R. N. ADAMS.

WOODWORKING TOOL.

APPLICATION FILED OCT. 14, 1909.

975,494. Patented Nov. 15, 1910.

Fig. 1.

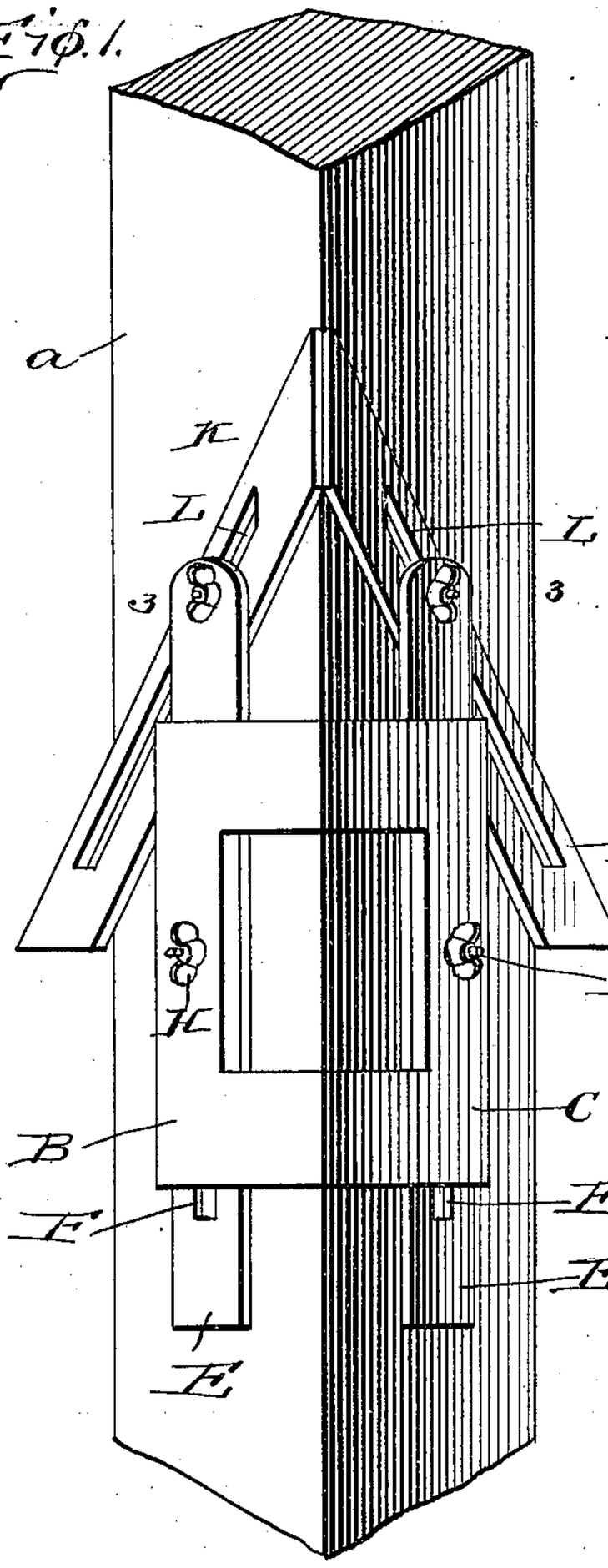


Fig. 2.

