

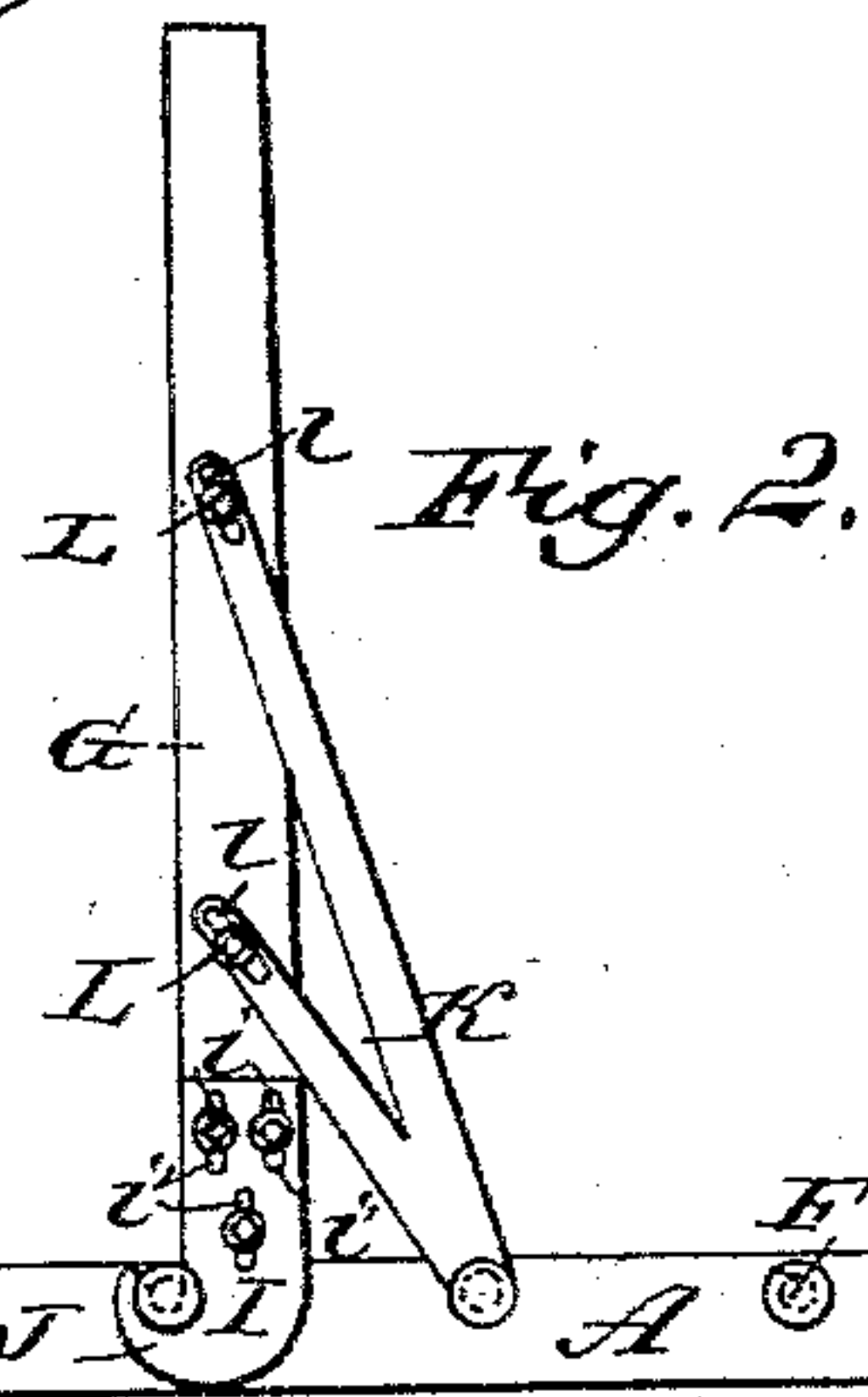
