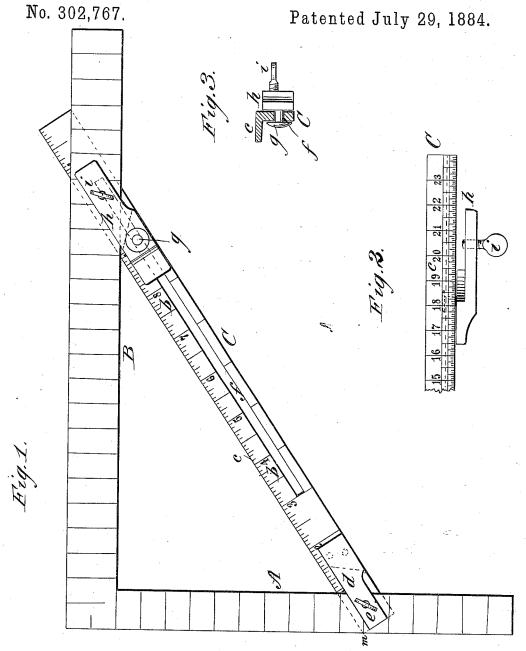
(No Model.)

A. G. OLSON & J. McFARLANE.

ATTACHMENT FOR SQUARES FOR BUILDERS' AND JOINERS' USE.



WITNESSES

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UNITED STATES PATENT OFFICE.

ANDREW G. OLSON AND JOHN McFARLANE, OF DULUTH, MINNESOTA.

ATTACHMENT FOR SQUARES FOR BUILDERS' AND JOINERS' USE.

SPECIFICATION forming part of Letters Patent No. 302,767, dated July 29, 1884.

Application filed April 23, 1884. (No model.)

To all whom it may concern:

Be it known that we, Andrew G. Olson and JOHN McFARLANE, both of Duluth, in the county of St. Louis and State of Minnesota, have invented a new and Improved Attachment for Squares for Builders' and Joiners' Use, of which the following is a full, clear, and exact description.

This invention consists in an adjustable to scale or divided measuring attachment for squares for builders' or carpenters' and joiners' use, whereby increased facilities are afforded for measuring or laying out rafters; also for beveling the toes and heels thereof, likewise 15 for laying out stairs and other purposes or

uses, substantially as hereinafter described. Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate 20 corresponding parts in all the figures.

Figure 1 represents a face view of a square with our improved attachment applied. Fig. 2 is a side view of the attachment in part, and Fig. 3 a transverse section of said attach-

The tongue A and blade B of the square have the usual measurements or divisions on

C is the attachment, which consists of a flat 30 bar or rule having inch-measurements on its face b, with the necessary subdivisions, and a scale of half-inch to the inch on its side, which is constructed to form a fence, c. At the one end of this bar, on the face b thereof, 35 is a fixed elongated open-ended jaw, d, provided with a set-screw, e, and adjustable on and along or over the face of said bar by means of a longitudinal slot, f, in the bar, and a sliding stud or rivet, g, is another elon-40 gated open-ended jaw, h, having a set-screw, i.

To use the attachment for making a rafterpattern, take as many inches on the tongue A of the square as will correspond by scale to the elevation of the roof of the building, and 45 "even" or set the corner m of the attachment to such measurement on the outer longitudinal margin of the tongue, as shown in Fig. 1, the tongue of the square lying in be- and for the purposes specified.

tween the bar and its fixed jaw d. Then take as many inches on the blade B of the square, 50 which passes in between the bar and its adjustable jaw h, as will correspond by scale to one-half the width of the building, and screw down the set-screws e i. This will give the length of the rafter on the face b of the at- 55 tachment at the point where it and the square intersect. The bevels for the toe and heel cuts will be given by placing the square on the rafter with the attachment by the fence c against its face side.

For laying out a brace-pattern, the attachment and square are used in the same way; but for short braces and rafters the scale on the attachment should be one foot for every two inches, to provide for which the scale of 65 two inches to the foot is arranged on the one side.

The device may also be used for laying out the elevation of stairs by taking one inch on the tongue of the square for every inch in 70 height of the rise, then taking as many inches on the blade as there are in the width of the step, and a perfect templet is obtained, far superior to a board, and the trouble of mak-

ing such avoided.

The attachment can be used on all kinds of bevel-work, and in its combination with an ordinary square will be found far superior to a bevel-square.

The ordinary length of the attachment will 80 be twenty-four inches. It may be made of steel, iron, brass, or other suitable material, and of any required thickness.

Having thus described our invention, we claim as new and desire to secure by Letters 85 Patent-

1. The within-described attachment for a right-angled square, having graduations on its tongue and blade, the same consisting of a measuring bar or rule, C, formed with a fence, 90 c, along one edge, provided with a fixed openended jaw, d, at its one end, and an adjustable or sliding open-ended jaw, h, and means applied to said jaws for securing the attachment when set on the square, substantially as 95

2. The longitudinally-slotted measuring-bar C, constructed with a fence, c, along its one edge or side, and having different scales on its slotted face and fence side, in combination with the fixed open-ended jaw d, at the one end of its face, provided with a set-screw, c, and the longitudinally-adjustable or sliding open-ended jaw h, having a set-screw, i, the

whole being adapted for use in connection with a carpenter's and builder's or other like square, 10 essentially as described.

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Witnesses:

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