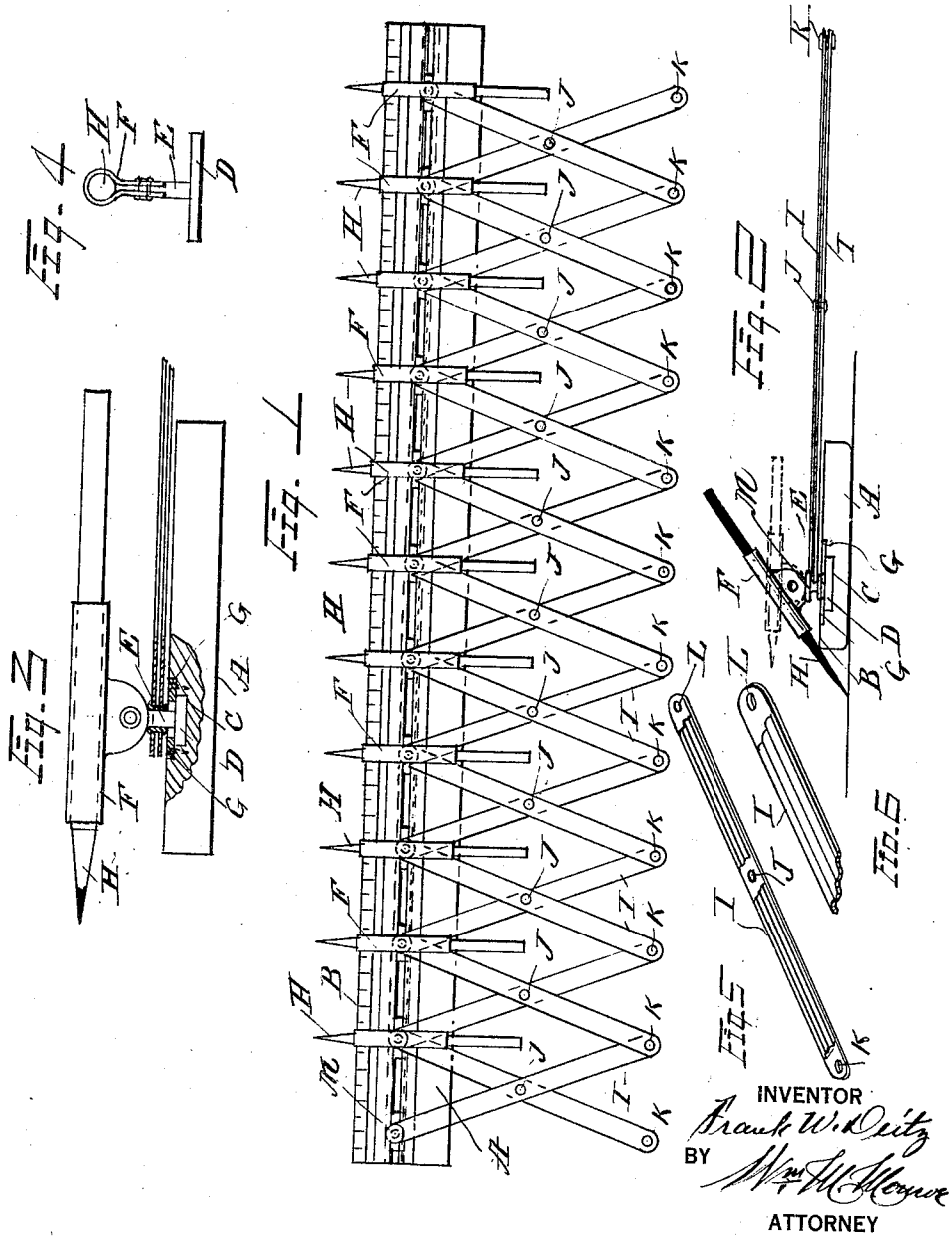
F. W. DEITZ.

QUICK EQUALIZING MARKER.

APPLICATION FILED MAR 24, 1919.

1,428,582.

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UNITED STATES PATENT OFFICE.

FRANK W. DEITZ, OF CLEVELAND, OHIO.

QUICK-EQUALIZING MARKER.

Application filed March 24, 1919. Serial No. 284,778.

To all whom it may concern:

Be it known that I, FRANK W. DEITZ, a citizen of the United States, and resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Quick-Equalizing Markers, of which I hereby declare the following to be a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same.

