

(No Model.)

W. C. GOODRICH.

HORSE.

No. 376,876.

Patented Jan. 24, 1888.

Fig. 1.

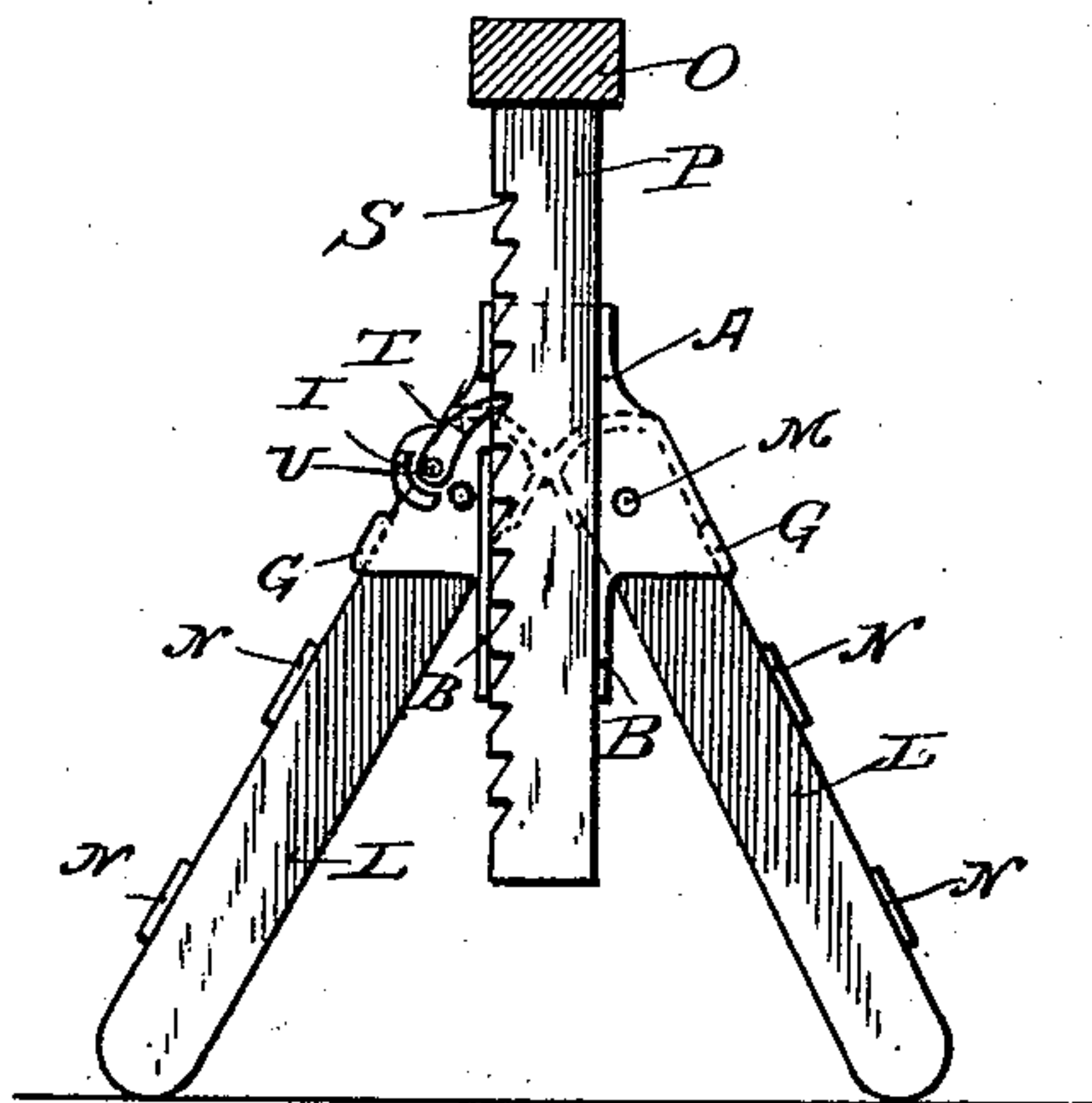


Fig. 2.

