To all whom it may concern,

Be it known that I, RUDOLPH LEONHART, Jr., a citizen of the United States, residing at Fresno, in the county of Fresno and State of California, have invented a new and useful Carpenter's Bevel, of which the following is a specification.

The invention relates to improvements in carpenters' bevels.

The object of the present invention is to improve the construction of bevel-squares and to provide a simple, inexpensive, and efficient one for enabling carpenters to make all the different cuts of rafters in roof-framing and to make various other miter cuts of different degrees.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a bevel constructed in accordance with this invention. Fig. 2 is a sectional view of the same. Figs. 3 and 4 are detail views of the heads for securing the blade to the stock.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a stock constructed of wood or other suitable material and provided with a longitudinal slot 2, extending inward from one end and adapted to receive a blade 3, which is pivotally connected with the stock and adapted to slide thereon to vary the length of its arms and to project it on either side of the stock, as desired. The blade is provided with a longitudinal opening 4, and it is slidingly and pivotally connected with the stock by means of heads 5 and 6, which are circular, as clearly illustrated in Figs. 3 and 4 of the accompanying drawings, and which are provided at their outer ends with annular flanges 7 and 8. The stock is provided with a circular bearing-opening 9 to receive the circular heads 5 and 6, and the ends 10 of the opening 9 are enlarged for the reception of the annular flanges 7 and 8, the outer faces of the circular heads being flush with the adjacent faces of the stock, as clearly shown in Fig. 2. The heads 5 and 6 are interlocked with each other and with the blade by means of a transverse diametrically-disposed rib or flange 11, extending across the inner face of the circular head 6 and fitting in a corresponding transverse recess 12 of the inner face of the head 5. The rib or flange, which fits in the recess 12, extends through the longitudinal opening 4 of the blade, which is engaged by the inner faces of the heads 5 and 6, and the latter are connected by a screw 13, extending through the head or disk 6 and engaging a threaded opening 14 of the head 6. By adjusting the screw the desired clamping action of the heads on the blades may be obtained, and the said heads may be made to bind to a greater or less extent against the stock, whereby the bevel will be held at the desired adjustment.

The bevel, which is adapted to be used similar to an ordinary bevel, is designed to be provided with a series of scales for indicating the different cuts for rafters and other parts, so that the material may be cut at the proper angle without necessitating any calculation on the part of the workmen. These scales may be arranged in a variety of ways, and in the accompanying drawings the circular heads are each provided at their outer faces with an index-finger 15, operating in connection with a circular scale of the adjacent side face of the stock, and the rounded end 16 of the same may be provided with graduations for increasing the range of the bevel. The graduations may be marked off into degrees and they may also be provided with letters or other characters for designating the various angles; and I desire it to be understood that such changes and others within the scope of the appended claims may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

It will be seen that the bevel is exceedingly simple and inexpensive in construction, that it is strong and durable, and that it is easily operated and readily manipulated to produce the desired frictional engagement between the circular head, the blade, and the stock.

What I claim is—

1. A device of the class described comprising a stock having a slot and provided with a circular opening, a blade passing through the slot and provided with a longitudinal opening,
and the circular heads arranged in the opening of the stock and engaging the same, and the blade, one of the circular heads having a recess, and the other circular head being provided with a flange or rib extending through the opening of the blade and fitting in the said recess, substantially as described.

2. A device of the class described comprising a stock having a slot and provided with a circular bearing-opening enlarged at its ends, the flanged heads arranged in the bearing-opening of the stock and engaging the same, one of the heads being provided with a recess and the other having a transverse rib or flange extending into the recess, a fastening device connecting the heads, and the blade extending through the slot of the stock and interposed between the heads and provided with a longitudinal opening receiving the said rib or flange, substantially as described.

In testimony that I claim the foregoing as my own I have heretofore fixed my signature in the presence of two witnesses.

RUDOLPH LEONHART, Jr.

Witnesses:
L. L. CARY,
A. HARVEY.