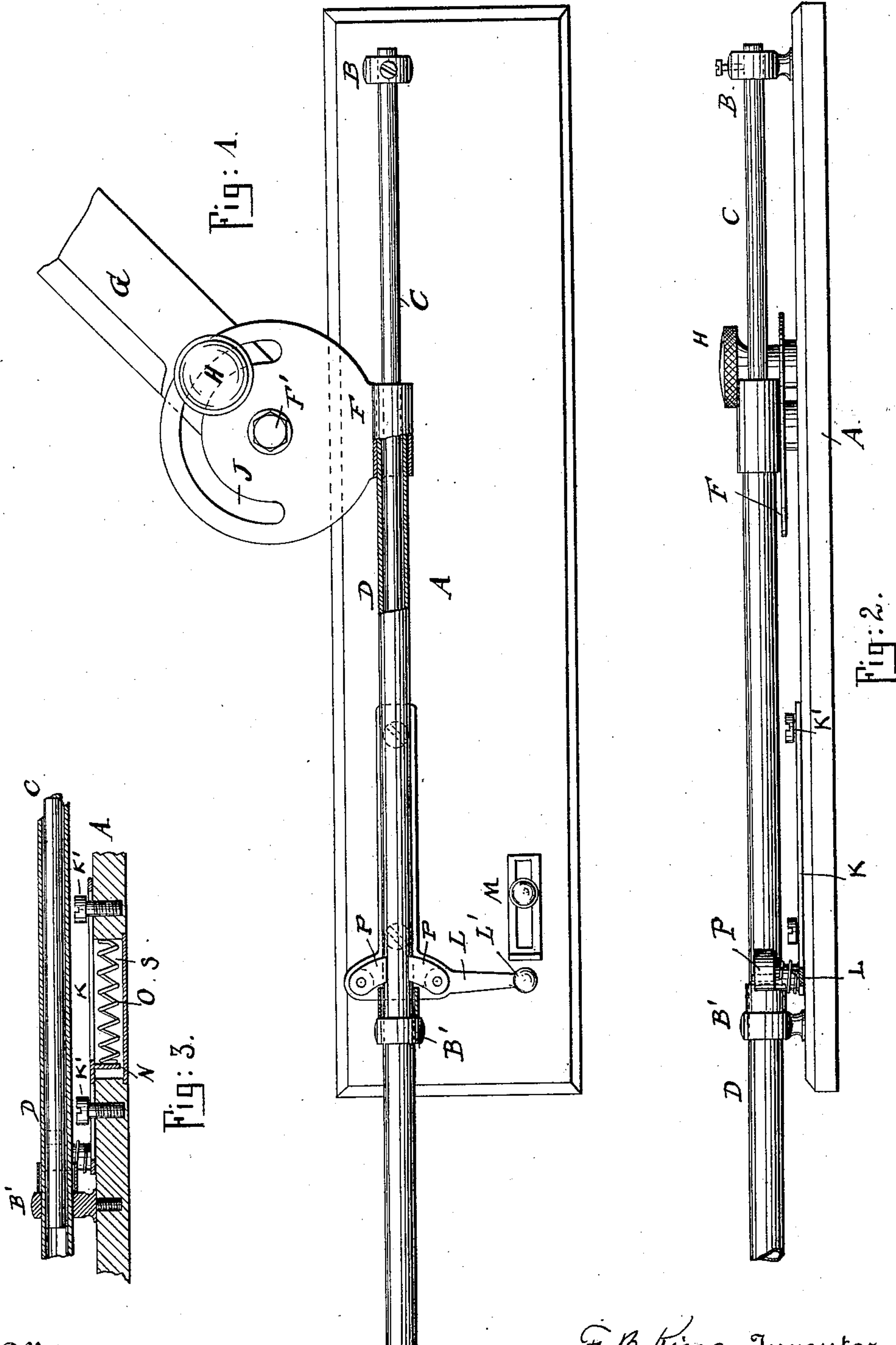


(No Model.)

