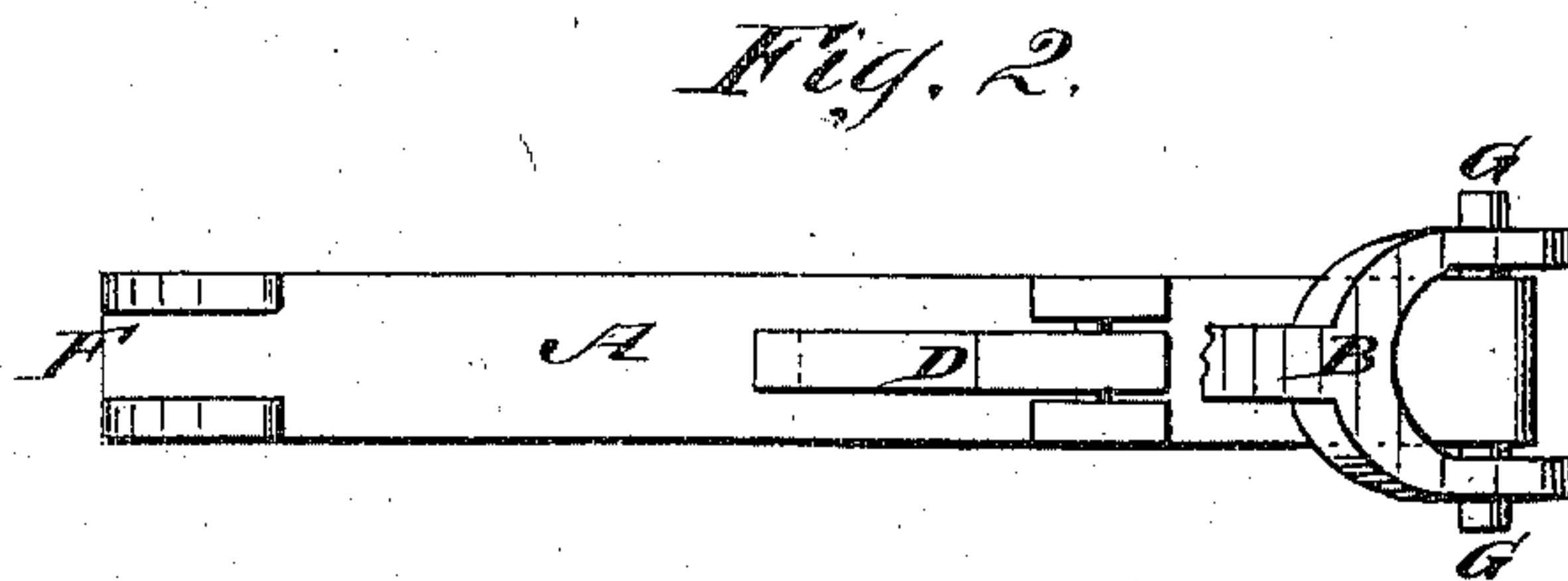
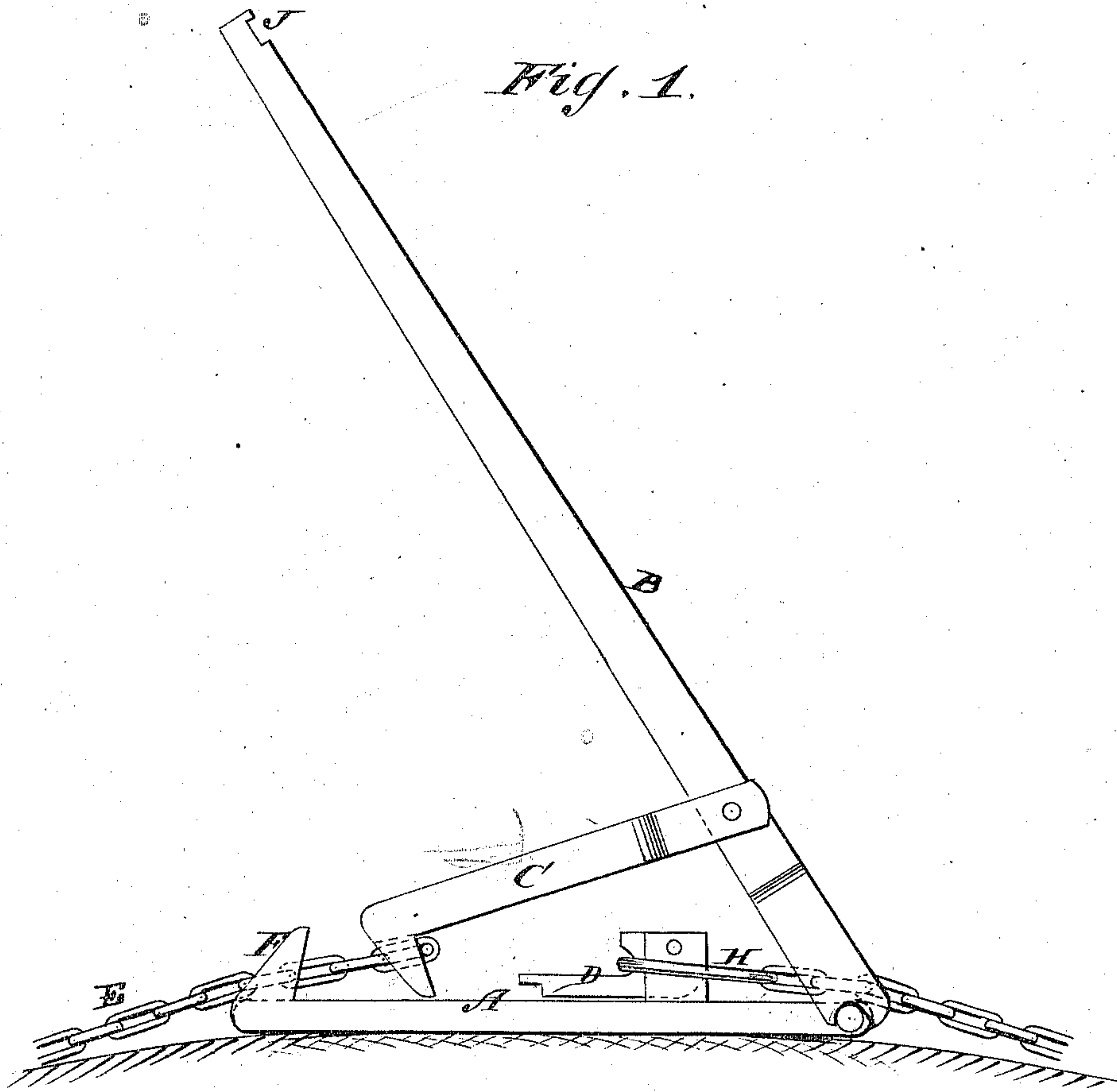


