C. J. HALLBERG.

EXTENSIBLE DOOR OPENING AND JAMB GAGE.

APPLICATION FILED AUG. 11, 1915.

1,192,418. Patented July 25, 1916.

2 SHEETS—SHEET 1.

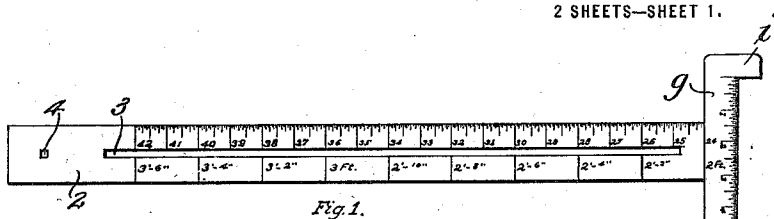


Fig. 1.

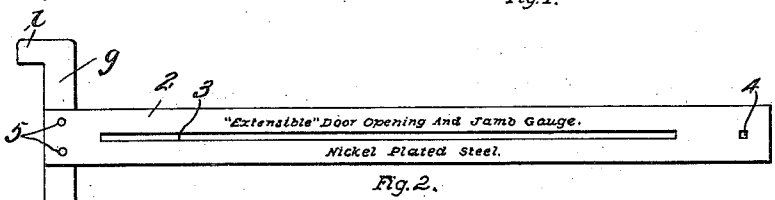


Fig. 2.

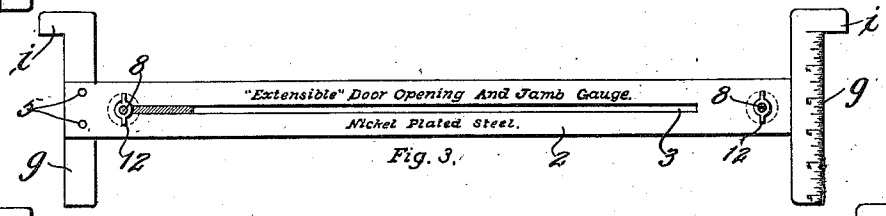


Fig. 3.

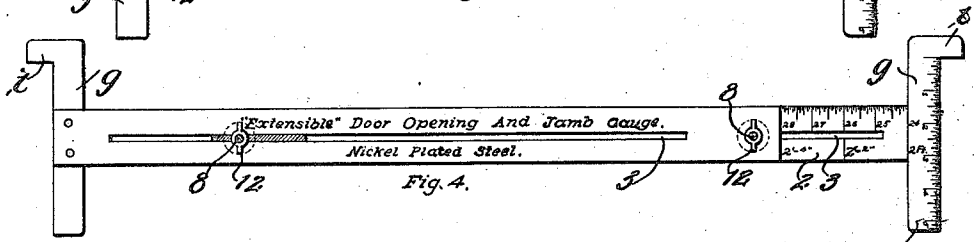


Fig. 4.

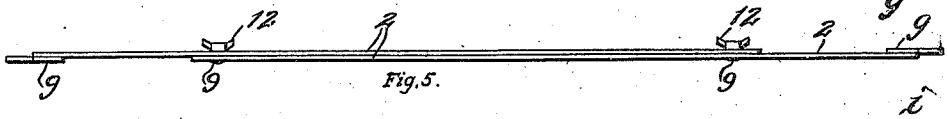


Fig. 5.

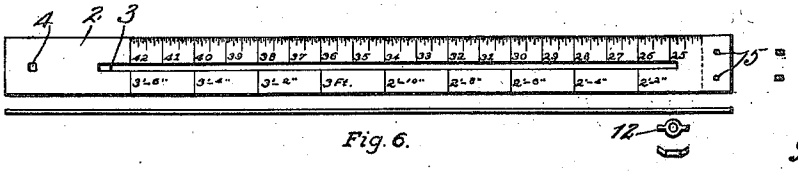
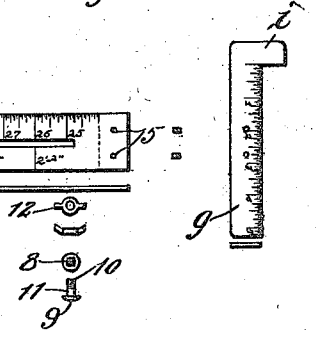


Fig. 6.



Witnesses.

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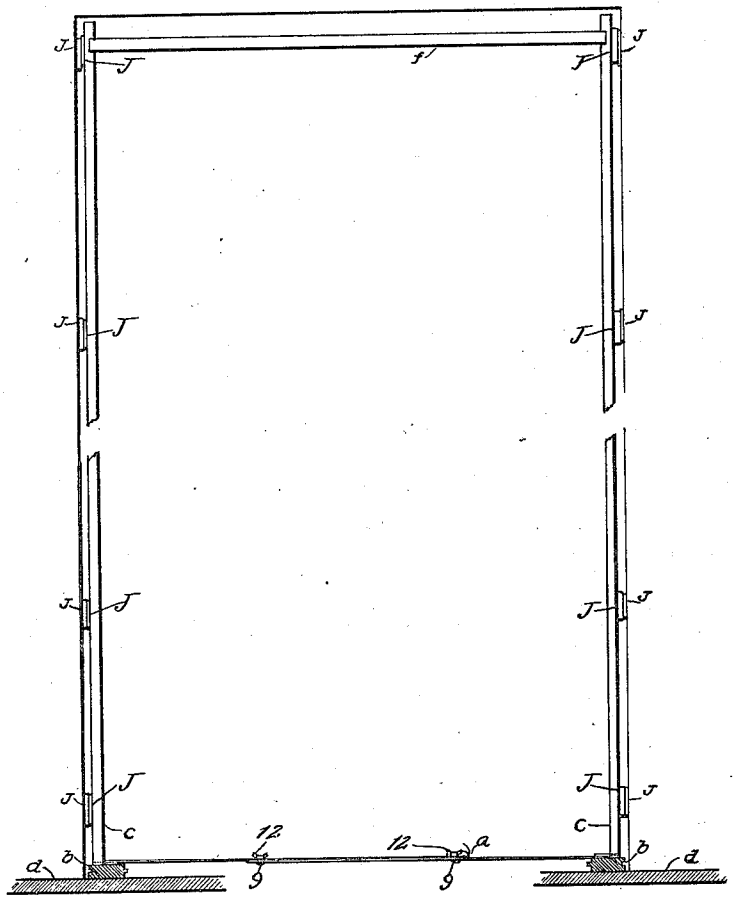


