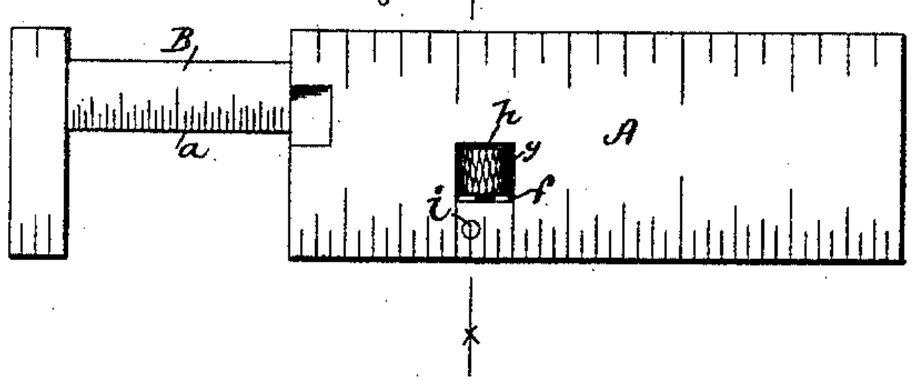
(No Model.)

G. D. McLANE.

CALIPER RULE.

No. 477,183. Patented June 14, 1892.

Fig. 1.



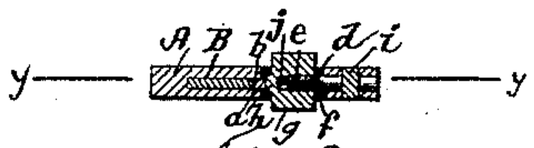


Fig. 2.

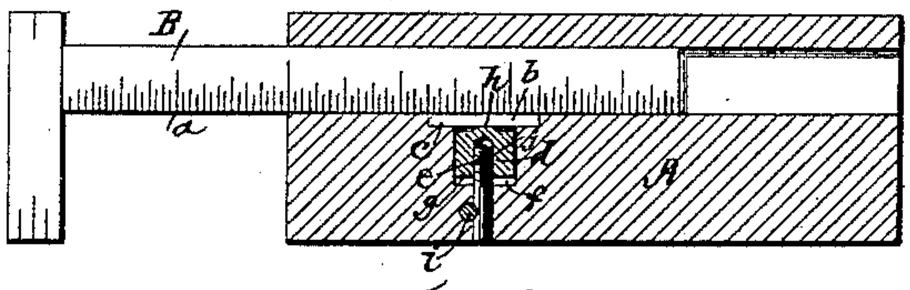


Fig. 3.

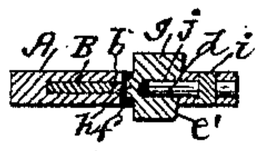


Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

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CALIPER-RULE.

SPECIFICATION forming part of Letters Patent No. 477,183, dated June 14, 1892.

Application filed October 6, 1891. Serial No. 407,936. (No model.)

To all whom it may concern:

Be it known that I, GEORGE D. McLANE, a citizen of the United States, residing at Providence, in the State of Rhode Island, have invented a new and useful Improvement in Caliper-Rules, of which the following is a specification.

My invention consists in an improved device for fastening the caliper-slide in any desired position, as hereinafter fully set forth.

Figure 1 represents a side view of a caliper-rule provided with my improvement. Fig. 2 represents a transverse section taken in the line $x\,x$ of Fig. 1. Fig. 3 represents a longitudinal section taken in the line $y\,y$ of Fig. 2. Fig. 4 represents a transverse section as in Fig. 2, showing a modification.

In the accompanying drawings, A represents the body of the rule, and B the caliper-slide, which is provided with the ordinary graduations, and within a recess c, made in the body A, is placed the gib b, which is adapted to bear against the edge a of the slide B, and upon the stud d, which may be either provided with a screw-thread e or be made smooth, as shown in Fig. 4, and within the slot-opening f made in the body A is placed the tightening-wheel g, which is provided at its forward end with the central projection h and a central opening j, adapted to receive the stud d, the said opening either being, as shown in Fig. 2, provided with a screw-thread adapted to fit the screw-thread e of the stud or smooth and loosely fitting the stud, as shown in Fig. 4, and in the latter case provided with an inclined rear surface e', by means of which a forward movement will be imparted to the wheel g upon turning the same in the proper direction, as would be the case of the screw-threaded wheel shown in Fig. 2, the said inclined surface being caused to bear against the side of the slot-opening in which the wheel is placed. When the wheel g is turned upon the stud d to produce a forward movement, the gib b will be pressed against the edge a of the slide B to hold the same securely in position, and when the wheel g is turned in the opposite direction upon the stud d the slide will be released from pressure, so that the said slide may be moved to any desired position, and the stud d may be held from turning with the wheel g by means of the transverse pin i or otherwise.

I claim as my invention—

1. The combination, with the body of the rule, provided with a transverse opening, the caliper-slide, and the fixed stud arranged within the transverse opening, of the tightening-wheel arranged upon the stud, substantially as described.

2. The combination, with the body of the rule, provided with a transverse opening, the caliper-slide, and the fixed screw-threaded stud arranged within the transverse opening, of the tightening-wheel provided with a screw-thread which fits the screw-threaded stud, substantially as described.

GEORGE D. McLANE.

Witnesses:
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