

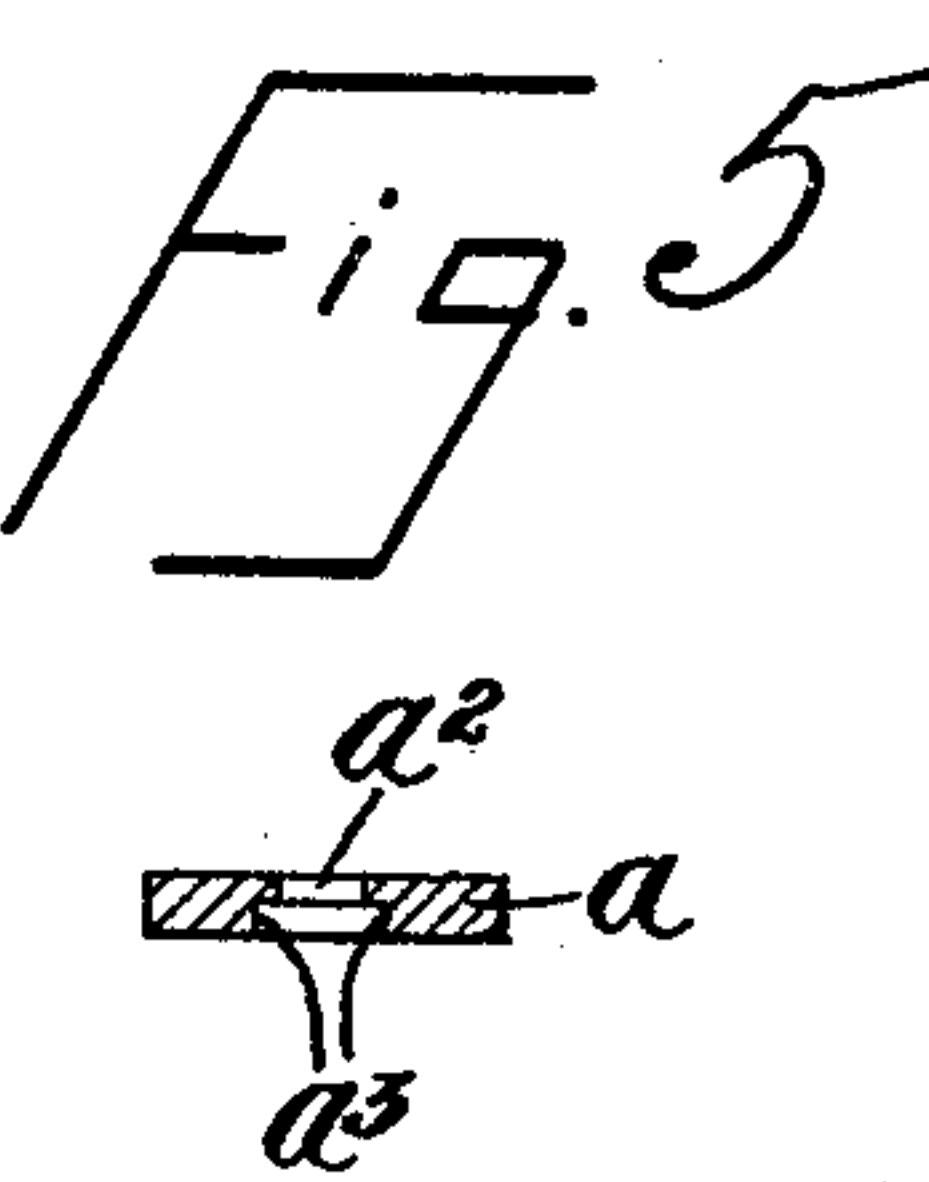
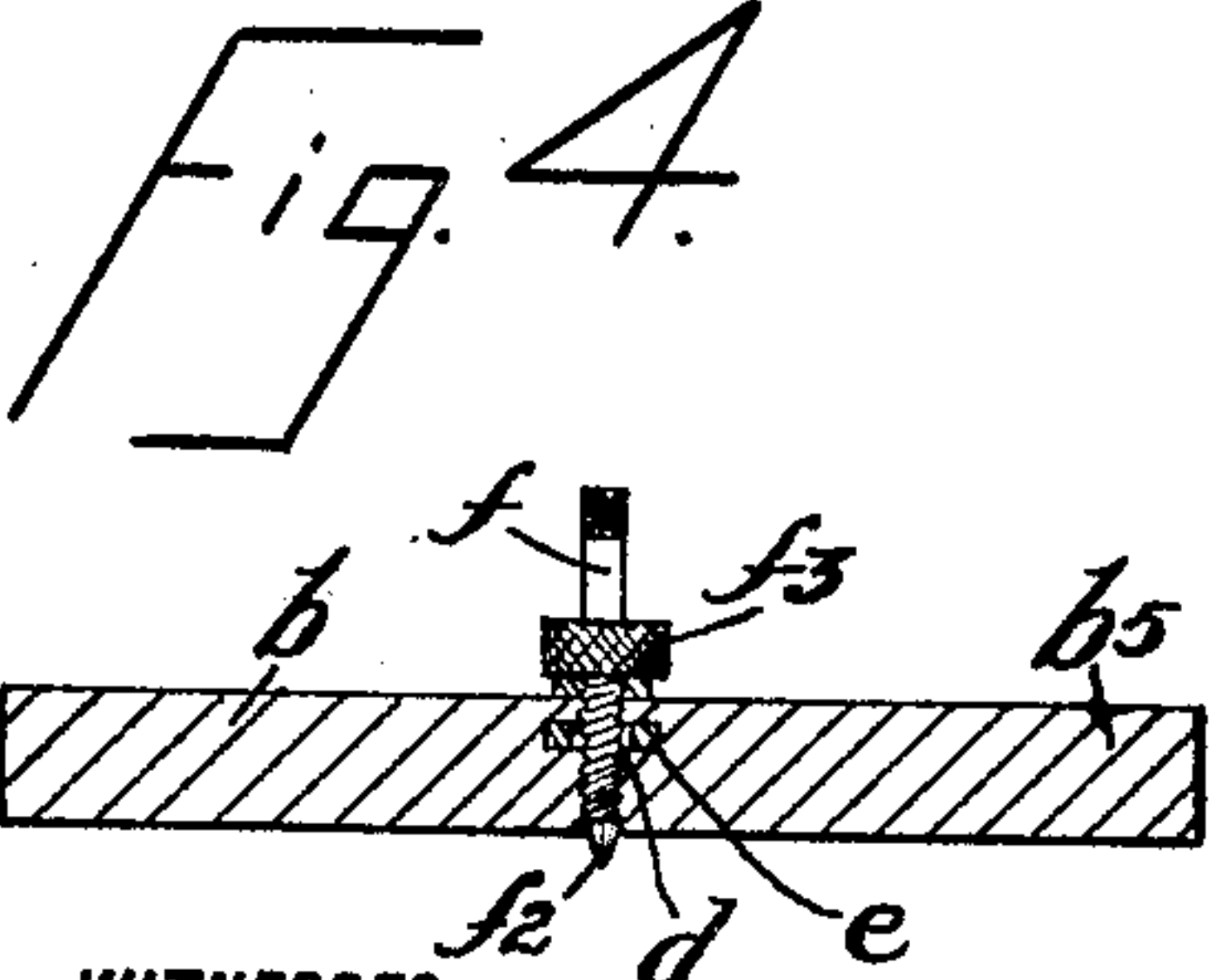
