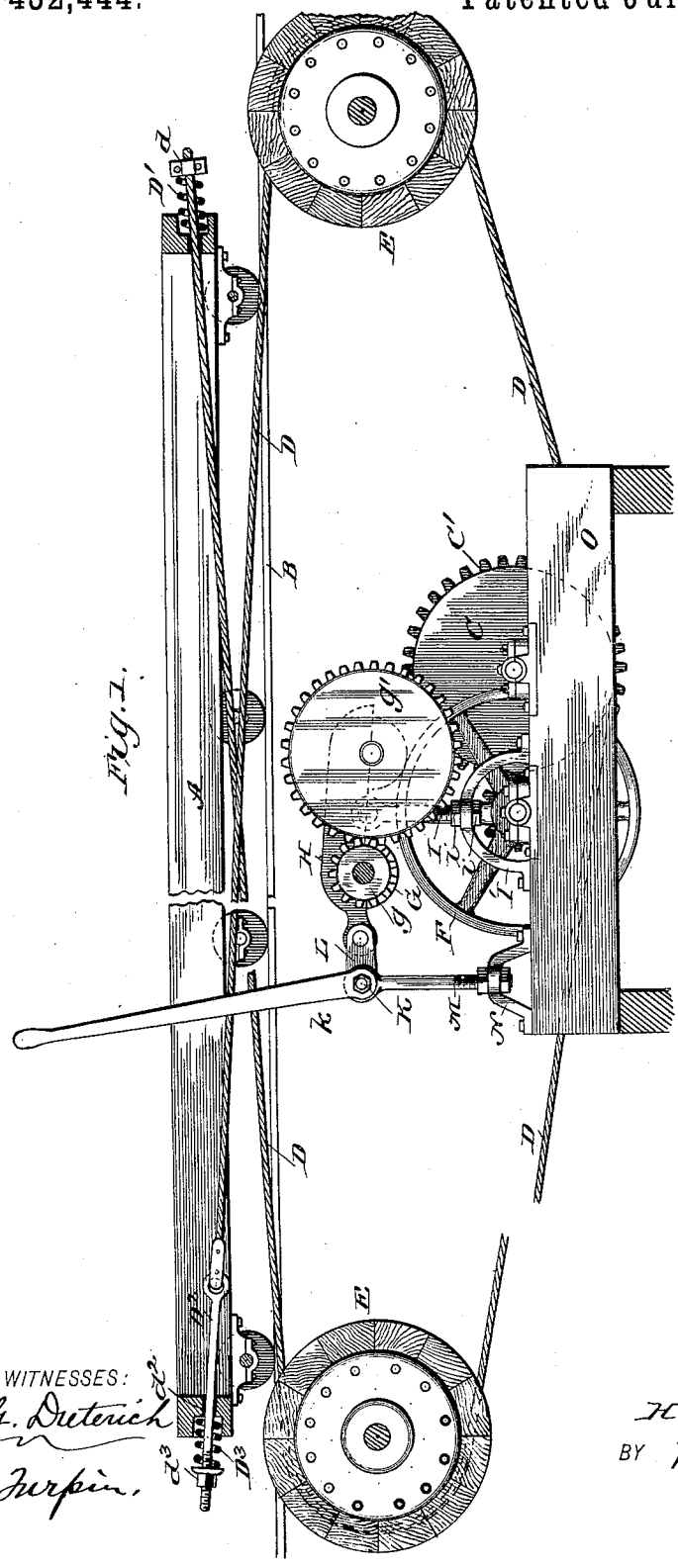
(No Model.) 2 Sheets—Sheet 1.

H. SEGUR.

SAW MILL FEED.

No. 432,444. Patented July 15, 1890.



WITNESSES:
Fred J. Dieterich
P. B. Turpin.

INVENTOR:
H. Segur
BY Munn & Co
ATTORNEYS

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

(No Model.) 2 Sheets—Sheet 2.

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Fig. 2.

