

(No Model.)

W. C. HALL & W. U. SWEETSER.  
LOG TURNER FOR SAW MILL CARRIAGES.

No. 446,346.

Patented Feb. 10, 1891.

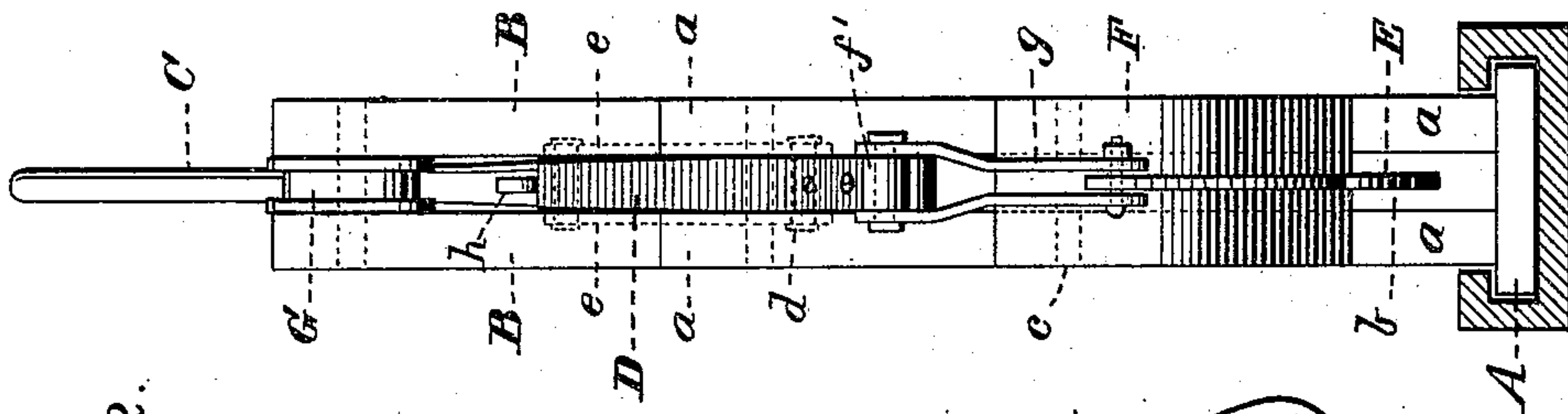


Fig. 2.

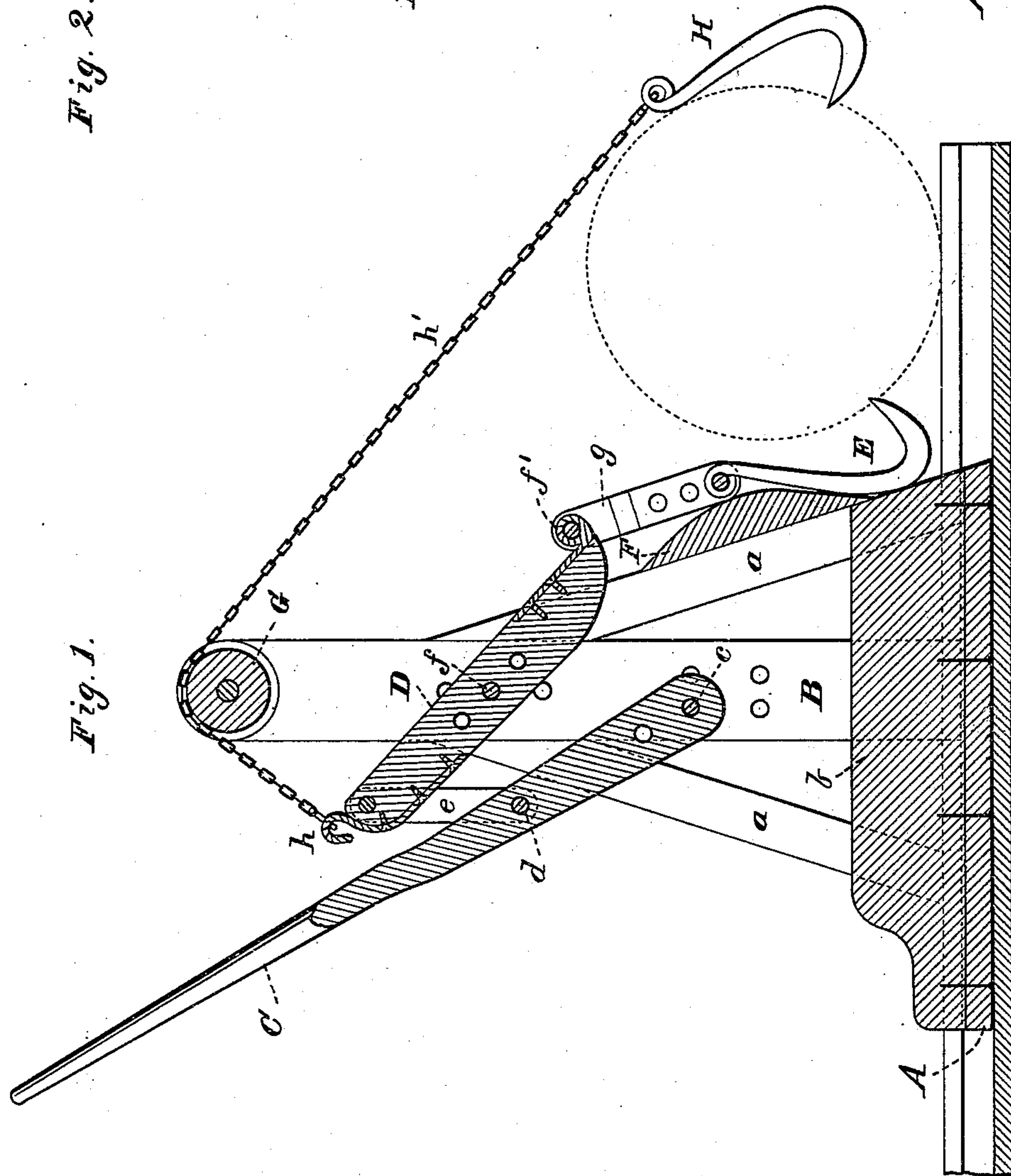


Fig. 1.

