serial No. 227,369.

To all whom it may concern:

Be it known that I, JOHN W. FESSLER, a citizen of the United States, residing at Newcastle, in the county of Lawrence and State of Pennsylvania, have invented certain new and useful Improvements in Center-Gages, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improved center-gage, the object, construction, and operation of which is fully set forth in the following specification, reference being had to the accompanying drawings, which form a part hereof, and in which—

Figure 1 is a view of one edge of my gage partially extended, a portion being in section. Fig. 2 is a side view of my gage partially extended, one side being broken away to expose other portions to view. Figs. 3 and 4 are details.

The object of my device is to provide a gage for locating and scribing the center line of longitudinal objects, whose sides are indicated by the lines L L, or the center-point of square objects, boundary-lines of which are indicated by the lines *s s*, also any circular object, whose periphery is indicated by the lines *c c*. My gage may be used to locate the center of an object of any other form or to scribe the center line of an object of almost any shape.

The construction of my device is substantially as follows: Two rectangular parallel strips 1 2 each have secured to one end thereof a jaw or limit-piece 1′ 2′, (shown also in Figs. 3 and 4,) each of said jaws having a hole 3 therein through which the strip, which is movable relative to said jaw, slides. Upon the inside opposed faces of each of said strips 1 and 2 is formed a rack 4, in mesh with which is placed a pinion 5, midway between jaws 1′ 2′ and in such a manner that when said strips are moved longitudinally pinion 5 revolves and maintains its equidistant position relative to said jaws. At the axis of said pinion is placed a pin 6, centrally pointed at the ends, which is used to scribe a center line or locate or prick a center, as the case may be. As the strips 1 and 2 are moved longitudinally in opposite directions the jaws 1′ and 2′ move nearer together, so that the distance A becomes less than the length of one of the respective strips. Additional jaws or limit-clips 1″ 2″ are also affixed upon strips 1 and 2, respectively, at the opposite ends from which jaws 1′ and 2′ are affixed, and as said strips are moved longitudinally in opposite directions the distance B becomes greater than the length of one of said strips. Thus if the length of a strip 1 or 2 is six inches and the length of the gage this dimension when closed the jaws 1′ 2′ will then be six inches apart, and as the strips are moved relative to each other in opposite directions the distance A will diminish, but the distance B will become greater. Hence both edges of my gage are available for use, one side for objects greater in width than the length of the gage when closed and the other side for objects of the same or less width than the length of the gage when closed.

For the sake of convenience the strips 1 and 2 may be graduated, as shown, though I do not wish to limit myself to this feature.

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

In a center-gage, two racks, slidingly mounted, each upon the other, with their teeth in juxtaposition, jaws or limit-points upon each end of said racks, a pinion mounted between said racks and meshing therewith a scribing-point at the axis of said pinion, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN W. FESSLER.

Witnesses:
F. W. PARKER,
A. M. BOYD.