

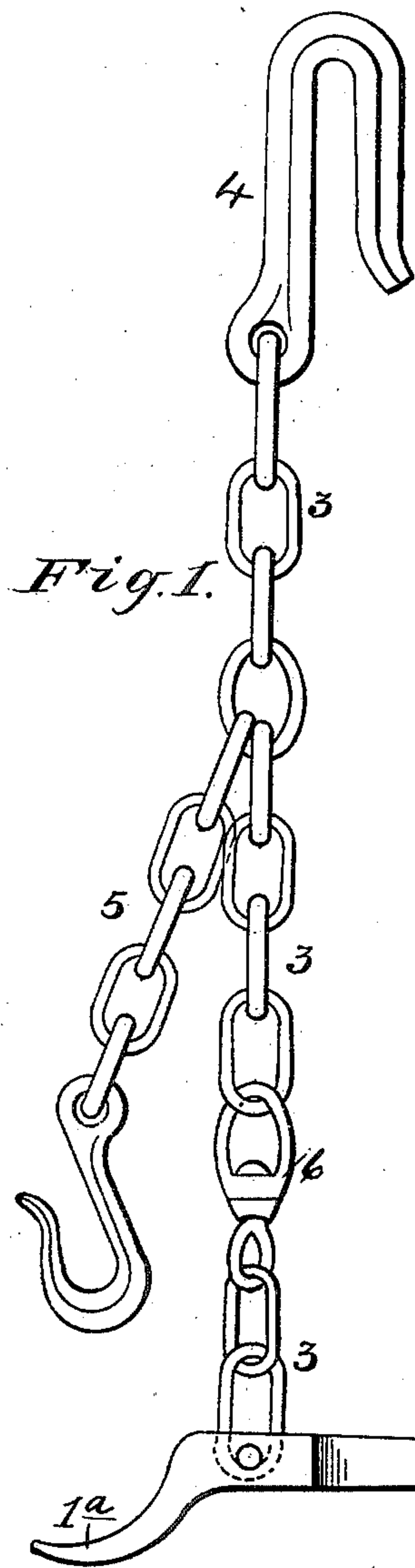
No. 688,190.