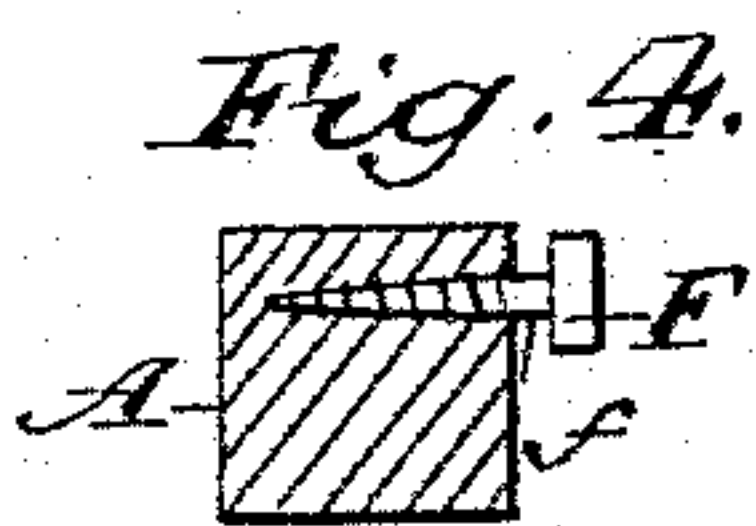
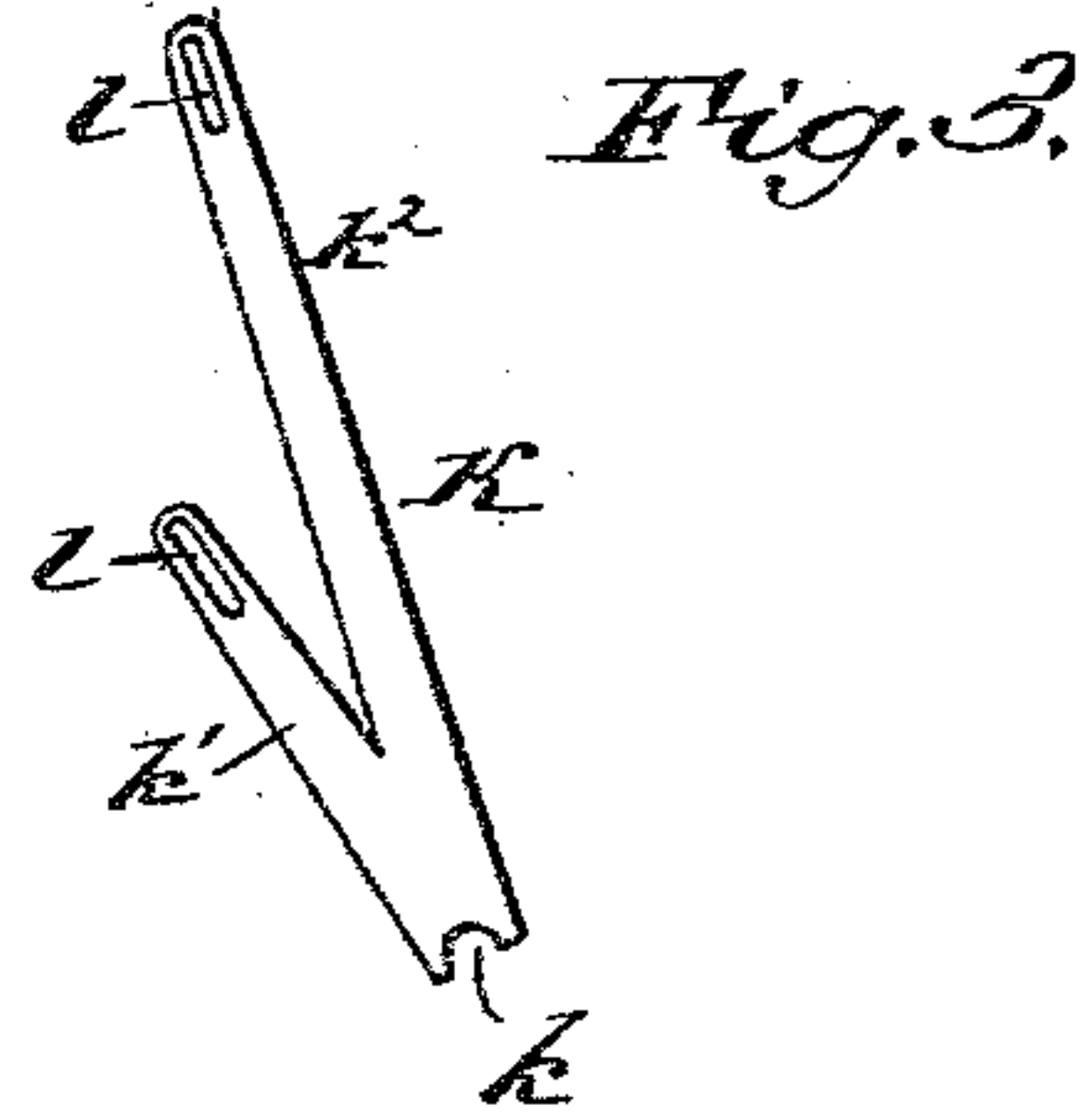