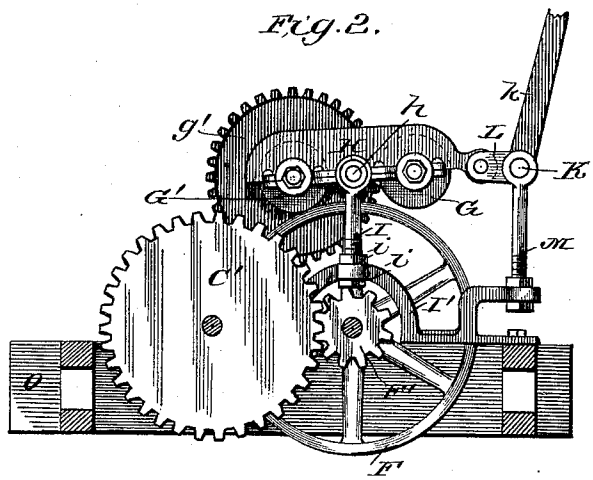
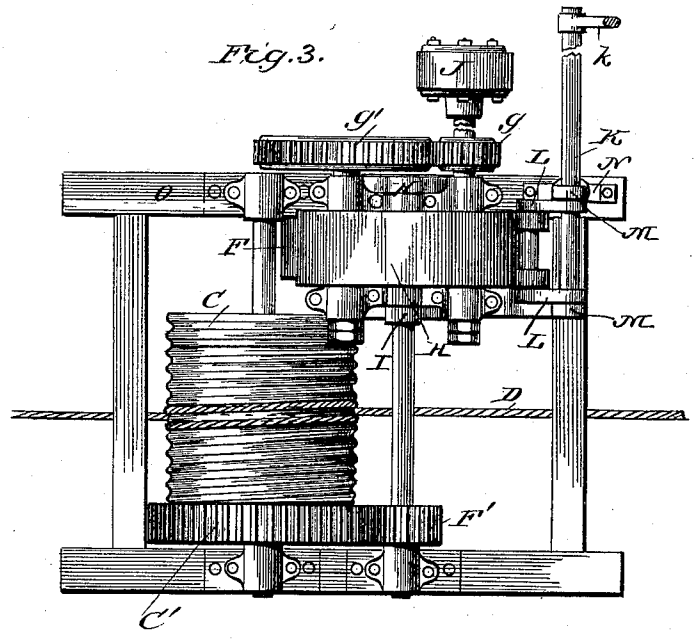


Fig. 3.



WITNESSES:

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P. B. Turpin.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HARVEY SEGUR, OF DECATUR, INDIANA, ASSIGNOR OF ONE-HALF TO PHILIP W. SMITH, OF SAME PLACE.

SAW-MILL FEED.

SPECIFICATION forming part of Letters Patent No. 432,444, dated July 15, 1890.

Application filed March 26, 1890. Serial No. 345,453. (No model.)

To all whom it may concern:

Be it known that I, HARVEY SEGUR, of Decatur, in the county of Adams and State of Indiana, have invented a new and useful Improvement in Saw-Mill Feeds, of which the following is a specification.

My invention is an improvement in saw-mill feeds; and it consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a side elevation of the improved apparatus, and Figs. 2 and 3 are respectively sectional and top plan views of the operating mechanism.

The carriage A is supported upon the rails B, only one of which is shown, and may be of any suitable construction. In connection with this carriage I employ the cable D, a drum C, and mechanism for operating such drum. On opposite sides of such drum C, I provide guide-pulleys E, arranged a considerable distance apart. The drum C is grooved spirally to properly receive the cable, while the pulleys E are grooved to receive and guide the said cable as it passes to the carriage. The cable is wound around the drum, so that the turning of the latter will draw the cable from one or the other direction. From this drum the cable extends forward and back around the guide-pulleys E E, from which it extends to and connects with the carriage, preferably in the manner and by the construction shown.