The objects of the invention are to provide an improved device or instrument for ruling a multiple number of parallel lines simultaneously at equal distances apart, and in which by adjustment the amount of space between the lines can be varied to suit the requirements of the operator, and all movements of the ruling points will be simultaneously made and equal in amount, thus enabling the operator to rule a multiple number of parallel lines at any desired equal distance apart by means of one adjustment of the device.

The instrument is adapted for the use of carpenters, joiners, cabinet makers and draftsmen in all trades, where materials or joints must be spaced accurately at uniform distances apart, and the device employs as its foundation a graduated bar or plate upon which drafting implements are simultaneously and automatically movable.

The invention further comprises the forms of structure and arrangement of parts, hereinafter described, shown in the accompanying drawings, and specifically pointed out in the claims.

In the drawings, Fig. 1 is a plan of the device; Fig. 2 is an end elevation thereof; Fig. 3 is a transverse section thereof; Fig. 4 is an end elevation of the pencil carrying device; Fig. 5 is a perspective of one of the bars of the pivoted rack by means of which all the pencils are simultaneously moved to desired positions; Fig. 6 is an enlarged fragment thereof.

In these views A is a flat plate or bar having a graduated edge B. The upper surface of the ruler is grooved at C parallel to its edge to provide a seat for the slidable bases D, D, upon which standards E, E, are secured, in which clamps F, F, are pivoted. Guides G, G secure the bases in place. Within these clamps drawing tools such as pens or pencils H, H, are secured.

The several bases D, are movably connected together in such a manner as to simultaneously recede from each other or to approach each other, by means of bars I, I, pivoted centrally to each other at J, J, in pairs, and the outer ends of adjoining pairs pivoted together at K, K, and the inner ends of adjoining pairs pivoted together and to the standards at L, L.

In use one end of the rack is clamped tightly to the ruler at M, through one of said bars by means of a screw threaded bolt or nut, and the rack is pulled out or collapsed from the other end until all the drawing implements register with the required divisions of the graduated edge. The ruler and drawing implements are then applied to the work to be measured off and all lines drawn will be equi-distant apart.

In carpentry or joiners work this device is particularly adapted for accurately spacing siding for houses, for spacing mullions for window sash, panels in doors, and for many similar spacing operations, for desks and furniture, in cabinet work, for trimming and roofing measurements, and for analogous uses in all trades in wood and metal.

The device can also be employed in parallel ruling, in office drafting, or in printing operations. The drawing implements are detachably secured in the clamps and can be interchanged or adjusted in length as desired.

The clamps which secure the ruling points are pivoted to the base standards, so that unequal divisions of space can be obtained by lifting one or more of them out of contact with the work as shown in dotted lines in Fig. 2, or the points can be drawn back in their holders.

Having described the invention what I claim as new and desire to secure by Letters Patent is:—

1. In a multiple ruling device, in combination, a plate or bar having a graduated edge and provided with a groove parallel to the edge, a multiple number of bases slidably movable in said groove, vertically swinging supports for drawing implements secured to said bases, and a rack composed of pairs of crossed bars, the bars in each pair being pivoted together intermediate of their ends, and the outer ends of adjoining pairs being pivoted together, and the inner ends of adjoining pairs being pivoted together and to said bases.

2. In a multiple ruling device, a graduat-

ed plate or bar, a multiple number of elongated bases movable thereon towards and from each other, connecting and retaining means for said movable bases, and drafting means pivotally attached to said bases.

3. In a multiple ruling device, a base plate or bar, a multiple number of bases slidingly movable thereon, standards for said bases, holders for drawing instruments pivoted upon said standards, an extensible and collapsible rack composed of pivotally connected pairs of pivotally connected bars, said bars operatively connected with said bases, and a clamping means for one of the bars at one end of said rack.

4. In a multiple ruling device, a base plate or bar, a multiple number of bases slidingly movable thereon standards upon said bases, holders for drawing instruments pivoted upon said standards, an extensible and collapsible rack composed of pairs of crossed bars, the bars in each pair being pivoted together intermediate of these ends and having the outer ends of adjoining pairs pivoted together, the inner ends of adjoining pairs being pivoted to each other and to adjoining bases, the inner extremity of one end pair being pivoted in the terminal base, and stamping means for said base.

In testimony whereof, I hereunto set my hand this 5″ day of March, 1919.

FRANK W. DEITZ.

Witnesses:

WM. M. MONROE,

CHAS. F. SIPE.