

T. R. MADDOX.
JOINT GAGE, LEVEL, AND MITER SQUARE.
APPLICATION FILED OCT. 23, 1915.

1,210,339.

Patented Dec. 26, 1916.
3 SHEETS—SHEET 1.

Fig. 1.

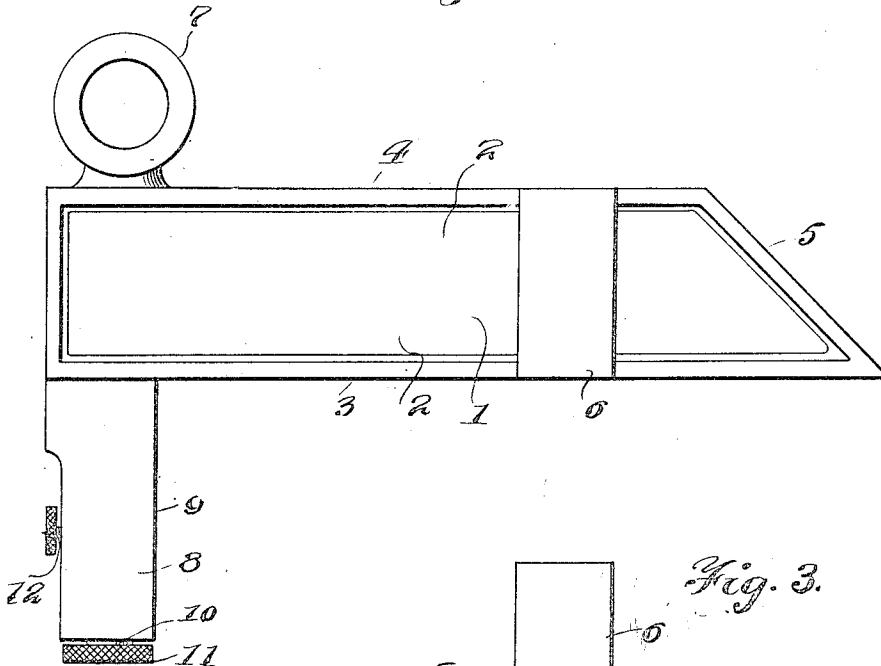
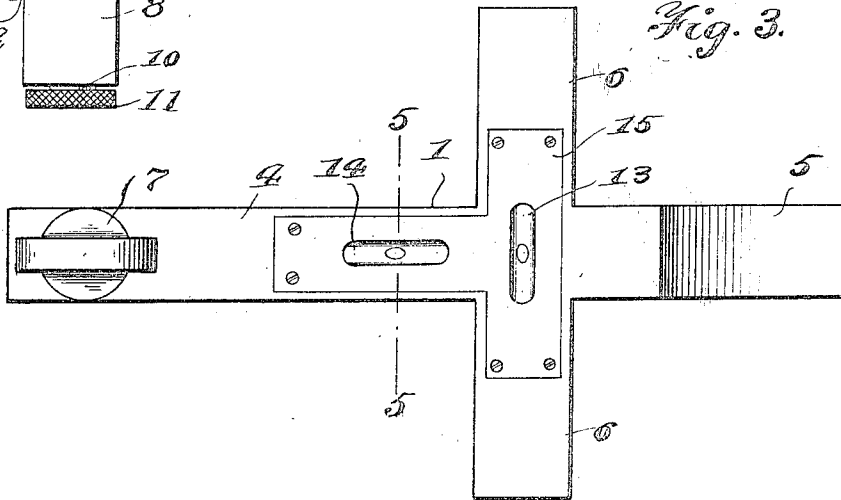


Fig. 3.



Inventor
T.R. Maddox.