**Patented Dec., 3, 1901.**

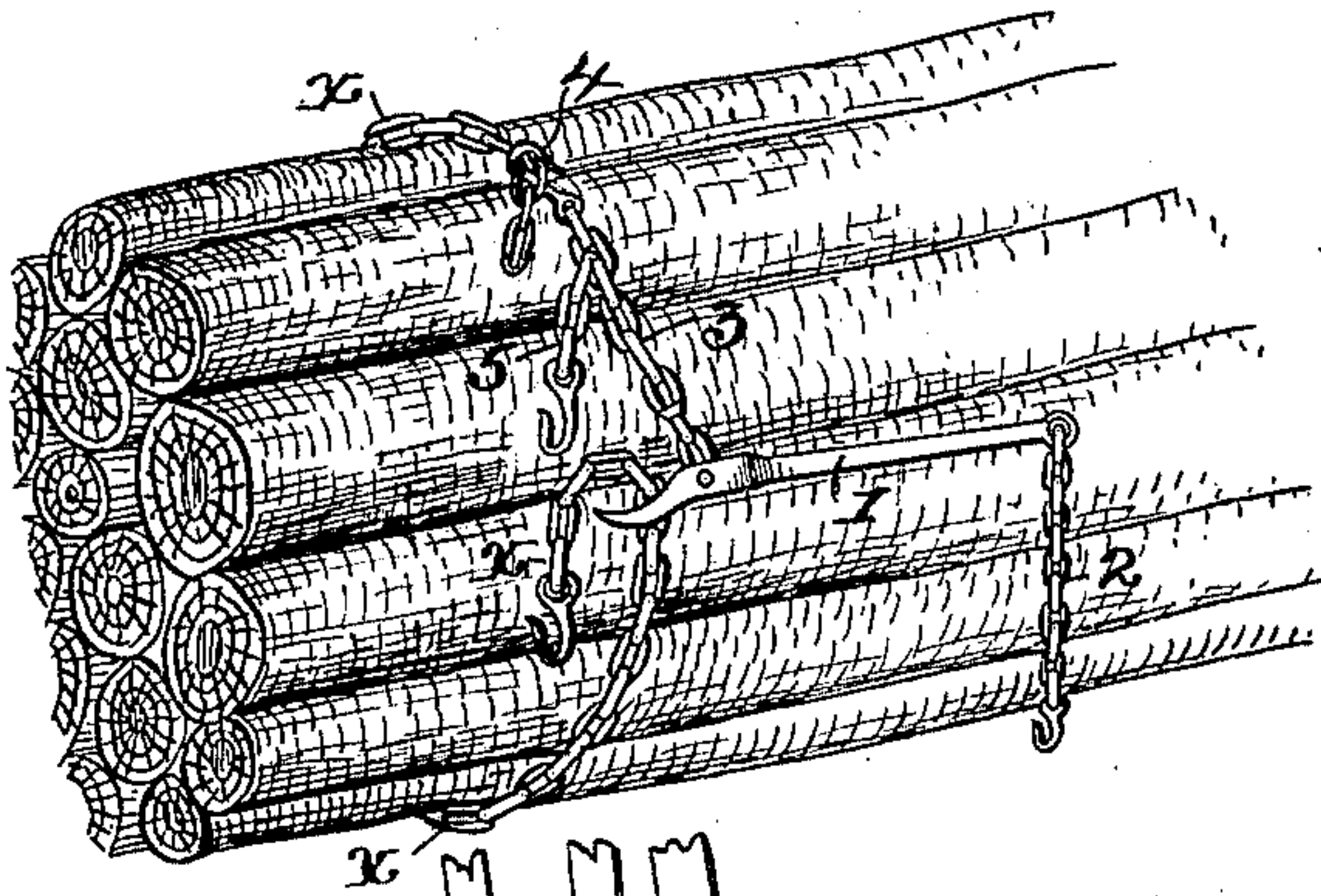
**J. MORTENSON.**  
**LOAD BINDER.**

(Application filed July 27, 1901.)

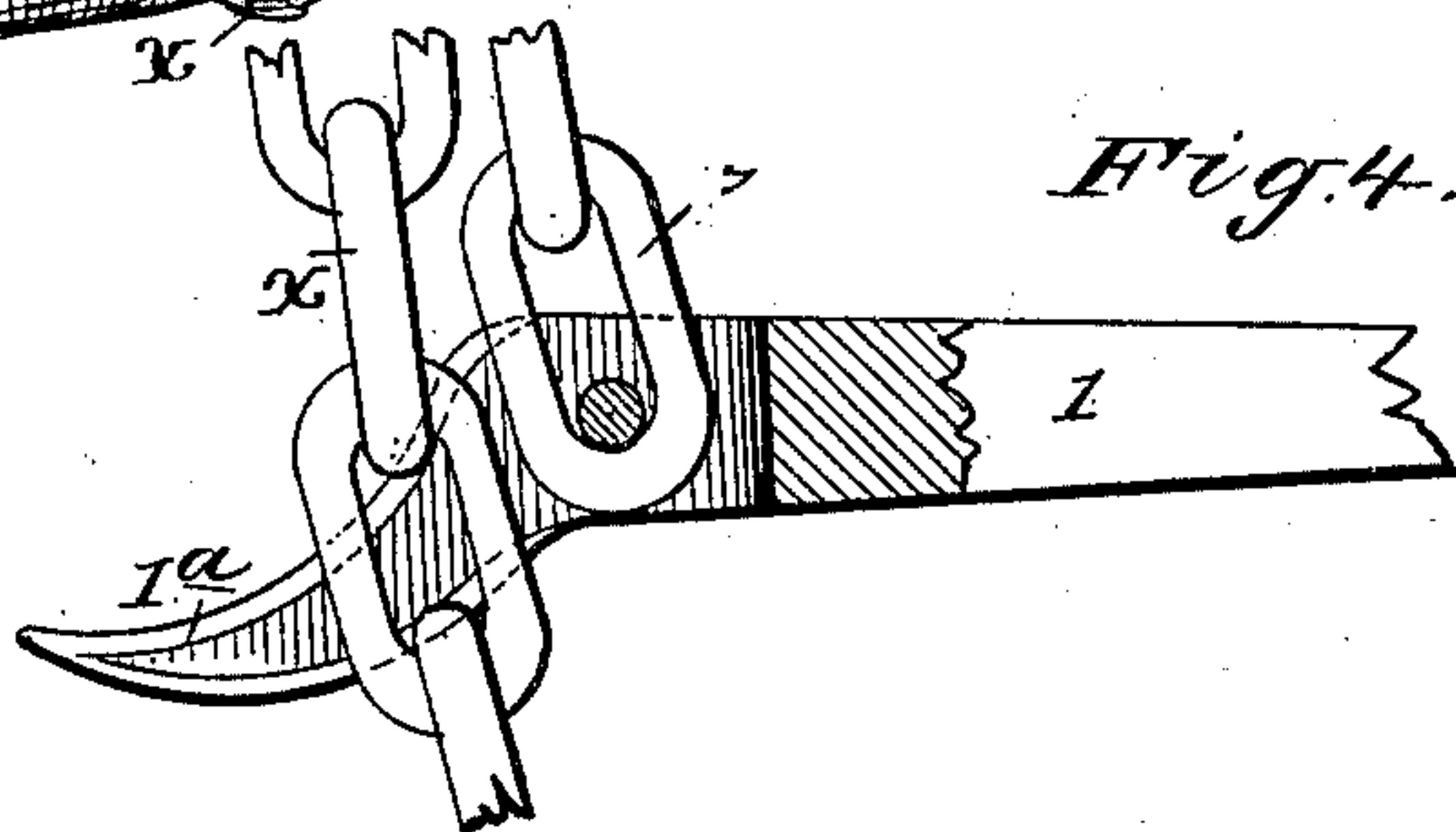
(No Model.)