By preference the ends of the cable are secured to the end of the carriage opposite the pulley by which such end of the cable is guided—that is to say, the end of the cable passed around the guide-pulley at the left of the drum is secured to the right-hand end of the carriage, while the cable end passed around the pulley to the right of the drum is secured to the left-hand end of the carriage, so that the carriage may be moved in opposite directions its full length past the pulleys E E.

In connecting the end of the cable with the carriage I pass it at one end through an opening in the carriage-frame and secure near its extremity a clamp d, between which and the carriage-frame there is arranged to bear a spring D′. At its opposite end the cable is secured to one end of a rod or bar D^2, which extends through an opening d^2 in the carriage-frame and has its outer end threaded to receive a nut d^3, a spring D^3 being arranged to bear between the nut d^3 and the frame. By this construction slack of the cable may be easily taken up.

The drum C is provided with a gear wheel or ring C′, with which meshes a gear wheel or ring F′, keyed or otherwise fixed to the shaft or axle of a friction-pulley F. Now it will be seen that if the friction-pulley F be turned in one or the other direction it will effect a proper turning of the drum to move the carriage in one or the opposite direction. To enable this friction-pulley F to be rotated in one or the opposite direction, I provide two friction drive-pulleys G G′, which are revolved in opposite directions, and are supported so that either one may be moved into engagement with the wheel F. These pulleys G G′ are shown as geared together by gear wheels or rings $g\,g'$, and are journaled in a rocking arm or frame H. This arm or frame H is pivotally supported at h between the pulleys G G′, so that by rocking it on its pivot the pulleys G G′ may be alternately caused to bear on the wheel F. This frame H is pivoted in bearings on an upright or uprights I, mounted on a stand or uprights I′ and adjustable by means of nuts $i\,i$, as will be understood from the drawings.

The shaft of wheel G is extended laterally, and has a pulley J to receive the band extending to the mandrel or other driven part of the machine.

By properly tilting the frame H one or the other of wheels G G′ may be caused to bear upon and turn the friction-pulley F, or the said frame may be so adjusted as to secure both of the said pulleys clear of the pulley F to stop the machine.

To effect the convenient tilting of the frame H, I provide a shaft K, having an operating-lever k, and provided with a crank-like arm or arms L, which connect with the frame H, so that the rocking of shaft K may effect the desired tilting and adjustment of frame H.

The shaft K is preferably journaled in bearings in an upright or uprights M, mounted adjustably on a stand or stands N, the said stand N, the stand I′, and the bearings for the shafts of wheel F and drum C being sup-

ported on a frame O, as most clearly shown in Fig. 1.

Having thus described my invention, what I claim as new is—

1. In an apparatus, substantially as described, the combination of the friction-wheel F, the casing or frame H, pivoted at a point between its ends and adjustably supported at such point, whereby it may be set toward or from the wheel F, the friction-pulleys journaled in frame H on opposite sides of its pivotal center and movable alternately into engagement with the wheel F, the shaft K, having a handle-lever and provided with short crank-like arms connected with the case or frame H, and adjustable bearings or supports for said shaft K, whereby the same may be adjusted to correspond with the adjustment of frame or case H, all substantially as and for the purposes set forth.

2. The improved saw-mill-feed herein described, consisting of the rope-drum, the shaft geared with said rope-drum and provided with the friction-wheel F, the casing H, having on opposite sides of its center pulleys G G′, movable alternately into contact with the pulley F, the rods I, supporting at their upper ends bearings for the casing H, and having their lower ends threaded, the frames or stands having opening for said threaded ends and nuts above and below the same, the shaft K, having a hand-lever and provided with crank-arms connected with the casing H, the uprights M, having at their upper ends bearings for the shaft K, and their lower ends threaded, the frames or stands having openings for the lower ends of uprights M, and the nuts on said uprights above and below the frames or stands, all substantially as and for the purposes set forth.

HARVEY SEGUR.

Witnesses:
J. F. MANN,
A. K. GRUBB.