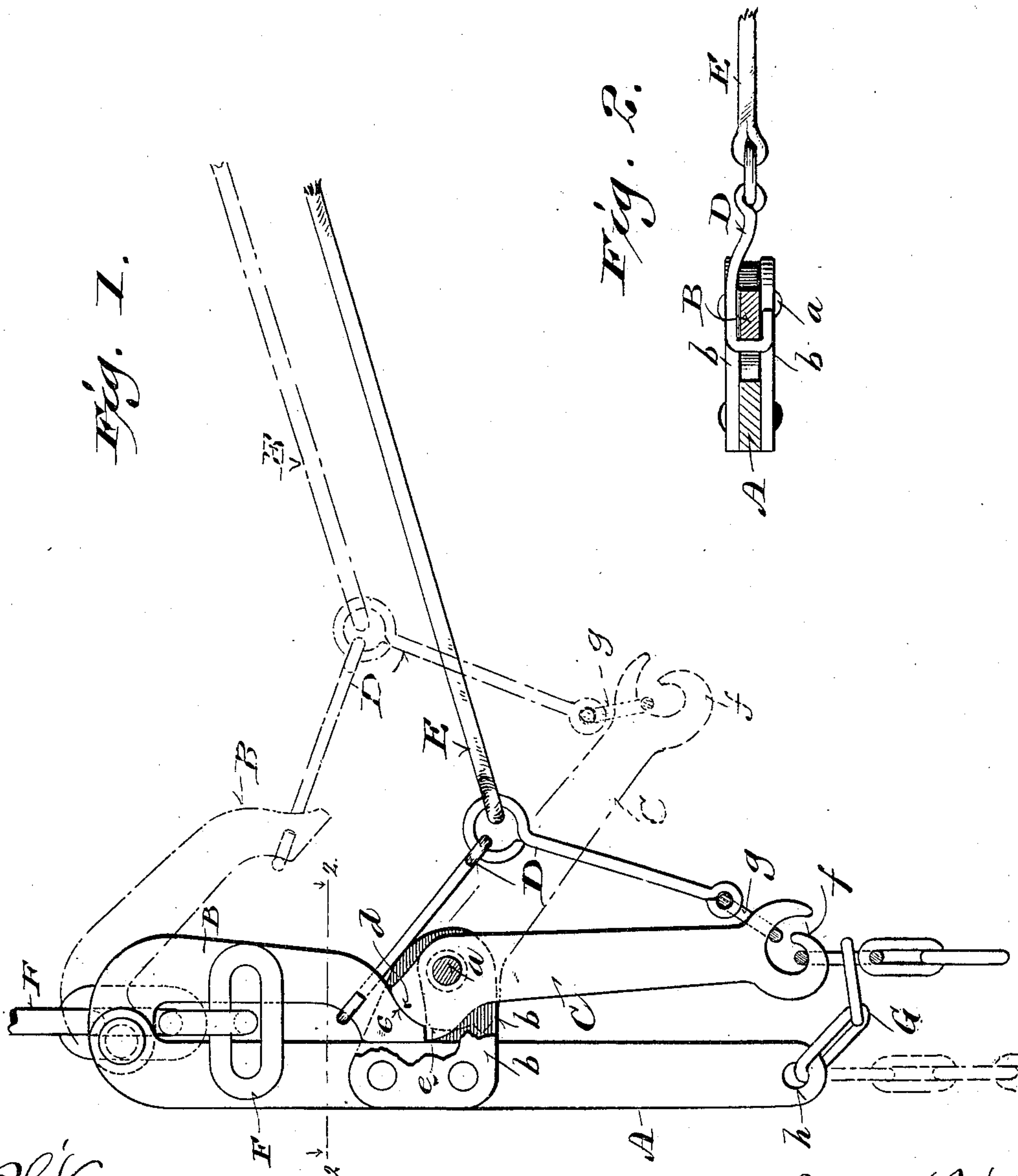


No. 825,468.

PATENTED JULY 10, 1906.

G. KERNIN.
CHAIN HOOK.

APPLICATION FILED MAR. 22, 1906.



Witnesses:
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UNITED STATES PATENT OFFICE.

GUSTAV KERNIN, OF CRANDON, WISCONSIN, ASSIGNOR OF ONE-HALF TO
H. F. LANDECK, OF CRANDON, WISCONSIN.

CHAIN-HOOK.

No. 825,468.

Specification of Letters Patent.

Patented July 10, 1906.