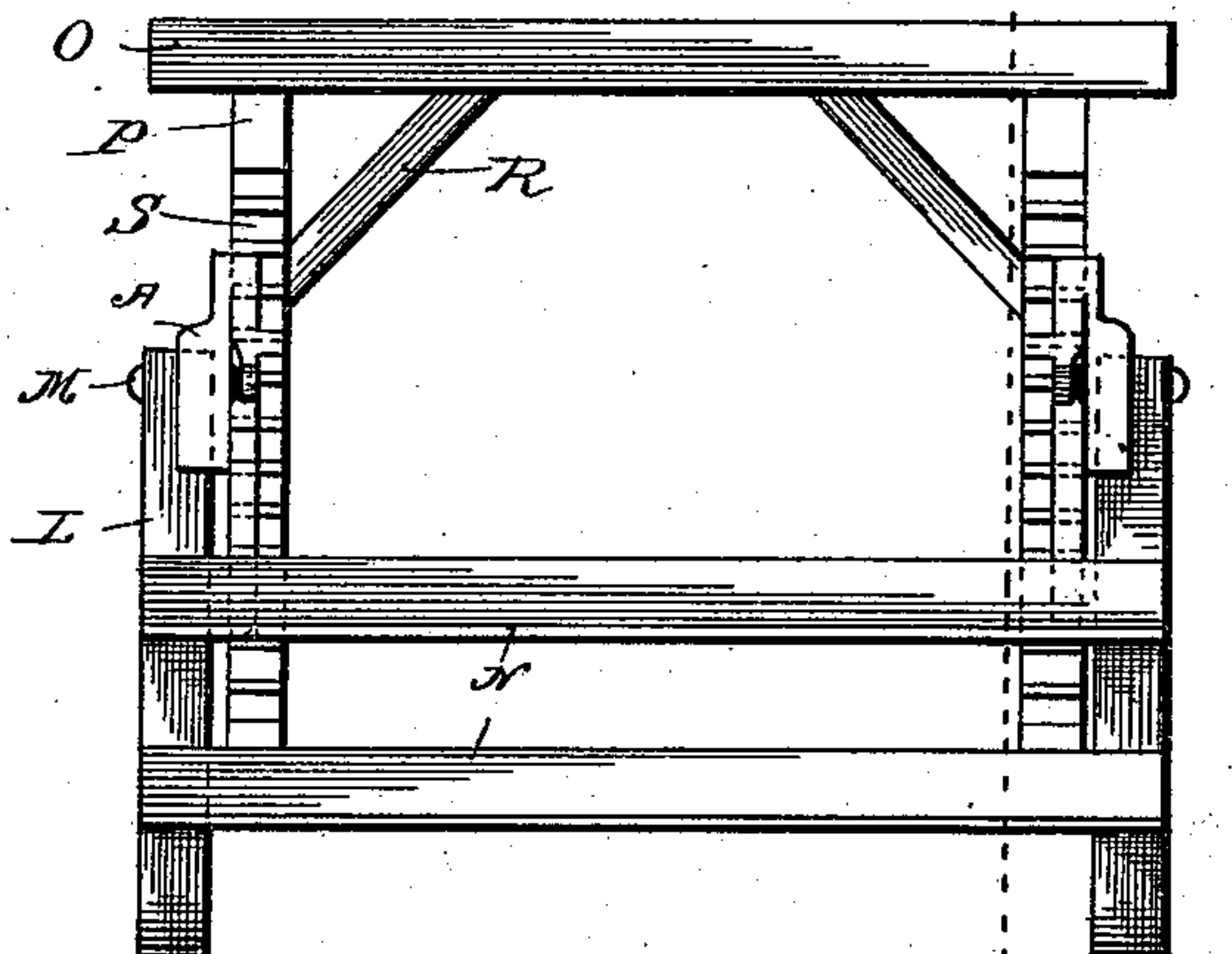


Fig. 4.

