

(No Model.)

F. M. CLARK.

SAW HORSE.

No. 368,192.

Patented Aug. 16, 1887.

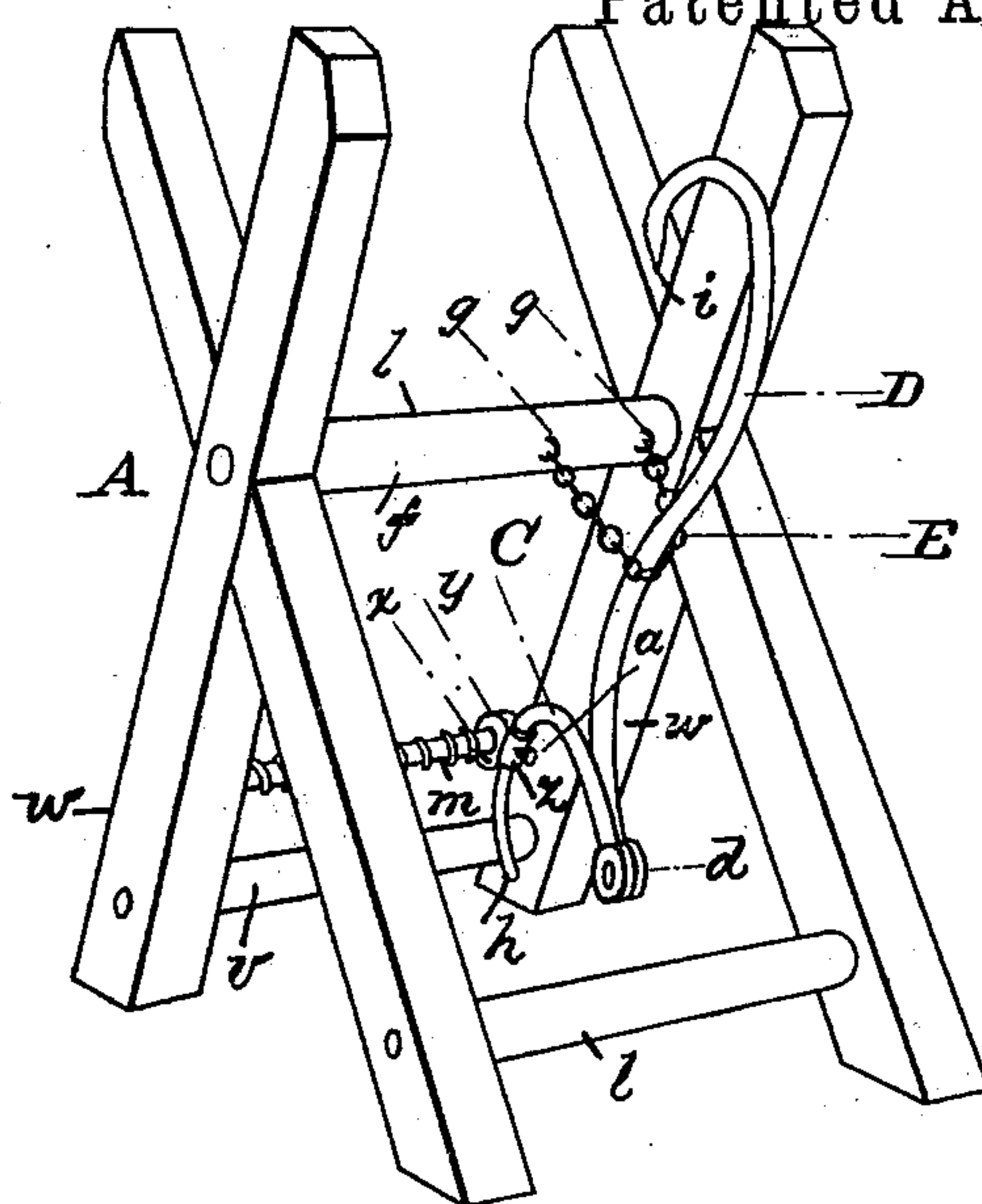


Fig. 1.

