

No. 783,284.

PATENTED FEB. 21, 1905.

W. E. KINCAID.
LINE ADJUSTER.
APPLICATION FILED JULY 26, 1904.

Fig. 1.

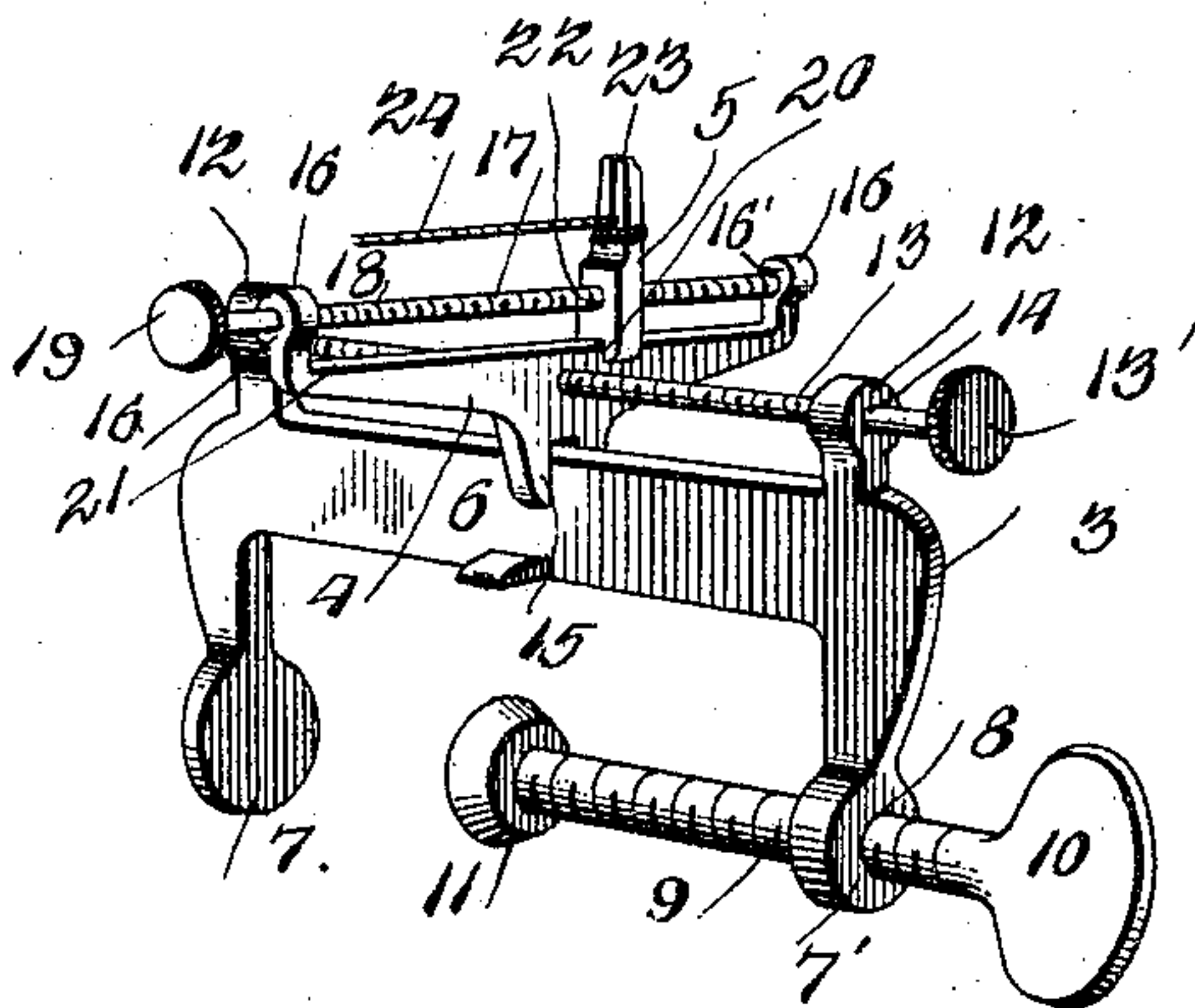
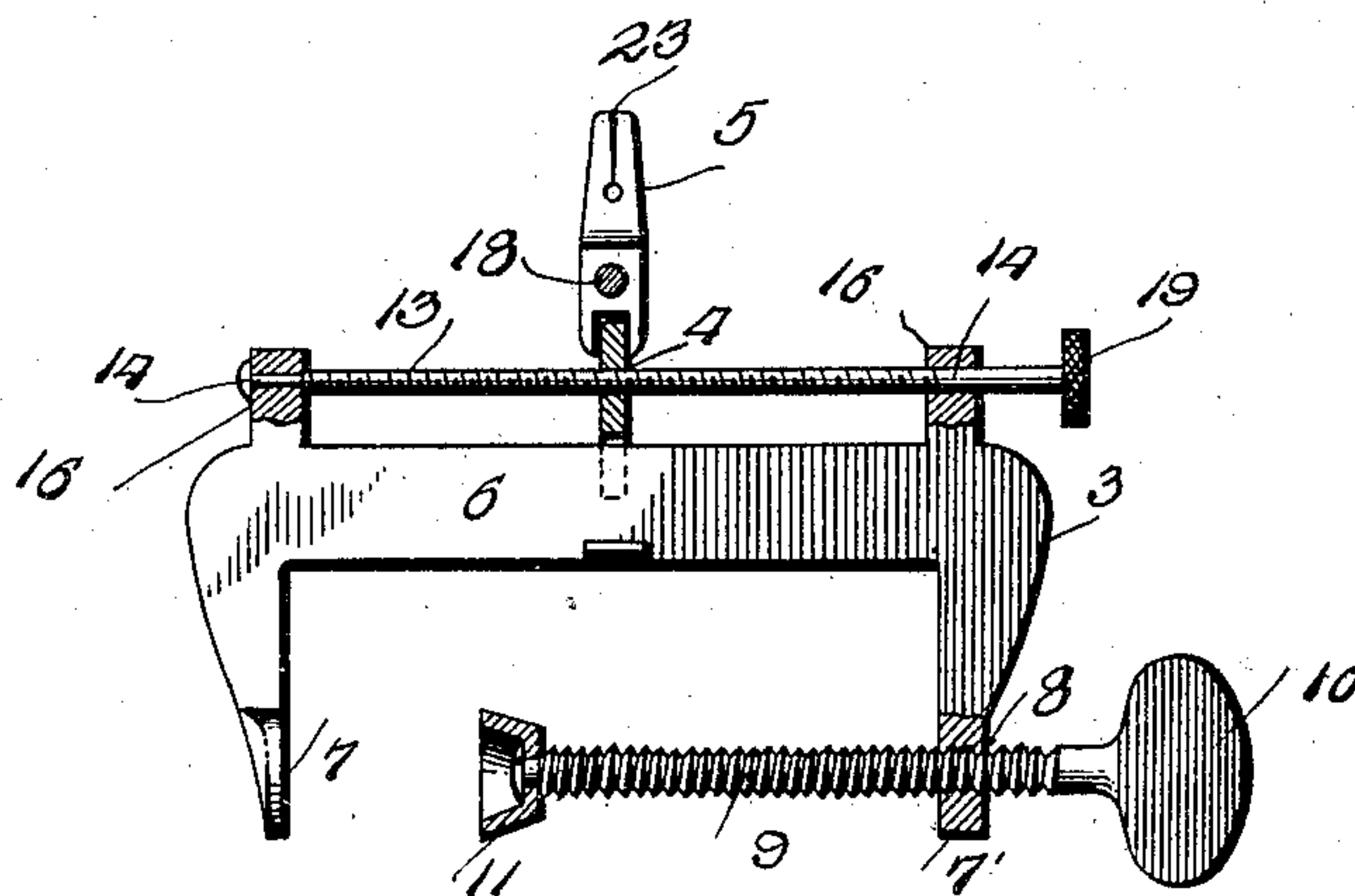


