

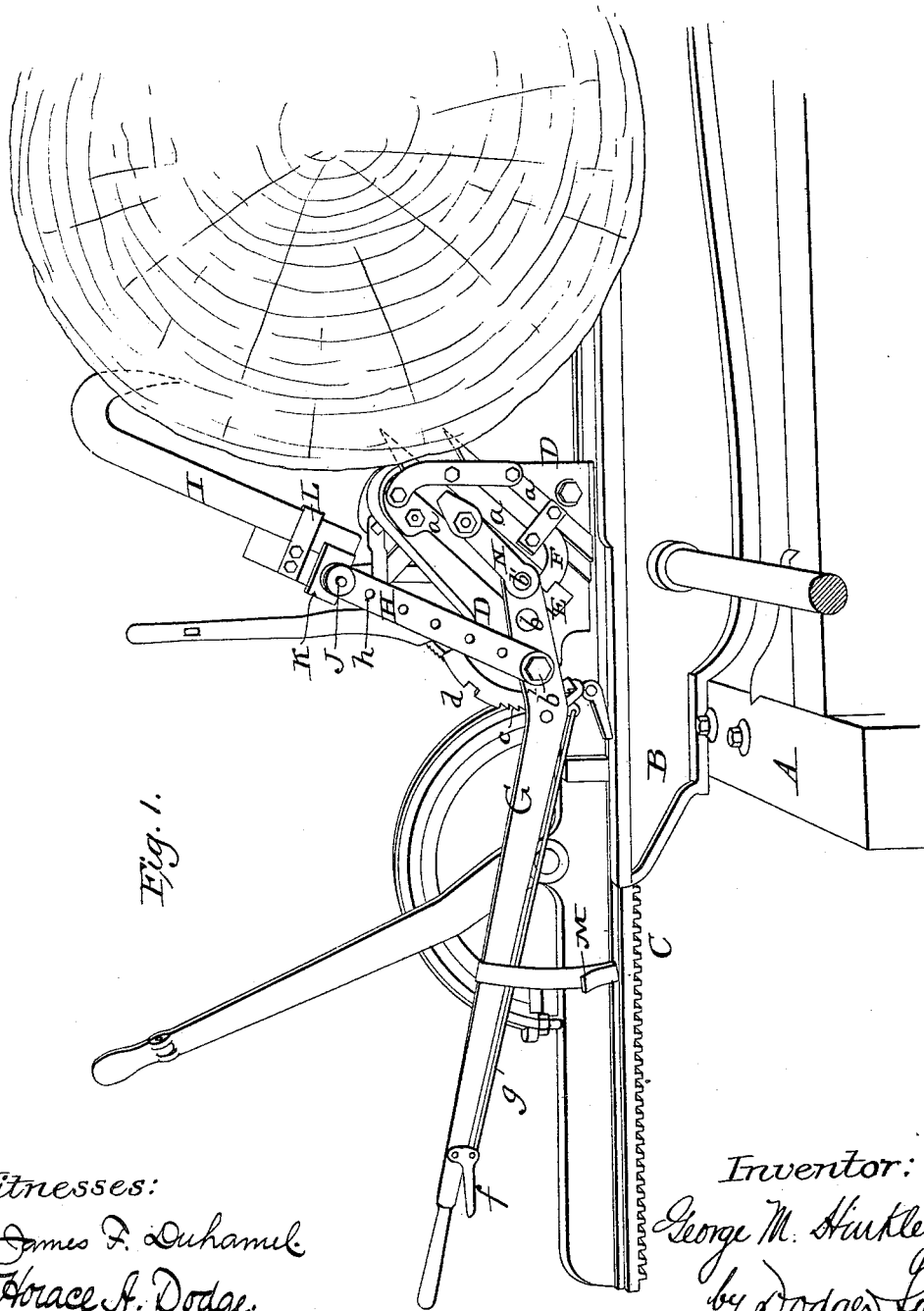
(No Model.)

2 Sheets—Sheet 1.

G. M. HINKLEY.
SAW MILL DOG.

No. 419,046.

Patented Jan. 7, 1890.



Witnesses:

James F. Duhamel
Horace A. Dodge.

Inventor:

George M. Hinkley.
by Dodge Loun-
Atty.

