No. 818,051. PATENTED APR. 17, 1906.

T. S. ROSS.

BEVEL SQUARE RULE.

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Fig. 1.

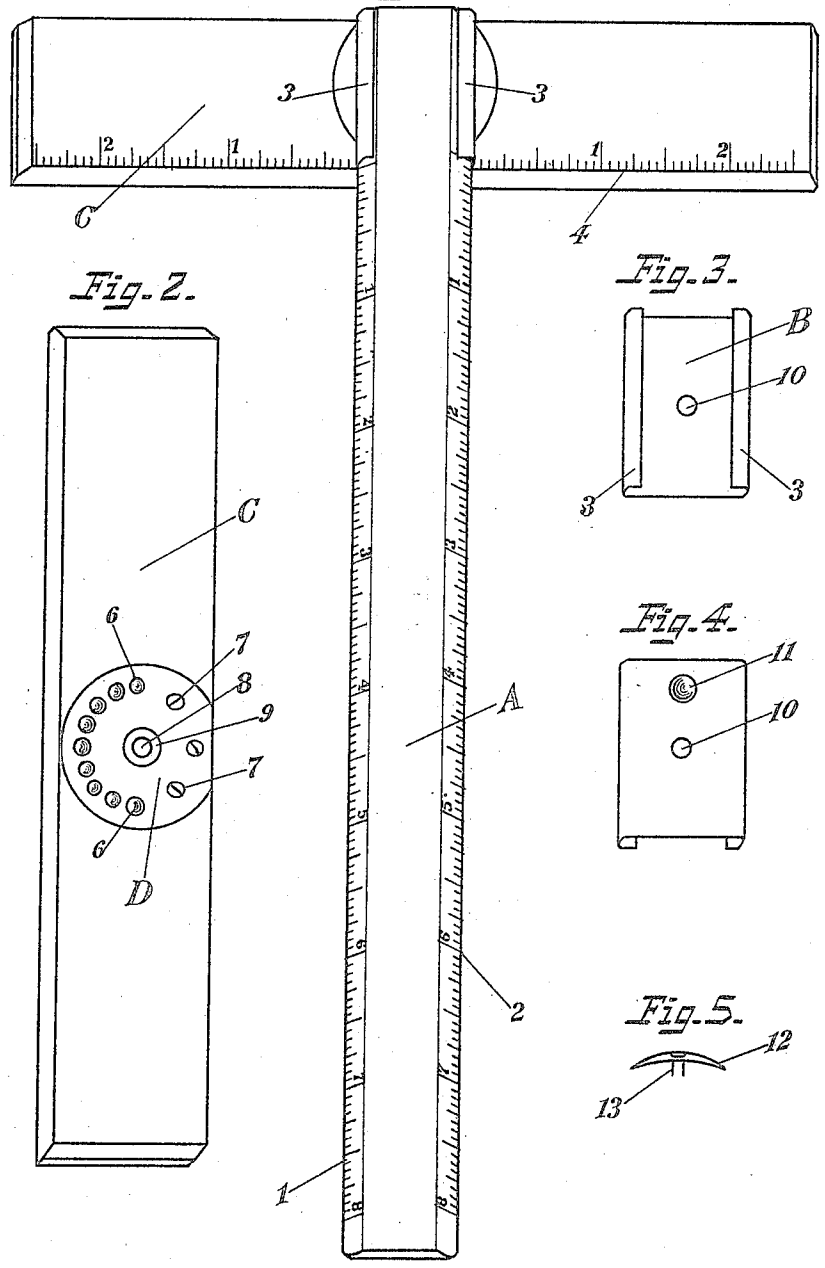


Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

WITNESSES:

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BEVEL-SQUARE RULE.

No. 818,051. Specification of Letters Patent. Patented April 17, 1906.

Application filed November 14, 1905. Serial No. 287,213.

To all whom it may concern:

Be it known that I, THOMAS S. ROSS, a citizen of the United States, residing in Baltimore city and State of Maryland, have invented certain new and useful Improvements in Bevel-Squares, of which the following is a specification.

