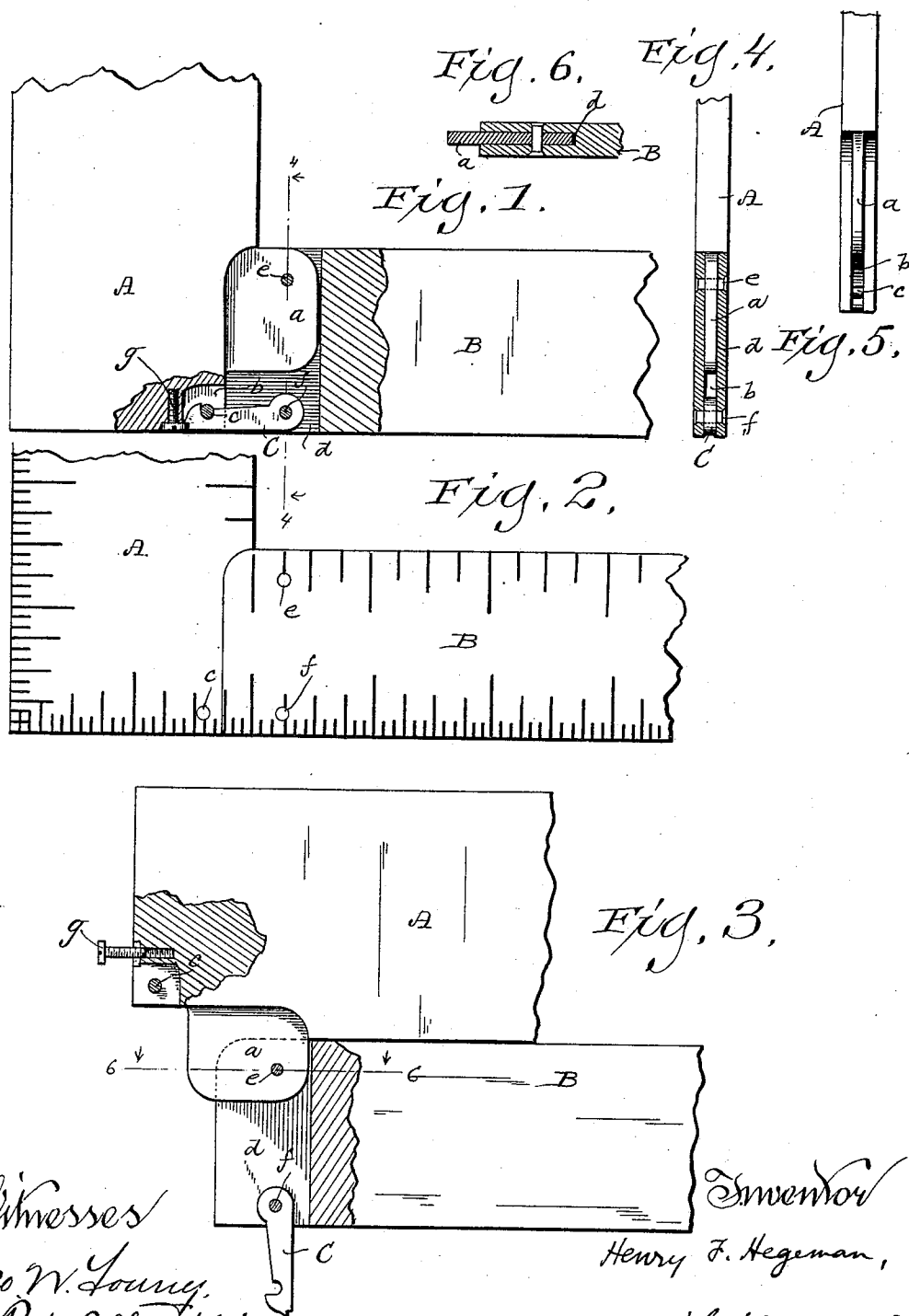


(No Model.)