Witnesses
H. Hallenberger
J. Warner

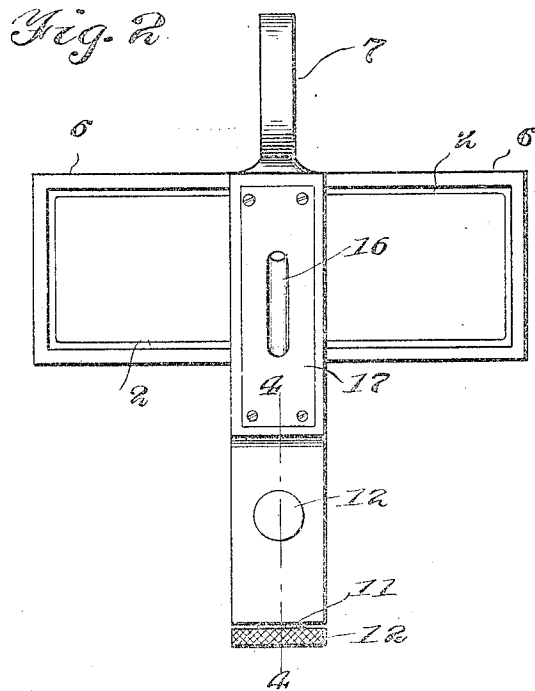
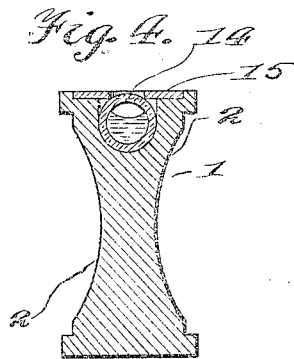
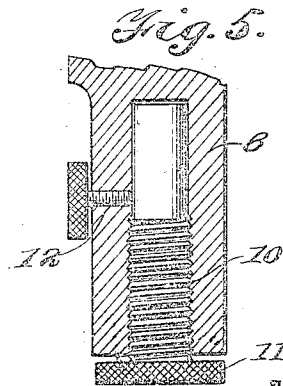
By Victor J. Evans

Attorney

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Inventor
T.R. Maddox.

Witnesses

W. H. Hallenberger.
J. W. Garner

By

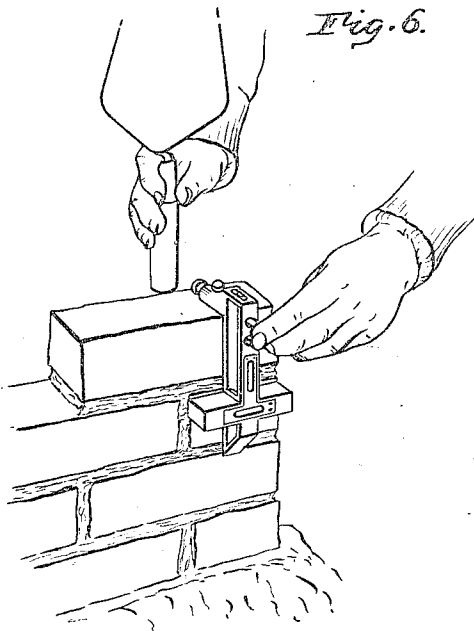
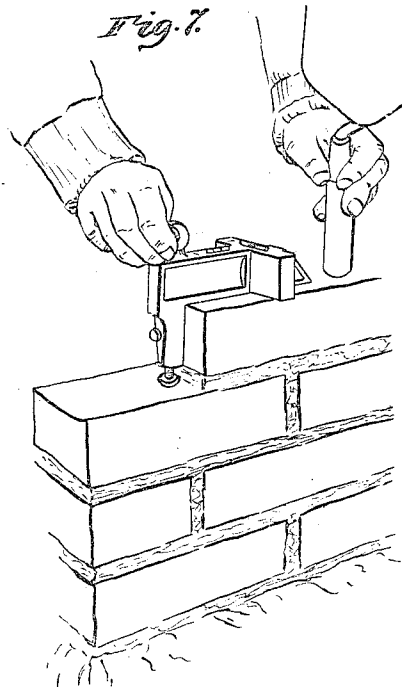
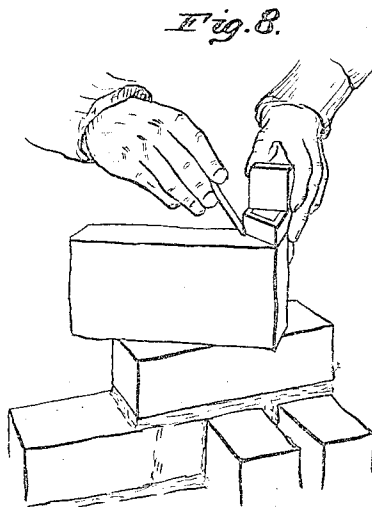
Victor J. Evans

Attorney

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3 SHEETS—SHEET 3.



Witnesses

Frederick L. Lee,
J. W. Garner

Inventor
T. R. Maddox

By *Victor J. Evans.*
Attorney

UNITED STATES PATENT OFFICE.

THOMAS ROSS MADDOX, OF CANYON CITY, TEXAS.

JOINT-GAGE, LEVEL, AND MITER-SQUARE.

1,210,339.

Specification of Letters Patent.

Patented Dec. 26, 1916.

Application filed October 23, 1915. Serial No. 57,509.

