J. V. MANZ.

COMPASS RULER.

APPLICATION FILED MAY 6, 1910.

983,830. Patented Feb. 7, 1911.

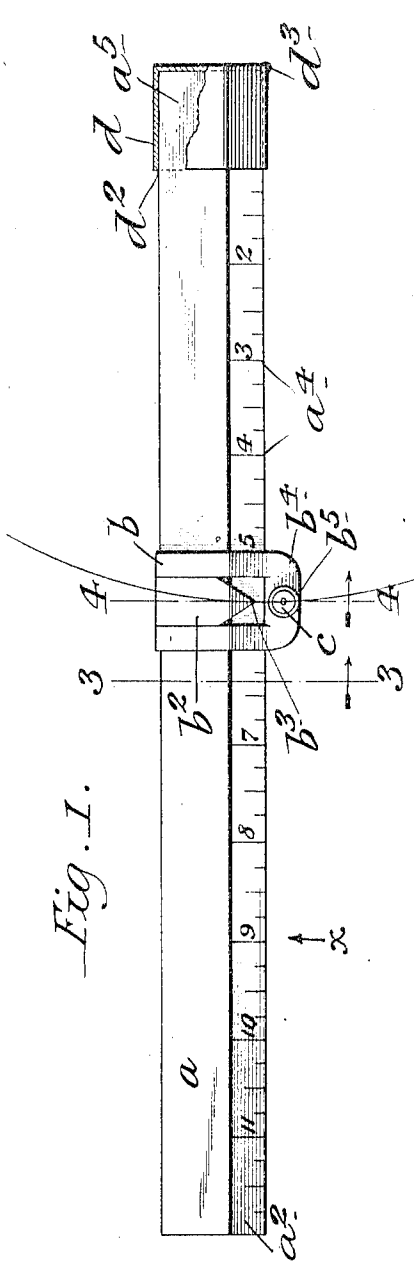

Fig. 1.

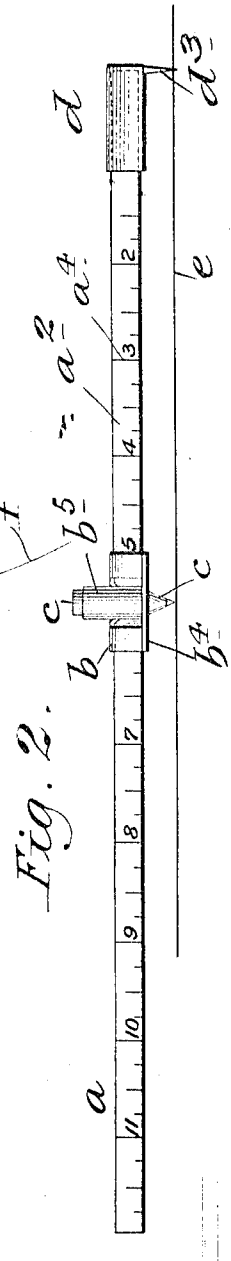

Fig. 2.

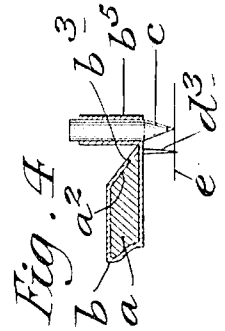

Fig. 4.

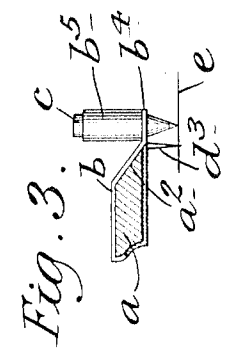

Fig. 3.

WITNESSES:

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COMPASS-RULER.

983,830. Specification of Letters Patent. Patented Feb. 7, 1911.

Application filed May 6, 1910. Serial No. 559,805.

To all whom it may concern:

Be it known that I, JAMES V. MANZ, a citizen of the United States, and residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Compass-Rulers, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to carpenters' tools and particularly to rulers, and the object thereof is to provide a device of this class with attachments whereby it may be used as a compass ruler or for the purpose of drawing circles, the arcs of circles and various other figures or designs.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which;—

Figure 1 is a plan view of an ordinary carpenter's ruler provided with my improvement, part of the construction being broken away; Fig. 2 a front view looking in the direction of the arrow x of Fig. 1; Fig. 3 a transverse section on the line 3—3 of Fig. 1, and; Fig. 4 a transverse section on the line 4—4 of Fig. 1.

In the drawing forming part of this specification I have shown at a an ordinary ruler, one side edge of said ruler being beveled as shown at a^2, the beveled surface thus formed being provided with a scale a^4 representing inches and fractions thereof.

In the practice of my invention I provide a slide b which is longitudinally movable on the ruler a, and which is made of spring metal and so formed that when one end of the ruler is passed therethrough the slide may be adjusted on said ruler and will remain in the adjusted position until sufficient force is applied thereto to readjust it or move it longitudinally on the ruler.

The slide b is provided in the top surface thereof with a central tongue b^2 which extends toward the front edge of the ruler and the front end of said tongue is formed into a pointer b^3 which operates in connection with the scale marks of the scale a^4 and said slide b is also provided with a front extension b^4 having a vertically arranged pencil holder b^5 adapted to receive a pencil c. I also provide a thimble or cap-shaped end attachment d for the ruler a, and this attachment may be stamped from sheet metal or may be made in any desired manner. The attachment d is open at one end as shown at d^2, and adapted to receive the end a^5 of the ruler a, and at the frontside or edge of the attachment b and at the end thereof is prong d^3 adapted to be forced into a board, table or other support and through a sheet of paper or other material e which may be placed on said board, table or other support.

The use of this device will be readily understood from the foregoing description when taken in connection with the accompanying drawing and the following statement thereof.

If it be desired to draw circles or other figures on a sheet e of paper or other material the said sheet e of paper or other material is placed on a table or other support. The prong or bar d^3 is forced through the paper into the table or other support and the slide b having been adjusted into the desired position a circle may be drawn by simply swinging or turning the ruler a with the prong or bar d^3 serving as a pivot and a circle, a part of which is shown at f may be quickly drawn as will be readily understood.

By adjusting the slide b on the rule a circles or parts of circles of any desired dimensions may be drawn, and in order that the dimensions of a circle drawn in this manner may be exact it will be understood that the holder b^5 of the pencil c must be located on the arc of the same circle as the pointer b^3 of the slide b, and the prong or bar d^3 should be located at the beginning of the scale when the attachment d is in position.

It will be understood, that the slide b and attachment d are both detachable and may be placed in position on the rule for use or removed therefrom whenever desired and the ruler used as an ordinary device of this class whenever necessary.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is;—

A ruler composed of a single piece of predetermined length and provided at one side edge with a scale, a slide adapted to be passed on over one end of said ruler and to be adjusted thereon, said slide being pro-

vided centrally of one side edge thereof with a pencil holder and being also provided centrally thereof with a pointer which operates in connection with said scale, and an end cap into which one end of said ruler is adapted to be inserted, said cap being provided with a prong which when said cap is in position on the ruler is at the end of the scale, and the pointer of the slide and the center of the pencil holder of the slide being on the arc of a circle, the center of which is at said prong.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 3rd day of May 1910.

JAMES V. MANZ.

Witnesses:
C. E. MULREANY,
B. M. RYERSON.