

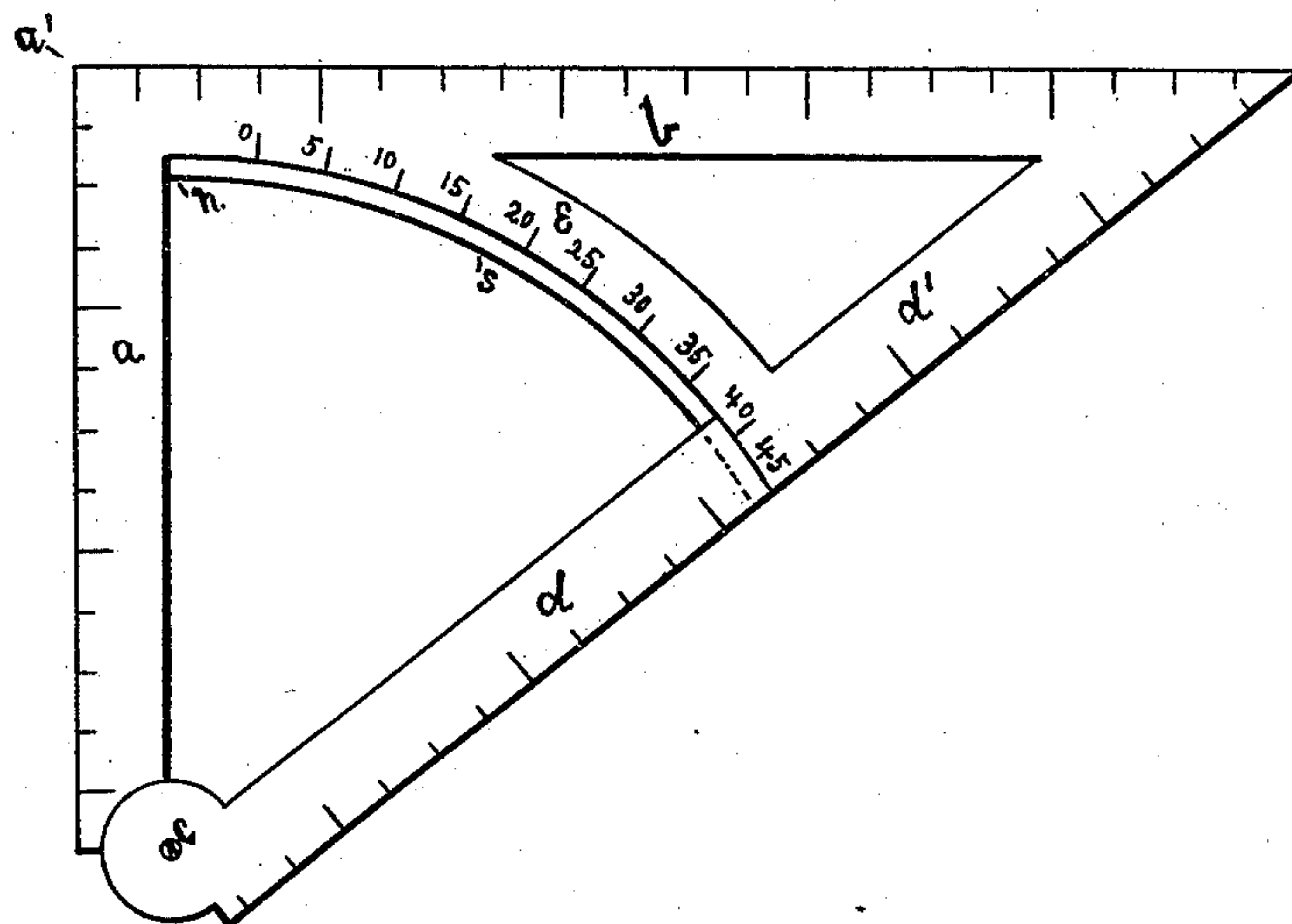
(No Model.)

L. W. STOCKWELL.

DRAFTSMAN'S TRIANGLE AND PROTRACTOR.

No. 246,045.

Patented Aug. 23, 1881.



Witnesses
James H. Holcomb
A. A. Parsons

Inventor
Levi W. Stockwell
by Bradford Howland
his attorney

UNITED STATES PATENT OFFICE.

LEVI W. STOCKWELL, OF CLEVELAND, OHIO.

DRAFTSMAN'S TRIANGLE AND PROTRACTOR.

SPECIFICATION forming part of Letters Patent No. 246,045, dated August 23, 1881.

Application filed January 10, 1881. (No model.)

To all whom it may concern:

Be it known that I, LEVI W. STOCKWELL, of the city of Cleveland and State of Ohio, have invented a new and useful Improvement in Drawing Implements, of which the following is a specification.

The nature of my invention is a ruler forming a right-angled triangle, except at a hinge-joint at the end of one side connecting it with a part of the hypotenuse, which turns on the joint at one end and at the other is movable forty-five degrees on a protractor.

In the drawing forming a part of this specification, the figure is a plan.

The sides a and b and the side or hypotenuse $d d'$ are each of suitable width and thickness for a ruler. Sides $a b$ form a right angle with each other at a' , and are at an angle of forty-five degrees with the side $d d'$. The protractor e is an arc extending from the inside right angle at n to the hypotenuse $d d'$. Its radius d is a part of the side $d d'$, and is connected at one end with side a by an ordinary knuckle-joint, c , the other end being grooved to slide on tongues of the protractor e . The sides are

marked with a scale of inches and the protractor with a scale of degrees. When the radius d has been turned on protractor e to any desired angle with side a , and a line has been drawn at its side, by changing the position of the instrument and putting side b in the place of side a the radius d will be at right angles to the line so drawn. In whatever position radius d is turned on protractor e its angle to side b will be the difference between its angle to side a and ninety degrees.

I claim as my invention—

As an article of manufacture, a drawing implement having the sides $a b$ at right angles to each other and at an angle of forty-five degrees to the side $d d'$, and the protractor e , having for its radius d a part of side $d d'$, connected by joint c with side a , and sliding on the protractor when turned on the joint, substantially as described.

LEVI W. STOCKWELL.

Witnesses:

LEWIS W. FORD,
W. A. BIDDLE.