H. F. HEGEMAN.
FOLDING SQUARE.

No. 466,099.

Patented Dec. 29, 1891.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY F. HEGEMAN, OF MILWAUKEE, WISCONSIN.

FOLDING SQUARE.

SPECIFICATION forming part of Letters Patent No. 466,099, dated December 29, 1891.

Application filed June 8, 1891. Serial No. 395,447. (No model.)

To all whom it may concern:

Be it known that I, HENRY F. HEGEMAN, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Squares; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to squares; and it consists in certain peculiarities of construction and arrangement of parts to be hereinafter described, and pointed out in the appended claims.

In the drawings, Figure 1 represents a side elevation of a portion of my square, partly broken away for the purpose of better illustration; Fig. 2, another side elevation of the device, showing the graduations thereon; Fig. 3, a similar view showing one arm of the square folded on the other; Fig. 4, a section on the line 4 4 of Fig. 1; Fig. 5, an edge view of the vertical arm of my square, and Fig. 6 a section on the line 6 6 of Fig. 3.

Referring to the drawings, A B represent the arms of a right-angled square constructed according to my invention, and projecting from the inner side of the arm A at a suitable distance from the lower end thereof is an ear *a*. A recess *b* is formed in the lower inner corner of said arm A adjacent to the ear *a* and has passed transversely there-through a pin *c* for the purpose to be hereinafter described.

Extending along the entire length of the inner end of the arm B is a groove *d*, and pivoted within the upper portion of this groove by means of a pin *e* is the ear *a*. In the lower portion of the groove *d* is pivoted, as by pin *f*, one end of a hook C, the other end of which is designed to engage with the pin *c* in the recess *b* of the square-arm A, the latter end of the hook being preferably notched for engagement with the countersunk head of screw *g*, said screw holding the hook C firmly in place and guarding against any liability of dropping out of its own weight.

Assuming that the parts are in the position shown in Fig. 1 and it is desired to fold my square, the screw *g* is run out a certain dis-

tance to clear the hook C and the latter dis-
engaged from the pin *c* in the recess *b* of the square-arm A, and the square-arms are swung upon their pivot and brought together, as shown in Fig. 3. When desired to return the parts to their normal position, the square-arms are unfolded, the hook C engaged with the pin *c*, and the screw *g* run down flush with the edge of the adjacent arm.

Although I have shown and described the hook C held in place by the screw *g*, it is obvious that this screw may be dispensed with, as the hook can be made to be held in place by frictional contact against the opposing surfaces, or some other means may be employed for the same purpose.

The advantage of my square lies in the fact that by being enabled to fold the same I economize space, and am thus enabled to place said square entirely within a tool-box with the rest of the tools, and in case it rains none of the tools will get rusty, while with the square now in use, when placed in a tool-box, one arm thereof generally projects out of the top of said box, and in case it rains the rain runs down the projecting arm of the square among the other tools and rusts them, as well as the square, and hence it will be seen that I have constructed a simple and neat device that overcomes these objections, as well as one that may be more conveniently carried about than the ordinary non-jointed right-angled square.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A right-angled square having one arm thereof provided with a groove at its inner end, a hook pivoted in the lower end of the groove, the other arm having a recess in the lower inner corner, a pin passed transversely through the recess for engagement with said hook, and an ear projecting from the inner side of the latter arm and pivoted within the groove of the first, substantially as set forth.

2. A right-angled square having an arm thereof provided with a groove at its inner end, a hook pivoted in the lower end of the groove, the other arm having a recess in the

lower inner corner, a pin passed transversely through the recess for engagement with said hook, suitable means for holding the hook in place, and an ear projecting from the inner
5 side of the latter arm and pivoted within the groove of the first-named arm, substantially as set forth.

In testimony that I claim the foregoing I

have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

HENRY F. HEGEMAN.

Witnesses:

H. G. UNDERWOOD,
JOHN E. WILES.