No. 756,594. PATENTED APR. 5, 1904.

W. J. DAVIS.

HIP ROOF FRAMING SQUARE.

APPLICATION FILED JAN. 4, 1904.

NO MODEL.

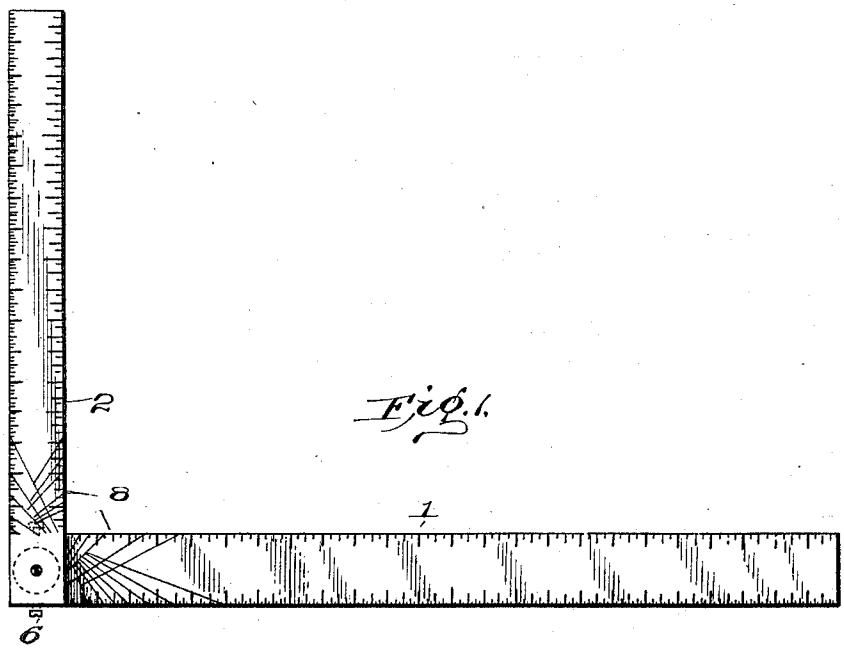

Fig. 1.

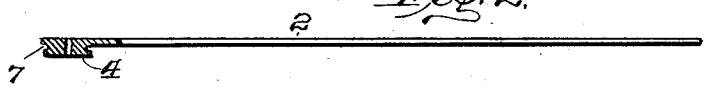

Fig. 2.

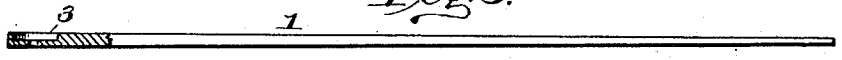

Fig. 3.

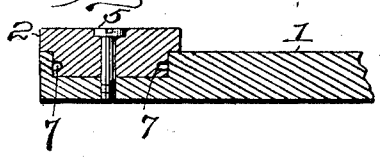

Fig. 4.

WITNESSES:
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No. 756,594. Patented April 5, 1904.

UNITED STATES PATENT OFFICE.

WILLIAM J. DAVIS, OF WASHINGTON, DISTRICT OF COLUMBIA.

HIP-ROOF-FRAMING SQUARE.

SPECIFICATION forming part of Letters Patent No. 756,594, dated April 5, 1904.

Application filed January 4, 1904. Serial No. 187,645. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. DAVIS, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Hip-Roof-Framing Squares; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in what may be termed "hip-roof-framing squares." It has, as indicated, for its object to readily and quickly provide for getting the required angle of measurement in "laying off" the material forming the timbers, rafters, &c., of hip-roof framing.

It consists of an instrument of the character indicated, embracing a blade member and a tongue or base member pivotally connected together and adapted to be relatively adjusted at any required angle and having thereon the requisite indicia or lines and units of angular measurement, substantially as hereinafter more fully disclosed by the following description, and particularly pointed out by the claims concluding said description.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is a general view of the instrument. Fig. 2 is an edge view with the pivotal connection therebetween shown in vertical section. Fig. 3 is a view showing the principal parts thereof disconnected. Fig. 4 is an enlarged detailed view more particularly of the parts constituting the pivotal connection between the blade and tongue or base member.

In the practicing of my invention I provide a blade member 1, preferably two inches in width and twenty-four inches in length, and a tongue or base member 2, say one and a half inches wide and seventeen inches long. Said tongue member and said blade member have at their point of union or angle one a circular or annular socket 3 and the other a corresponding pivot 4, engaging said socket, with a pivot-screw 5 passing therethrough and effecting a pivotal connection between the same to permit of the angular adjustment of said blade with relation to said tongue or base member, as will be further described. Oppositely through the blade where it receives the pivot 4 of the tongue are inserted set or holding screws 6, with their inner tapered ends engaging an annular groove 7, formed laterally in said pivot to provide by suitably manipulating or actuating said set-screws for the effective retention of said tongue and blade members in relatively fixed position after adjustment one upon the other in securing the requisite angular measurement. Upon said tongue or base member and said blade member are produced certain indicia or divergent lines or scores and units of measurement 8 8 tangentially with relation to the pivotal point of connection therebetween, the same being fractions of pitches, as one-fourth, one-third, one-half, two-thirds, three-fourths, representing, say, five different angular or pitch measurements obtainable by this instrument. Also further graduations of one-eighth, one-fourth, one-half, and three-fourths, inches, indicating fractional inches or scale are arranged along the edges of said tongue or base members.

It is noted that by suitably adjusting or moving the blade member upon or with relation to the tongue or base member in accordance or conformity with any of the aforesaid graduations or measurements the requisite pitch may be obtained for laying off or cutting and fitting material as in constructing hip-roof framing, as will be readily appreciated by those skilled in such work.

Latitude is allowed as to details herein, as they may be changed as circumstances suggest without departing from the spirit of my invention and said invention still be protected.

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

1. In a device of the kind described, the combination of a blade provided with a socket, having a central perforation through its bottom, a tongue provided with a pivot adapted to engage said socket, and having a perforation registering with that in the socket, a pivot-screw through the perforation whereby the parts are retained in position and indicia marked on said blade whereby the angular re-

lation of the members may be determined, substantially as set forth.

2. In a device of the kind described, the combination of a blade provided with a socket having a central perforation through its bottom, a tongue provided with a pivot adapted to rotate in said socket and having a perforation registering with that in the socket, a set-screw adapted to engage said perforation whereby the parts are retained in position, indicia marked upon the blade, and means for retaining said socket at any desired angle, substantially as described.

3. In a device of the kind described, the combination of a blade provided with a socket, a tongue provided with a pivot, a screw whereby said parts are held in operative relation, an annular groove formed in said pivot and set-screws adapted to engage said groove and lock the parts at a desired angle indicated by indicia on said blade.

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

WILLIAM J. DAVIS.

Witnesses:
EDWARD J. UNDERWOOD,
ALLEN C. CLARK.