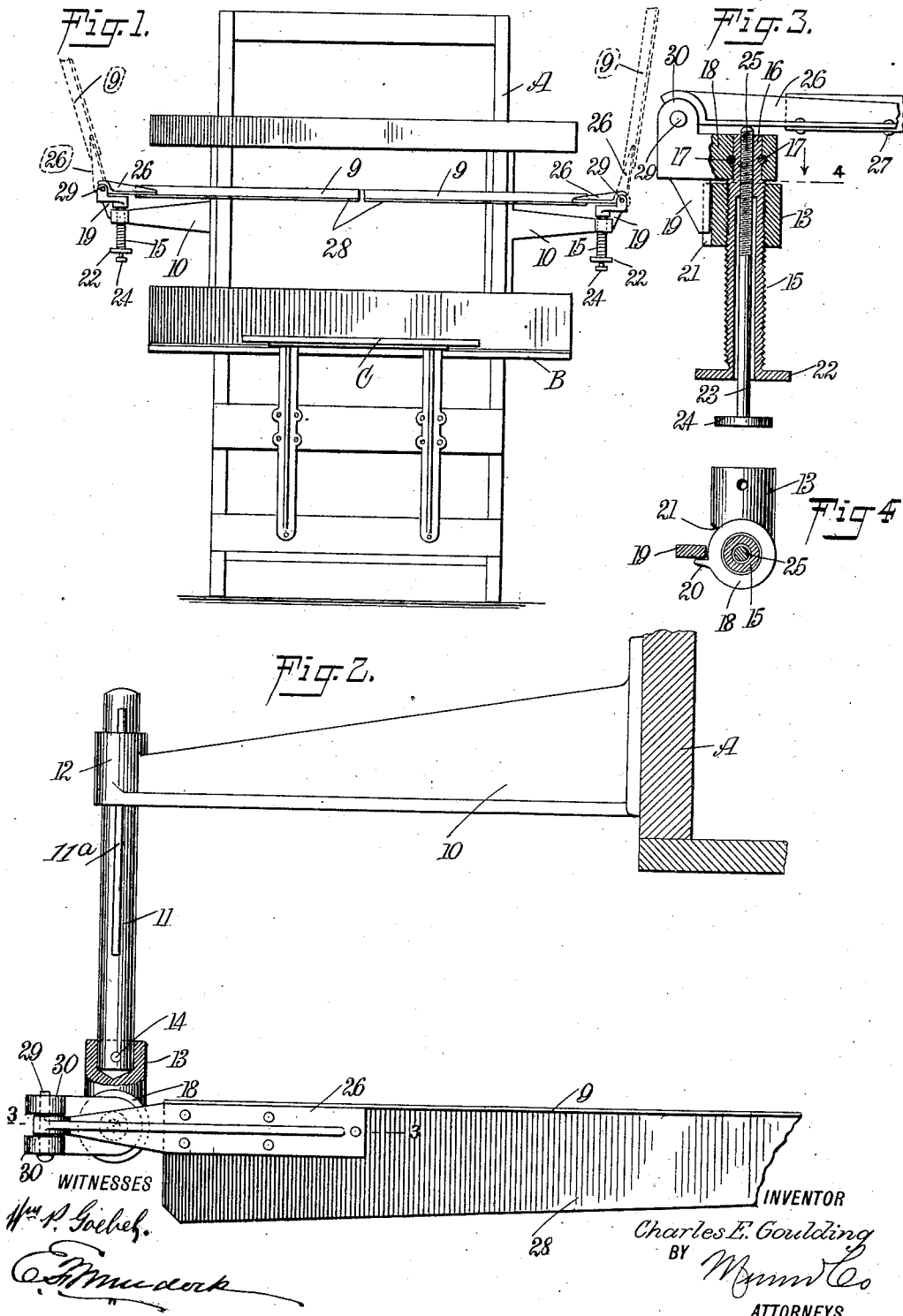


C. E. GOULDING.
BOOK LINE GUIDE RULER.
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UNITED STATES PATENT OFFICE.

CHARLES E. GOULDING, OF TAMPA, FLORIDA.

