L. LOWENSTEIN.

ADJUSTABLE SQUARE.

APPLICATION FILED MAY 16, 1918.

1,300,427. Patented Apr. 15, 1919.

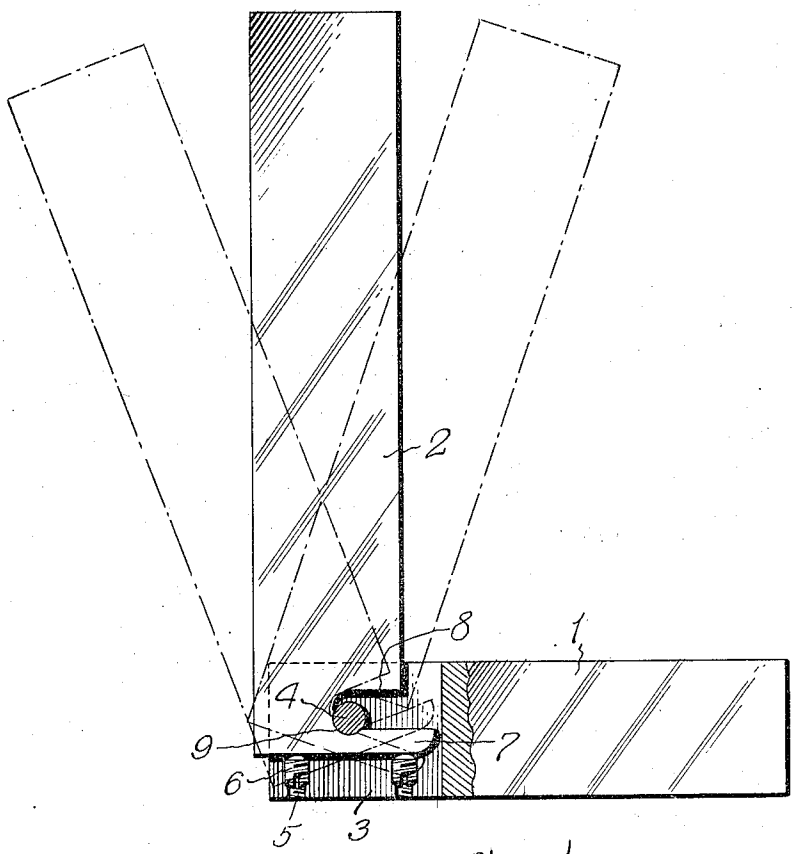


Fig. 1.

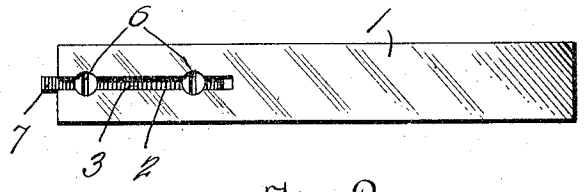


Fig. 2.

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UNITED STATES PATENT OFFICE.

LOUIS LOWENSTEIN, OF DETROIT, MICHIGAN.

ADJUSTABLE SQUARE.

1,300,427. Specification of Letters Patent. Patented Apr. 15, 1919.

Application filed May 16, 1918. Serial No. 234,863.

To all whom it may concern:

Be it known that I, LOUIS LOWENSTEIN, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Adjustable Squares, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to an adjustable square, and my invention aims to provide a square or angle with adjustable legs or arms, so that the two legs or arms of the square may be maintained true at a perfect right angle to each other. The adjustability of one arm of the square relative to the other permits of the adjustable arm being set at a desired angle, and the adjusting means is concealed so that all edges of the square may be used for various purposes by a mechanic, draftsman or other artisan.

My invention further aims to provide an adjustable square that is inexpensive to manufacture on account of the location of the adjusting means, and this will be better understood when reference is had to the drawing and a detailed description thereof.

In the drawing,

Figure 1 is a side elevation of the adjustable square partly broken away and partly in section; and

Fig. 2 is a bottom plan of the same.

In the drawing, 1 denotes a short arm of the square, and 2 the long arm thereof, although these arms may be of any desired length, but for the convenience of describing a conventional form of square, I will consider the arm 1 as the base of the square, and the arm 2 as the upright thereof. The base arm is of greater width than the upright arm and the inner end of the base arm has a central bifurcation or slot 3 provided with a transverse pin 4.

The lower edge of the base arm 1, at the bifurcation 3, is drilled to provide the confronting walls of the bifurcation 3 with confronting recess 5 having the walls thereof screw-threaded so as to receive short screws 6 having slotted outer ends and rounded inner ends.

The inner end of the upright arm 2 has a lateral extension 7 forming one of the walls of an open pin slot 8, which is formed in the inner edge of the upright arm. The inner end of the extension 7, at the inner end of the pin slot 8, has a seat 9 for the pin 4 and the slot 8 permits of the upright arm being easily and quickly shifted into the bifurcation and into engagement with the pin 4. This is accomplished while the screws 6 are retracted and then by adjusting both screws the upright arm 2 may be fixed against the pin 4 with said pin in the seat 9. By adjusting the screws 6, the inner end of the upright arm 2 may be rocked on the pin 4 and thereby position the upright arm 2 exactly at a right angle to the base arm 1 or at any desired inclination relative thereto.

I attach considerable importance to the fact that the lower edge of the base arm 1 is provided with short screws that act directly upon the inner end of the upright arm 2 in contradistinction to long screws that may extend lengthwise of the base arm to act on the inner edge of the upright arm in tilting the same. My arrangement permits of the two arms being easily manufactured at a comparatively small expense, and with the outer edge of the upright arm 2 protruding beyond the inner end of the base arm 1, all edges of the square may be used.

What I claim is:—

1. A square comprising a base arm having the inner end thereof bifurcated and provided with a fixed transverse pin, an upright arm having the inner end thereof provided with an open slot so that said upright arm may be positioned in the bifurcation to rock on the pin thereof, and means in the bifurcation of the base arm bearing against the inner end of the upright arm and adapted for adjusting the upright arm relative to the base arm.

2. An adjustable square comprising a base arm having the inner end thereof bifurcated and provided with a transverse pin, an upright arm having the inner end thereof provided with a slot and with an extension forming one of the walls of said slot and providing a seat for the pin of said base arm, and short screws engaging the walls of the bifurcation of said base arm, and the inner end of said upright arm, and adapted for adjustment to rock said upright arm on the pin of said base arm.

3. A square comprising a bifurcated base,

a slotted arm, a pin extending through the bifurcation of said base and the slot of said arm permitting movement of the latter upon opposite sides of a 90° angle between said arm and base, and means in said base for rigidly seating said pin in a wall of the slot of said arm so that said arm is secured to the base against movement in either direction in the various positions of adjustment of said arm.

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

LOUIS LOWENSTEIN.

Witnesses:
KARL H. BUTLER,
ANNA M. DORR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."