

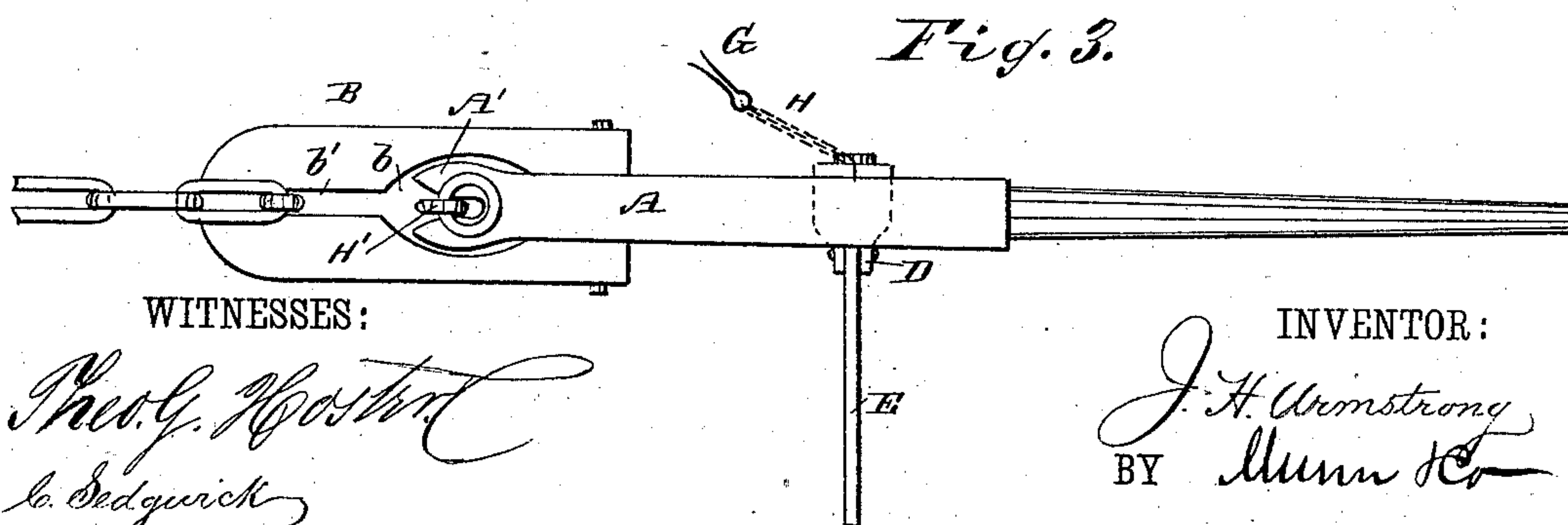