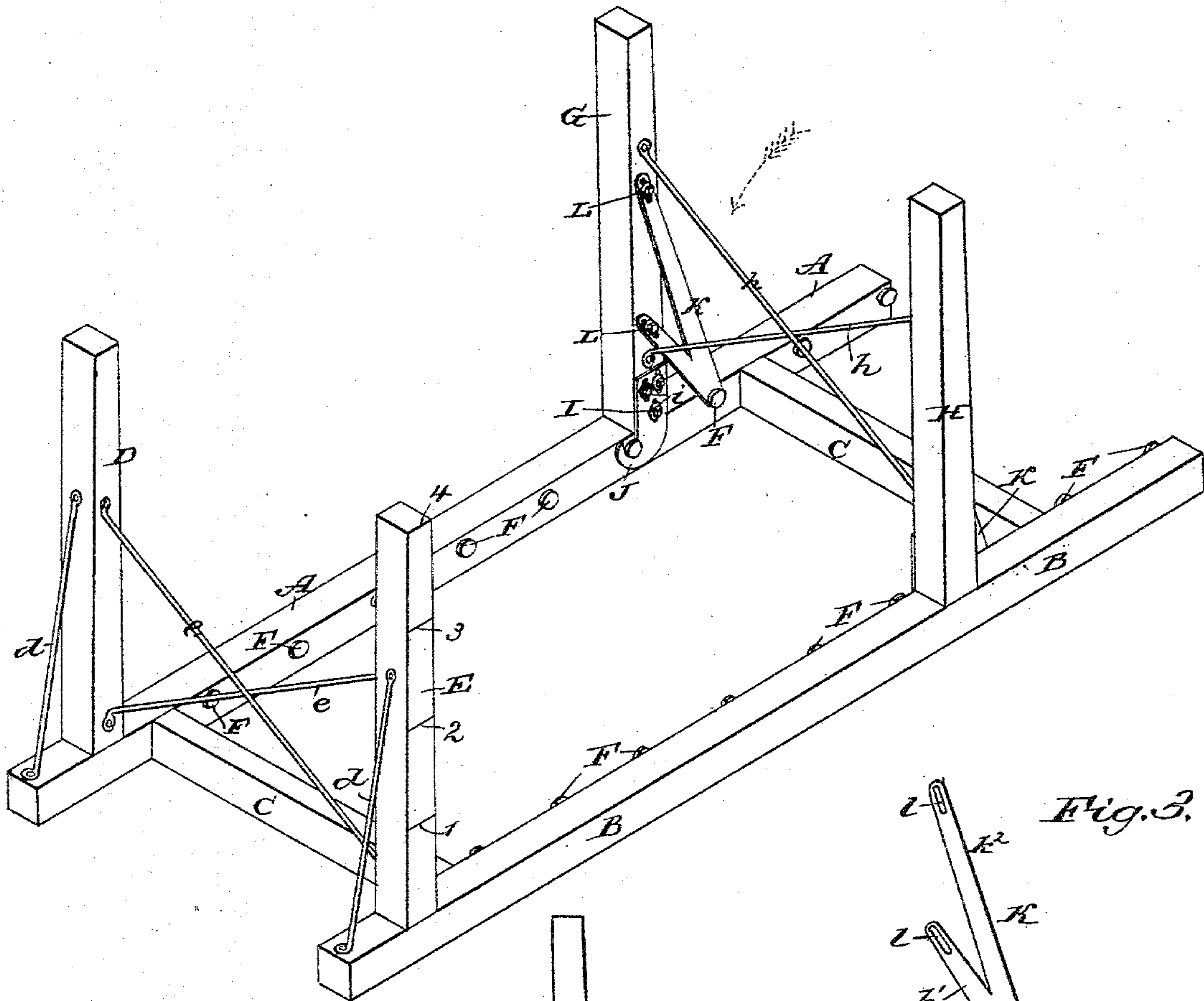
(No Model.)