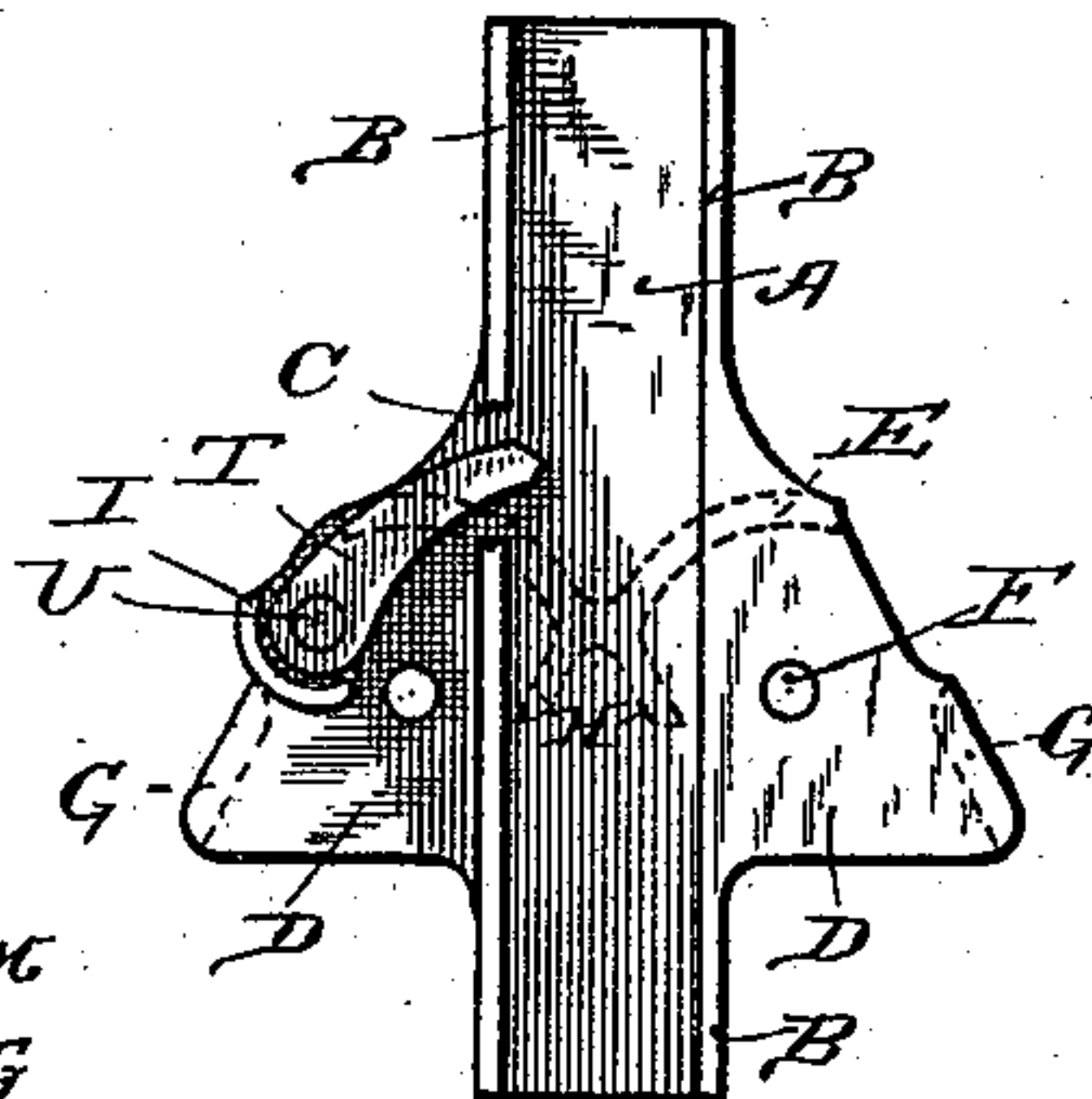


Fig. 3.