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To all whom it may concern:

Be it known that I, GUSTAV KERNIN, a citizen of the United States, and a resident of Crandon, in the county of Forest and State of Wisconsin, have invented certain new and useful Improvements in Chain-Hooks; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention refers to chain-hooks especially designed in connection with binding-chains for tying logs together for transportation, its object being to provide a hook which is capable of being securely locked, with means for readily attaching thereto a lanyard whereby said hook may be unlocked or opened at a safe distance from the load, so that accidents from the falling logs are effectually avoided, said accidents being common in logging industries, due to the fact that with chain-hooks of the usual type it is necessary for the operator to stand within reaching distance of the same when the chain is to be released from a load of logs.

Said invention consists in certain peculiarities of construction and combination of parts, as fully set forth hereinafter with reference to the accompanying drawings and subsequently claimed.

In the drawings, Figure 1 represents a chain-hook made in accordance with my invention, the hook being shown in locked position in connection with an end of a log-chain, its open position being illustrated in dotted lines. Said view also shows the unlocking-lanyard attached thereto; and Fig. 2 a cross-section of the same, as indicated by line 2 2 of Fig. 1.

Referring by letter to the drawings, A indicates a bar having pivoted thereto at one end a latch member B, the free end of which when locked rests against the edge of the bar and is held in this position by a locking-lever C, which lever is fulcrumed at its upper end on a pin *a*, secured in ears *b b*, riveted to the said bar. The free end of the latch B is formed with a curved nose flattened at its end, the outer curve *c* of the nose being struck on a radius from the locking-lever fulcrum, which lever has its short arm *d* similarly curved to nest with the curve *c* of the nose the lower end of said curve portion *d* being provided with a stop-lug *e*, arranged to abut the flattened end of the latch-member

nose when said latch is locked. The long arm of the locking-lever terminates in a scroll-loop *f*, which is provided for the reception of a ring *g* of one member of a grapple D, the other member being arranged with a hook for engagement with the inner edge of the latch-nose. The grapple members are centrally connected by a loop, to which is secured a lanyard E, which is of any desired length, for the purpose of releasing the chain-hook lock.

As shown in Fig. 1 of the drawings, the end link of a log-chain F is gripped in a throat formed between the latch and bar of the chain-hook. The other end of said chain (not shown) may be either fast to the side of a vehicle or, if desired, connected direct to the opposite end of the bar A; but in this instance said bar is shown as having a short chain section G connected thereto through an opening *h*, said section being for the purpose of attaching the hook to a car or other vehicle, while the log-chain F is secured to the opposite side thereof and is fast over the load of logs and gripped, as shown. The chain section G, as shown, may also be linked into the scroll of the lever, so as to provide additional safeguard against the unlocking of the device in transit, in which case it would be necessary to uncouple the same from said scroll before the lever C could be actuated to release the load. To release the hook, the operator adjusts the grapple to the position shown in the drawings and uncouples the chain-section G from the locking-lever, and thereafter moves to a safe distance and pulls the lanyard, which movement causes said locking-lever to assume the position as indicated by dotted lines, which position frees the latch, a further pull causing the same to open and free the end of log-chain from the throat. It is obvious, however, that said grapple may be connected to the lever C only, in which case the strain of the load upon the log-chain would be relied upon to open the latch B, and, further, while I have shown and described the lanyard in connection with a detachable grapple said lanyard may be, if desired, permanently attached to the lever. The arrangement of chains and their connections are immaterial to the essential features of my invention, which lie in the provision for locking the chain-hook in such a manner that

said lock may be tripped by a slight pull from a distance, thereby releasing the hook from the chain.

I claim—

- 5 1. A chain-hook comprising a pivotal latch member, a locking-lever for engagement therewith, and a grapple in connection with said latch and locking-lever for releasing the same.
- 10 2. A chain-hook comprising a bar, a latch in pivotal connection therewith, the free end of which is provided with a curved nose, a locking-lever pivoted to the bar, having its short arm curved and terminating in a stop-
- 15 lug for engagement with the free end of the latch, and a grapple for connection with the aforesaid latch and long arm of the locking-lever.
3. A chain-hook comprising a bar, a latch

in pivotal connection therewith, the free end 20 of which is provided with a curved arm, a locking-lever pivoted to the bar having its short arm curved and terminating in a stop-lug for engagement with the free end of the latch, means in connection with the free ends 25 of the aforesaid locking lever and bar, whereby they are coupled, and a grapple adapted to be connected to the locking-lever for actuating the same when uncoupled from the bar.

In testimony that I claim the foregoing I 30 have hereunto set my hand, at Crandon, in the county of Forest and State of Wisconsin, in the presence of two witnesses.

GUSTAV KERNIN.

Witnesses:

H. F. LANDECK,
J. C. TIBBY.