H. L. BROUGHTON.  
ADJUSTABLE WOOD MEASURING RACK.

No. 356,917.

Patented Feb. 1, 1887.

Fig. 1.



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# UNITED STATES PATENT OFFICE.

HORACE LINCOLN BROUGHTON, OF MARBLEHEAD, MASSACHUSETTS.

## ADJUSTABLE WOOD-MEASURING RACK.

SPECIFICATION forming part of Letters Patent No. 356,917, dated February 1, 1887.

Application filed October 25, 1886. Serial No. 217,147. (No model.)

*To all whom it may concern:*

Be it known that I, HORACE LINCOLN BROUGHTON, of Marblehead, in the county of Essex and State of Massachusetts, have invented a new and Improved Wood-Measuring Frame, of which the following is a full, clear, and exact description.

My invention relates to a frame adapted to measure wood by the cord or fractional parts of a cord, as occasion may require; and the invention has for its object to provide a simple, inexpensive structure of this character which may be used by any person of ordinary intelligence to measure wood with economy of time and labor.

The invention consists in certain novel features of construction and combinations of parts of the wood-measuring frame, all as hereinafter fully described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my improved wood-measuring frame, and Figs. 2, 3, and 4 are detail views of parts thereof.

Two longitudinally-ranging timbers, A B, connected by cross-bars C C, mortised and pinned or otherwise suitably framed to the timbers A B, constitute the sill-frame of the wood-measurer. Near one end of the timbers A B uprights or posts D E, respectively, are fixed to the sill-timbers and braced thereto by iron rods *d*, and braced to each other by a pair of crossed rods, *e e*.

To the inner faces of the sill-timbers A B there are screwed a series of headed pins, F, the first ones being exactly one foot from the inner face of the end frame formed by the braced posts D E, and the other pins F are spaced exactly one foot apart.

Two posts, G H, braced together by crossed rods *h h*, are adapted to stand on the sill-timbers A B, respectively, and to the inside face of each post is attached by coach-screws *i* a metal plate, I, which projects down at the inner face of the adjacent sill-timber, and is provided with a hook, J, at its extremity, adapted to engage the shank or body of one of the headed screw-pins F. These screws *i* pass through slots *i'* made in the plates I, and washers are

preferably interposed between the heads of the screws and the plates. A brace, K, having a notch or concavity, *k*, at its lower end, has two arms, *k' k''*, which are slotted at *l l*, at or near their outer or upper ends, for the passage of coach-screws L into the respective posts G H, whereby the braces will be held to these posts and their lower ends will be adapted to engage the pins F on the sill-timbers. By slotting the plates I I and braces K K at *i'* and *l*, respectively, for the passage of the bolts *i* and L the movable frame G H *h* may be quickly and easily set perfectly plumb, whichever opposite pair of the sill-pins F may be engaged by the hooked plates I I.

The posts D E G H are exactly four feet high, and the post E is marked by cross-lines, as at 1 2 3, to indicate feet, the top of the post at 4 indicating four feet in height.

It is obvious that to measure a full cord of wood it is only necessary to engage the hooks J J of the movable frame G H *h* with the eighth-pins F F of the sill-timbers A B from the fixed posts D E, and fill the wood into the frame level with the tops of the posts. To measure one-half of a cord of wood, the hooks J will be engaged with the fourth-pins F from the posts D E, and by adjusting the hooks J to the first pair of pins F from the posts D E, and filling the wood in between the end posts up to the mark or line 1 on the post E, a single foot of wood may be measured, or up to the line 2 for two feet, or to the line 3 for three feet, or to the tops of the posts for four feet.

Any fractional quantity of a cord of wood may thus be accurately measured by adjusting the frame G H *h*, and when necessary filling in the wood to the gage marks or lines on the post E, and with economy of time and labor.

To disengage the hooks J of the frame G H *h*, it is only necessary to tilt the frame toward the fixed posts D E, or in direction of the arrow in Fig. 1, and the movable frame then may be shifted to any point along the sill-frame, as will readily be understood.

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

1. A wood-measuring frame comprising a sill-frame, A B C, fixed posts D E thereon, pins, as F, on the sill-frame, and a movable



end frame, G H *h*, on the sill-frame and provided with catches adapted to engage the sill-frame pins F, substantially as shown and described.

5 2. The combination, in a wood-measuring frame, of a sill-frame, A B C, pins F on the sill-frame, fixed posts D-E, a movable frame comprising posts G H, and hook-plates I J on said posts, and braces K, held at one end to  
10 the posts G H, and adapted to engage the pins F, substantially as shown and described.

3. In a wood-measuring frame, the combination, with the sill-frame thereof provided with pins F and a movable end frame comprising posts G H, of hook-plates I J and  
15 braces K on the posts and adapted to engage the pins F, and said hook-plates and braces slotted at *i' l*, respectively, for the passage of

fastening-screws *i' L*, substantially as described, for the purposes set forth. 20

4. In a wood-measuring frame, the braces K for the movable end frame, made with a concavity, *k*, at the lower end, and with two arms, *k' k''*, having slots *l* for the passage of attaching-screws, substantially as shown and described. 25

5. A wood-measuring frame comprising a sill-frame, a fixed end frame, as D E, and a movable end frame, as G H, on the sill-frame, and the post E of the fixed end frame provided  
30 with scale-marks, as 1 2 3, substantially as described, for the purposes set forth.

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Witnesses:

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