No. 736,168.

PATENTED AUG. 11, 1903.

D. W. STINSON.

SPACING INSTRUMENT.

APPLICATION FILED JULY 21, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1.

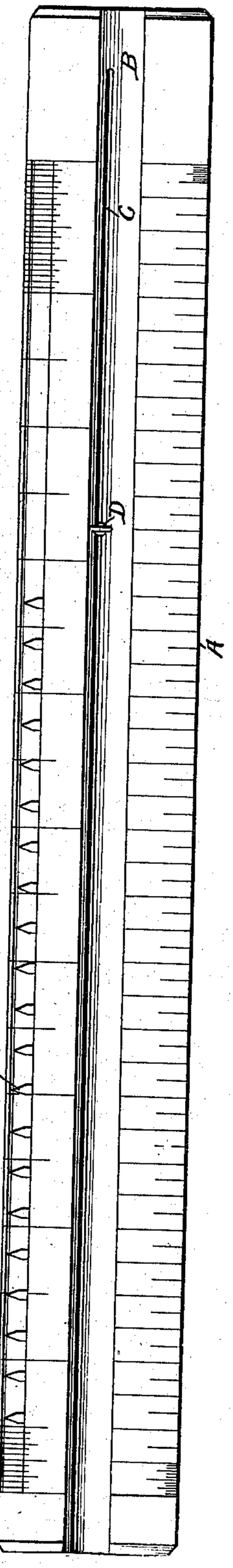
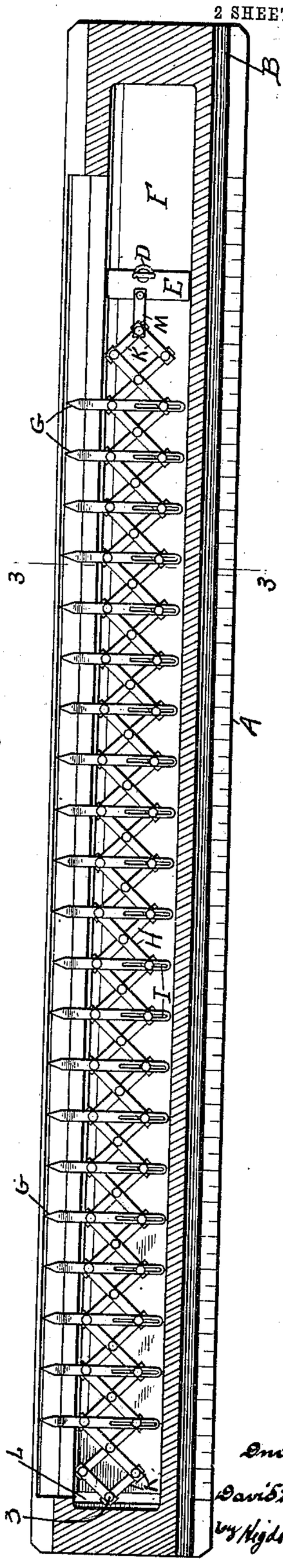


Fig. 2.



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APPLICATION FILED JULY 21, 1902.

NO MODEL. 2 SHEETS—SHEET 2.

Fig. 3.

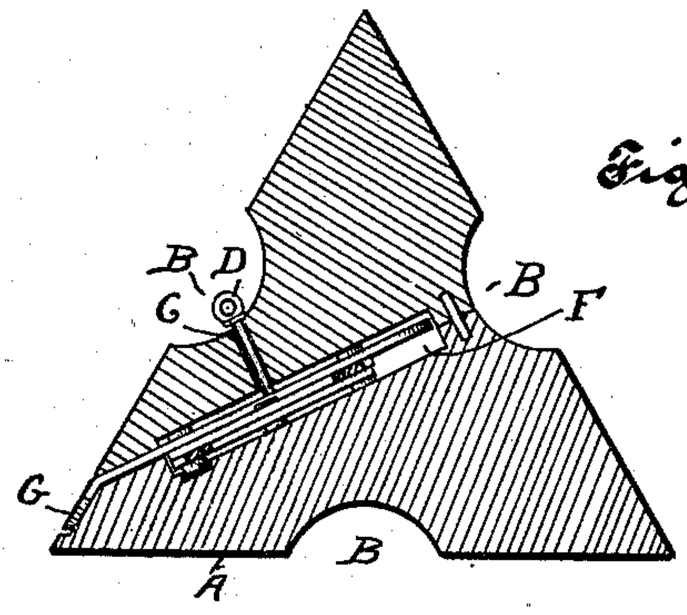

Fig. 4.