BOOK-LINE GUIDE-RULER.

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Specification of Letters Patent.

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Application filed October 25, 1911. Serial No. 656,616.

To all whom it may concern:

Be it known that I, CHARLES E. GOULDING, a citizen of the United States, and a resident of Tampa, in the county of Hillsboro and State of Florida, have invented a new and Improved Book-Line Guide-Ruler, of which the following is a full, clear, and exact description.

Among the principal objects which the present invention has in view are: to provide a ruler adapted for adjustment of disalined and separate book sections; to provide an operating mechanism for rulers of the character above described to enable the same to be adjusted to a margin; to provide rulers of the character mentioned to hold in adjusted position the open sections of books and to show the continuous line across the two half faces thereof; and to provide for rulers of the character mentioned a construction which is simple, efficient and durable.

One embodiment of the present invention is disclosed in the structure illustrated in the accompanying drawings forming a part of this specification, in which like characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a front elevation of a book holding type-writer stand, having applied thereto rulers constructed and arranged in accordance with the present invention; Fig. 2 is an enlarged detail view, partly in section, showing fragments of the book rack and of the mounting end of rulers constructed in accordance with the present invention; Fig. 3 is an enlarged detail view in vertical section, taken on the line 3—3 in Fig. 2, showing the operative relation of the adjusting screws and hinge block for operating the rulers; and Fig. 4 is a detail view in cross section, the section being taken on the line 4—4 in Fig. 3.

The present invention relates more particularly to the typewriter stand for which a patent was granted to me January 11, 1910, bearing No. 946,218, to which reference is here made. As disclosed in said patent, the rack A is provided to support in open position large books, such as real estate abstract books. For this purpose it is provided with a supporting shelf B. Suitably mounted on the rack A is a shelf C provided to support in operative position a typewriting machine. With this charac-

ter of book, when disposed in the upright position convenient for copying, it becomes necessary to hold the leaves of the book from bulging forward, and for this purpose certain devices shown in the said patent have been devised. In the present invention such is one of the functions for which the ruler blades 9, 9 are intended.

The ruler blades 9, 9 are supported on the brackets 10, 10, being connected therewith by the slide bars 11. See Fig. 2 of the drawings. Each blade 9, 9 is independent of the other, it being possible to move the bar 11 on one side of the stand A backward and the bar 11 on the other side of the stand forward to accommodate the opening of the book when a disproportionate number of leaves is disposed at one side of the hinge of the said book. The bars 11 are held by the key 11^a in the thimbles 12 in the end of the brackets 10. At the outer end of each bar 11 is rigidly secured a hinge block 13 by means of a pin 14, as seen best in Fig. 2 of the drawings.

It is upon the hinge blocks 13 that what may be termed the adjusting mechanism of the present ruler is mounted. In the outer end of the block 13 a threaded perforation is formed to register with the threads on the tubular screw 15. The screw 15 is provided with a pintle end 16 keyed by means of the pins 17, 17 within a perforation formed in the pivot block 18. The block 18 is limited in its rotation by the lug 19 with which each block is provided. The lug 19, as shown in Fig. 4 of the drawings, impinges upon the bracket 20 and the shoulder 21 formed on the block 13. See Fig. 4 of the drawings. The play thus afforded for the movement of the blades 9 in a horizontal plane is quite sufficient to accommodate all of the angles which the leaves of the book assume in the bulged arrangement above referred to.