WITNESSES

*Villette Anderson,*  
*Philip Masai.*

INVENTORS

*W. C. Hall*  
*W. U. Sweetser*  
*by E. W. Anderson*  
*their Attorney*



# UNITED STATES PATENT OFFICE.

WILLIAM C. HALL AND WILLIAM U. SWEETSER, OF OBLONG, ILLINOIS.

## LOG-TURNER FOR SAW-MILL CARRIAGES.

SPECIFICATION forming part of Letters Patent No. 446,346, dated February 10, 1891.

Application filed August 26, 1890. Serial No. 362,933. (No model.)

*To all whom it may concern:*

Be it known that we, WILLIAM C. HALL and WILLIAM U. SWEETSER, citizens of the United States, and residents of Oblong, in the county of Crawford and State of Illinois, have invented certain new and useful Improvements in Log-Turners for Saw-Mill Carriages; and we do 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention and is a vertical section. Fig. 2 is a front view. In this view the second cant-hook, with its chain, is not shown.

My invention relates to log-turning devices for saw-mills; and it consists in the novel construction and combination of parts hereinafter set forth.

In the accompanying drawings, A represents the base of the frame, and B B two uprights mounted thereon at its central portion and on opposite sides. These uprights are supported by the braces *a* and the center piece *b*, secured to the base.

C represents an arm or lever pivoted or fulcrumed at its forward end between the uprights B B on the pivot or fulcrum *c*, allowing the handle of said lever a free vertical movement. At the point *d* on opposite sides of the lever C are pivoted links *e*, which at their upper ends are pivoted to opposite sides of the rear end of a second arm or lever D, fulcrumed or pivoted intermediate of its ends between the uprights B B on the pivot or fulcrum *f*. To the forward upper corner of the arm or lever D is secured a lug *f'*, in which is pivoted a stirrup *g*, in which stirrup is pivotally hung a cant-hook E of the ordinary construction. A block F is secured to the forward braces of the frame for the purpose of holding the hook to the log or timber to be moved and preventing its slipping, the downward movement of the lever C, and thereby the operation of the lever D and the cant-hook connected therewith, forcing the back of said hook firmly against said block. The stirrup *g* is provided with a series of perforations for adjusting the

cant-hook hung therein at the desired height. Perforations are also provided at different points in the uprights B B and the levers or arms C and D for adjusting the fulcrumage of the said lever as may be desired. The downward movement of the lever C will exert a rolling force on the log or timber engaged by the said hook, as will be readily seen. To the rear end of the lever D a hook *h* is connected, to which a rope, cable, or chain *h'* may be attached and from thence passed up and over a pulley or block G, which is mounted between the upper ends of the uprights B B, the free end of said rope or cable thence extending downward and connected to a cant-hook H. The arrangement last described is especially adapted for rolling logs or timbers onto the carriage of the saw-mill, as it will be readily seen that a great amount of rolling force will be exerted in the direction of the carriage to which the device is adapted to be secured by the downward movement of the lever.

The base-piece of the frame is adapted to slide backward and forward to accommodate different sizes of logs or timbers in a slide provided with ways or grooves, said slide being secured to the carriage of the mill.

This device is obviously capable of being applied to the handling and moving of heavy logs or timbers wherever desired, as well as for use in connection with saw-mill carriages, as herein described.

Having thus described this invention, what we claim, and desire to secure by Letters Patent, is—

1. In a log-moving device, the combination, with the two pivoted link-connected levers, of the stirrup pivoted to the forward end of the upper of said levers, the cant-hook adjustably pivoted in the stirrup, and the block secured to the forward braces of the frame for holding the hook in engagement, substantially as described.

2. The log-moving device for saw-mills, comprising the base working in ways connected with the carriage of the mill, the uprights mounted in said base, the adjustable link-connected levers pivoted between said uprights, a stirrup pivoted to the forward end of the upper of said levers, the cant-hook adjustably



pivoted in the stirrup, the block secured to the forward braces of the frame for holding said hook in engagement, and the hook connected to the opposite end of said lever, substantially as specified.

3. In a log-moving device, the combination, with the supports, of the link-connected levers pivoted therein, the forward end of one of said levers having a cant-hook pivotally connected thereto and the opposite end having a flexible connection with a second cant-hook, whereby by the operation of the lower lever the log may be rolled either toward or away from the operator, substantially as specified.

4. In a log-moving device, the combination, with the supporting-frame, of the levers pivoted therein one above the other, a link connecting the rear end of the upper lever to the intermediate portion of the lower, and the

cant-hook connected to each end of said upper lever and adapted to exert a force in opposite directions, substantially as specified.

5. In a log-moving device, the combination, with the base and the two uprights mounted thereon, their braces, and the pulley mounted between their upper ends, of the adjustable pivoted link-connected levers, one of said levers connected at its rear end with a cable or rope passing over the pulley mounted between the uprights and connected at its free end to a cant-hook, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM C. HALL.

WILLIAM U. SWEETSER.

Witnesses:

JOHN BRAUER,

RICHARD S. ROWLAND.