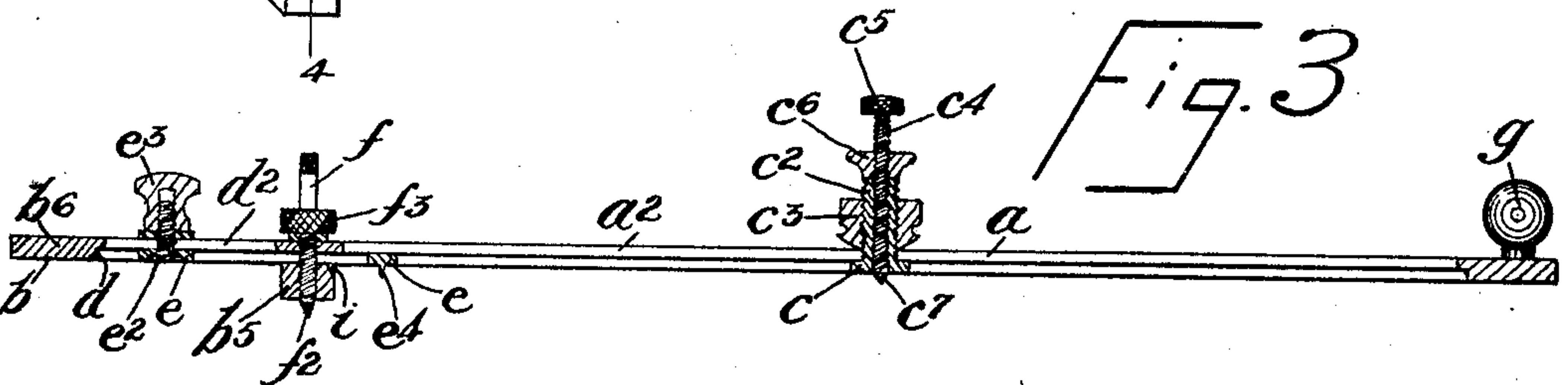
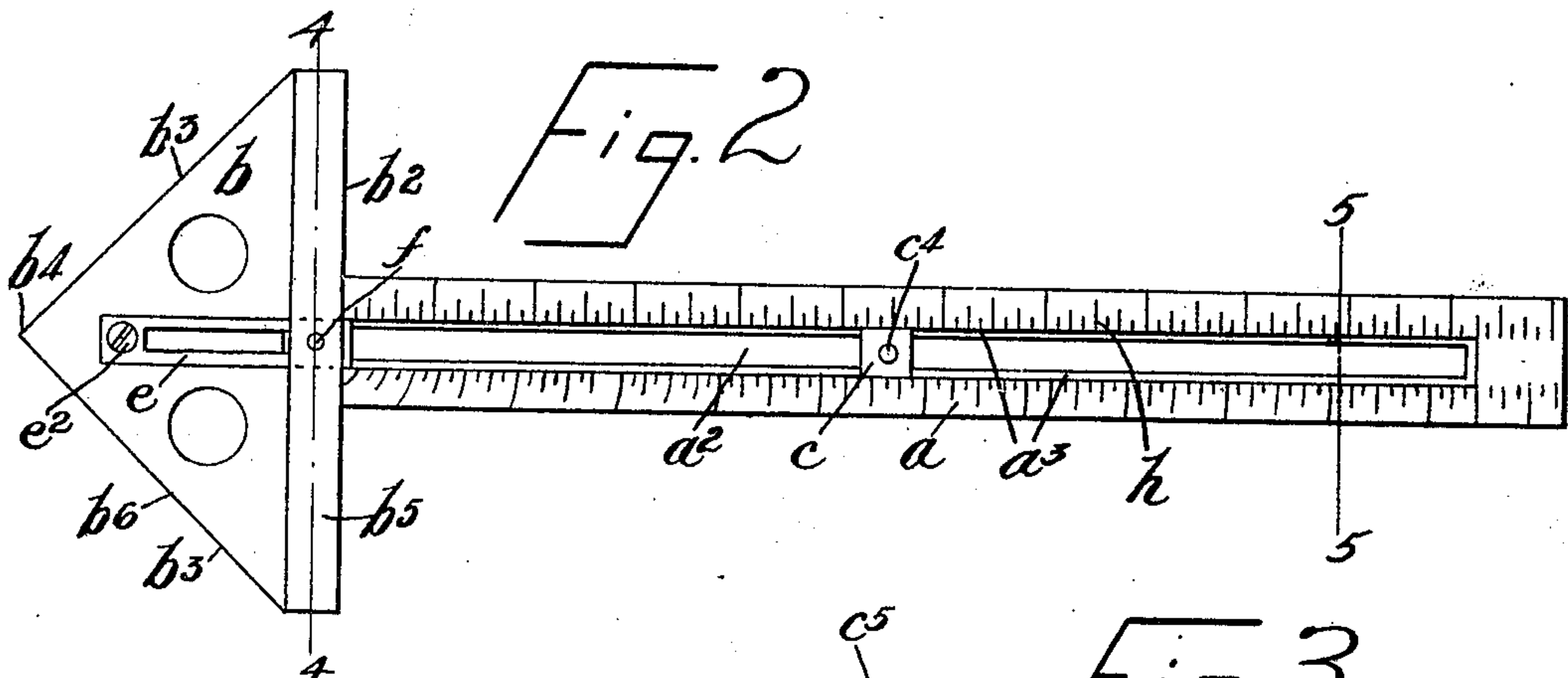