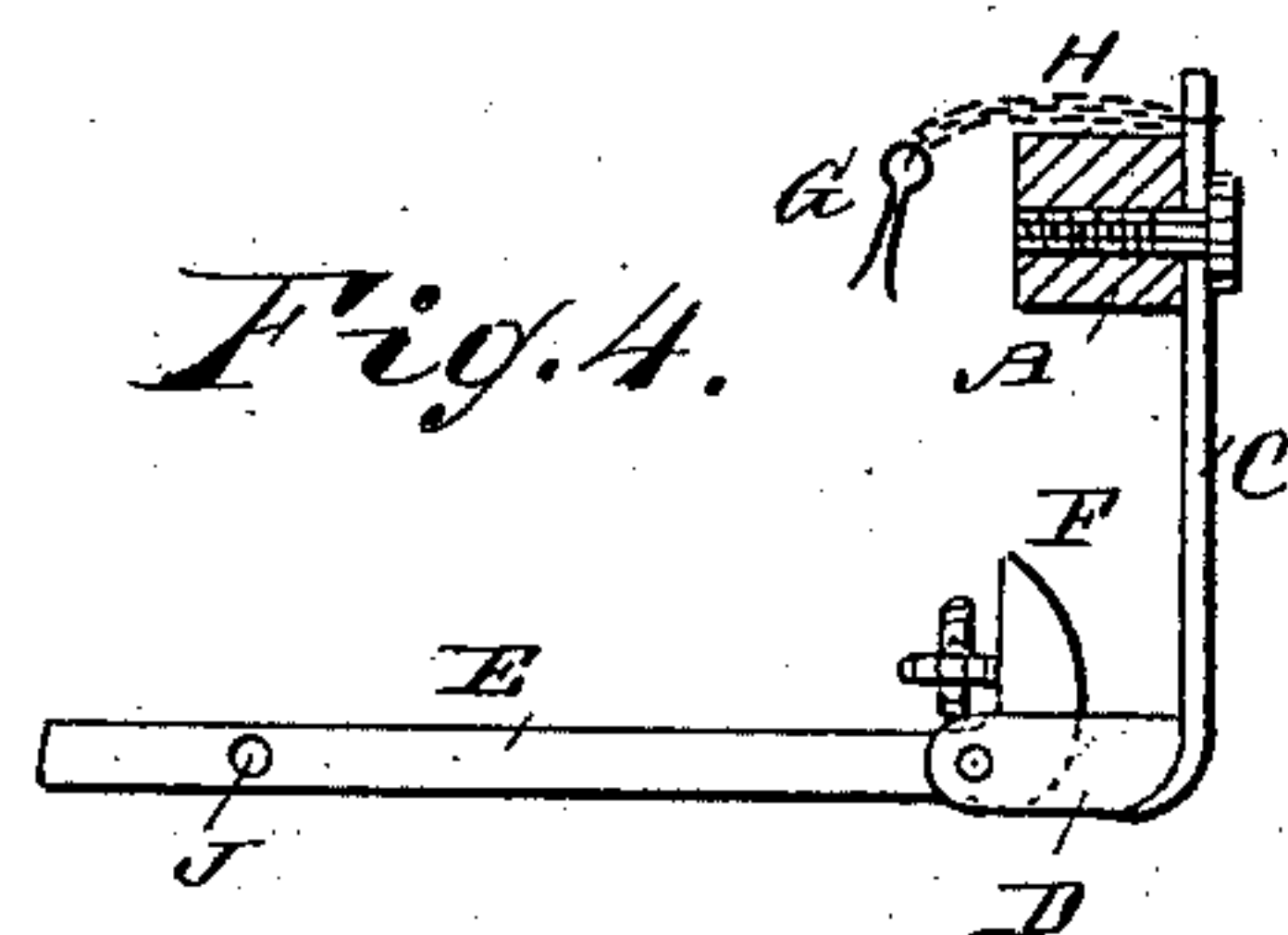
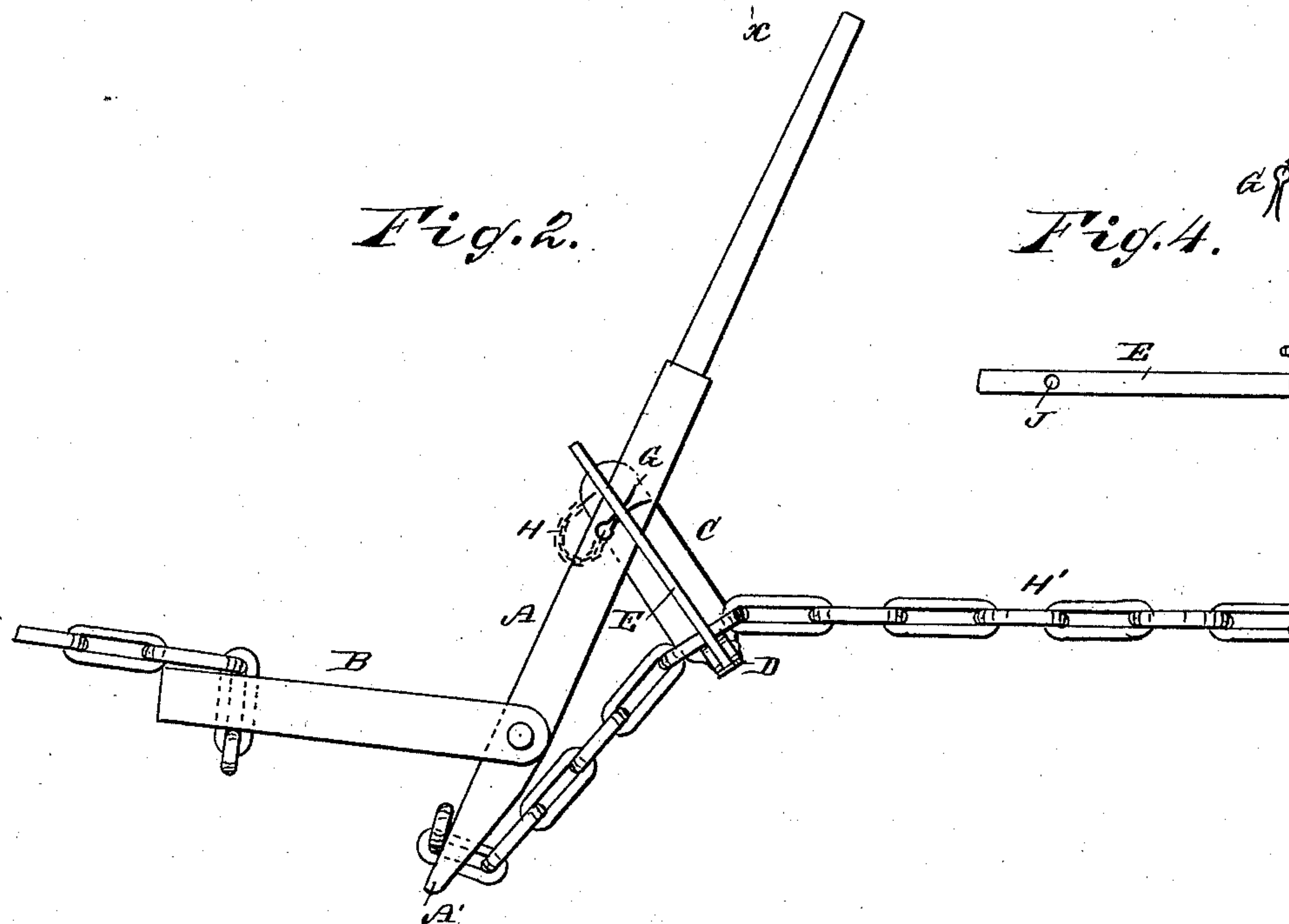