F. B. KING.
SECTION RULER.

No. 598,875.

Patented Feb. 8. 1898.



Witnesses
Peter Albertine
A. Albertine

F. B. King Inventor
By his Attorney Oscar T. Linn

UNITED STATES PATENT OFFICE.

FREDERICK B. KING, OF NEW YORK, N. Y.

SECTION-RULER.

SPECIFICATION forming part of Letters Patent No. 598,875, dated February 8, 1898.

Application filed April 20, 1897. Serial No. 632,927. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK B. KING, a citizen of the United States, and a resident of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Section-Rulers, of which the following is a specification.

The object of my invention is to provide a new and improved section-ruler for use in drawing cross-hatched lines spaced any desired distance or at any desired angle, which ruler is simple in construction, easily adjusted, not apt to get out of order, and at all times is reliable.

In the accompanying drawings, forming a part of this specification, in which like letters of reference indicate like parts in all the views, Figure 1 is a plan view of my improved section-ruler. Fig. 2 is a side view of the same, parts being in section. Fig. 3 is a detail vertical longitudinal sectional view through the sliding spring-pressed plate.

On the base-plate A, made of wood or metal, preferably the latter, a post or standard B is fastened near one end, and in the same a rod C is secured at one end so as to extend longitudinally over the base-plate. A tube D, fitting quite snugly on the rod C, is mounted to slide on said rod and is guided in an apertured post or standard B' on the upper surface of the base-plate on the end opposite the post or standard B.

A plate F is secured on the inner end of the tube D, and to the under side of the same is pivoted a ruler G, which can be locked to said plate F at any desired angle by means of a binding-screw H, passed through a semi-circular slot J, formed in the plate F concentric with the pivot F', by which the ruler G is pivoted to the plate F.

A plate K is guided to slide longitudinally on the upper surface of the base-plate A by two screws K' K', passed through longitudinal slots in the end parts of the plate and into the base-plate, and said plate K is provided with a laterally-projecting handle-arm L, provided at its free end with a knob L', and an adjustable stop M is provided on the base-plate A, adjacent to the knob L', for the purpose of limiting the stroke of said knob.

A lug or wing N projects from the under side of the sliding plate K into a longitudinal groove S in the upper surface of the base-plate, and against said lug one end of a heli-

cal spring O presses, which is contained in the groove S and serves to press the plate K in the direction toward the left.

Two spring-pressed jaws P, adapted to grip the tube D, are pivoted to the upper surface of the plate K at opposite sides of the tube D in such a manner that when the plate K is shifted to the right said jaws grip the tube D and also move the same to the right, but do not act on said tube when the plate K moves to the left.

The operation is as follows: The ruler G is adjusted on the plate F to the desired slant or angle and the plate F, with the tube D, is moved to the left until the edge of the ruler G is at the place at which the diagonal lines or sectioning-lines are to begin. The first diagonal line is drawn along the edge of the ruler G, and then by means of the left hand the plate X is shifted to the right and the grip-jaws P, which grip the tube D, also shift the same, with the plate F and ruler G, to the right until the button L' strikes against the stop M, which has been previously adjusted according to the desired spacing of the inclined or section lines. The button L' is released and the spring O throws the plate K back in the direction to the left into the initial position, the jaws P sliding freely on the tube D. The next line is drawn and the tube D, with the plate F and ruler G, again shifted in the manner described.

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

In a section-ruler the combination with a base-plate, of a guide-rod secured on the base to extend longitudinally over the base-plate, a tube mounted to slide on said rod, a ruler attached to the tube, a sliding plate on the base-plate, a lug projecting downward from said plate into a groove in the base-plate, a spring in said groove bearing against said lug, gripping-jaws pivoted to said plate to engage the sliding tube and an adjustable stop for the sliding plate, substantially as herein shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 9th day of March, 1897.

FREDERICK B. KING.

Witnesses:

OSCAR F. GUNZ,
N. M. FLANNERY.