

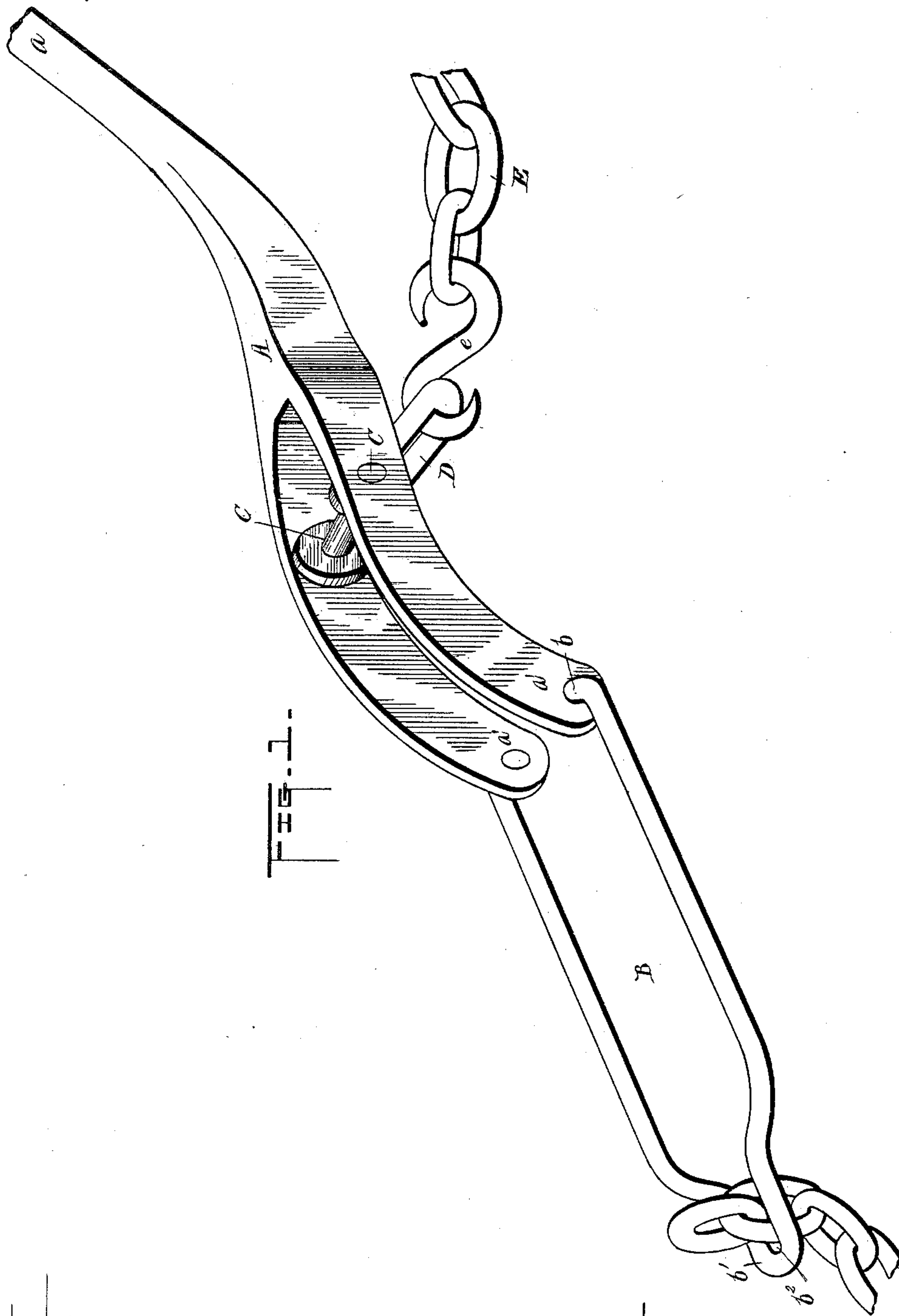
(No Model.)

2 Sheets—Sheet 1.

W. M. FARR.
SELF LOCKING LOAD BINDER.

No. 398,714.

Patented Feb. 26, 1889.