Fig. 2.



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LINE-ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 783,284, dated February 21, 1905.

Application filed July 26, 1904. Serial No. 218,211.

To all whom it may concern:

Be it known that I, WILL E. KINCAID, a citizen of the United States, residing at Hooper, in the county of Costilla and State of Colorado, have invented new and useful Improvements in Line-Adjusters, of which the following is a specification.

This invention relates to an improved centering device for lining up engines and for other purposes, and has for its object to simplify and improve the construction and operation of instruments of this character.

Referring to the drawings, Figure 1 illustrates in perspective a view of my improved centering device, while Fig. 2 is a side elevation showing parts thereof in section.

Like numerals of reference indicate like parts in both figures.

The device comprises, essentially, a clamping supporting frame 3, a supplemental carrier-frame 4, arranged at right angles to and slidably mounted on the supporting-frame for longitudinal movement and adjustment thereon, and a line-holding block or piece 5, carried by said carrier-frame—that is, arranged for movement thereon to obtain transverse or lateral movement therefor with respect to the clamping-frame.

Referring to the specific construction of my device, the clamping and supporting frame is shown as consisting, essentially, of a longitudinally-extending flat body portion 6, having fixed and integral jaws 7 and 7' at each end, one of said jaws, 7', having a screw-tapped aperture 8.

9 designates a threaded bolt that constitutes the movable member of the clamping-frame and that has a bearing and engagement in said aperture 8 and that is provided with a thumb-piece or wrench-seat 10 at its outer end and with a jaw-piece 11 at its inner end.

12 designates apertured lugs or ears that project upwardly from the respective opposite ends of the frame 3 and which support for rotation the adjusting screw or shaft 13, having head 13', that is screw-threaded throughout the major portion of its length intermediate of its ends and which is arranged in parallel alinement and in the same plane with the longitudinally-extending body por-

tion 6 of the frame 3 and that is revoluble in the bores 14 of the ears 12 without regard to its screw-thread. The supplemental carrier-frame 4 is provided with an integral pendent guide-arm 15, that is slotted or bifurcated, as shown, to embrace the longitudinally-extending flattened body portion 6 to present said carrier-frame in a position at right angles thereto and to cooperate therewith in sliding engagement. The carrier-frame thus mounted is shown as being provided with a centrally-arranged screw-tapped aperture that is adapted for operative engagement with the screw-threads of the adjusting-screw 13 and by reason of which the said carrier-frame can be made to travel longitudinally in either direction, according to the direction of turning of the said adjusting-screw.

For the purpose of obtaining a transverse or lateral adjustment for the line-block 5 the supplemental carrier-frame, the body portion of which is preferably made of substantially the same shape as that of the supporting-frame, is likewise provided with upstanding lugs or ears 16 at each end that are provided with alining apertures 16, within which are journaled the respective ends of the adjusting-screw 17, that is also provided with a screw-thread 18 and a turning-head 19.

The line-holding block 5 is provided at its lower end with a recess 20, that slidably fits upon the upper edge 21 of the carrier-frame and which is also provided with a screw-threaded aperture 22, that is engaged by the adjusting-screw 17, by reason of which engagement the line-holder may be laterally adjusted relatively to the supporting-frame. The upper portion of said line-holder is apertured and split, as shown at 23, to provide a simple clamping device for holding the line 24.

From the foregoing description it will be evident that the construction affords a means for obtaining for the line-holder two specified adjustments after the frame 3 has been clamped to an object—*i. e.*, a longitudinal adjustment by the movement of the carrier-frame and a transverse adjustment by the movement of the line-holder relative to the carrier-frame, both of which adjustments are

obtained in either direction by the manipulation of the adjustment-screws.

Having thus described the invention, what is claimed as new is—

- 5 A centering device of the character described, comprising a supporting-frame having a guideway at its upper edge, lugs at the ends of said guideway, a screw mounted for rotation in said lugs, a carrier-frame disposed
10 at right angles to the supporting-frame and having a threaded aperture for the passage of said screw and also having a depending guide member adapted to slide upon the guideway

of the supporting-frame and a guideway at its upper edge, lugs at the ends of the latter- 15 named guideway, a screw mounted for rotation therein, and a line-holding block actuated by said screw and adjustable on the guideway of the carrier-frame.

In testimony whereof I affix my signature in 20 presence of two witnesses.

WILL E. KINCAID.

Witnesses:

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