

(No Model.)

I. WAINWRIGHT.  
HEIGHT MEASURE FOR HORSES.

No. 325,134.

Patented Aug. 25, 1885.

Fig. 1.

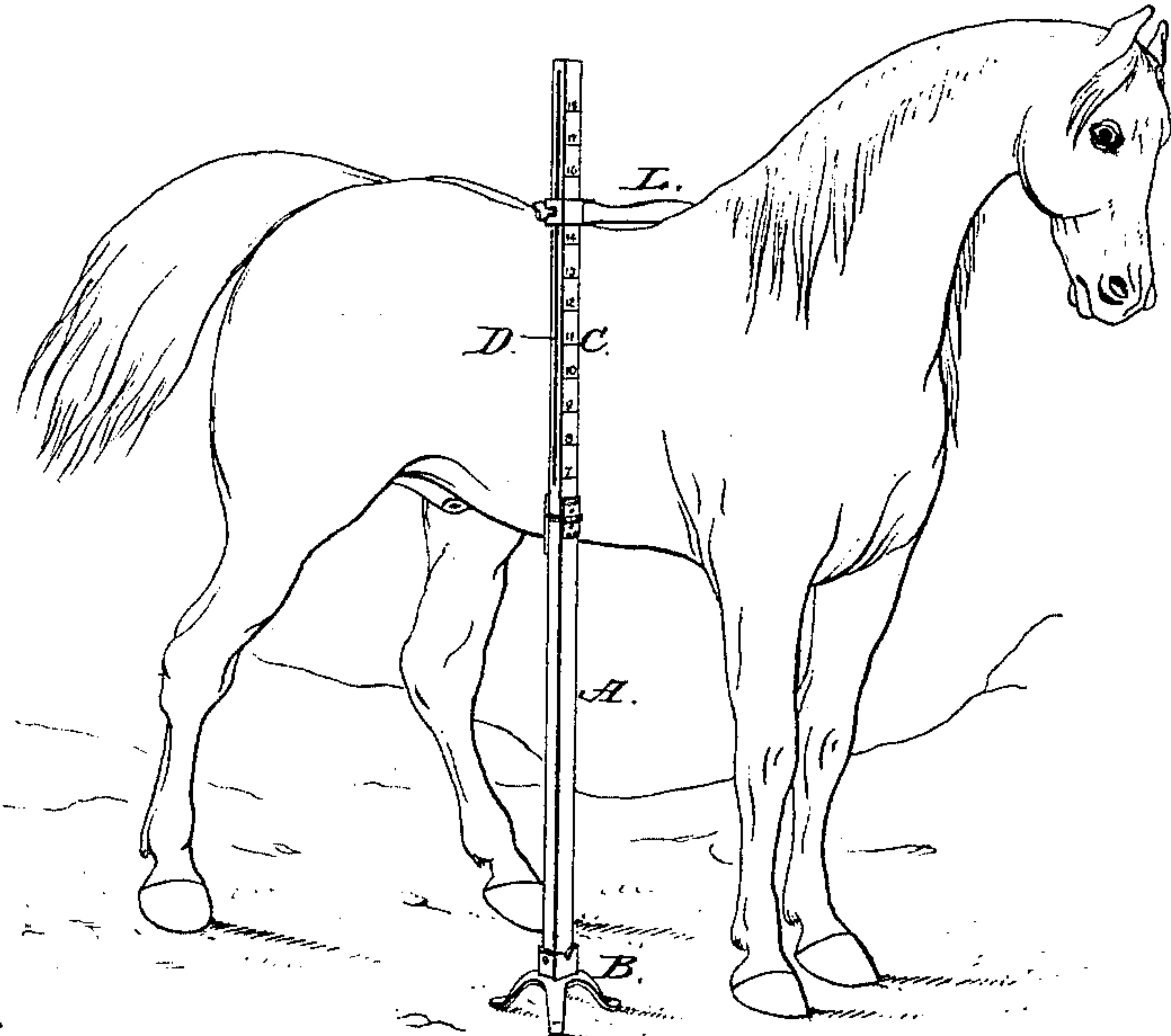


Fig. 3.