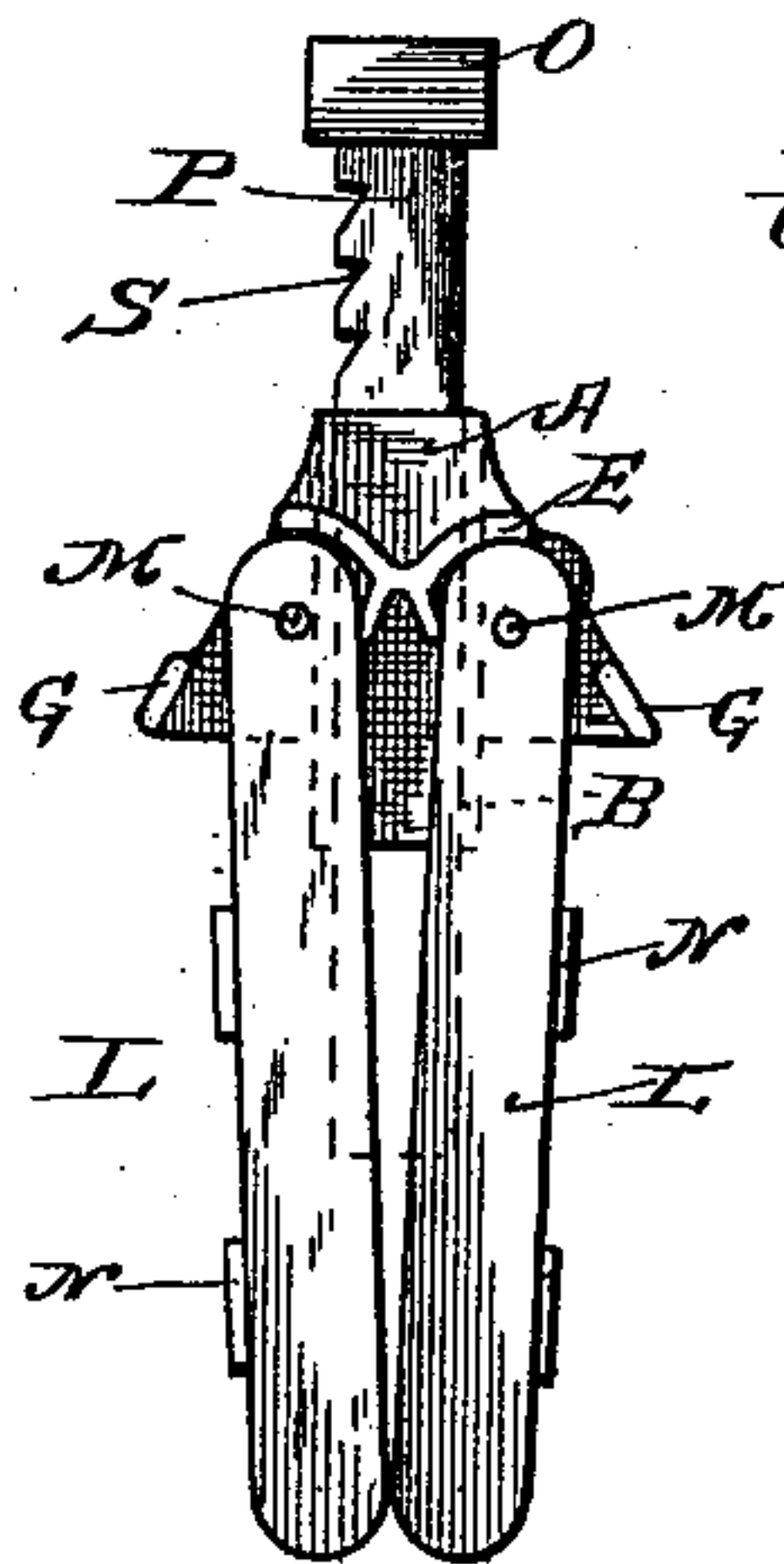


Fig. 6.