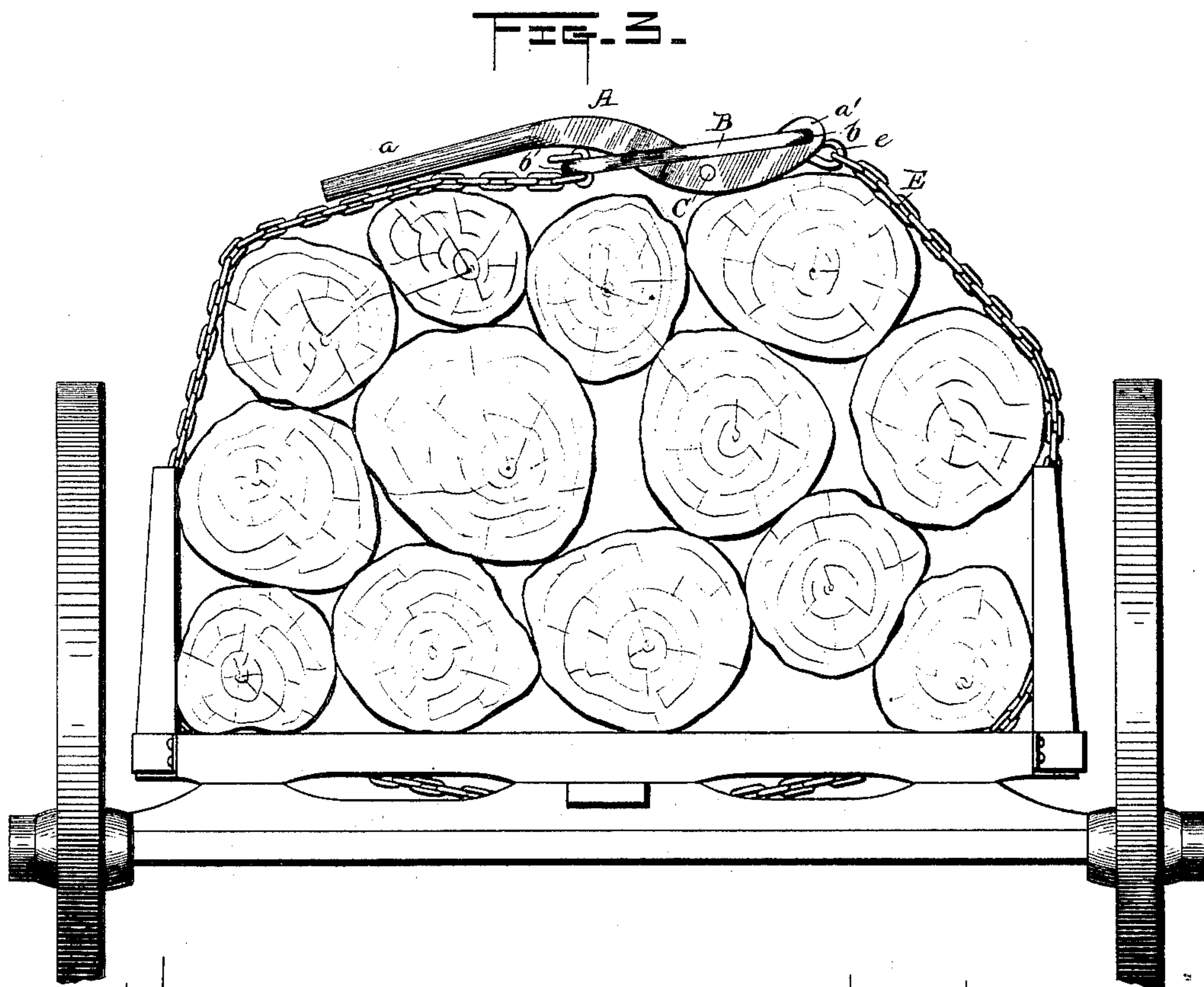
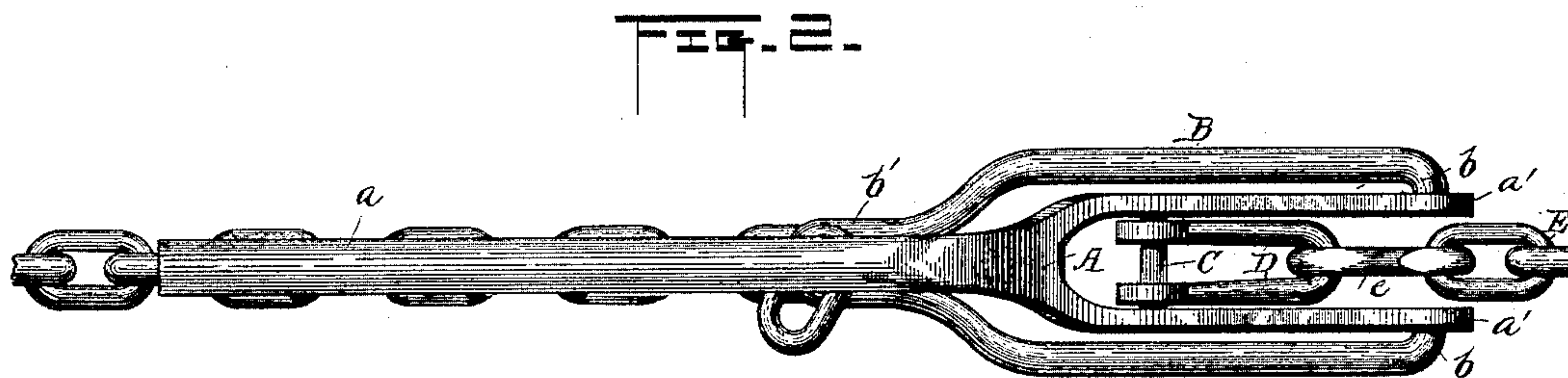
WITNESSES:
Deverance
W. W. Deane.