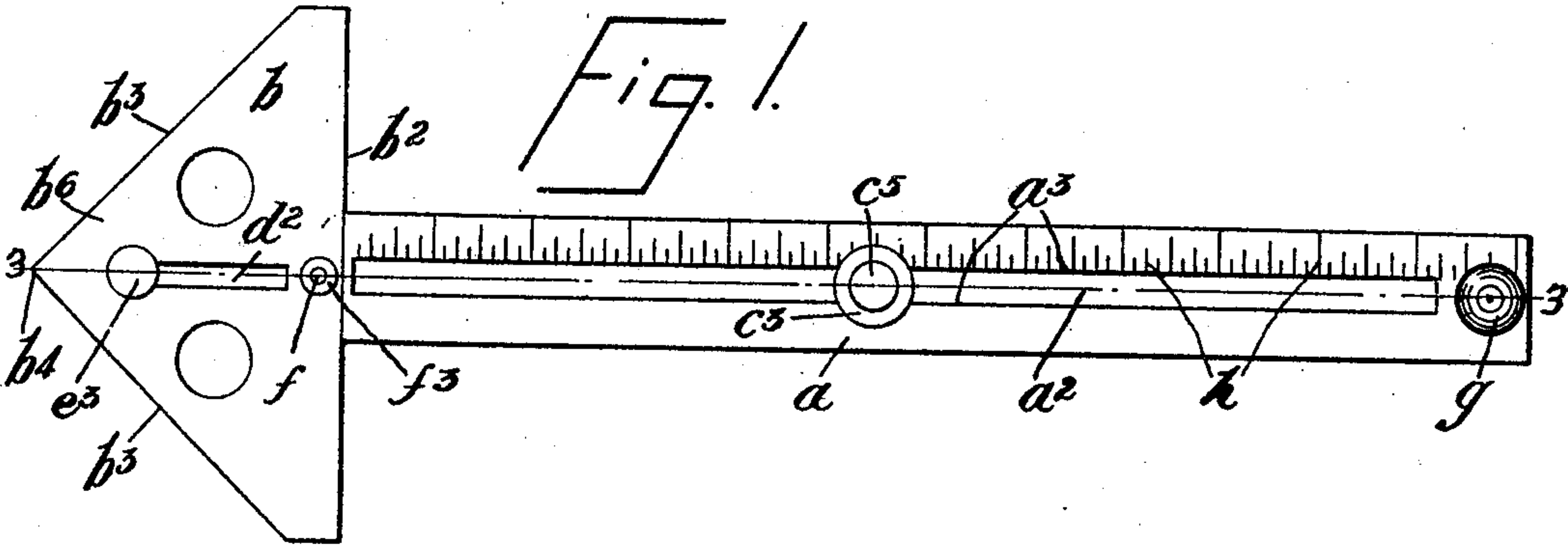
No. 799,474.