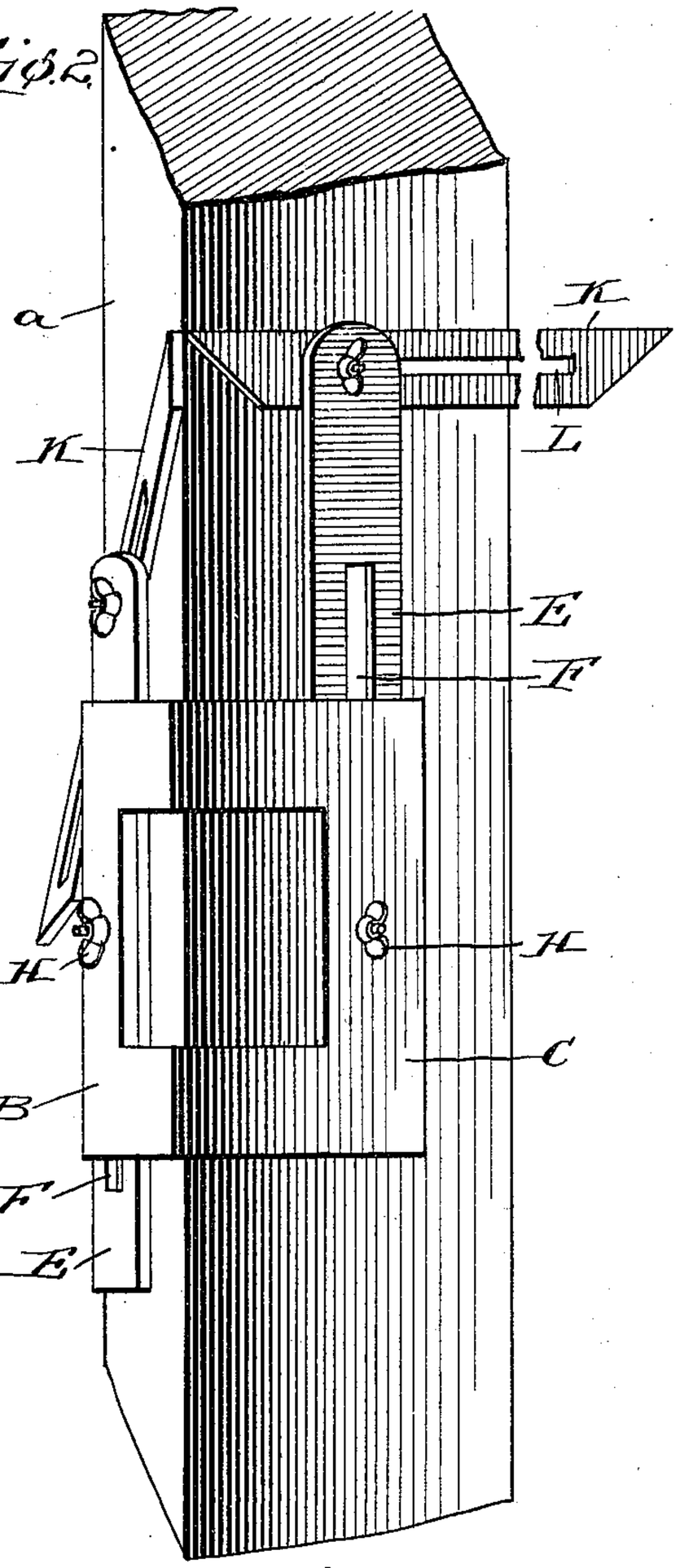
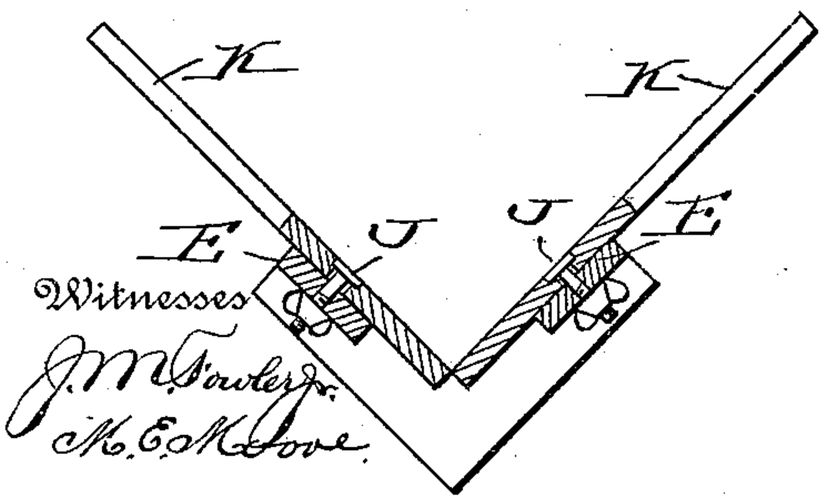
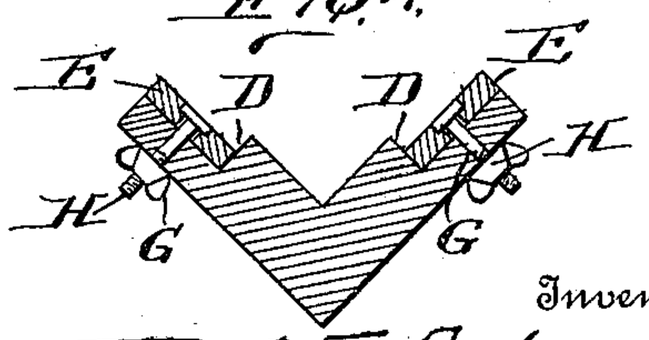


Fig. 3.



Witnesses
J. M. Fowler Jr.
M. E. McLove.

Fig. 4.



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UNITED STATES PATENT OFFICE.

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WOODWORKING-TOOL.

975,494. Specification of Letters Patent. Patented Nov. 15, 1910.

Application filed October 14, 1909. Serial No. 522,667.

To all whom it may concern:

Be it known that I, RALPH N. ADAMS, a citizen of the United States, residing at Corvallis, in the county of Benton and State of Oregon, have invented certain new and useful Improvements in Woodworking-Tools, of which the following is a specification.