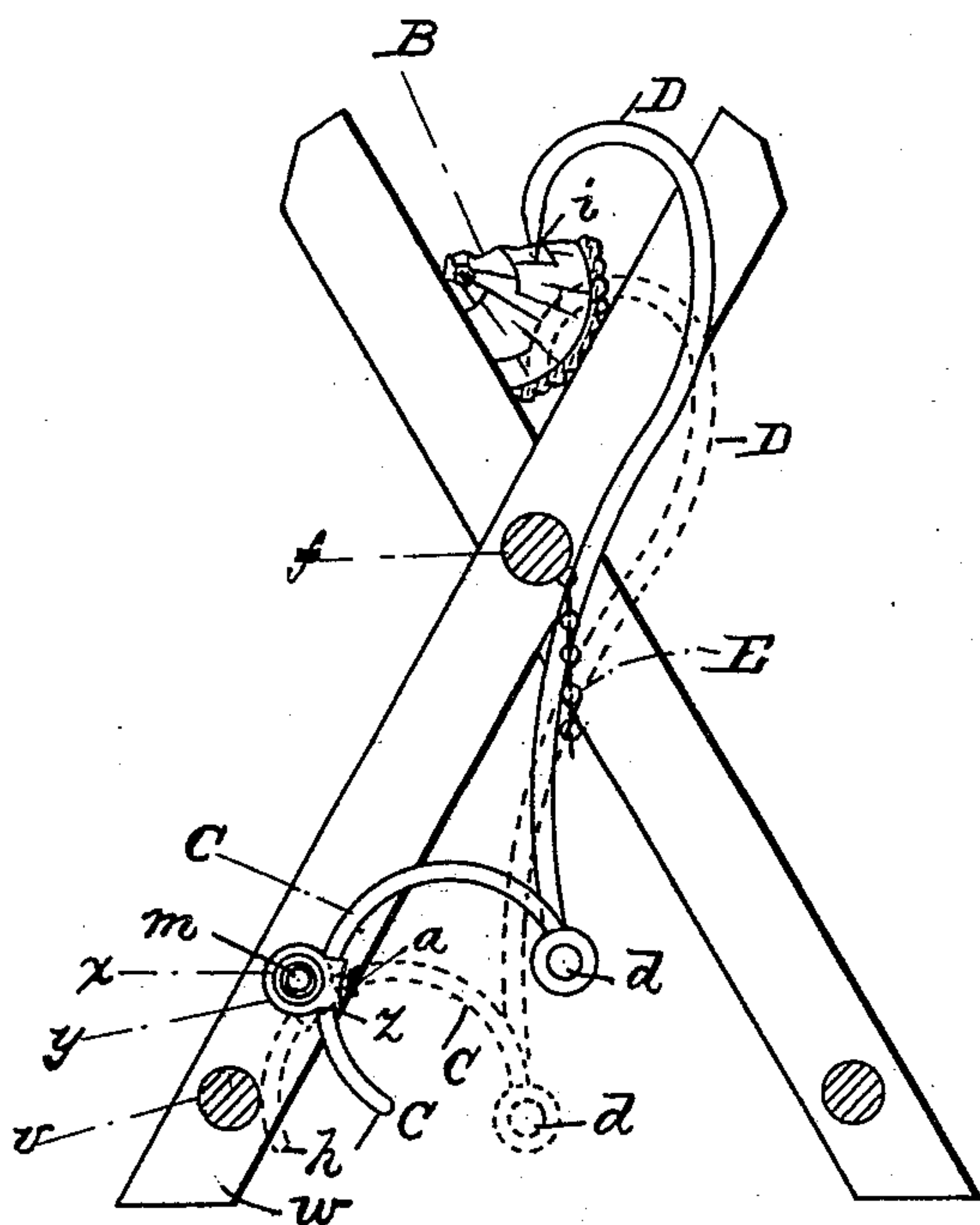


Fig. 2.

Witnesses=
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UNITED STATES PATENT OFFICE.

FRANK M. CLARK, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THOMAS HAWLEY, OF SAME PLACE.

SAW-HORSE.

SPECIFICATION forming part of Letters Patent No. 368,192, dated August 16, 1887.

Application filed May 4, 1887. Serial No. 237,040. (No model.)

To all whom it may concern:

Be it known that I, FRANK M. CLARK, of Boston, in the county of Suffolk, State of Massachusetts, have invented a certain new and useful Improvement in Saw - Horses, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an isometrical perspective view of a saw-horse embodying my improvement, and Fig. 2 a vertical transverse section of the same taken through the center of Fig. 1, on the dotted line 1 1, certain parts being shown in side elevation, and the horse represented as in use.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates more especially to means for holding the stick of wood firmly in its seat on the saw-horse while being sawed; and it consists in a novel construction and arrangement of parts, as hereinafter more fully set forth and claimed, the object being to produce a more effective and otherwise desirable device for this purpose than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation:

In the drawings, A represents the body of the saw horse or buck, and B a stick of wood. The body is of the ordinary form and construction usual in saw-horses of this description, excepting as hereinafter described. A horizontally-arranged rod, *m*, is secured to the legs *w* at the rear of the body A, immediately above one of the lower stays or tie-rods, *v*, and around said rod is coiled a spring, *x*, having one of its ends attached to the leg *w* and the other to a clamp, *y*, journaled on said rod.

To the main tie-rod *f*, near the right-hand side of the body A, is secured a chain-loop, E,

by means of staples *g*, and within said loop is disposed a vertically-arranged hook, D, provided at its upper end with a sharp point, *i*, for penetrating the stick of wood, and having its lower end hinged at *d* to the end of a curved arm or rod, C, as best seen in Fig. 2. The clamp *y* is provided with a loop, *z*, through which the arm C passes, and with a set-screw, *a*, for adjusting the arm, said arm being preferably bent in the arc of a circle corresponding with the arc through which the hinge *d* passes when the hook D is raised or lowered.

In the use of my improvement, the stick of wood B having been placed in position on the saw-horse, the operator raises the hook D until the point *i* rests upon the stick, thereby raising the hinge *d*, causing the arm C to turn the clamp *y* on the rod *m* and tighten or wind up the spring *x*, which acts torsionally to constantly force the arm C downward, thereby drawing the hook down firmly against the wood B, and holding it securely in position in a manner which will be readily obvious without a more explicit description. When the wood B is removed from the horse, the hook D is prevented from falling to the ground by the loop E, and the free end *h* of the curved arm C strikes against and is held up by the rod *v*, the hook, arm, and clamp then occupying the positions shown by the dotted lines in Fig. 2. The chain E being flexible, "renders" easily and permits the hook to be raised and lowered readily without cramping.

I do not confine myself to securing one end of the spring *x* to the body A, as it may be secured to the rod *m* and perform the same function.

Having thus explained my invention, what I claim is—

1. In a saw-horse, the rod *m*, provided with the clamp *y* and spring *x*, and the hook D, provided with the curved arm C, hinged thereto at its lower end, combined and arranged to operate substantially as described.

2. In a saw-horse of the character described, the combination of the following instrumentalities, to wit: a body, a rod arranged horizontally between the rear legs of

said body, a clamp provided with a loop and journaled on said rod, a spring coiled around said rod and having one of its ends secured to said clamp and the other to said body or to the rod, a curved arm disposed in said loop, a vertically-arranged hook hinged to the end of said arm, and a chain-loop secured to the

main tie or center bar of said body for supporting said hook, substantially as set forth.

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