PATENTED SEPT. 12, 1905.

J. A. LARSON & C. A. BRAGE.

CARPENTER'S TOOL.

APPLICATION FILED MAY 12, 1905.



WITNESSES

J. A. Larson
J. A. Stewart

INVENTORS

John Aron Larson
Carl August Brage

BY

Edgar Tate & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN ARON LARSON AND CARL AUGUST BRAGE, OF STAMFORD, CONNECTICUT.

CARPENTER'S TOOL.

No. 799,474.

Specification of Letters Patent.

Patented Sept. 12, 1905.

Application filed May 12, 1905. Serial No. 260,148.

To all whom it may concern:

Be it known that we, JOHN ARON LARSON and CARL AUGUST BRAGE, citizens of the United States, residing at Stamford, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Carpenters' Tools, 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 the object thereof is to provide a device of this class which may be used as a miter, circle-inscriber, square, rule, single or double gage, T-square, and for various other purposes; and with this and other objects in view the invention consists in a tool of the class specified constructed as herein described and claimed.

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

Figure 1 is a plan view of our improved tool; Fig. 2, a bottom plan view thereof; Fig. 3, a section on the line 3 3 of Fig. 1; Fig. 4, a section on the line 4 4 of Fig. 2, and Fig. 5 a section on the line 5 5 of Fig. 2.

In the practice of our invention we provide a scale-bar a , having a triangular head portion b , provided with a straight face b^2 and converging side or end portions b^3 , which form a right-angled apex b^4 in line with the central line of the scale-bar a , and the head b is preferably composed of a transverse bar member b^5 , as shown in Figs. 2, 3, and 4, and a flat backwardly-directed member b^6 of much less thickness than the bar member b^5 and the top surface of which is flush with the top surface of the scale-bar a .

The scale-bar a is provided with a longitudinal central slot a^2 , the under side of which is provided, in the opposite sides thereof, with longitudinal rabbet-grooves a^3 , in which is mounted a slide c , having a screw-threaded shank c^2 , which passes upwardly through the slot a^2 and is provided with a nut c^3 , and a screw c^4 passes through the shank c^2 and through the slide c and is provided at its upper end with a milled head c^5 , and mounted on the screw c^4 is a set-nut c^6 , and the lower end of the screw c^4 is pointed, as shown at c^7 .