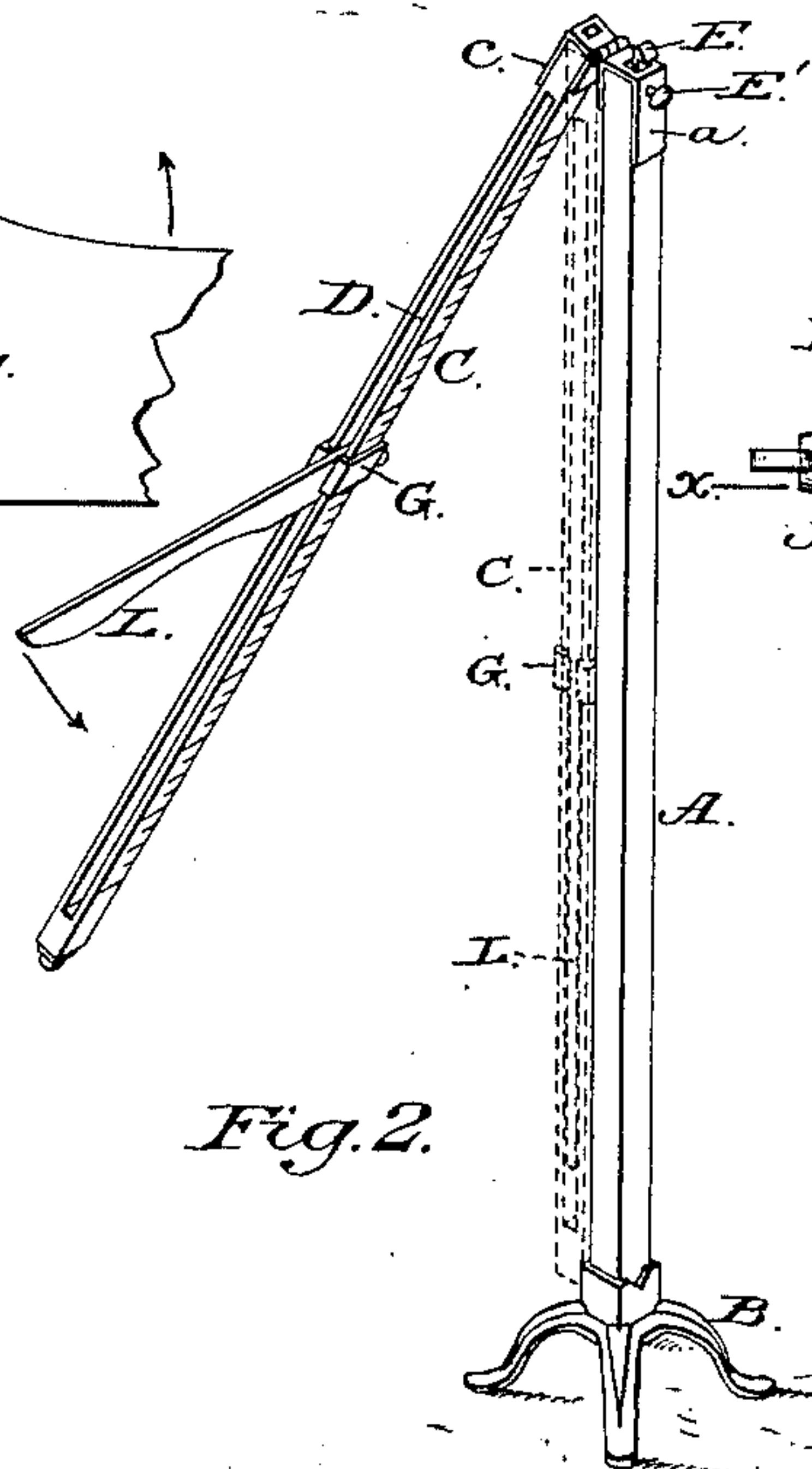
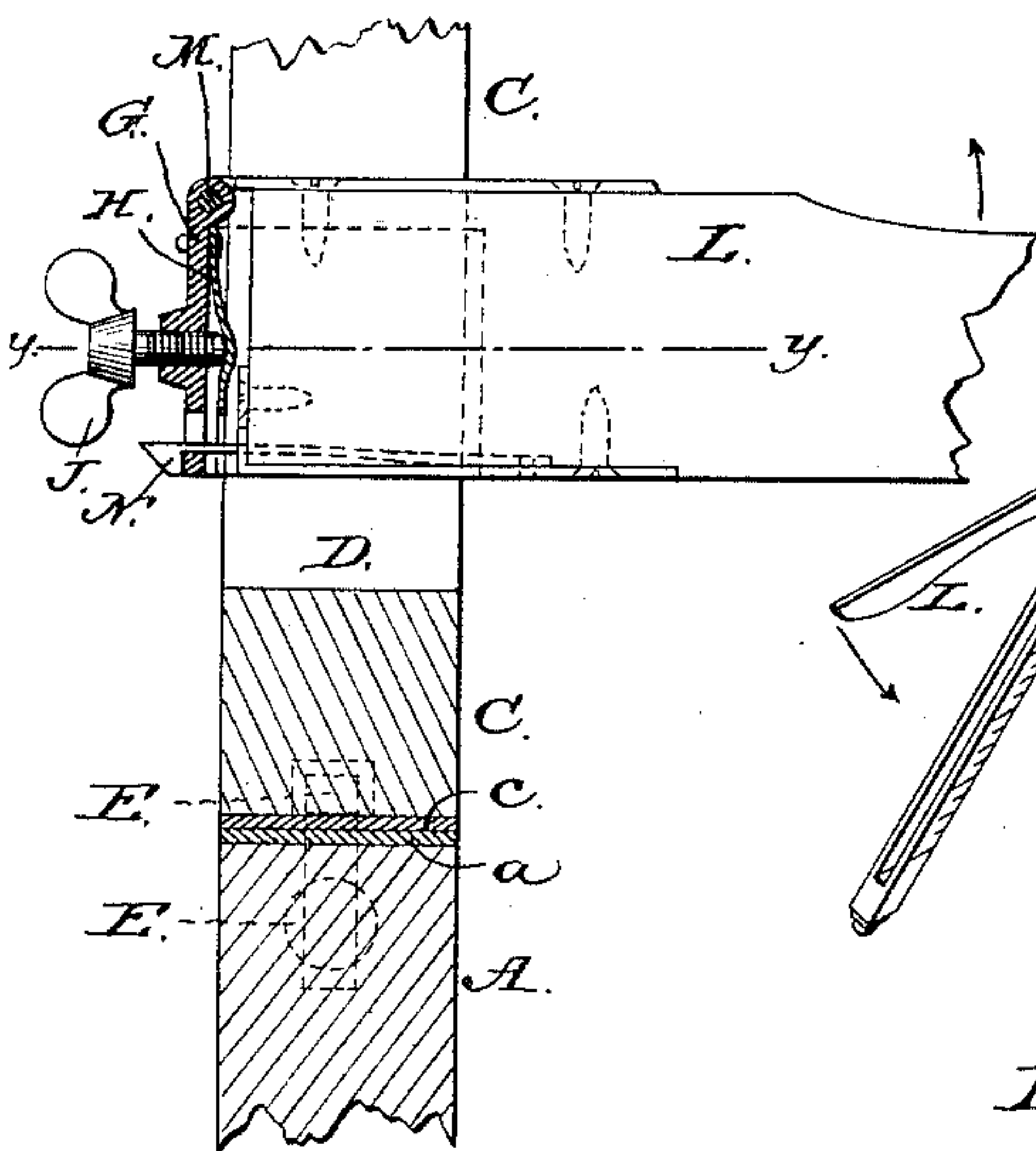
