(No Model.)

# J. H. BENJAMIN.

## LOG BINDER.

No. 300,437. Patented June 17, 1884.

Fig. 1.

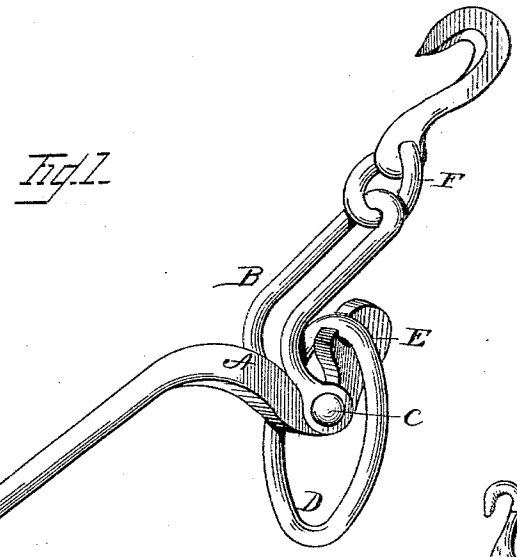



Fig. 2.

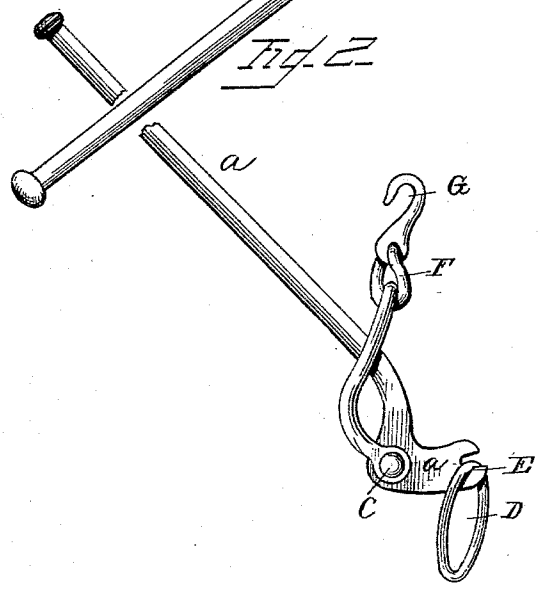
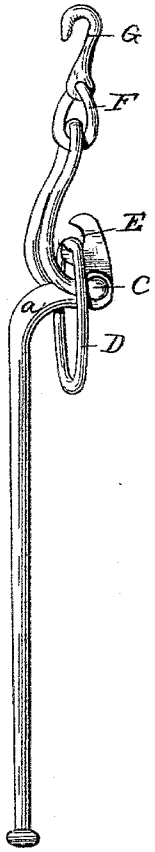



Fig. 3.




WITNESSES

Wm. B. Edmonds.

L. L. Miller

INVENTOR

John H. Benjamin.

per Chas. H. Fowler.

Attorney

N. PETERS, Photo-Lithographer, Washington, D. C.

# UNITED STATES PATENT OFFICE.

JOHN H. BENJAMIN, OF SAGINAW, MICHIGAN.

## LOG-BINDER.

SPECIFICATION forming part of Letters Patent No. 300,437, dated June 17, 1884.

Application filed December 8, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN H. BENJAMIN, a citizen of the United States, residing at the city of Saginaw, in the county of Saginaw and State of Michigan, have invented certain new and useful Improvements in Log-Binders; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 is a perspective elevation. Fig. 2 is a side elevation. Fig. 3 is a side elevation.

Like letters of reference denote like parts.

A is a lever. B is a clevis. C is the fulcrum of the lever A. D is a ring to be fastened to one end of the binding or bunk chain. E is a hook in the end of the lever A, formed with and of the same piece. F is a link. G is a grab-hook. The lever A is attached to the clevis B by the fulcrum C.

To operate my improved log-binder the grab-hook G is hooked onto the binding-chain, with the handle of the lever A thrown up, as shown in Fig. 2. The hook E is also hooked into the ring D. The handle of the lever A is then forced down to the position shown in Fig. 3, and rests against the load. In the downward motion of the handle of the lever A, the fulcrum C passes through the ring D and stops on the opposite side, and the hook E is forced to the opposite side of the fulcrum C by the changed position of the lever A, thereby moving the hook E a sufficient distance to take up all the slack in the binding-chain, and binds the load as firmly as may be desired. The lever A is held in place by the strain produced on the binding-chain. To unbind the load the handle of the lever A is forced out toward the operator and away from the load until the fulcrum C passes through the ring D. The strain on the binding-chain then throws the handle of the lever A quickly up and reverses the position of the lever A, and the ring D unhooks from the hook E at the same time by the momentum of the lever A, throwing the short end of the lever A and hook E quickly out from the load and ring D, when the lever A strikes the load or link F.

I claim the following advantages in my invention over all other log-binders: first, greater convenience in operating, both in binding and unbinding the load, in being lighter and being less complicated, and especially in unbinding, by requiring no care or time of the operator to unhook; second, by doing away with the possibility of the binder being caught by the loss of slack in the binding-chain in unbinding by the spread of the load; third, it is cheaper constructed, requiring less material and time, and being less complicated.

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

The combination, with the lever A, of the clevis B, fulcrum C, and ring D, in the manner and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

J. H. BENJAMIN.

Witnesses:

JAMES MILLER,

FRED B. SWEET.