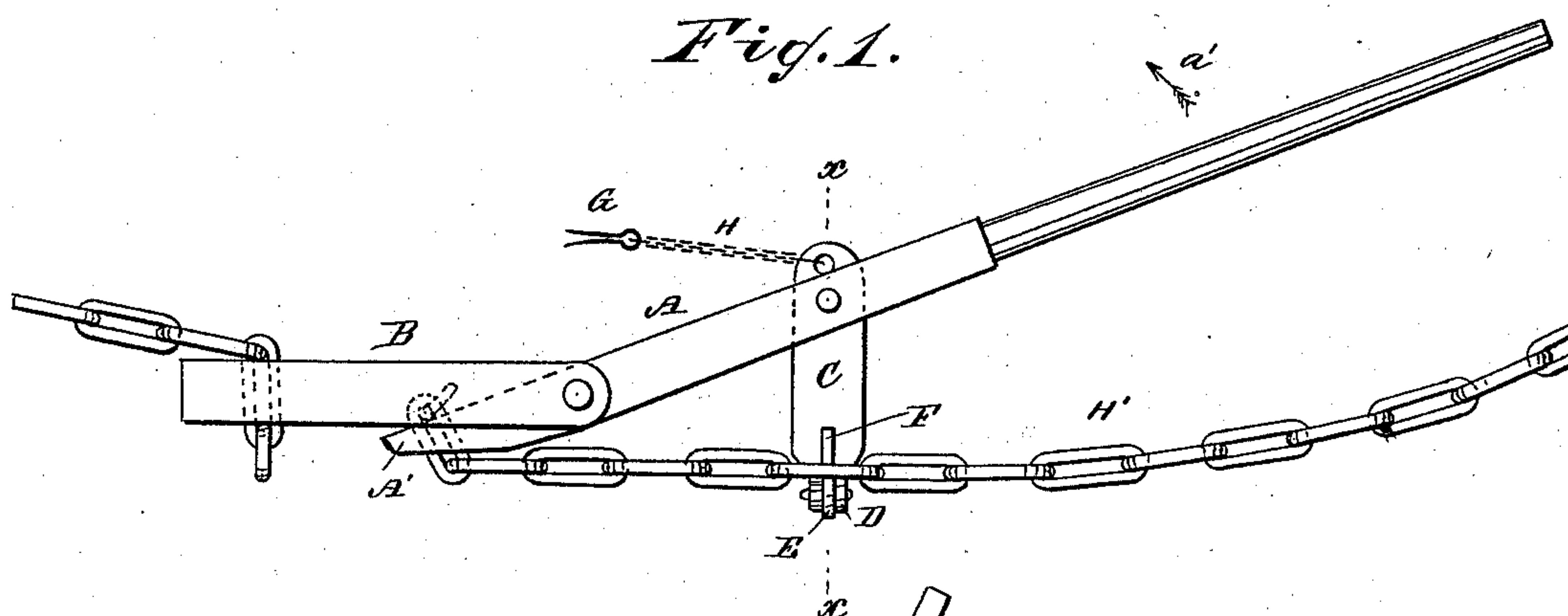
(No Model.)