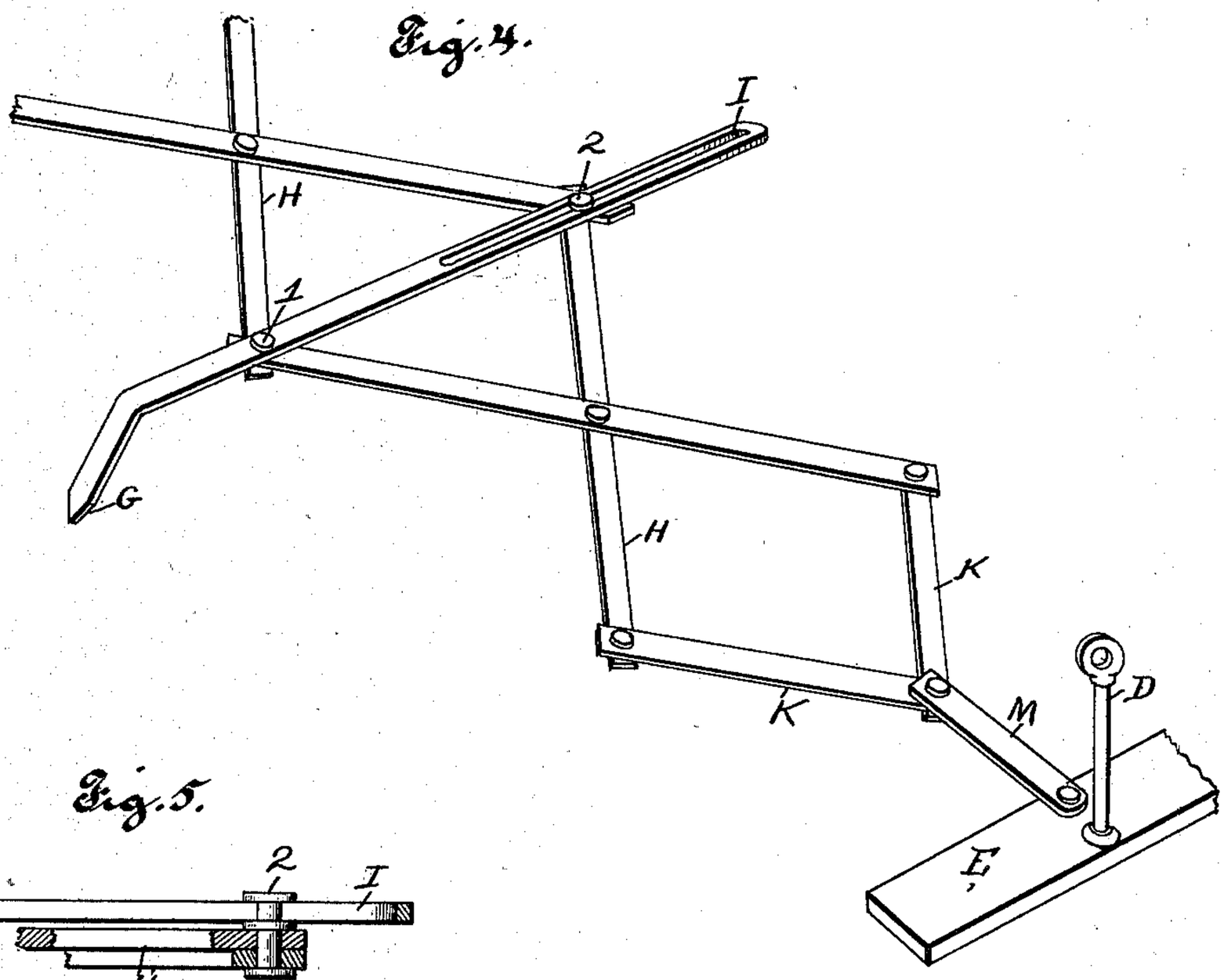

Fig. 5.

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No. 736,168. Patented August 11, 1903.

UNITED STATES PATENT OFFICE.

DAVID W. STINSON, OF ST. LOUIS, MISSOURI.

SPACING INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 736,168, dated August 11, 1903.

Application filed July 21, 1902. Serial No. 116,367. (No model.)

To all whom it may concern:

Be it known that I, DAVID W. STINSON, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Spacing Instruments, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to certain improvements in spacing and dividing instruments, and has for its purpose to provide means for dividing any desired length of line into any desired number of equal spaces.

It consists in the novel construction and combination of the parts hereinafter fully described and claimed.

Figure 1 is a top plan view showing the application to an engineer's scale. Fig. 2 is a longitudinal section of same. Fig. 3 is a vertical section on the line 3 3, Fig. 2. Figs. 4 and 5 are details of construction.

My invention is applicable to the ordinary scale or may be used independently and is to be used wherever it is desired to divide any given line into any given number of equal spaces.

A is a drafting-scale having the semicircular depression B throughout its length.

C is a longitudinal slot which serves as a guide for the pin D, which pin is rigidly attached to the sliding member E, which sliding member in turn is guided by the interior longitudinal slot F. The spacing-points are of any desired number and are mounted upon and connected by a series of bars H. The bars H are of equal length and are pivoted together at their centers and ends in the form of lazy-tongs, as shown in Figs. 2 and 4. The spacing-points G are mounted upon the bars H by being pivotally connected upon one side of the structure formed by the bars H and being slidably mounted upon the other side. As shown in Fig. 4, the pivotal connection of the spacing-point G is effected by the pivot 1, while the other end of the spacing-point is provided with the longitudinal slot I, which serves as a guide for the pivot 2, as shown in section in Fig. 5.

The carrying-bars H terminate and are pivoted at each end of the series to the short bars K. At the fixed extremity of the series the short bars K are pivotally fastened to the lug 3, which is slidably mounted in the slot L. At the movable end of the series the bars K are pivoted to the bar M, which in turn is pivoted to the slide E. The pin D is rigidly fastened to the slide E and projects through the slot C.

In the use of my invention it is first necessary to select a number of equal space-pointers corresponding to the number of equal spaces given to be divided. By selecting the point so selected which is farthest from the lug 3 to the point upon the scale which indicates the total length to be divided the intervening space-pointers will indicate the equal desired number of intervening spaces.

Having now described my invention, what I claim as new, and desire to obtain by Letters Patent, is—

In a device of the class named, drafting-scale provided with an interior longitudinal slot containing a series of spacing-points horizontally mounted upon lazy-tongs, one end of the lazy-tongs being fixed, and the removable end being provided with a pin projecting through another longitudinal slot perpendicular to the slot carrying the lazy-tongs, the ends of the spacing-points projecting through and beyond the slide of the longitudinal slot in which they are carried, and over the lines and numbers of the scale, substantially as and for the purposes specified.

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

DAVID W. STINSON.

Witnesses:
ALFRED A. EICKS,
JOHN C. HIGDON.