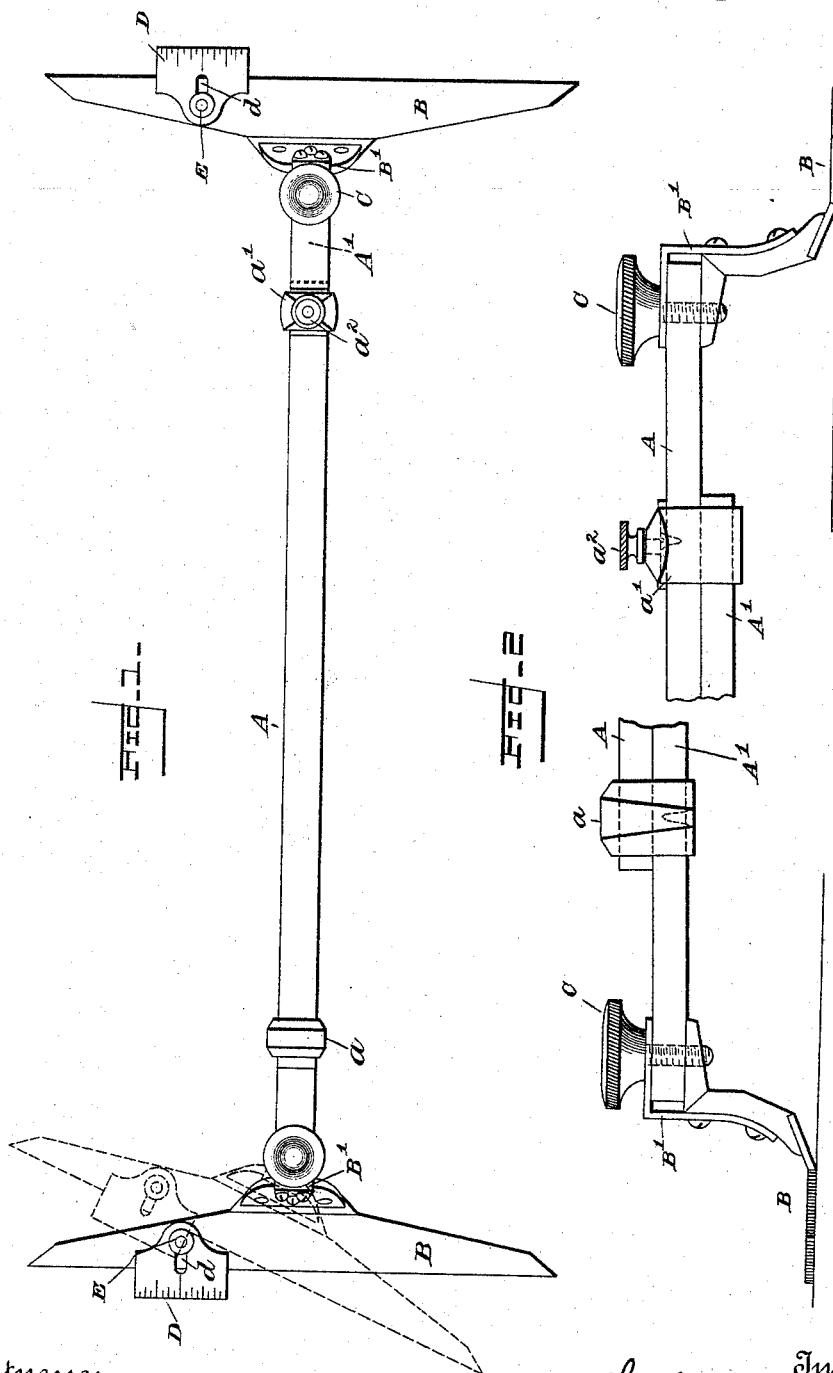


(No Model.)

C. H. SCOTT, C. H. HARVEY & B. R. SCOTT.
BEVEL.

No. 526,638.

Patented Sept. 25, 1894.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES H. SCOTT, CHARLES H. HARVEY, AND BRIGHAM R. SCOTT, OF
FITCHBURG, MASSACHUSETTS.

BEVEL.

SPECIFICATION forming part of Letters Patent No. 526,638, dated September 25, 1894.

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To all whom it may concern:

Be it known that we, CHARLES H. SCOTT, CHARLES H. HARVEY, and BRIGHAM R. SCOTT, citizens of the United States, residing at Fitchburg, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Bevel or Gage Devices; and we 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.