My invention relates to improvements in woodworking tools, and the leading object of my invention is to provide a device to facilitate the cutting of wood at an angle.

A further object of the invention is the provision of a device by which compound angles may readily and quickly be laid out on squared beams.

With these and other objects of a similar nature as hereinafter disclosed in view, my invention consists in a woodworking tool embodying novel features of construction and combination and arrangement of parts for service substantially as described and as illustrated in the accompanying drawings.

Figure 1 represents a perspective view of my device in position on a beam, the tool guiding members both being set at an acute angle to the edge of the beam. Fig. 2 represents a similar view, one of the guides being set at an acute and the other at a right angle to the edge of the beam. Fig. 3 represents a section through the adjustable slides and guiding members, and, Fig. 4 represents a sectional view taken centrally of the stock and slides.

In the drawings: The letter *a* designates a beam, having applied thereto my improved angle marking device. Said device consists of the body portion or stock having the two sides B and C, said sides corresponding in every essential feature and in the drawing being shown as meeting at right angles. It will be understood, however, that if desired they may be constructed to meet at any angle or may be rounded according to the shape of timber upon which the device is to be used. Formed in the inner face of the outer portion of each side is a groove or recess D, while mounted in said recess is an adjustable slide member E, said member E having a central slot F formed therein the face of the slide adjacent to the slot being countersunk to receive the head of the screw or bolt G and permit the head to make a flush joint with the face of the slide. The screw G passes through the stock and is secured on its outer end by the thumb nut H, the screw thus adjustably securing the slide in the recess D and while normally permitting it to move therein serving to lock the slide in any desired position. Secured in the outer end of each of the slides is a second adjustable screw member J similar to the member G, the head being placed on the inner side of the slide, and mounted on the member J and sliding thereon is the indicating or guiding member K, said member having a slot L formed therein in which the screw J moves, the inner face of the guiding member K being of similar conformation to that of the slide in order that the head of the screw may make a flush joint therewith. It will be observed that I have made the ends of the guides K of angular or pointed shape, the object being to permit them to meet more readily at their outer edges, thus enabling the angle formed by said edges to be exactly drawn to the edge of the timber.

From the foregoing description taken in connection with the drawings the construction and operation of my device will be readily understood and its advantages fully appreciated by all having any knowledge of carpentry or woodworking of any character, and it will be seen that on account of the adjustable slides and guides the latter may be set at practically any angle with reference to the timber and each other and by means of the screws G and J be locked in such position and moved along the timber or from one piece to another, while to change the angle it is merely necessary to loosen the thumb nuts.

It will be understood that my device may be made of metal or any suitable substance and if desired the guides may be provided with means for indicating the angle at which they are set, thus obviating the necessity for using a square or other instrument in setting the device.

I claim:

1. A woodworker's tool, comprising a stock having two sides meeting each other at an angle, a longitudinally adjustable member carried by each side of the stock and projecting from one end thereof, means pivotally and adjustably secured to said members, and means for locking the various parts in adjusted position.

2. A tool, having a stock composed of two sides meeting at an angle, slides adjustably secured to said sides and projecting from one end thereof, and guide members hav-

ing angularly pointed ends adjustably secured to the slides, said angular ends permitting the close adjustment of the members with reference to each other.

3. In a woodworker's tool, the combination with a stock comprising two sides meeting at an angle and having a longitudinally disposed groove formed in the work contacting face of each of the sides, of slides mounted in the grooves, and adjustable guide members carried by the ends of the slides.

4. In a woodworker's tool, the combination with a stock comprising two sides meeting at an angle and each having a longitudinally disposed groove formed in its work contacting face, of slides mounted in the grooves, and adjustable guide members carried by the ends of the slides, the depth of said grooves being equal to the thickness of the slide and guide member to permit both the stock and guide member to lie flat upon the work.

5. In a device of the character described, the combination with a stock having a plurality of work contacting converging faces each having a groove formed therein and extending longitudinally thereof, of a slide mounted in each groove, means for adjustably securing said slide in position, the slides being each provided with a slot in which the securing means moves, and a guide member pivotally secured to the outer end of each slide and slidably adjustable with respect thereto.

6. In a device of the character described, the combination with a stock of substantially L-shape in cross-section having a longitudinally extending groove formed at the inner side of each leg of the L, of a pair of members mounted in each of said grooves, said members being of size to make when superposed a flush joint with the face of the stock, and one of each pair of said members being adjustably secured to the stock and the other member being secured to the first and being universally adjustable with respect thereto.

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

RALPH NORTON ADAMS.

Witnesses:
F. B. HASSETT,
W. E. WAREN.