J. PAFF.

Binders for Loaded Wagons and Sleighs.

No. 139,969.

Patented June 17, 1873.



Witnesses:

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UNITED STATES PATENT OFFICE.

JACOB PAFF, OF LAWRENCBURG, PENNSYLVANIA.

IMPROVEMENT IN BINDERS FOR LOADED WAGONS AND SLEIGHS.

Specification forming part of Letters Patent No. **139,969**, dated June 17, 1873; application filed May 10, 1873.

To all whom it may concern:

Be it known that I, JACOB PAFF, of Lawrenceburg, in the county of Armstrong and State of Pennsylvania, have invented a new and useful Improvement in Binder for Loaded Wagons and Sleighs, of which the following is a specification:

The object of this invention is to improve the means now in use for binding loads of lumber, logs, rails, and similar loading; and it consists in the construction and arrangement of parts hereinafter described.

In the drawing, Figure 1 is a side elevation, showing the binder as when being applied. Fig. 2 is a top view of the bed-plate.

Similar letters of reference indicate corresponding parts.

A is the bed-plate. B is the lever. C is a hook pivoted to the lever. D is an arm, which is pivoted to ears on the bed so that it may freely turn on its pivot. E represents the chain. F is a slotted hook on the end of the bed, in which the chain E is held in binding the load. G are fulcrum-pins, which project from each side of the bed. These form the fulcrum of the lever B. The lever is forked at the end and straddles the bed, as seen in Fig. 2.

The binder is placed on top of the load. The ring H of the chain is attached to the arm D and passed through the fork of the lever and around the load. The pivoted hook C, when the lever is carried forward, now takes hold of the end of the chain, as seen in Fig. 1. Then the lever is brought back, thus bringing the ends of the chain together and binding the load—that is, if the chain is just the right

length. If the chain is too long it is brought within the slot in the hook F, which holds it while a new hold is taken by the lever. To unbind the load the arm D is raised, which allows the ring of the chain to slip off.

It will be noticed that the pivot of the arm is somewhat above the bearing of the ring, so that the strain on the arm has a tendency to keep the arm down to the bed; but the difference between the bearing and the pivot is so slight that it requires but a small effort to raise it.

When the load is bound the chain is held by the slotted hook F and the arm D, so that the lever is reversed, and its small end may be used for raising the arm. The notch is designed to engage with the end of the arm for this purpose.

This improvement does away with the old binding-pole, and may be applied in one-fourth of the time.

This binder is applicable to sleighs as well as wagons for binding boards, lumber, and timber of every description, and all similar loading.

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

A binder composed of the bed-piece A, lever B, pivoted hook C, arm D, slotted hook F, fulcrum-pin G G, and chain E, the same connected and arranged to operate substantially as and for the purpose specified.

JACOB PAFF.

Witnesses:

ELLIS TYLER,
WILLIAM WOLFORD.