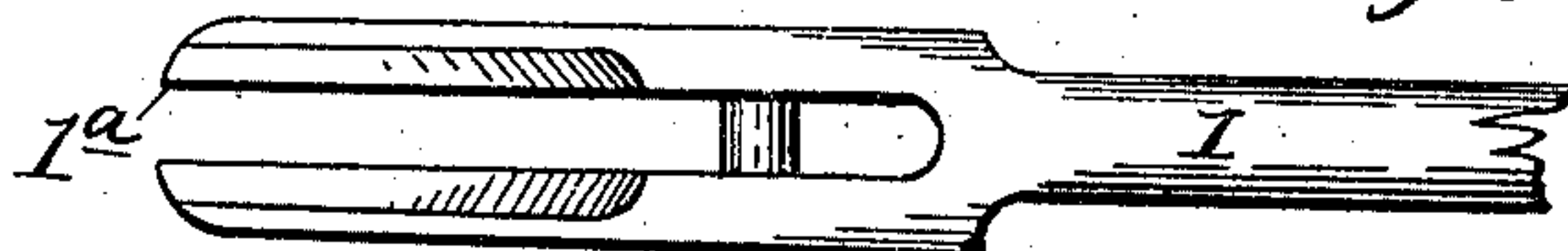
*Fig. 2.*



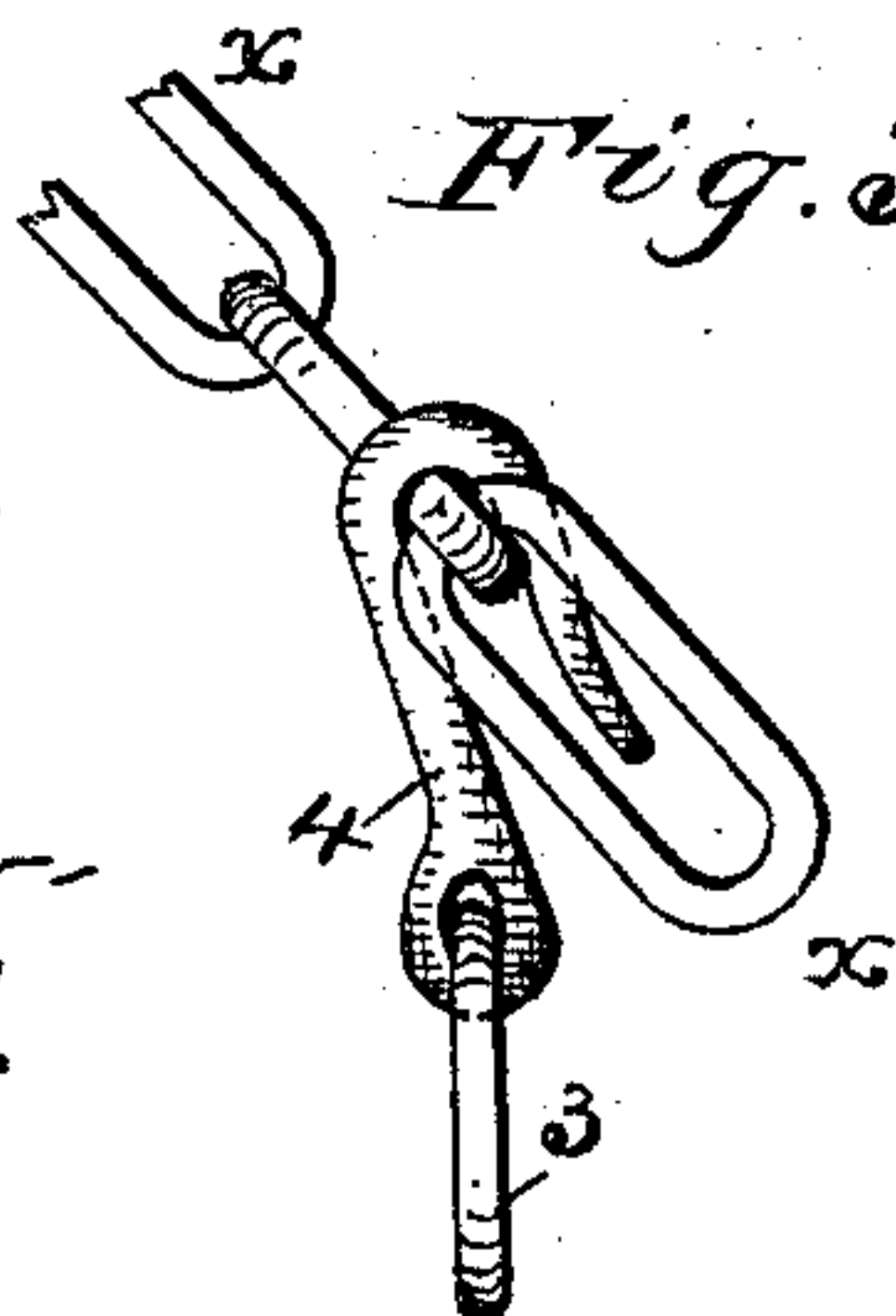
*Fig. 4.*



*Fig. 5.*



*Fig. 3.*



**WITNESSES:**

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# UNITED STATES PATENT OFFICE.

JOHN MORTENSON, OF NEIHART, MONTANA.

## LOAD-BINDER.

SPECIFICATION forming part of Letters Patent No. 688,190, dated December 3, 1901.

Application filed July 27, 1901. Serial No. 69,926. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN MORTENSON, a citizen of the United States, residing at Neihart, in the county of Cascade and State of Montana, have invented certain useful Improvements in Load-Binders, of which the following is a specification.

My present invention is an improvement on that for which I have received Letters Patent No. 651,257, dated June 5, 1900, and it is embodied in such changes and additions as enable it to be used with any ordinary binding or log chain, whereby the use of a chain of indefinite length and forming a permanent attachment of the binder is dispensed with.

The details of construction, arrangement, and mode of use are hereinafter described with reference to accompanying drawings, in which—

Figure 1 is a plan view of my improved apparatus. Fig. 2 is a perspective view illustrating its practical use in connection with an ordinary binding or log chain. Fig. 3 is a detail view illustrating the connection between my apparatus and the ordinary binding or log chain. Fig. 4 is a central longitudinal section of the lever forming part of the apparatus and illustrating the attachment of chains thereto. Fig. 5 is a plan view of a portion of the lever.

The chief parts of my improved binder are the forked lever 1, its locking or securing chain 2, attached to its outer end, the binding-chain proper, 3, provided with an elongated hook 4, and a short stay-chain 5. The lever 1 has curved parallel forks or jaws 1<sup>a</sup>, and the binding-chain proper, 3, is pivoted between the jaws at the angle of the lever, as shown in Fig. 4. In my original invention the chain 3 was made of such length as adapted it to be passed around any load to which the apparatus might be applied. The apparatus was therefore heavy, unwieldy, and difficult to handle, as well as expensive to ship. In my present invention I have dispensed with such chain and substituted therefor a short one having an elongated hook at its outer end and also provided with a swivel, whereby it is adapted for use with any ordinary binding or log chain. As shown best in Fig. 1, the chain 3 is provided with a swivel 6 at a point near the lever 1, and the hook 4 at its outer end is so constructed that the opening therein is an elongated slot having parallel sides.