Fig. 7.

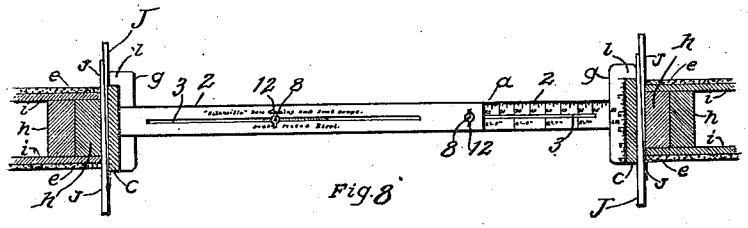


Fig. 8.

Witnesses.

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UNITED STATES PATENT OFFICE.

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EXTENSIBLE DOOR OPENING AND JAMB GAGE.

1,192,418. Specification of Letters Patent. Patented July 25, 1916.

Application filed August 11, 1915. Serial No. 44,977.

To all whom it may concern:

Be it known that I, CARL J. HALLBERG, a citizen of the United States, residing at Galesburg, in the county of Knox and State of Illinois, have invented a new and useful Tool to be Known as an Extensible Door Opening and Jamb Gage, of which the following is a specification.

My invention relates to tools for squaring, gaging, paralleling, and holding in set position door-jambs while the door-casing is being constructed.

The principal object of the invention is to provide a simple, extensible, practical tool by means of which said operations may be expeditiously and efficiently accomplished.

The invention consists, substantially, in the improvements hereinafter described.

In the accompanying drawings, which illustrate my invention: Figure 1 is a plan view of one of the duplicate members of the device; Fig. 2, an inverted plan thereof, turned end-for-end; Fig. 3, a plan view of the device in assembled and closed position; Fig. 4, a similar view, the device partly extended; Fig. 5 an edge view; Fig. 6, an assembly view, showing details; Fig. 7, a face-view of a door-frame with my improvements in operative position between the jambs; and Fig. 8, a transverse section illustrating the construction of a door frame and partition, my improvements being shown as applied.

Coming now to a detailed description of said drawings, and referring to each element by a distinguishing reference character, uniformly employed, 1—1 indicate duplicate gage-sections each of which comprises a blade 2 provided with a longitudinally arranged slot 3 extending the major portion of its length, and at its inner end with a square bolt-hole 4. Secured by rivets 5 to each blade 2 is a jamb-gage head *g* having a lip or tongue *i* projecting outward therefrom. The elements 2 and *g* are provided each with a graduated scale, as shown.

8, 8 indicate bolts each of which has a head 9, threaded terminal 10 and square shank 11. The shank of one rests in the hole 4 of one of the blades 2 and its terminal projects through the slot 3 of the other blade, while the shank of the other bolt rests in said slot and projects through the hole 4 of the other blade, and each is engaged by a wing-nut 12. This arrangement is such that the blades are maintained constantly in parallelism, and inasmuch as the heads *g* are fixed at right angles to the blades they also will be held in parallelism.

Referring particularly to Fig. 1, *b*, *b* indicate flooring-boards; *c*, *c*, door-jambs standing thereon; *d*, *d*, sections of the sub-floor; *e*, *e*, plaster; *f*, *f*, the door-casing head; *h*, *h*, vertically arranged pieces of scantling; *l*, *l*, the lath; and J, J, wedge-shingles used in plumbing and truing up the jambs *c*. These are shown merely to illustrate a door frame and partition construction. After the jambs *c* are positioned on the floor-boards *b* the head *f*, which of course has been cut to proper length, is secured in place. The gage is then placed on the boards *b* between said jambs, it having been adjusted to the same length as the head *f*, which length will be indicated by the inner end of one of the blades 2 on the companion blade, as shown best at *a*, Fig. 8. The wedge-shingles J, J, are then employed to move the jambs to the desired positions, this being determined by plumbing them. It will be evident that not only will the lower ends of the jambs be spaced the same distance from each other as are their upper ends but also that their faces are maintained parallel if brought snugly against the outer faces of the heads 6. The lips *i* and the bodies of the heads *g* form a square or rectangle and together fit closely over the exposed face and one edge of the jamb, whereby to prevent the latter from turning. The lip further acts as a stop in positioning the device between the jambs and thereby determines its position.

As has earlier herein been stated, each blade and each head is provided with a graduated scale. These are arranged on the opposed faces of the elements when assembled, whereby the tool is reversible and a dimension reading may be had from either side.

Having thus described my invention, I claim as new and desire to secure by Letters Patent the following, namely:—

In a tool, a pair of blades each of which is provided with a longitudinally arranged slot, bolts seated each in the body of one of said blades and adapted to move in the slot of the other, nuts, each engaging one of said bolts, and a cross-head fixed to each blade and having an outwardly turned projection.

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Witnesses:
C. A. JOHNSON,
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