In the operation of the rack A as described in the patent referred to, the book is bodily lifted or shifted to dispose the line being copied at the proper height. The blades 9 are therefore maintained at a constant level while the book is shifted to raise and lower the successive lines past the edge of the said blades. The brackets 10, 10 are securely mounted upon the stationary portion of the said rack A. The adjustment of the blades 9, 9 is therefore limited to accommodate the bulge of the leaves, and for this

purpose the two blades are independently inclined from the horizontal plane. For this purpose the block 18 is vertically shifted above the block 13 when the screw 15 is manipulated. To manipulate the screw 15 there is provided a disk-like head 22. In the vertical adjustment of the block 18 and blade connected therewith the movement is limited by the length of the lugs 19, which if raised too high pass from engagement with the bracket 20 and the shoulder 21. Within a sufficiently wide radius, however, it will be seen that the block 18 may be vertically adjusted by the manipulation referred to.

To change the vertical inclination of the blades 9 I have provided a spindle 23 having a manipulating head 24 and a screw threaded end section 25. The screw threaded section 25 registers with screw threads formed in the screw 15, and extends through the pintle end 16 to bear on the under side of the hinge wings 26. The hinge wings 26 are riveted as at 27 to the horizontal extension or shelf 28 of the blade 9. The hinge wings 26 are perforated to pivot on the hinge pin 29 extended, as seen best in Fig. 2 of the drawings, between the hinge lugs 30, 30 set up from the block 18. It will be seen that as the spindle 23 is rotated it is lifted or lowered in the screw 15 to raise or lower the hinge wing 26 from the upper face of the block 18. As the block 18 is maintained constantly in the horizontal plane the hinge wing and blade 9 connected therewith are disposed at an angle to the horizontal. This adjustment is required where through the sag of the large leaf of the heavy books employed in registering abstracts of title the pitch of the leaves of the book is inclined. Thus it will be seen that by the manipulation of the bar 11 the ruler blades 9 may be carried back and forth from the book on the rack A to press the ruler blades 9 against the leaves at each side of the hinge of the said book. It will also be seen that the vertical angle or pitch of the ruler blades as extended from the pivot block 18 may be varied to accommodate the inclination of the lines on the leaves of the book. It will also be seen that by adjusting the two blades 9, 9 to the opposite sides of the book mistakes in following the line on which the information is recorded is avoided.

When the book is being adjusted upon the rack, or the leaves are outturned, the blades 9, 9 are lifted on the hinge wings 26 and

pivot blocks 18 to the uplifted and spread position shown by dotted lines in Fig. 1.

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

1. A book line guide ruler, comprising a vertical stand; a plurality of supporting brackets stationarily mounted on said stand; a plurality of supporting rods slidably mounted in said brackets; a plurality of blades pivotally mounted on said rods; and a plurality of devices disposed between said blades and said rods to vary the disposition of said blades.

2. A book line guide ruler, comprising an upright stand; a plurality of supporting brackets fixedly mounted on said stand; a plurality of supporting rods slidably mounted in said brackets, for movement in a substantially horizontal plane; a plurality of blades pivotally mounted upon said rods, extending from the margin toward the hinge of an open book on said stand; a plurality of devices interposed between said blades and said rods to vary the disposition of said blades; and means mounted on said rods for controlling the angle between said rods and said blades in the horizontal plane.

3. A book line guide ruler, comprising an upright stand having a shelf support for a book in open position; a plurality of brackets pivotally mounted upon said stand; a plurality of supporting rods slidably and non-rotatively mounted in said brackets to move in a plane perpendicular to said stand and book supported thereon; a plurality of hinge-blocks pivotally mounted at the outer end of said rods; a plurality of blades on said hinge-blocks and extending from beyond the margin of the hinge of said book, when opened; a plurality of set-screws adjustable vertically through said hinge-blocks, to support said blades, to vary the vertical adjustment thereof; and a plurality of projections mounted on said rods, extending in the path of said pivot-blocks to vary the angle of said blades relative to said rods in the plane perpendicular to said stand.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES E. GOULDING.

Witnesses:

WILL M. FARN,
T. J. HEITER.