

(No Model.)

E. C. PERRY.
CARPENTER'S FOLDING SQUARE.

Patented Feb. 6, 1894.

No. 514,380.

Fig. 1.

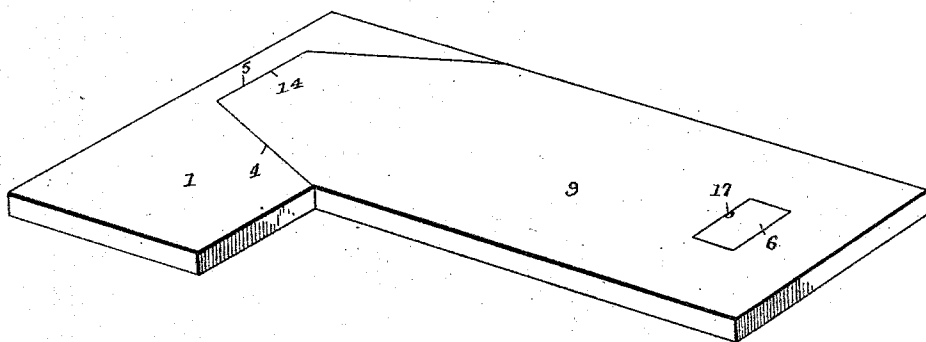


Fig. 2.

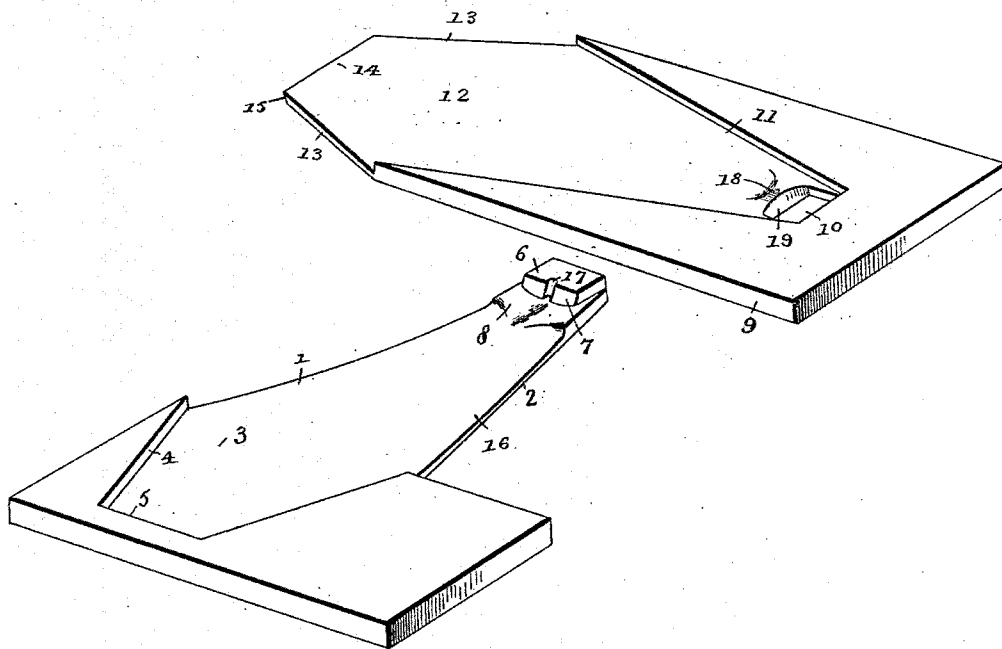
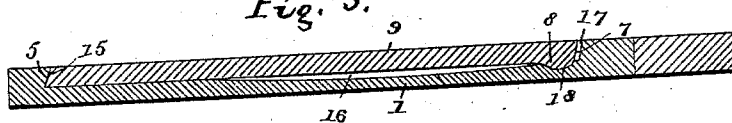


Fig. 3.



Inventor

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Witnesses

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By his Attorneys.

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UNITED STATES PATENT OFFICE.

ELIAS C. PERRY, OF CHICAGO, ILLINOIS.

CARPENTER'S FOLDING SQUARE.

SPECIFICATION forming part of Letters Patent No. 514,380, dated February 6, 1894.

Application filed May 26, 1893. Serial No. 475,625. (No model.)