INVENTOR:
William M. Farr,
By *L. Deane,*
his Attorney.

2 Sheets—Sheet 2.

No. 398,714.

Patented Feb. 26, 1889.



Witnesses:
 Severance.
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UNITED STATES PATENT OFFICE.

WILLIAM M. FARR, OF OLEAN, NEW YORK.

SELF-LOCKING LOAD-BINDER.

SPECIFICATION forming part of Letters Patent No. 398,714, dated February 26, 1889.

Application filed October 2, 1888. Serial No. 286,981. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. FARR, a citizen of the United States of America, residing at Olean, in the county of Cattaraugus and State of New York, have invented certain new and useful Improvements in Self-Locking Load-Binders; 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 appertains to make and use the same.

Figure 1 is a perspective view of this device, the parts in position ready to be locked upon the article around which the chain has been placed. Fig. 2 is a top plan view. Fig. 3 is an end elevation showing a loaded wagon and the device as when locked upon the load.

This invention has for its object to provide a device for binding together or in a load lumber or logs upon wagons or sleighs or otherwise for transportation; and the novelty consists in the construction of the parts and in their combination, all as will now be fully set forth and explained, reference being had to the accompanying drawings.

In the drawings, A denotes a lever having at one end a handle, *a*, and the opposite end forked. In the ends of the forks *a' a'* are pivoted the bent ends *b* of the open locking-link B, so that said link shall have free motion upon and over this end of the lever. The closed end *b'* of the link opposite to the pivot is crowded together or contracted, so as to form a slot or socket, *b²*. This slot or socket *b²* is designed to form a lock for the binding-chain, as will be hereinafter explained. At the crotch or inner end of the forked part of the lever is a bolt, C, securely attached, on which freely moves the clevis D. To this clevis the binding-chain E is attached by the S-shaped hook *e*. The alternate links of the binding-chain being at right angles to each other, any one of the links can be so turned in respect to the slot or socket *b²* of the open link that it will fit snugly into it. The slot should be made of the right size to adapt it for the size of the chain-link. When any link of the chain, excepting the first, is placed in the slot, the link above and below will prevent its slipping up or down, and the strain

upon the chain will hold it fast in place. While the lever and link are being folded together the forked ends *a' a'* shut inside of the link B until bolt C, by reason of the curve in the forked ends *a' a'*, passes the line of draft and draws below the fulcrum-point, furnishing a complete lock of itself. The chain being attached to the lever within its forks and the locking-link pivoted to the outer end of the levers and the forked ends being curved, when the lever and link are shut or folded together, the fulcrum-point of the lever is thrown outside of the line of draft and the draft upon the chain holds the binding device closely and securely locked. All these parts are preferably made of metal. The lever may have, as now shown, a straight handle, and the forked part must be curved. This shape adapts the lever to the shape of the load rather better than if this part of the lever were straight, and furnishes a means of locking. In this and other details of the mere construction there can be adopted many merely mechanical changes, which will in no manner avoid the essential idea which has now been set out and explained—to wit, the binding or tightening and fastening of the binding-chain.

In using this device pass the binding-chain around the load, hook the chain in the crotch of the lever-fork, lay the lever down across the load with the points of the forks down and the link unfolded, then pass the chain through the link, draw it up reasonably tight and drop into slot at small end of link; now tighten chain by lifting lever up, so as to fold the link and lever-forks together, until the forked part of lever shuts inside of the link, so that the bolt C falls inside of the line of draft, the chain falling between and below the points of the lever-fork and link, holding them folded together.

While I have above specified logs and lumber as the articles upon which this binder is adapted for use, it will be readily understood that I do not mean to be confined to such use, because it can be applied to any articles that can be bound in a load upon its carriage or otherwise.

For some uses this binder can be made of

wood and rope or of wood and metal. The mere materials of which it is made are not absolutely necessary features in the invention.

Having now described my invention, what I claim is—

1. The binder and locker herein described, consisting of a forked lever, a chain attached thereto at one end within said fork, and an open link movable on and over the end of said lever and provided at its outer end with a socket wherein said chain can be engaged, substantially as set forth.

2. The lever A and chain E, attached at one end thereto, and the link B, pivoted at one end to said lever and at its opposite end contracted, whereby there is provided a means for engaging the free end of the chain in and to the link, substantially as set forth.

3. The combination of the lever A, having the curved forked part, the chain E, attached at one end inside the said forks, the link B,

pivoted at its bent ends in the ends of the lever-forks, its opposite end, b' , formed into a socket, b^2 , all substantially as and for the purposes set forth.

4. The binder and locker consisting of a forked lever; chain, and link, the several parts constructed and all combined as hereinbefore described, and the ends of the lever being curved, whereby when the lever-fork and the link are shut or folded together, the fulcrum-point of the lever being thrown outside of the line of draft, the draft upon the chain attached to the end of the link and to the clevis holds it fast or locks it.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM M. FARR.

Witnesses:

W. H. MANNING,
U. V. SAGE.