

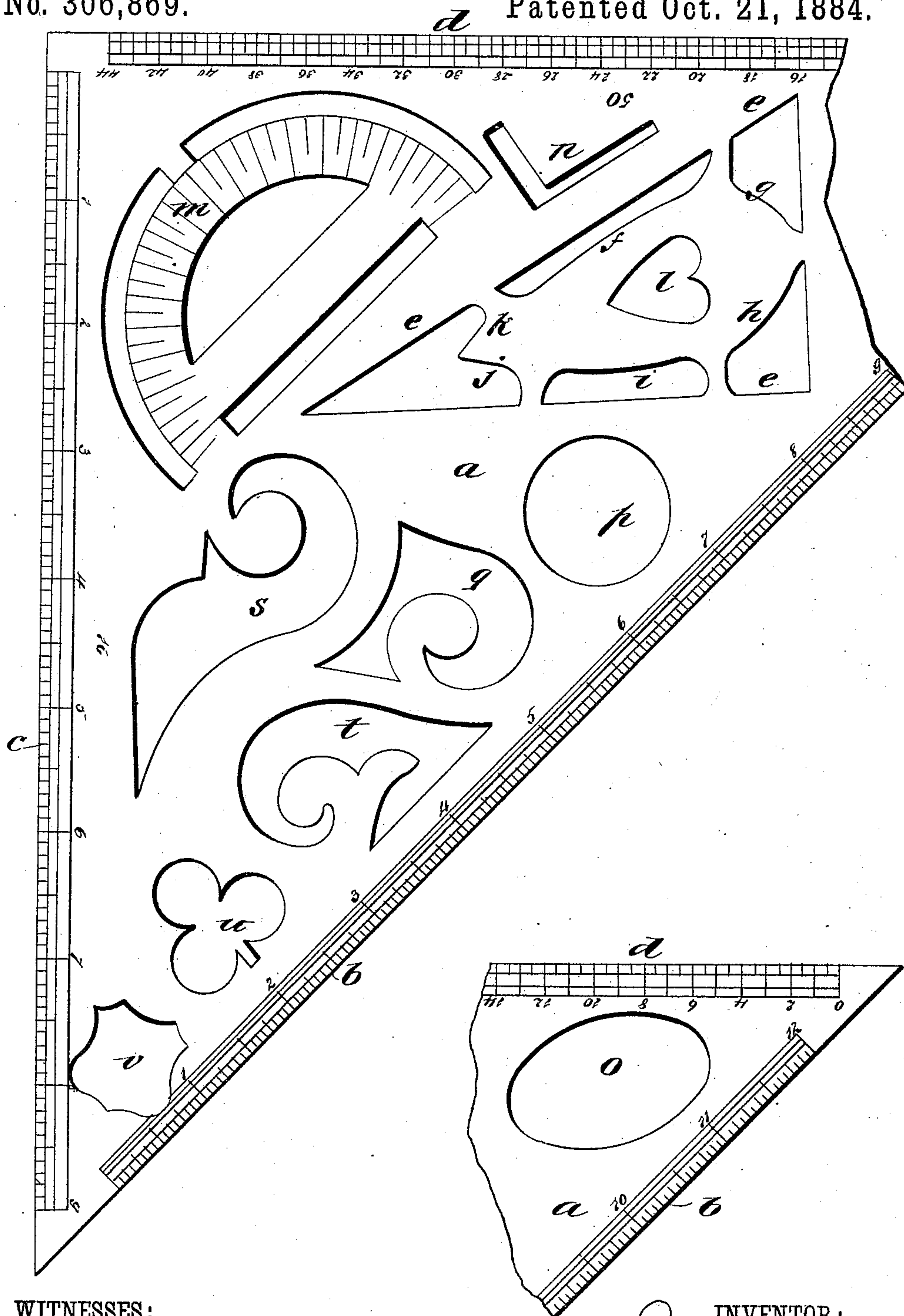
(No Model.)

J. McMASTERS SCOTT.

COMBINATION DRAWING INSTRUMENT.

No. 306,869.

Patented Oct. 21, 1884.



WITNESSES:

*Francis McArthur*  
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# UNITED STATES PATENT OFFICE.

JOSEPH McMASTERS SCOTT, OF ALLEGHENY CITY, PENNSYLVANIA.

## COMBINATION DRAWING-INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 306,869, dated October 21, 1884.

Application filed March 13, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH McM. SCOTT, of Allegheny City, in the county of Allegheny and State of Pennsylvania, have invented a new and  
5 Improved Combination Drawing Instrument, of which the following is a full, clear, and exact description.

My invention consists of a triangle having the margins figured with different scales, for  
10 different purposes, and having another triangle, a protractor, several irregular curves, circles, ovals, and other figures cut in it within the margins, and thereby enabling one instrument to serve the purposes of many single instruments separately made, as hereinafter  
15 fully described.

Reference is to be had to the accompanying drawing, forming part of this specification, in which the figure represents my improved drawing instrument in plan view.  
20

I make a triangle, *a*, preferably of forty-five degrees and ninety degrees, and of approved size, preferably so that a one-foot scale, *b*, may be made on the margin of one side, preferably  
25 the long one, and I mark said scale thereon, and mark other scales, as *c d*, for draftsmen, architects, and others, on the other margins, making six different scales, if desired, or repeating some for convenience, if preferred,  
30 and within the margins of the triangle *a* I cut out sufficient material to form a smaller

triangle, *e*, preferably of sixty and ninety degrees, within the lines of which I retain portions of the plate to form different curves, as  
35 *f, g, h, i, j*, and *k*, and also the heart-shaped figure *l*. In the remaining space between the margins of the triangle *a*, I form the protractor *m*, right angle square *n*, ellipse *o*, circle *p*, irregular curves *q, s*, and *t*, trefoil *u*, and the shield-figure *v*, all affording lines and shapes  
40 useful in the draftsman's art, and, being thus combined in one instrument, are more convenient for use, and may be provided cheaper than as commonly made in several separate instruments.  
45

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

1. The improved combination-instrument, consisting of a triangle, *a*, having marginal  
50 scales *b c d*, triangle *e*, protractor *m*, ellipse *o*, circle *p*, irregular curves *q s t*, trefoil *u*, and the shield figure *v*, substantially as described.

2. The improved combination-instrument, consisting of a triangle, *a*, having another triangle, *e*, and said triangle *e* having curves *f*,  
55 *g, h, i, j*, and *k*, substantially as described.

JOSEPH McMASTERS SCOTT.

Witnesses:

JNO. H. BENTON,  
CH. E. CORNELIUS.