

(No Model.)

T. A. ROGERS.
LOAD BINDER.

No. 401,857.

Patented Apr. 23, 1889.

Fig. 1.

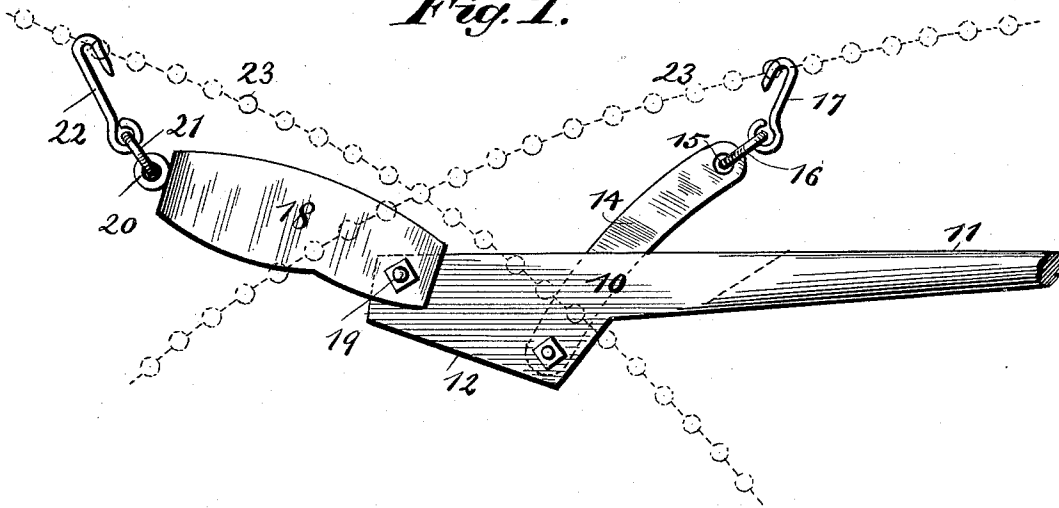


Fig. 2.

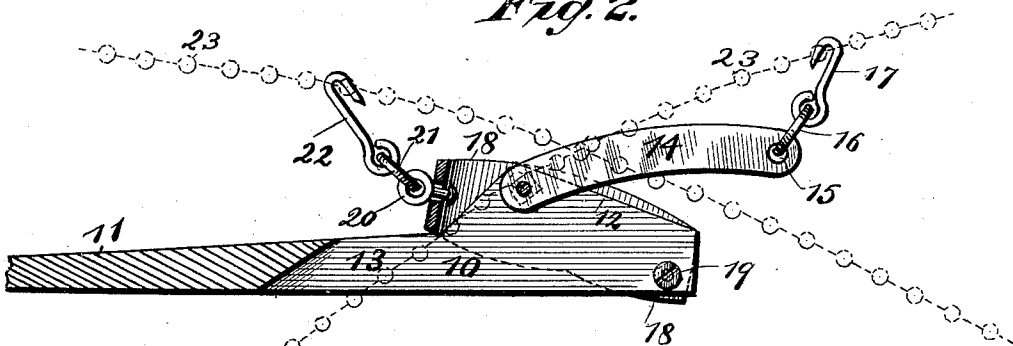
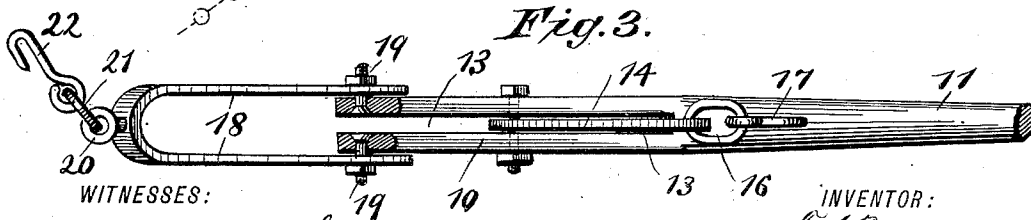


Fig. 3.



