(No Model.) 2 Sheets—Sheet 1.

J. F. CRESS.

ADJUSTABLE BEVEL.

No. 593,987. Patented Nov. 23, 1897.

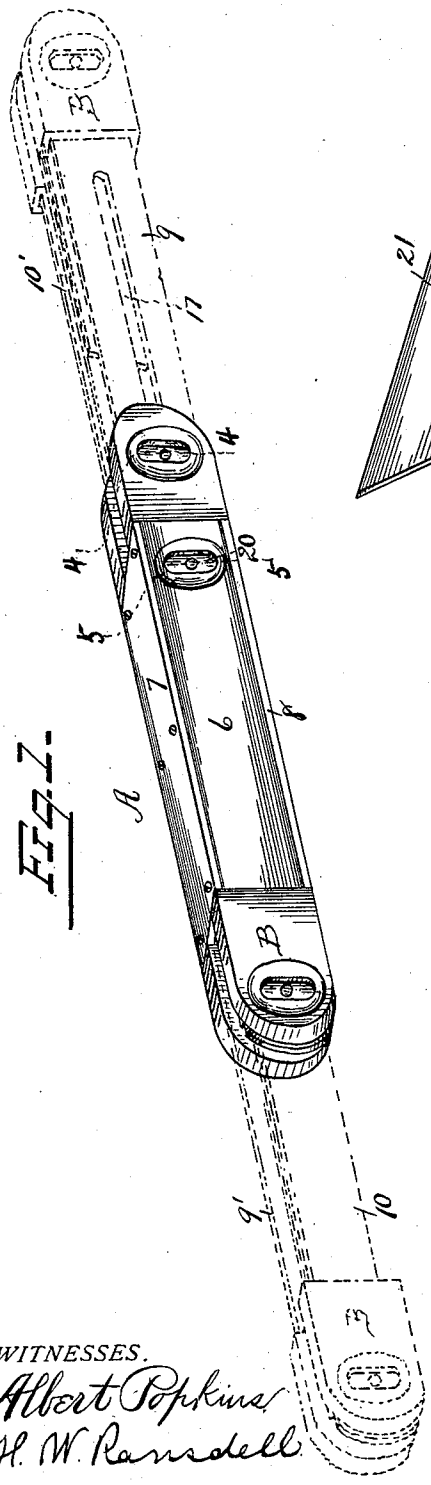


Fig. 1.

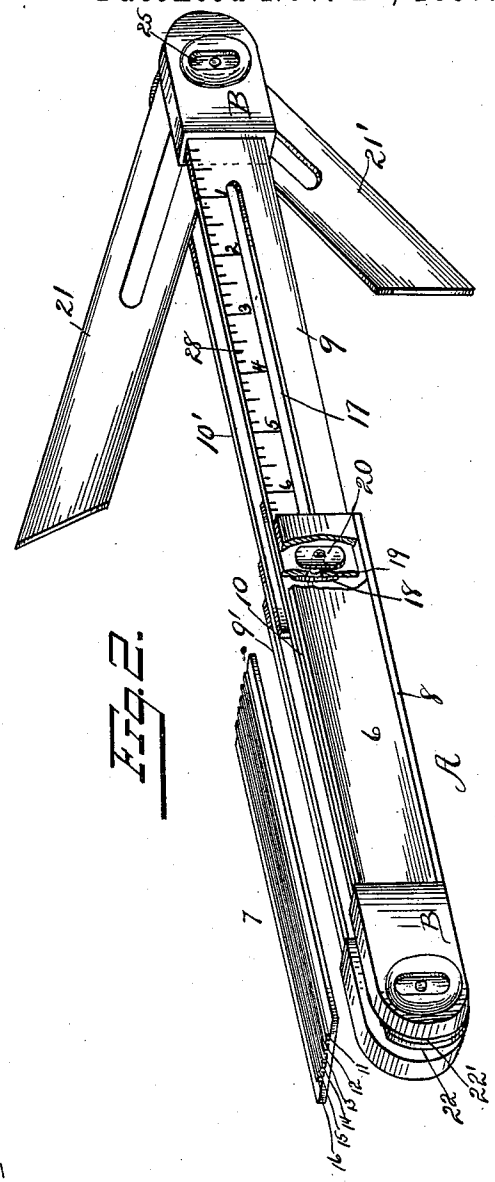


Fig. 2.