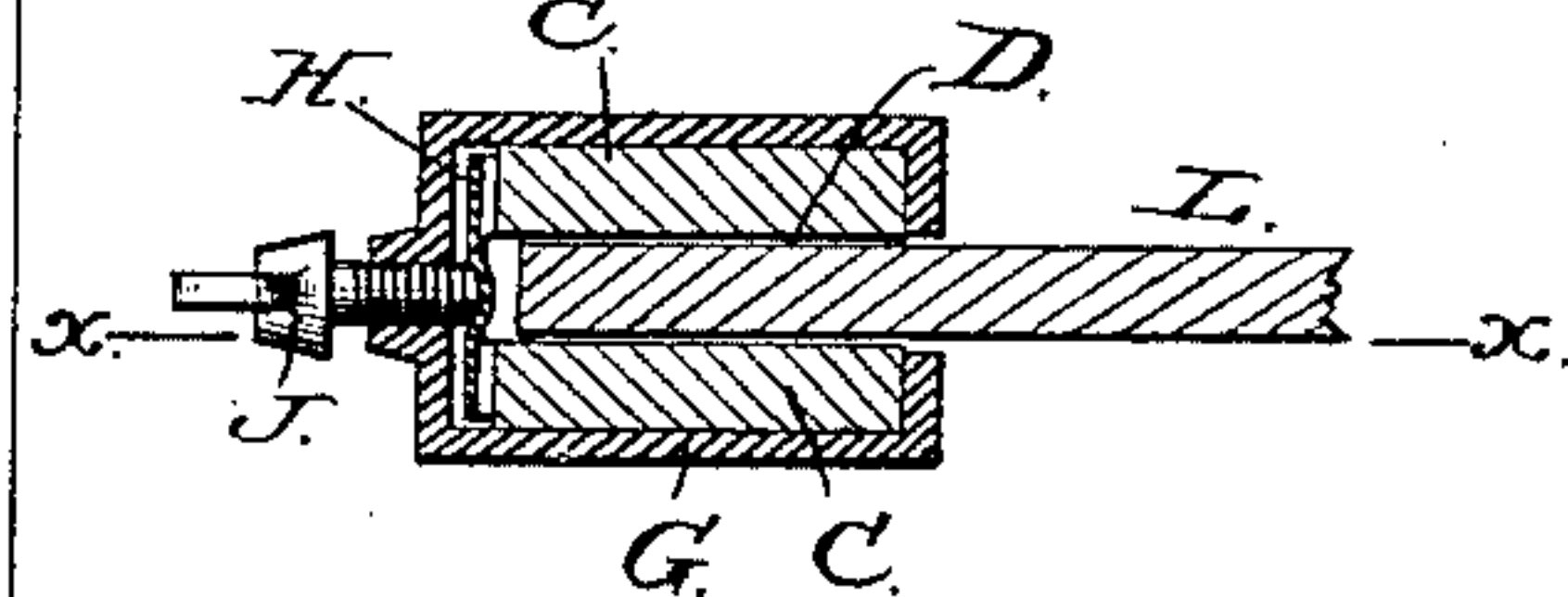