In practical use the apparatus is applied as shown in Fig 2, where the hook 4 (see also Fig. 3) is engaged with a link of an ordinary binding or log chain  $\alpha$ , while the other end of the chain  $\alpha$  is similarly engaged with the jaws 1<sup>a</sup> of the lever 1. Then by pulling upon the chain 2 at the outer end of lever 1 the attachment is strained so as to draw the chain  $\alpha$  taut, and so securely bind the logs or other load to which the apparatus may be applied. The apparatus may therefore be sold and shipped at much less cost than the original. It is further apparent that the hook 4 is so constructed as to adapt it for engagement with any particular link of the binding-chain, and also that it may be rotated for this purpose by reason of the provision of the swivel 6.

It will be seen that my present invention is lighter, smaller, and may be furnished at less cost than the original, and also that it is adapted to be used by the purchaser with any ordinary chain, such as farmers or logmen usually employ.

It will be understood that the lever may be secured in the locking position by use of a rope or chain secured in any suitable manner to its longer arm; but the stay-chain 2 is a far more convenient and effective device for the purpose. The said chain 5 may be used as an additional means for securing or locking the binding-chain  $\alpha$ , or it may be employed to support the hook end of the chain  $\alpha$ , if occasion should require.

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

1. The improved binding apparatus, comprising the forked lever, the binding-chain, attached thereto, and having a swivel and a terminal hook whose slot is elongated and parallel-sided, substantially as shown and described.

2. The improved binding apparatus, comprising the forked lever, having curved jaws, a stay-chain secured to the outer end, and the binding-chain proper having a swivel and a terminal hook whose slot is elongated and parallel-sided, substantially as shown and described.

JOHN MORTENSON.

Witnesses:

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RICHARD BENNETT.