Our invention relates to an improvement in bevels or gages, the object thereof being to provide a cheap and simple device of this character which may be used in various ways for setting off angles or bevels from a straight line or surface by artificers of all kinds in adjusting the abutting surfaces of work with proper inclination and in determining the distance, sizes and proportions in various kinds of building and especially in the exercise of carpentry, the construction of stairways, thresholds of doors, shelving for various purposes and a multitude of other analogous uses.

The invention therefore consists essentially in the construction, arrangement and combination of parts, substantially as will be hereinafter described and claimed.

In the accompanying drawings illustrating our invention: Figure 1 is a plan view of our improved bevel or gage complete. Fig. 2 is a side elevation of the same, a portion thereof being broken away.

Similar letters of reference designate corresponding parts in both figures.

Our improved device for setting off angles or bevels in various ways and for various purposes, comprises essentially two sliding bars A and A' which slide upon each other and are held together by a couple of guides or clamps a a', one of which, as a', is provided with a set screw which clamps firmly upon the bars in order to hold them rigidly together whenever they have been adjusted to the proper length. Of course any desired kind of clamp may be used to hold these bars together. These interrelatively adjustable bars therefore form an extension frame for the device so that the bevel plates at each end thereof may be adjusted nearer together or farther

apart according as the work with which the device is used may require.

To one end of the bar A is attached the plate B, while to the opposite end of the bar A' is attached a similar plate B. These plates B may be of any suitable size and shape, having of course a straight edge as shown. These plates are shaped so that they can lie flat upon a horizontal or other surface, as shown in Fig. 2 and the portions of the plates behind the straight edges are so curved or bent, besides being provided with metallic straps B', as to afford sockets to receive the ends of the bars A and A' respectively as shown, said ends of the bars being held within the said sockets by means of adjustable set screws C C. These set screws permit the plates B B to be adjusted in a horizontal plane so as to regulate the direction of their straight edges. By referring to Fig. 1, which is a top plan view of the device, it will be seen that the bars are situated in a horizontal plane, considerably above the plane in which the plates B B are located and that these plates are arranged so as to be pivotally adjustable around the ends of the bars in the plane in which they lie, which plane is obviously parallel to the plane in which the bars are themselves situated. Thus the straight edges of the plates B B may be adjusted relatively to the direction of the bars A A' and thereby caused to occupy either a right angle or an acute angle or any other angle thereto. A device of this character comprising an extensible frame, provided at each end with an adjustable straight-edged piece, will be found very useful in making shelving when the shelves are to be cut with the ends at different angles. Similarly it will be found very useful in making stair treads or risers either for straight runs or winding stairs; also in cutting down thresholds, the exact angle of cut will be accurately determined by means of this instrument. It is unnecessary to enumerate the many uses to which the device may be put because it will found of great value in the various operations of carpentry as well as in other branches of manufacture.

The plates or blades B are provided with smaller adjustable slides D D. These smaller plates may be of any suitable size and shape. They have straight edges, as shown, which

may be parallel to or at an angle to the straight edges of the plates B. These slides D are slotted at *d* and attached to the faces of the plates B by means of the set screws E, by means of which they are held firmly in any position to which they may be adjusted. The straight edges of the slides D are preferably marked with a scale of inches or other graduations in order that measurements may be thereby determined. By observing the location of these slides upon the blades B it will be evident that they will provide a valuable auxiliary to the blades B, especially for use in the making of thresholds or for other uses where it is desirable to mark or cut a short line or lines parallel to the straight edge of the blade B or at an angle thereto, according as the slide B may be adjusted and secured. These slides are capable of occupying numerous positions relatively to the straight edges of the blades and when we combine their range of adjustment with the wide range of adjustment of the blades themselves it will be manifest that many combinations of lines may be effected so that the device can be regularly applied for many uses.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a bevel device, the combination of the connecting bar or bars, the straight-edged blades provided with sockets which receive the ends of the connecting bar or bars and set screws in said sockets for adjustably holding the blades and permitting their straight edges to be adjusted relatively to the direction of the bar and the supplemental sliding plates on said blades, substantially as specified.

2. In a bevel device, the combination of connecting bars adjustable on each other, the straight-edged plates or blades pivotally attached to the opposite ends of said bars and the supplemental sliding plates on said blades, substantially as specified.

3. In a bevel device, the combination of the extension frame, consisting of bars A A', the blades B having sockets and held by setscrews at the opposite ends of said frame, and the auxiliary scale-provided plates secured upon the blades, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

CHARLES H. SCOTT.
CHARLES H. HARVEY.
BRIGHAM R. SCOTT.

Witnesses:

ALEC BOCHNELL,
J. H. McDONOUGH.