Fig. 2.

Fig. 4.



Attest:

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# UNITED STATES PATENT OFFICE.

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## HEIGHT-MEASURE FOR HORSES.

SPECIFICATION forming part of Letters Patent No. 325,134, dated August 25, 1885,

Application filed November 15, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, IRA WAINWRIGHT, a resident of the city, county, and State of New York, have invented a new and useful Improvement in Height-Measures; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to devices for measuring the height of horses, &c., and has for its object the construction of a measure for the purpose which shall be light and portable as well as accurate.

It consists in combining with a standard mounted upon a suitable base, of a longitudinally laterally-slotted scale-bar hinged to the upper end of the standard so as to open up in a right line therewith, fitted with an arm so pivoted to an adjustable slide embracing the scale-bar and traveling thereon, as to admit of folding into the longitudinal slot of the bar, and of being extended out from the bar and made fast at an exact right angle therewith at any point in the length of the bar to which the slide is carried.

It consists, also, in novel details in the construction of the slide, as hereinafter described.

In the accompanying drawings, Figure 1 is an elevation in perspective of my improved measuring-standard in use; Fig. 2, a similar view of the same on an enlarged scale, illustrating the scale-bar in positive lines as partly folded, and in dotted lines as completely closed, the projecting arm being folded into the longitudinal slot of the bar. Figs. 3 and 4 are enlarged detached sectional views illustrating the construction of the slide, its spring and clamp-screw, and the pivotal connection of the measuring-arm therewith, Fig. 3 being a section upon the line *x x* of Fig. 4, and Fig. 4 a transverse section on line *y y* of Fig. 3.