WITNESSES:

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THOMAS A. ROGERS, OF BLOOMDALE, OHIO.

LOAD-BINDER.

SPECIFICATION forming part of Letters Patent No. 401,857, dated April 23, 1889.

Application filed December 7, 1888. Serial No. 292,906. (No model.)

To all whom it may concern:

Be it known that I, THOMAS A. ROGERS, of Bloomdale, in the county of Wood and State of Ohio, have invented a new and useful Load-Binder, of which the following is a full, clear, and exact description.

My invention relates to an improvement in load-binders, and has for its object to provide a simple, durable, and conveniently-manipulated device adapted to effectually tie the load, especially a load of logs.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

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

Figure 1 is a plan view of the device illustrating its connection with a chain prior to tightening the latter. Fig. 2 is a sectional plan view illustrating the position of the device when manipulated to tighten the chain, and Fig. 3 is an edge view.

The body of the device consists of a head, 10, having an attached handle, 11. One edge of the head 10, which I term the "upper edge," is straight, and in essentially the same plane with the axis of the handle. The opposite edge, 12, of the said head is inclined downward in the direction of the handle, as best illustrated in Fig. 1. The head is also provided with a slot, 13, extending through from edge to edge, and in the slot 13, at the widest point of the head, and near the inclined edge, one end of a curved arm, 14, is pivoted in any approved manner. The free end of the curved arm 14 is made to project upward through the said slot, and is provided with an aperture, 15, through which a link, 16, is passed, having attached thereto a grab-hook, 17. At the reduced end of the head 10 a clip-like or U-shaped arm, 18, is pivoted at or near the straight edge thereof, as is also best illustrated in Figs. 1 and 3. This clip-like or U-shaped arm preferably consists of a metal strap bent upon itself, and the mem-

bers of the arm thus bent are made to engage with the opposite sides of the head.

A pivot pin or bolt, 19, is made to attach each member of the head, two bolts being usually employed, as illustrated in Fig. 3. In the bow portion of the arm 18 a swivel, 20, is attached, carrying a link, 21, to which a grab-hook, 22, is secured. In operation the arm 18 is carried outward essentially in line with the body of the device, and the curved arm 14 is carried in an opposite direction through the head-slot 13, as aforesaid, and the hooks 17 and 22 are made to engage with opposite ends of the chain or rope 23, to be tightened, as shown in Fig. 1. The handle 11 is then carried in the direction of the operator to the position illustrated in Fig. 2, wherein it will be observed that the inclined edge of the head is uppermost, the clip-like or U-shaped arm brought down to a firm contact with the handle at its intersection with the inclined surface of the head, while the curved arm occupies an essentially horizontal position above the inclined head-surface, extending beyond the outer end of the said head. Thus each end of the chain is carried inward in opposite directions and the body of the chain made to firmly bind upon the load. When the device is in the position illustrated in Fig. 2, the line of draft is such that the body and head will normally remain in a locked position.

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

1. In a load-binder, the combination, with the head 10, having a handle portion, 11, a curved arm pivoted at the inner lower edge of the head, and a grab-hook linked in the outer extremity of said arm, of an essentially U-shaped or clip-like arm pivoted to the outer extremity of the head, near the upper edge thereof, and a grab-hook swiveled to the body portion of the U-shaped arm, substantially as shown and described.

2. In a load-binder, the combination, with a longitudinally-slotted head, 10, provided with one straight and one inclined longitudi-

nal edge, a curved arm, 14, pivoted in the slot near the lower end of the inclined edge, and a grab-hook linked in the outer end of said arm, of the essentially U-shaped or clip-like arm 18, pivoted upon the outer end of head, near the straight edge, and a grab-hook swiveled in the vertical wall of the arm 18, said inclined edge of the head adapted to

engage the vertical wall of the clip 18 when the binder is in its locked position, all arranged substantially as and for the purpose described.

THOMAS A. ROGERS.

Witnesses:

RICHARD B. ROGERS,
JOHN B. ROGERS.