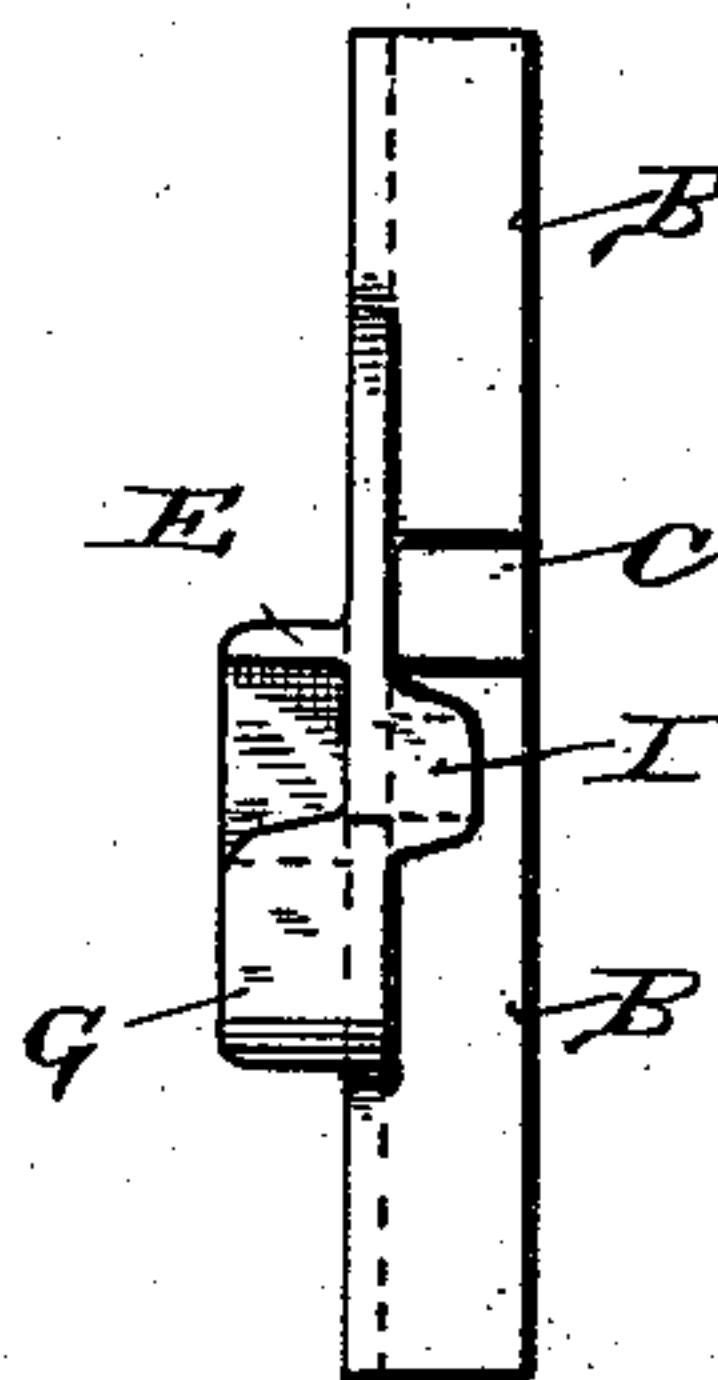