WITNESSES.
Albert Popkins
H. W. Ransdell

INVENTOR
John F. Cress.
By. J. M. Wale
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

(No Model.) 2 Sheets—Sheet 2.

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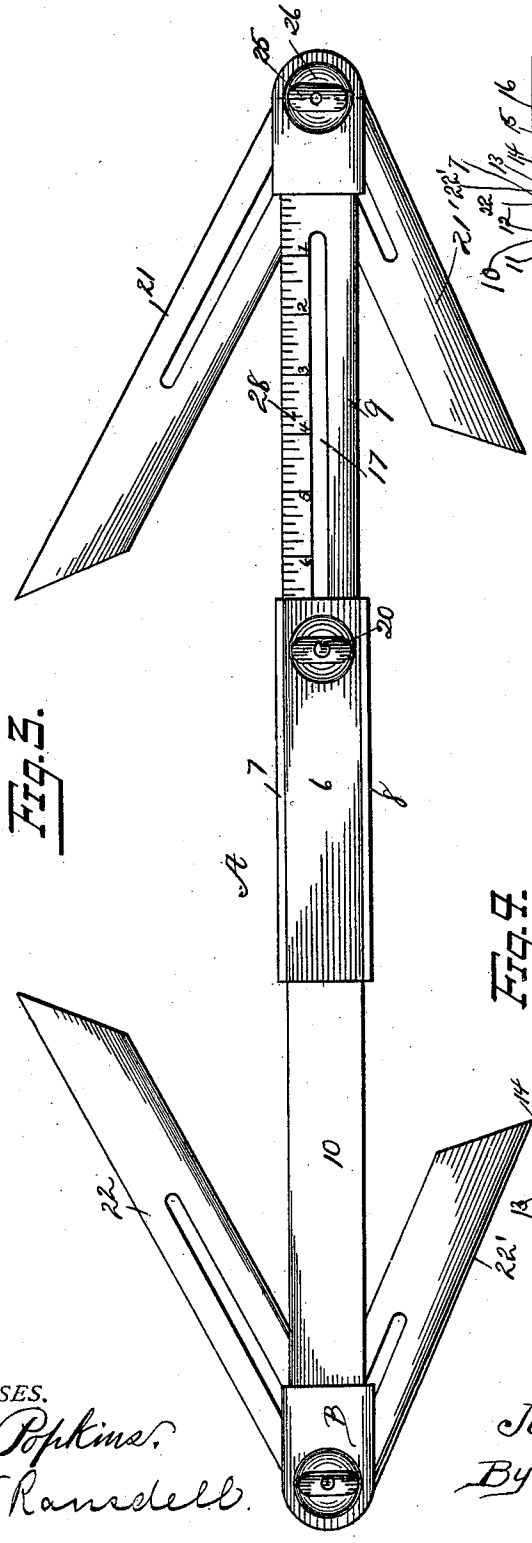


Fig. 3.

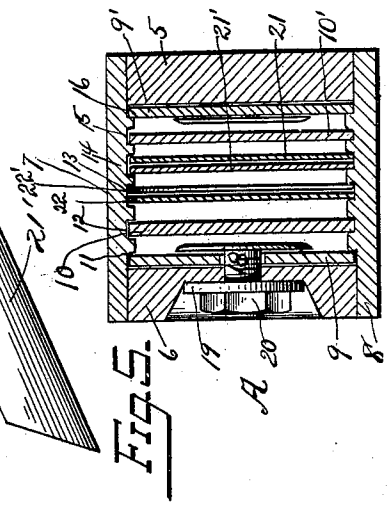


Fig. 5.