A represents the standard, supported upon a suitable base, B, which may be of light cast metal, and formed with a suitable socket to receive and firmly hold the lower end of the standard.

C is the scale-bar, formed with a longitudinal slot, D, therein, extending from end to end thereof, and having a suitable scale of feet and inches marked upon the two opposite

faces of the bar which are parallel with the slot. The lower end of the scale-bar C is hinged to the upper end of the standard A, so that the two may be brought end to end in a right line with each other, to form, when required, practically one continuous bar A C. (See Fig. 1.) The hinge-plates *a c* (see Fig. 2) upon the ends of the standard A and bar C are made in the form of caps to cover said ends, and a spring-catch, E, (see Fig. 2,) is fitted to project through the face of the cap-plate *a* to enter and engage an opening cut in the face of the opposite cap-plate, *c*, and thereby confine and secure the standard and bar when brought together end to end. The catch is released as required to permit the scale-bar C to be turned upon its hinged joint and folded over against the standard A, as shown in Fig. 2, by means of a lateral button, E', projecting from the spring of the catch E, through the side of the cap-plate *a*, and by means of which the spring may be pressed inward.

The scale-bar C is embraced by a metallic slide, G, fitted to encircle it closely and yet leave its longitudinal slot D uncovered, (see Figs. 4 and 2,) and at the same time have a free longitudinal movement from end to end of the bar. Sufficient space is left, however, between one of the slotted faces of the bar and the corresponding end of the slide for the insertion therein of a flat elastic plate, H, secured at the end to the slide, and whose resiliency will tend to keep its opposite end also against the slide. This plate is of a width (see Fig. 4) sufficient to permit it to bear equally against the bar C on both sides of the slot therein, and it is forced by means of a thumb-screw, J, against the bar to clamp and secure thereby the slide G thereon. The thumb-screw J is fitted to work through the slide and bear with its inner end against the plate to force it against the bar, as shown in Fig. 3.

The inner end of a flat arm, L, is inserted into the slot D to bear against the inner face of the slide so that the arm shall project out through the slot D at an exact right angle to said face and to the face of the scale-bar. It is supported in this position by means of a hinge, M, pivoting it to the upper edge of the slide, as illustrated in Fig. 3, the hinged joint



permitting the bar to swing upward, (in the direction indicated by the arrow in Figs. 2 and 3,) so as to be wholly inclosed within the slot. (See dotted lines, Fig. 2.) When  
5 dropped into position at a right angle with the scale-bar C and its slide G, the arm L is made fast by a spring-catch, N, which, projecting out from the rear end of the bar at its lower free edge, is made to pass through and  
10 engage with the side of an opening pierced in the slide opposite thereto, as shown in Fig. 3. The catch may be released to liberate the arm and allow it to be folded up by lifting the projecting end of the catch N. The arm L being  
15 thus hinged and secured to the slide G will move with it through the slot D up and down upon the scale-bar C, so as to admit of adjustment to any desired height.

In the use of the device the bar C is opened  
20 up in a right line with the standard A, and automatically secured in said position by means of the catch E. The arm L is then opened out at a right angle to the scale-bar C, and is automatically secured and held  
25 fast in this position by means of the catch N, and, having been carried up or down the scale-bar to the desired point, is made fast by turning the thumb-screw J.

When the device is not in use, the arm L is folded into the slot D of the scale-bar C, and  
30 the bar with its inclosed arm is folded alongside of the standard A, so that the device is reduced to a very compact form, admitting of being readily carried about.

I claim as my invention—

The combination, in a height-measure, with an upright standard secured upon a suitable base, of a longitudinally-slotted scale-bar hinged to the upper end of the standard to  
40 form a continuation thereof end to end and to fold down against the same, and fitted with an adjustable slide moving longitudinally upon the bar, carrying an arm pivoted thereto to fold within the slot and to open out there-  
45 from and be secured at a right angle with the bar, substantially in the manner and for the purpose herein set forth.

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

IRA WAINWRIGHT.

Witnesses:

A. B. MOORE,  
JOHN A. ELLIS.