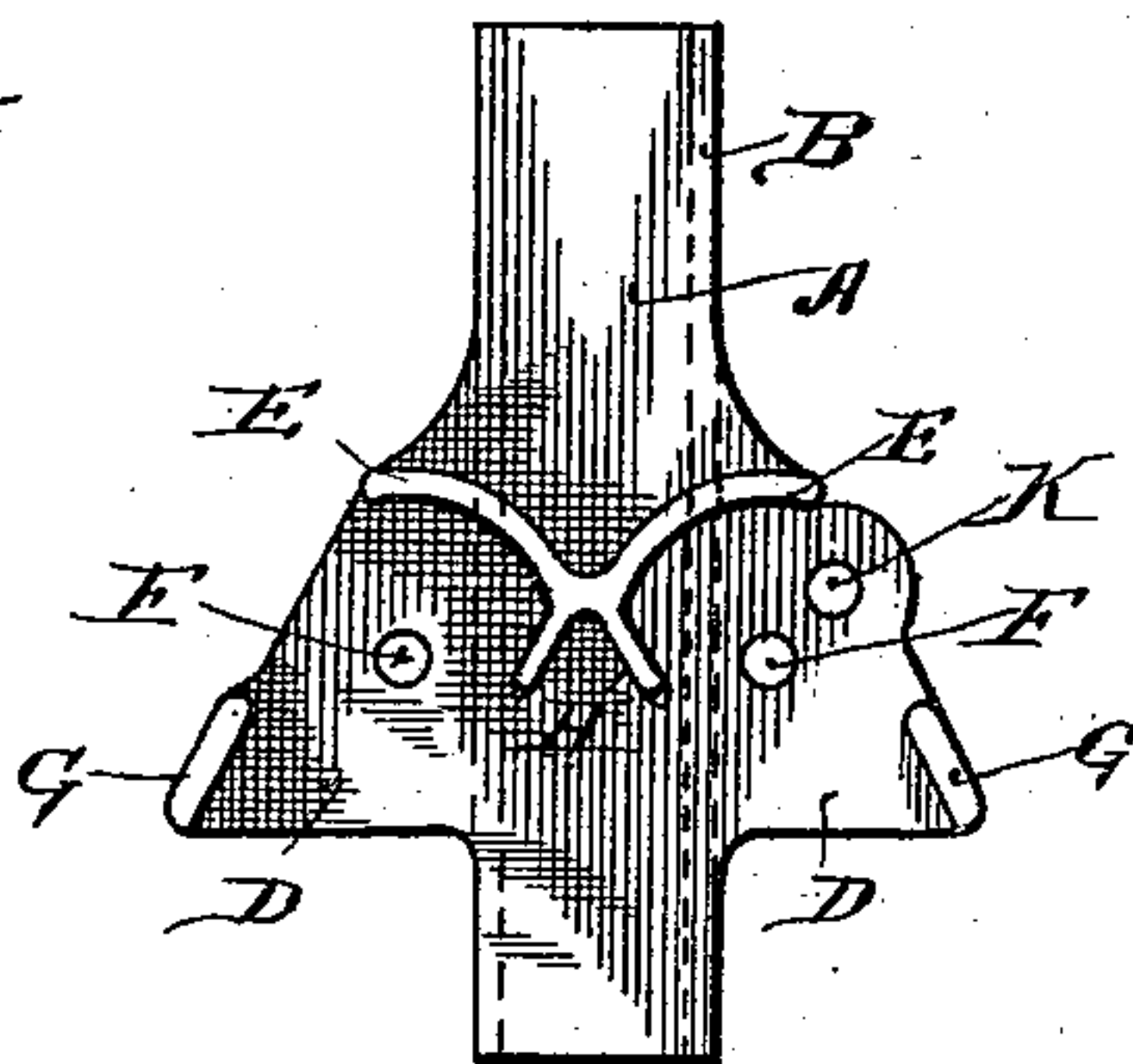


