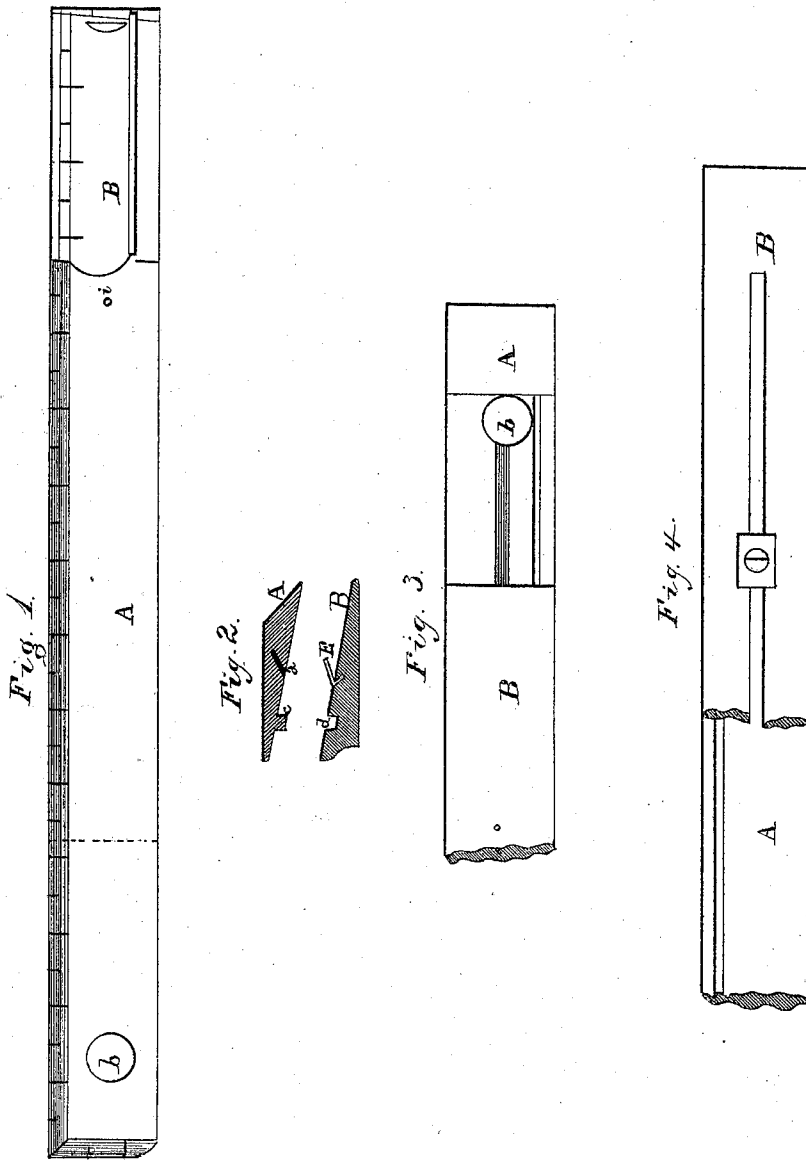


J. S. RUE.

Improvement in Extension-Rulers.

No. 131,973.

Patented Oct. 8, 1872.



Witnesses.

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JOHN S. RUE, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN EXTENSION RULERS.

Specification forming part of Letters Patent No. 131,973, dated October 8, 1872.

To all whom it may concern:

Be it known that I, JOHN S. RUE, of Newark, New Jersey, have invented a new and Improved Combination Extension Rule, Paper-Cutter and Caliper; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, and forming part of this specification, in which—

Figure 1 is a plan view of a ruler partly extended; Fig. 2 is a section view of the same; Fig. 3 is an inverted view; and Fig. 4 is a similar view, showing a modification of the fastening device.

This invention consists in having two strips, A and B, of wood or other suitable material, so fitted together as that a straight and true line may be drawn either in pencil or ink, one edge being used with pencil, and the other with pen, equally as well when extended as when closed; and also to form a caliper. The first object is accomplished by having the edges beveled and adjusted, substantially as hereinafter described and shown; the second object is accomplished by having a hole bored through the part A at *b*, so that the diameter of any round article not larger than said hole may be obtained by inserting it in the hole and sliding the part B up against it, a scale being marked on the part B for the purpose, as well also for the purpose of continuing the scale marked on the part A when the rule is extended.

The part A, on the inner or joint surface, has an oblique groove, *a*, and tongue, *c*, running parallel with the edges. On the inner or joint surface of the part B is a corresponding groove,

d, and an oblique tongue, E, said tongue E being made of spring metal and about a half inch long, said tongues and grooves being so arranged in relation to each other as that, when adjusted, the parts A and B are nicely held together, so as to slide freely and smoothly. A pin or stud, *i*, is inserted into the part A, which, coming in contact with the oblique tongue E when the rule is extended, acts as a stop and prevents the parts A and B from becoming accidentally disconnected, which latter object, however, may be easily and speedily accomplished by simply twisting the parts very slightly in opposite directions, either part being used as a paper-cutter when so disconnected. The parts A and B may also be held together by the use of a thumb-screw or nut, or by an ordinary wood screw, there being in such case a slot in the part B through which the screw slides; when adjusted in this way the oblique tongue and groove may be dispensed with.

It will be observed that a scale is marked on the ends of the rule, which will be found convenient for marking parallel lines.

What I claim, and desire to secure by Letters Patent, is—

The compound extension rule, consisting of two segments separated by a diagonal tongued-and-grooved section, constituting a rule, paper-cutter and calipers, the whole being constructed, arranged, and operating substantially as set forth and described.

JOHN S. RUE.

Witnesses:

OLIVER DRAKE,
THOMAS PAULIN.