J. H. ARMSTRONG.

CHAIN FASTENER.

No. 290,833.

Patented Dec. 25, 1883.



WITNESSES:

Theo. G. Horton
C. Sedgwick

INVENTOR:

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J. H. Armstrong
BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES HARVEY ARMSTRONG, OF PINCONNING, MICHIGAN.

CHAIN-FASTENER.

SPECIFICATION forming part of Letters Patent No. 290,833, dated December 25, 1883.

Application filed October 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. ARMSTRONG, of Pinconning, Bay county, Michigan, have invented a new and Improved Chain-Fastener, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device for drawing chains taut and holding them so.

The invention consists in a forked lever, to which a grab-link is pivoted, to which lever a bar is pivoted, to which in turn a latch is pivoted, which latch can be swung against the side of the lever, and held in place in this position for the purpose of holding a chain to draw it taut.

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

Figure 1 is a longitudinal elevation of my improved chain-fastener. Fig. 2 is a like view, showing a chain drawn taut. Fig. 3 is a plan view of the same; and Fig. 4 is a cross-sectional elevation of the same on the line *x x*, Fig. 1.

A lever, A, is provided with a chain grab or fork, A', at one end, and at or near the said end of the lever a grab-link, B, is pivoted to the same, which link is provided with an aperture, *b*, from which a longitudinal slot, *b'*, extends to near the end of the link. A bar, C, is pivoted to one side of the lever, and is provided at its bottom with a rectangularly projecting forked arm, D, to which a latch-lever, E, is pivoted, which is provided with an angular arm, F, passing between the jaws of the

forked arm D. A spring-pin, G, is held by a chain, H, to the bar C, and is adapted to be passed through an aperture, J, in the latch-lever E. One end of the chain K is passed through the grab-link B, and the other end is passed through the grab or fork A', formed on the lever A, as shown in Fig. 1. The latch-lever E is swung upward against the lever A, and is locked in place by the chain H and the spring-pin G. The lever A is then swung in the direction of the arrow *a'*, whereby the chain will be drawn taut.

The above-described device is to be used for drawing taut the chains on lumber-wagons, &c.

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

1. The combination, with the forked lever A, of the grab-link B, pivoted to the same, the bar C, and the latch-lever E, substantially as herein shown and described.

2. The combination, with the forked lever A, of the grab-link B, pivoted to the same, the bar C, pivoted to the lever A, the latch E, pivoted to the bar C, the spring-pin G, and the chain H, substantially as herein shown and described.

3. The combination, with the forked lever A, of the grab-link B, pivoted to the same, the bar C, the latch E, pivoted to the same, and means for holding the free end of the latch E against the lever A, substantially as herein shown and described.

JAS. HARVEY ARMSTRONG.

Witnesses:

W. M. DRAKE,
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