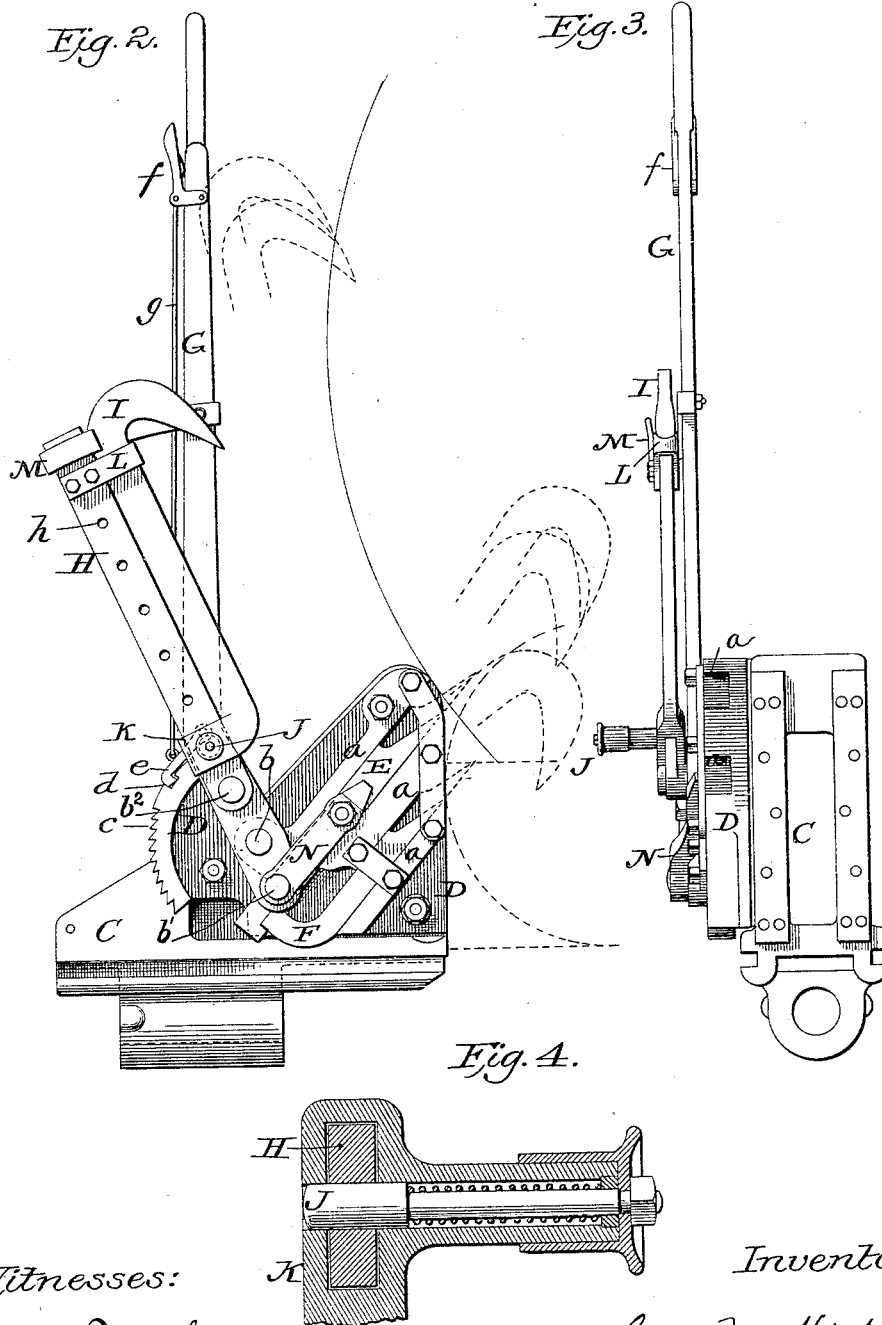
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2 Sheets—Sheet 2.

G. M. HINKLEY.
SAW MILL DOG.

No. 419,046.

Patented Jan. 7, 1890.



Witnesses:

James F. Duhamel

J. A. Hollingsworth

Inventor:

George M. Hinkley,
by Dodge & Sons,
Attys.

UNITED STATES PATENT OFFICE.

GEORGE M. HINKLEY, OF MILWAUKEE, WISCONSIN, ASSIGNOR OF ONE-HALF
TO WILLIAM W. ALLIS, OF SAME PLACE.

SAW-MILL DOG.

SPECIFICATION forming part of Letters Patent No. 419,046, dated January 7, 1890.

Application filed July 30, 1889. Serial No. 319,187. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. HINKLEY, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Saw-Mill Dogs, of which the following is a specification.

My invention relates to an extensible cant-hook and spud-dog adapted to be applied to the head-block of saw-mill carriages for holding logs of varying sizes.

In the drawings, Figure 1 is a perspective view of my improved device in use; Fig. 2, a face view with the parts in a different position; Fig. 3, an edge view, and Fig. 4 a detail view.

A indicates a portion of a saw-mill carriage, B the head-block, and C the knee, all of which may be of the usual construction.