To all whom it may concern:

Be it known that I, THOMAS ROSS MADDOX, a citizen of the United States, residing at Canyon City, in the county of Randall and State of Texas, have invented new and useful Improvements in Joint-Gages, Levels, and Miter-Squares, of which the following is a specification.

This invention is an improved joint gage, level, and miter square, especially adapted for use by brick layers to start corners on face brick work, for leveling the first brick of each course both ways, for gaging the mortar joint, and also adapted for use as a plumb and as a miter square, the object of the invention being to provide an improved tool of this character which is cheap and simple in construction, is strong, and durable, and which may be readily adjusted as required.

The invention consists in the construction, combination and arrangement of devices, hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a tool constructed and arranged in accordance with my invention. Fig. 2 is a front elevation of the same. Fig. 3 is a plan of the same. Figs. 4 and 5 are detail sectional views of the same. Fig. 6 is a perspective view showing my improved joint gage, level, and miter square when used on a brick or block while building a wall and arranging the inner and outer faces of said brick or block in a line vertically with those of the lower courses. Fig. 7 is a similar view of the same in use for leveling a brick or block transversely and longitudinally while building a wall and for also gaging the thickness of the mortar joint between horizontal courses. Fig. 8 is a similar view of the same when used for marking a miter.

The arm 1 of my improved tool is preferably channeled in opposite sides as at 2, has lower and upper straight edges 3, 4, and has its inner end formed with an inclined, plane straight edge or face 5 which is at an angle of 45 degrees to the lower straight edge or face 3. At a suitable distance from the inner end of the arm 1, $2\frac{1}{4}$ inches—are cross arms 6 which are arranged at right angles to the arm 1 and each of which is $1\frac{1}{2}$ inches in length and $\frac{3}{4}$ of an inch in thickness. A knob handle 7 is on the upper side of the arm 1 at the outer end thereof.

A vertical arm 8 is at the outer end of the

arm 1 and depends from the lower side thereof and is arranged with its inner face 9 at right angles to the straight edge or lower face 3 of said arm 1. A gage screw 10 has its stem threaded in a threaded bore of the vertical arm and is provided with a circular head 1 which is $\frac{3}{4}$ of an inch in diameter and $\frac{1}{4}$ of an inch in thickness. The gage screw may be secured at any desired adjustment by a set screw 12.

A spirit level 13 is arranged transversely in the upper side of the arm 1 at the intersection of the cross arms 6. A spirit level 14 is arranged longitudinally in the upper side of said arm 1 at a suitable point between the lever 13 and the knob handle 7, these spirit levels being secured in place by a T-shaped plate 15 which is preferably made of brass. The tool is otherwise preferably a casting of iron or steel. A level 16 is secured vertically in the outer end or face of the arm 1 and held by a plate 17.

In the use of the tool, the arm 2 with its straight edges 3, 4, and its inclined end 5 may be employed for marking the miter. The cross arms 6 serve to bear on a brick transversely and in connection with the lever 13 adapt the tool to be used for leveling a brick transversely while building a wall, the level 14 coacting with the long arm 1 to level the brick longitudinally. The vertical arm 8 coacts with the arm 2 for plumbing a brick at the end to cause the brick to align vertically with those of the lower courses. The screw 10 is for use as a mortar gage to secure a mortar joint of any desired thickness between the horizontal courses, said screw bearing on the lower bricks while the arms 2 and 6 bear on a brick which is being laid and the screw being adjusted according to the desired thickness of the mortar.

While I have herein shown and described a preferred form of my invention, I would have it understood that changes may be made in the form, proportion, and construction of the several parts without departing from the spirit of the invention and within the scope of the appended claims.

Having described the invention, what is claimed is:

1. The herein described brick layer's tool comprising a longitudinal arm having plane parallel upper and lower faces, cross arms extending from opposite sides of the first-named arm and at right angles thereto, a

vertical arm depending from the outer end of the first-named arm, a gage screw in the lower end of said vertical arm, and levels in the upper side and outer end of the first-named arm.

2. The herein described brick layer's tool comprising a longitudinal arm having plane parallel upper and lower faces, cross arms extending from opposite sides of the first-named arm and at right angles thereto, a vertical arm depending from the outer end of the first-named arm, a gage screw in the

lower end of said vertical arm, levels in the upper side and outer end of the first-named arm, and a handle knob at the outer end and on the upper side of the first-named arm, and a set screw to secure the gage screw in adjusted position.

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

THOMAS ROSS MADDOX.

Witnesses:

I. S. FISHER,
A. E. BARKER.