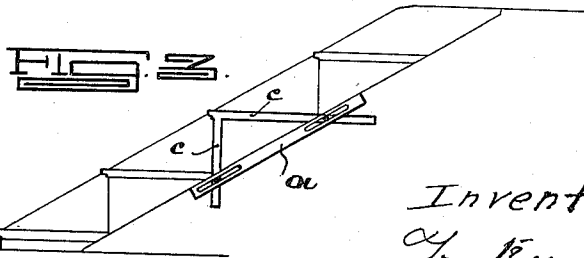
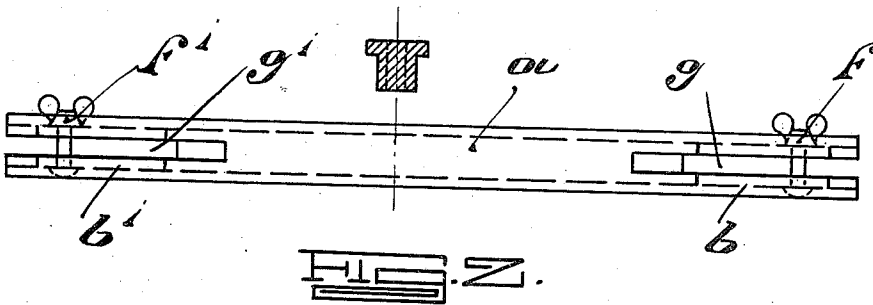
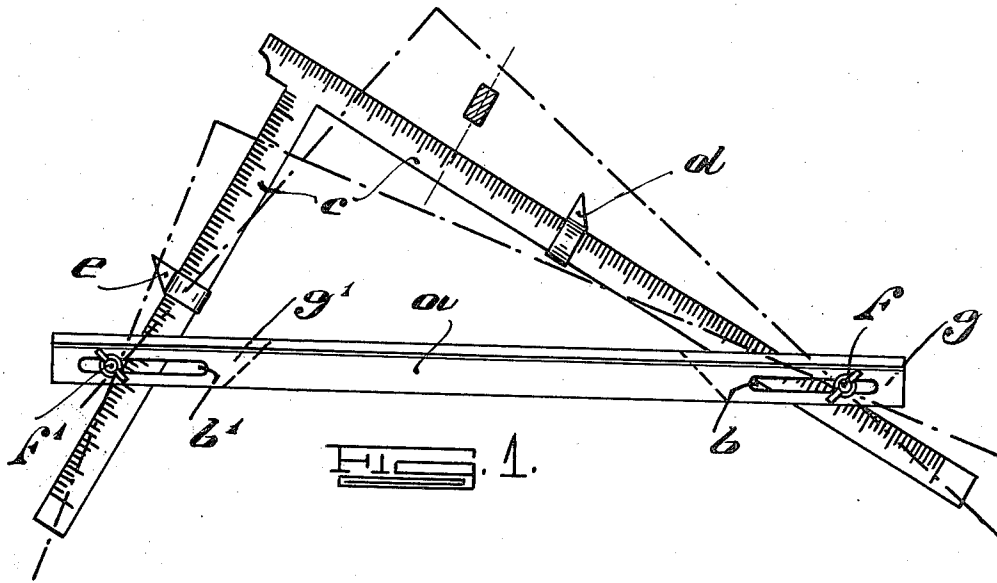


J. BRANDL.
BEVEL PROTRACTOR.
APPLICATION FILED FEB. 3, 1912.

1,028,425.

Patented June 4, 1912.



Witnesses.
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JOSEF BRANDL, OF NEUNUHSBERG, GERMANY.

BEVEL-PROTRACTOR.

1,028,425.

Specification of Letters Patent.

Patented June 4, 1912.

Application filed February 3, 1912. Serial No. 675,314.

To all whom it may concern:

Be it known that I, JOSEF BRANDL, a subject of the German Emperor, and resident of Neunhuhsberg, Bavaria, Germany, have
5 invented a Bevel-Protractor, of which the following is a specification.

The present invention relates to a bevel protractor for joiners. Said protractor is shown in the accompanying drawings, in
10 which:

Figure 1 is a lateral view. Fig. 2 a top view of the protractor, while Fig. 3 shows the protractor when applied for chalking out a notch board of a stair case.

15 The object of the invention is a needful tool for joiners, carpenters and other mechanics. It is substantially composed of a board or ruler *a* provided on each end with a slot *g*, *g*¹ and a longitudinal slot *b*, *b*¹.
20 In said slots *g*, *g*¹ are engaged the sides of a right angle *c* which may be freely displaced therein. Both sides or arms of said angle *c* are provided with a division in millimeters. If it is desired to draw a certain angle on a
25 piece of wood, the indicators *d* and *e* are placed on the prescribed measure, the angle is fixed in both slots *g*, *g*¹ by means of both thumb screws *f*, *f*¹ sliding in longitudinal slots *b*, *b*¹ and then the desired angle
30 is chalked out.

This protractor may be specially used for constructing staircases, for getting very correct and equal steps, that is to say equal
35 width.

Every desired angle may be drawn with the above described tool and therefore it is also used for other purposes by the joiner. Said tool is more especially practical when the sides of the angles measure respectively
40 400 millimeters and 250 millimeters.

The tool may be made of any metal or of wood.

Having now fully described my said invention what I claim and desire to secure by
45 Letters Patent is:—

A bevel protractor characterized by a board or ruler *a* provided at its ends with longitudinal slots *b*, *b*¹ in which may slide the thumb screws *f*, *f*¹ and slots *g*, *g*¹ in
50 which both sides *c*, *c*, graduated in millimeters and secured together exactly at 90°, are slidably guided and may be fixed in any desired position by means of the thumb
55 screws *f*, *f*¹, while the sides *c*, *c* of the right angle are each provided with an indicator *d*, *e*, which indicators are slidable over said sides *c*, *c*, said tool being especially fit for getting the accurate height and width of the
60 steps when constructing stair-cases.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOS. BRANDL.

Witnesses:

A. V. W. Cox, Jr.,
RICHARD LEMP.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."