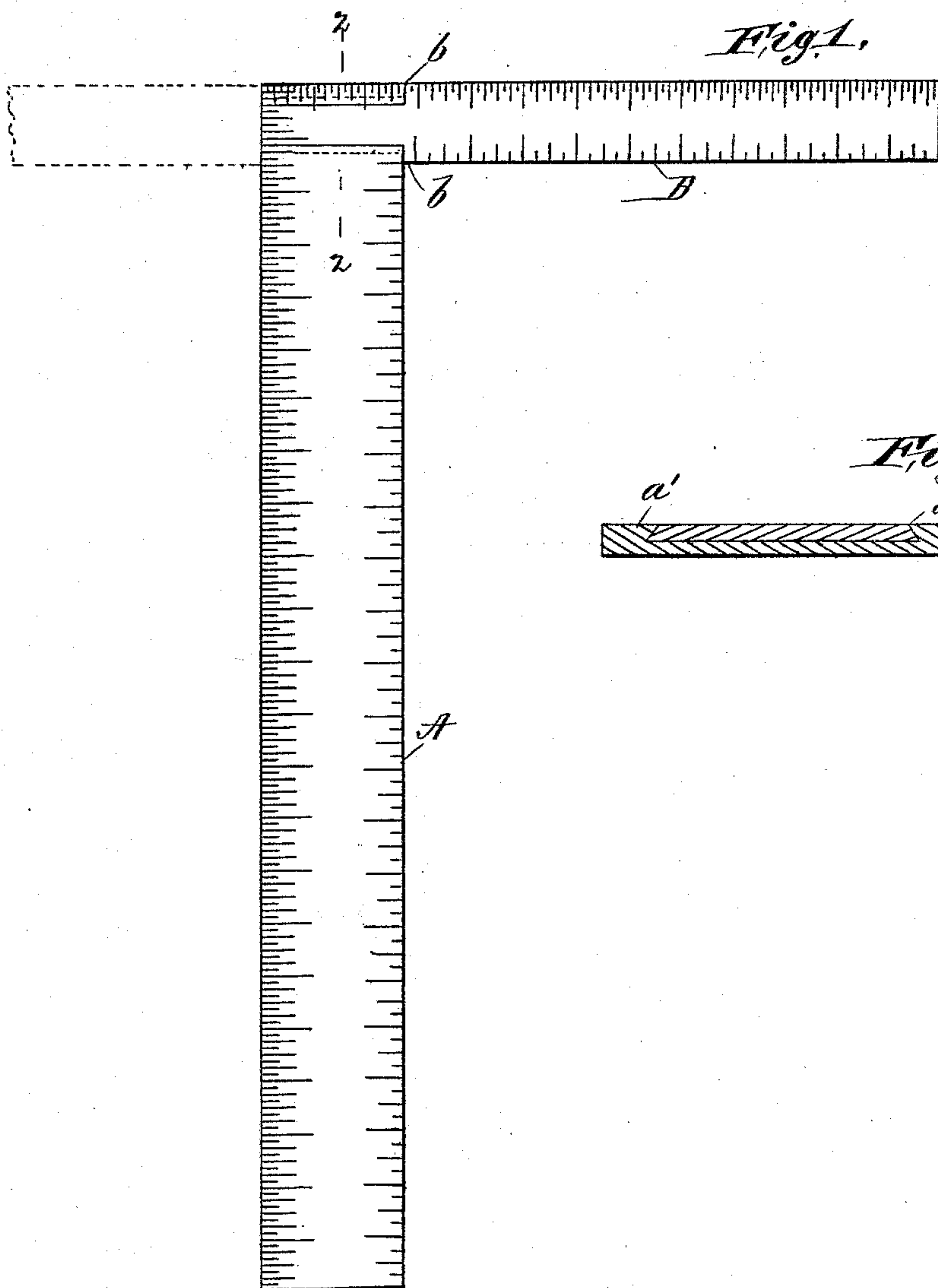


(No Model.)

C. H. BIGGS.  
SQUARE.

No. 556,840.

Patented Mar. 24, 1896.



WITNESSES:

*C. W. Benjamin*  
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# UNITED STATES PATENT OFFICE.

CHARLES H. BIGGS, OF BROOKLYN, NEW YORK.

## SQUARE.

SPECIFICATION forming part of Letters Patent No. 556,840, dated March 24, 1896.

Application filed June 21, 1895. Serial No. 553,541. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. BIGGS, a citizen of the United States, and a resident of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Squares, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to measuring devices, and particularly to that class thereof known as "squares," such as T-squares, carpenters' squares, and the like; and the invention consists in the construction, combination, and arrangement of parts hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, and in which—

Figure 1 is a view in elevation of my improved square, and Fig. 2 a section on the line 2 2 of Fig. 1.

The ordinary carpenter's square, as is well known, consists of two parts or arms, one of which is secured to the other at the end thereof and at right angles thereto, and in the practice of my invention I detachably connect these arms in such manner that the short or smaller arm may be connected therewith so as to extend at right angles from either side thereof. This connection is made by means of a tongue-and-groove construction in a manner well known, the larger or longer arm A of the square being cut away near one end thereof, and the sides of the cut-away portions being inwardly inclined, as shown at *a* and *a'* in Fig. 2, and within this space is inserted one end of the shorter arm B, the end of which is so fashioned as to fit within the cut-away portion of the arm A, and the smaller portion B is also provided at *b* with shoulders which abut against the part *a*, thus making a firm and unyielding connection, though the parts, as will be understood, may be separated whenever desired, and the part B may be turned and inserted into or connected with the part A from the opposite side, as shown in dotted lines in Fig. 1.

The parts A and B are provided on each side with the usual scale divided into inches and fractions thereof, and it will be observed that in the position of the parts shown in Fig. 1 the adjacent sides thereof are provided with scales indicating inches, halves, and quarters thereof, while the opposite sides are each provided with scales indicating inches, halves, quarters, and eighths thereof, and by reason of this arrangement when the part B is reversed, as shown in dotted lines in Fig. 1, the inner or adjacent edges of said parts A and B will be provided with scales indicating inches, halves, quarters, and eighths thereof, while the outer sides of said parts will be provided with scales indicating inches, halves, and quarters, and by reason of this arrangement I provide a scale which is capable of use in almost any connection in which said instruments are necessary, and which is also very convenient, and the parts of which may be readily changed from one position to the other, and thus adapted to the various uses for which such instruments are intended.

It is evident that changes in the method of uniting the parts A and B and in the form thereof and in the character of the scales thereon may be made without departing from the spirit of my invention, and I therefore reserve the right to make such alterations as fairly come within the scope thereof.

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

1. A square, the separate arms of which are provided on their opposite sides with corresponding scales, one of said arms being separable from the other, and reversible thereon, by means of a tongue-and-groove coupling, that part provided with the tongue being also provided with shoulders which are adapted to abut against the sides of the other part, the arrangement of the scales being such that the corresponding sides of the separate arms are provided with the same scales in either position of the parts, substantially as shown and described.

2. A square, one of the arms of which is separable from the other, and reversible thereon,



by means of a tongue-and-groove coupling,  
that part which is provided with the tongue  
being also provided with shoulders which are  
adapted to abut against the other part, sub-  
5 stantially as shown and described.

In testimony that I claim the foregoing as  
my invention I have signed my name, in pres-

ence of two witnesses, this 20th day of June,  
1895.

CHARLES H. BIGGS.

Witnesses:

E. VAN DEURSEN,

L. M. MULLER.