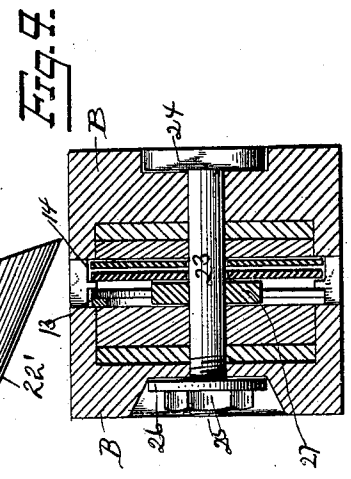


Fig. 4.

WITNESSES.
Albert Popkins.
H. W. Ransdell.

INVENTOR
John F. Cress.
By. A. M. Wale
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN F. CRESS, OF MAHANOY CITY, PENNSYLVANIA.

ADJUSTABLE BEVEL.

SPECIFICATION forming part of Letters Patent No. 593,987, dated November 23, 1897.

Application filed April 28, 1897. Serial No. 634,231. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. CRESS, a citizen of the United States, residing at Mahanoy City, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Bevels, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is the construction of an inexpensive and compact double-extension bevel susceptible of having two or more blades at each end of the case by which two bevels may be taken at one and the same time, with means to take lineal measurements, the blades to be housed within the case when not in use; and I attain my objects by the mechanical means hereinafter described and claimed.

In the drawings, Figure 1 is an isometric view of my device, the blades housed, but shown extended and ready for use in dotted lines. Fig. 2 is an isometric view thereof, partly in section, the top of the housing removed and turned over, the blades at one end withdrawn from the case. Fig. 3 is a side view, the blades extended from the case and displayed. Fig. 4 is a section through line 4 4 of Fig. 1. Fig. 5 is a section through line 5 5 of Fig. 1.

Like characters of reference indicate the same parts in the views.

The case A consists of the sides 5 and 6, the top 7, and a bottom 8, which is the duplicate of top 7. The top and bottom are rigidly attached to the sides by screws. The heads B have rigidly attached thereto the guides 9 9′ and 10 10′, which extend inwardly and conform to and operate respectively in the grooves 11 16 and 12 and 15, located in the top and bottom of the case for their reception. The guides 9 9′ each have the slot 17 for the reception in each of the flat-headed bolts 18, having a rectangular shank and carrying the washers 19 and countersunk nuts 20 on the outer side to form a stop in the outward extension of heads B and rigidly hold the head at any desired point under the limit of its extension. I do not confine myself, however, to the use of the described washers, because if the sides of the case be constructed of metal the washers may be dispensed with. The slotted blades 21 21′ and 22 22′ are adjustable upon the bolts 23, which are held from turning in place by the elongated countersunk bolt-heads 24. The blades are adjusted at any desired angle by means of the nuts 25 on the end of the bolts 23, Fig. 4, operating against washer 26 or operating against sides of heads B, if washers are dispensed with. The blades are held from undesired lateral movement in the head by the blocks 27, through which the bolts 23 pass. The blades 21 21′ and 22 22′ conform to and may be operated in grooves 13 and 14, respectively located in the top and bottom of the case for the reception of the blades when housed within the case. The guides 9 9′ carry a scale in inches and parts of inches, as shown at 28, for use as the operator of the device may find the same convenient.

The operation of my device is as follows: By a pull on the heads B the blades may be drawn out of the case. The heads may be rigidly held at any desired distance within the length of the guides 9 9′ by pressure applied to the guides against the side of the case through the nuts 20 on the ends of the bolts 18, the inner bearing being supplied by the flat head of the bolts. The operation of the blades is plainly apparent.

Having described my invention, I claim—

1. In a bevel in combination with a case having grooves, a blade pivotally attached to a head at one end and arranged to fold backward in line with the guide and to enter the grooves in the case to house the blade, as and for the purposes set forth.

2. In a bevel a housing-case provided with multiplex grooves for the reception of guides and blades attached to heads at each end of the case, guides rigidly attached to the heads and operating within the grooves, means to regulate the extension of the heads carrying the blades, slotted blades adjustable in the heads and arranged to fold backward in line with the guides and to enter the grooves in the case, means for holding the blades in adjustment at a desired angle and means for regulating the extension of the guides, as and for the purposes set forth.

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

JOHN F. CRESS.

Witnesses:

JAMES B. REILLY,

H. K. WESTON.