My invention relates to an improvement in bevel-square rules, the object of which is to supply a rule which is accurate and which can be adjusted quickly, and when once adjusted can be permanently held without danger of slipping while being used in the execution of similar purposes for which it was originally adjusted. At the same time by the use of my invention the same results can be obtained without the use of several separate and distinct drafting instruments which would otherwise be required.

With the foregoing object in view my invention consists in certain novel features of construction and combinations of parts which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of my invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a view of the slide. Fig. 4 is the reversed view of the slide, showing the depression thereon. Fig. 5 is a view of a concave washer.

In Fig. 1, A is a rule-blade provided with a scale 1 and 2, on each beveled edge. B is a slide, the edges of which are rolled over so as to form the grooves 3 3, adapted to allow the rule-blade A to slide and snugly fit therein. C is the stock, provided with a scale 4.

In Fig. 2, C is the stock, (without the scale therein being shown, as in Fig. 1,) in the center of which is fitted the metal disk D, which is provided with the recesses 6 6, held securely in position by the screws 7 7 and countersunk so as to be flush with the surface of the stock C. 8 is a circular hole extending through the disk D and through the stock C. 9 is a washer.

Fig. 4 is the reverse view of Fig. 3, showing the circular hole 10 and the extension 11, which can be made by a depression in the reverse side. Fig. 5 shows the rivet concave head 12 with the stem 13.

In assembling the several parts to form my invention the stock C is provided and fitted with the disk D. As heretofore explained, the slide, as shown in Figs. 3 and 4, is then placed thereon with the extension 11, as shown in Fig. 4, placed downward, so as to engage one of the recesses 6 6 of the disk D. The rivet, as shown in Fig. 5, is then inserted through the hole in the stock and 8 of the disk D with the concave head thereof (which is made of thin sheet metal) on the under side of the stock D, the stock being countersunk sufficiently to receive it, so as to be flush with the under surface. The washer 9 is then placed on the stem of the rivet so inserted and the slide B placed thereon by allowing the stem of the rivet to pass through the hole 10. The stem of the washer is then headed, and the parts named are then securely held together. The blade A is then inserted into the slide and held by means of the grooves 3 3, as shown in Fig. 1. By reason of the construction of the concave head of the rivet, as shown in Fig. 5, it being made of thin springy material, there is sufficient resiliency to allow the extension 11 of Fig. 4 to lift out of the recesses 6 6 and pass from one recess to another; also there is sufficient spring in the head of the rivet to hold the extension 11 into any of the desired recesses 6 6 sufficiently strong to guard against accidental displacement.

From the foregoing it will be seen that I have provided a simple device for purposes usually requiring more or less additional instruments, thereby reducing the cost and the saving of time in the use thereof, insuring its adoption.

Slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not desire to limit myself to the exact construction as herein set forth; but,

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

1. In a bevel-square rule comprising a stock having a scale thereon in combination with a blade provided with beveled edges and scale, the blade being fitted in a guide, the guide being attached to the stock by means of a rivet and a concave washer substantially as described.

2. In a bevel-square rule comprising a stock having a scale thereon, a disk with recesses secured to the top part of the stock, a guide with a projection on the under side thereof to

engage in the recesses of the disk, the lateral edges being bent upwardly and inwardly to form grooves wherein the blade is fitted to the guide which is attached to the stock by means of a rivet and concave washer, substantially as described.

3. In a bevel-square rule comprising a stock with scale thereon, a flat disk attached in the top part thereof and having recesses formed near its outer edges, in combination with a guide having a projection formed on the under side thereof to engage the recesses in the disk, its lateral edges being bent upwardly and inwardly to form grooves wherein a blade with beveled edges and scale thereon is fitted, the guide being attached to the stock by means of a rivet and concave washer substantially as described.

4. A bevel-square rule comprising a stock, a circular disk attached to the upper part thereof by suitable means, and provided with recesses near its outer edges, a guide having a projection on the under side thereof for the purpose of engaging in the recesses of the disk, the lateral edges of the sides being bent upwardly and inwardly to form grooves in which a rule-blade is fitted, said slide being attached to the stock by means of a rivet and concave washer substantially as described.

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

THOMAS S. ROSS.

Witnesses:
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