The bottom portion of the slot a^2 in the scale-bar a extends backwardly through the cross-bar b^5 of the head b and through the part b^6 of the head b , as shown at d , and the slot or opening d in the part b^6 of the head b opens upwardly through said slot by means of a slot or opening d^2 , and mounted in the slot or opening d is a supplemental slide e , provided at its rear end with a screw e^2 , which passes upwardly through the slot or opening d^2 and is provided with a thumb-and-finger set-screw e^3 , and the front end of the slide e is provided with a depending pin, point, or tooth e^4 , which serves as a gage device in gaging lumber and for similar purposes, and the lower end e^7 of the screw e^4 also serves as a gage device in gaging lumber, and passing downwardly through the part b^5 of the head b is a screw f , the lower end of which is pointed, as shown at f^2 , and said screw is provided above the head b with a set-nut f^3 , and the screw f also passes through the supplemental slide e .

The outer end of the scale-bar a is provided with a knob or handle g , and the operation of the device will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof. The upper side of the scale-bar a is provided with a scale h adjacent to the slot or opening a^2 , and this scale serves as means for regulating the position of the slide c and also the slide e when desired in the operation of gaging lumber, and by means of the scale h the position of the slide c may be regulated, so as to form a circle of any desired diameter, the pointed end of the screw f serving as a pivot on which the device is turned and which fixes the center of the circle.

The front side of the bar b^5 is provided with a recess i , adapted to receive the pin or tooth e^4 on the slide e when said slide is moved to the limit of its backward movement, and in gaging lumber the cross-bar b^5 is placed against the side of a piece of lumber to be gaged, and either the slide e or c may be used for single-gaging or both of said slides may be used for double-gaging.

It will also be seen that our improved tool may be used in the manner of a T-square and for the purpose of forming right angles and for various other purposes hereinbefore specified, and the scale-bar a may be provided with

other scales, if desired, and be made to serve as a rule for any purpose, and in the construction shown the scale h is placed both on the top and bottom of said bar.

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

1. A tool of the class described, comprising a scale-bar provided at one end with a cross-head having a backwardly-directed extension, 10 said scale-bar being provided with a longitudinal slot or opening which extends partially through said cross-head, a slide mounted in the slot or opening in the scale-bar, a supplemental slide mounted in the extension of said 15 slot or opening in the cross-head, said first-named slide being provided with a point, and the supplemental slide being also provided with a point both of which are directed downwardly, means for holding the slide in the desired position, and the supplemental slide, and 20 a screw passing centrally and downwardly through the cross-head and through the supplemental slide and provided at its lower end with a point, substantially as shown and described.

2. A tool of the class described, comprising a scale-bar provided at one end with a cross-head having a backwardly-directed extension, 30 said scale-bar being provided with a longitudinal slot or opening which extends partially through said cross-head, a slide mounted in the slot or opening in the scale-bar, a supplemental slide mounted in the extension of said 35 slot or opening in the cross-head, said first-named slide being provided with a point, and the supplemental slide being also provided with a point both of which are directed downwardly, means for holding the slide in the desired position, and the supplemental slide, and 40 a screw passing centrally and downwardly through the cross-head and through the supplemental slide and provided at its lower end with a point, the said scale-bar being provided 45 adjacent to the slot or opening therein with a scale, substantially as shown and described.

3. A tool of the class described, comprising

a scale-bar provided at the one end with a cross-head having a backwardly-directed extension, said scale-bar being provided with a longitudinal slot or opening which extends partially 50 through said cross-head, a slide mounted in the slot or opening in the scale-bar, a supplemental slide mounted in the extension of said slot or opening in the cross-head, said first-named slide being provided with a point, and the supplemental slide being also provided 55 with a point both of which are directed downwardly, means for holding the slide in the desired position, and the supplemental slide, and a screw passing centrally and downwardly 60 through the cross-head and through the supplemental slide and provided at its lower end with a point, the said scale-bar being provided adjacent to the slot or opening therein with a 65 scale, and the cross-head being provided with right-angled sides which meet in line with the central line of the scale-bar, substantially as shown and described.

4. A tool of the class described, comprising 70 a scale-bar provided at one end with a cross-head, said scale-bar being provided with a central longitudinal slot or opening which extends backwardly into the cross-head, a slide mounted in the slot or opening in the scale-bar, a 75 supplemental slide mounted in that part of said slot or opening which extends into the cross-head, both of said slides being provided with downwardly-directed points, and the cross-head being provided with a screw which 80 passes downwardly therethrough adjacent to the end of the scale-bar and through the supplemental slide, substantially as shown and described.

In testimony that we claim the foregoing as 85 our invention we have signed our names, in presence of the subscribing witnesses, this 10th day of May, 1905.

JOHN ARON LARSON.
CARL AUGUST BRAGE.

Witnesses:

EDWARD OVERTON JANSEN,
SAMUEL YOUNG.