D indicates a plate, which is bolted rigidly to the side of the knee C, and provided with ways or guides *a*, separated a distance apart to receive the spud-dogs or straight single-toothed dogs E and F, the said dogs being connected with each other so as to move together.

G indicates a hand-lever pivoted upon a pin or stud *b* on the plate, the lower end of the said lever being connected, by means of a link N at *b'*, with the spud-dogs, as shown in Figs. 1 and 2.

Plate D is provided on its edge with ratchet-teeth *c* and a stop-notch *d*, with which a pawl *e*, pivoted to the lever G, is adapted to engage. The lever is provided also with a pivoted hand-piece *f*, which is connected with the pawl by means of a link or rod *g*, as shown in Figs. 1 and 2. The extension-hook (which is shaped like the ordinary cant-hook) is formed of two bars H and I, the bar H being pivoted at its lower end, as at *b''*, to the lever G, and the bar I being adjustable upon the bar H and capable of being locked in its adjusted positions thereon.

Bar H is provided with a series of holes or perforations *h*, which are adapted to be engaged by a spring-pressed pin J, carried by a loop K, formed on the lower end of the bar I, as shown. A loop L, secured to the upper end of the bar H, encircles the bar I and

serves to guide the latter in its movement. By withdrawing the pin J from the hole *h* the bar I may be adjusted upon the bar H and locked in its adjusted position by again allowing the pin to engage the hole in the bar H. It is obvious that the part of the bar I carrying the spring-pin need not be a complete loop, and the same is true of the loop L at the upper end of the bar H. In fact, I do not wish to limit myself to any particular construction.

The hand-lever G is provided with a hook M, which, as shown in Fig. 2, is adapted to support the cant-hook when the latter is not in use.

Upon reference to Figs. 1 and 2 it will be seen that the lever G is connected on opposite sides of its pivot *b* with the cant-hook and spud dog or dogs, so that when the said lever is swung upon its pivot the hook and dogs will be drawn into the log.

Some of the different positions that the cant-hook may be made to assume are indicated by dotted lines in Fig. 2, from an inspection of which it will be seen that the hook can be so adjusted as to engage logs of varying size.

The dogs E F, being connected, form in effect but a single dog; but I wish it understood that I do not limit myself to the particular construction of dogs shown nor to any particular number of dogs.

Instead of making the plate separate from the knee, the latter may have the dogs and attendant parts mounted thereon.

When the device is not in use, the hand-lever is held in position by means of the pawl engaging with the stop-notch; but when the lever is thrown down to bring the cant-hook and dogs into operation it will be held in position by the pawl engaging the ratchet-teeth.

No broad claim is made herein to an extensible hook *per se*, as this has before been proposed; nor do I wish to be understood as claiming, broadly, the combination, with a single lever, of a hook to enter one side of the log and a tooth or dog to enter the other side, as this has also been proposed.

Having thus described my invention, what I claim is—

1. In combination with the knee of a saw-mill carriage, a lever pivoted thereto, an extensible cant-hook secured to the lever, and a spud-dog also secured to the lever, all substantially as shown.

5 2. In combination with a plate having ways or guides, a dog mounted in said ways, a lever pivoted to the plate, a link connecting the dog and lever, and a cant-hook pivoted to the lever, all substantially as shown and described.

3. In combination with a plate D, having ways or guides, a dog mounted therein, a lever pivoted to the plate and connected with the dog, a bar H, pivoted to the lever and provided with holes or perforations *h*, a bar I, mounted upon the bar H, and a spring-pressed pin carried by the bar I to engage the perforations.

20 4. In combination with a plate D, having ways or guides and ratchet-teeth, a lever pivoted to the plate, a dog mounted in the ways or guides and connected with the lever, a cant-hook pivoted to the lever, and a pawl carried by the lever to engage the ratchet-teeth.

5. In combination with plate D, having a stop-notch, a lever pivoted to the plate and provided with a pawl to engage the notch, a cant-hook pivoted to the lever, and a dog mounted upon the plate and connected with the lever.

6. In combination with plate D, lever G, pivoted thereto and provided with hook M, a cant-hook pivoted to the lever and adapted to be supported by the hook M, and a dog mounted upon the plate and connected with the lever.

7. In combination with the knee of a saw-mill carriage, an operating-lever pivoted thereto, an extensible cant-hook secured to the lever and adapted to engage the upper face of the log, and a spud-dog also secured to the lever and adapted to engage the lower face of the log, all substantially as shown.

In witness whereof I hereunto set my hand in the presence of two witnesses.

GEORGE M. HINKLEY.

Witnesses:

RICHARD HOPPIN,
HARRY A. DUCAT.