To all whom it may concern:

Be it known that I, ELIAS C. PERRY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Carpenter's Square, of which the following is a specification.

This invention relates to carpenters' squares, and has for its object to so construct the same as to readily disconnect the two arms thereof at or about the angle to reduce the projection or extension thereof and make it convenient for the purpose of storage within the tool chest or other place, and in transportation from one place to another.

With this and other objects in view, the invention consists of the construction and arrangement of the parts thereof as will be hereinafter more fully described and claimed.

In the drawings: Figure 1 is a perspective view of a carpenter's square embodying the invention. Fig. 2 is a similar view of the parts of the square disconnected, and one of the members inverted. Fig. 3 is a sectional view.

Similar numerals of reference indicate corresponding parts in the several figures of the drawings.

Referring to the drawings, the numeral 1 designates the longest member of the square, which is formed with an angular extension 2 at one end thereof, whose under side is in a plane parallel and flush with the under surface of the longer member 1. The upper surface of said extension, and a portion of the adjacent member 1, is formed with a truncated diamond-shaped recess 3, to thereby provide converging walls 4 in the member 1, and a beveled wall 5 connecting said converging walls and forming an overhanging locking shoulder, the bevel being extended under, as clearly shown in Fig. 3. At the terminating end of the extension 2, and on the same side thereof in which the said recess 3 is formed, is located a rectangular lug 6, whose inner wall 7 is slightly beveled to produce a locking action, as will be more fully hereinafter set forth. The surface of the extension 2, adjacent to the said lug 6, is beveled inward from opposite sides, as at 8, toward the center and assists in the action of

the locking spring as well as in the securing of the two parts of the square.

The shorter member 9 of the square is provided with a rectangular opening 10, through which the lug 6 is adapted to pass in connecting the members 1 and 9 together. The under side of the said member 9, adjacent to the opening 10, is also provided with a truncated diamond-shaped recess 11, having its walls converging toward the said opening, and at the point 12, where the surplus thickness of the metal is removed, the opposite edges 13 are converged to fit snugly against the walls 4 and terminate in an end-wall 14, that is beveled, as at 15, to take under the beveled wall 5 before described, and by this means lock the two members of the square together. At the point 16 of said extension 2 the metal is reduced in thickness to form a spring, and said extension is slightly bent upward to assist in the function of the spring-action and cause a firm locking of the lug 6 in the opening 10, and in releasing the parts a pointed instrument may be inserted in an opening 17 in the said lug. The part of the recess 11 adjacent to the opening 10 is thickened, as at 18, and the front wall of said opening is beveled, and by this means the lug 6 is caused to start in the opening 10 and also to straighten the spring enough to allow the wall, as at 19, to pass or slip over and make a close fit between the wall 7 of the said lug and the wall 19 of the opening 10, and thereby hold the parts securely connected. This construction in addition to the beveled wall 5 and the end 14 prevents accidental disconnection of the parts after they have been joined.

The parts entire are extremely simple, and the manufacture of the square in this form will be comparatively inexpensive; and at such points where necessary the several parts may be tempered to an increased degree of hardness to obviate wear.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle, or sacrificing any of the advantages of this invention.

Having described the invention, what is claimed as new is—

1. In a carpenter's square, the combination

of a longer member having an extension at one end with a truncated diamond-shaped recess therein having an under beveled wall at one end and a rectangular lug at the opposite end, said extension adjacent to said lug being bent upward and reduced to form a spring, and another member also having a truncated diamond-shaped recess at one end thereof to fit the aforesaid recess and provided with a beveled end and an opening through which the said lug passes, substantially as described.

2. A square comprising two members arranged at right angles, one of the members being provided with a polygonal recess terminating in its inner end in an opening and having opposite side walls, and the other member being provided with a resilient extension conforming to the configuration of the recess and arranged within the same and con-

fining between the side walls thereof, and provided with an integral projection engaging said opening, substantially as described.

3. In a carpenter's square, the combination of a member having an extension with a lug at the free end thereof and a recess therein adjacent to said lug which reduces the metal and forms a spring, said extension being bent upward, and another member with a recess and an opening to fit the aforesaid member, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ELIAS C. PERRY.

Witnesses:

WM. J. RATHJE,
D. F. COHRS.