Fig. 5.



Witnesses

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SPECIFICATION forming part of Letters Patent No. 376,876, dated January 24, 1888.

Application filed October 6, 1887. Serial No. 251,611. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. GOODRICH, a resident of Newburg, in the county of Orange and State of New York, have invented certain new and useful Improvements in Horses; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to an improvement in horses, such as are employed by carpenters, masons, painters, and other mechanics; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a sectional view, on the line *x x* of Fig. 2, of a horse embodying my improvements, showing the legs spread and the head raised. Fig. 2 is a side elevation of the same. Fig. 3 is an end elevation showing the legs closed. Fig. 4 is a view of the outer side of one of the plates showing the pawl. Fig. 5 is a view of the inner side of one of the plates showing the flanges in which the supporting-legs fit, and Fig. 6 is an end view of one of the plates.

A represents a pair of plates made of malleable iron or other suitable metal, and of the shape shown. On one side of each plate is formed a pair of vertical parallel guide-flanges, B, in one of which is an opening, C. The central portions of the plates are enlarged to form outwardly-projecting wings D on the outer sides of the flanges B.

E represents curved flanges formed on the plates on the sides opposite the flanges B. Arranged concentrically with relation to the flanges E are openings F, which are made in the ears D. On the outer edges of the said ears are formed downwardly-diverging stop-flanges G, and at the inner ends of the curved flanges E, at the centers of the plates, are formed downwardly-diverging flanges H, which are parallel with the adjacent flanges G. The said flanges G and H are formed on the same sides of the plates with the flanges E. At the outer edge of one of the wings of each plate, on the same side with the guide-flanges

B, are curved flanges I, and concentrically with the said flanges are openings K.

L represents supporting-legs, which have their upper ends rounded and adapted to fit on the under sides of flanges E. The said legs are secured to the plates in pairs by pivotal pins or rivets M, that pass through openings near their upper ends and are secured in the openings F. By this arrangement the legs are adapted to be distended, as shown at Fig. 1, or closed to a position approximately parallel with each other, as shown at Fig. 3. When the legs are spread, they bear against the stop-flanges G, as will be readily understood. The flanges E, which bear against the upper curved ends of the legs, relieve the pivots M of strain, and consequently enhance the durability of the said pivots.

N represents longitudinal bars which connect the legs L in pairs on opposite sides of the horse.

The head of the horse comprises the top bar, O, having the vertical depending standards P near its ends and the inclined braces R connecting the said top bar and standards. The said standards fit between the flanges B on the opposing inner sides of plates A, and are each provided on one side with the ratchet-teeth S.

T represents pawls or dogs, which are secured to the inner side of one of the wings D of each plate A by means of pivot pins or rivets U, which pass through openings near the lower ends of the dogs or pawls and are secured in the openings K. The lower ends of the dogs or pawls are curved and caused to bear upon the upper sides of the curved flanges I, and thereby relieve the pivots U of strain, and the free upper ends of the dogs or pawls pass through the openings C in the flanges B and engage the ratchet-teeth of the standards P. The said flanges B serve as guides for the said standards and retain the latter in a vertical position when the top of the horse is raised or lowered, and the dogs or pawls, by engaging the ratchet-teeth on the standards, serve to secure the top at any desired vertical adjustment, as will be readily understood.

A horse thus constructed is light, cheap, and simple, may be readily adjusted at any desired height, is very strong and durable,

and is adapted to be folded compactly when not in use, thus enabling the horse to be readily stored and transported.

Having thus described my invention, I claim—

1. The combination of a plate having guide-flanges, the supporting-legs pivoted to said plate, and the head having the depending standards fitted between the guide flanges, substantially as described.

2. The combination of a plate having guide-flanges, the supporting-legs pivoted to said plate, the head having the depending standards fitted between the guide-flanges and vertically adjustable on the plate, and the detaining devices to secure the said standards at any desired adjustment, substantially as described.

3. The plates A, having the vertical parallel guide-flanges B on one side, the laterally-projecting wings D, and the curved flanges E and diverging stop-flanges G on the side opposite the flanges B, for the purpose set forth, substantially as described.

4. The plates A, having the vertical parallel guide-flanges B on one side, the laterally-projecting wings D, and the curved flanges E and diverging stop-flanges G on the side opposite the flanges B, in combination with the supporting-legs having their upper ends pivoted to the plates and bearing against the under sides of flanges E, the vertically-adjustable head having the depending standards fitted between the guide-flanges and provided with the ratchet-teeth, and the dogs or pawls pivoted to one of the wings of each plate and engaging the said ratchet-teeth, substantially as described.

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

WILLIAM C. GOODRICH.

Witnesses:

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