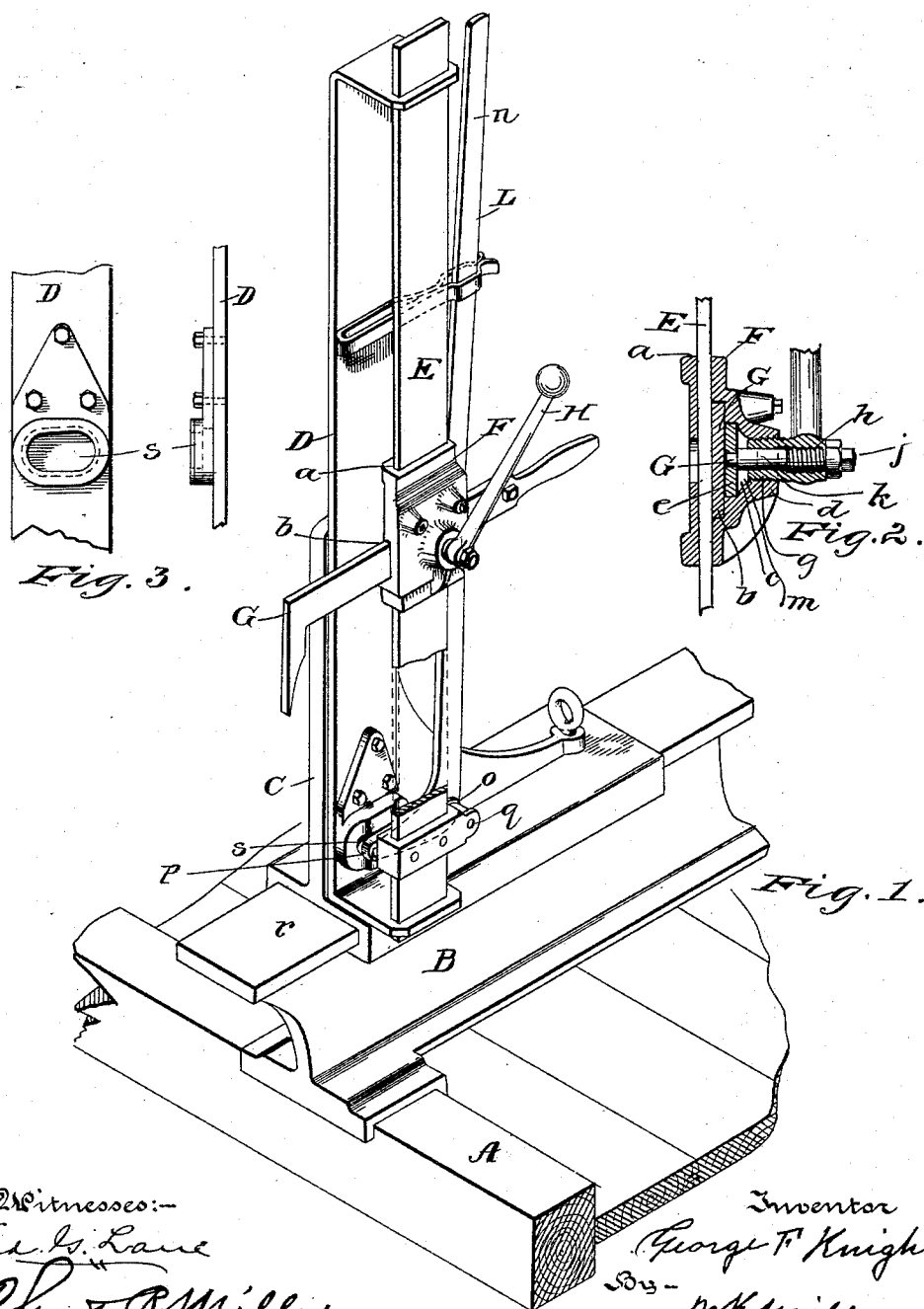


(No Model.)

G. F. KNIGHT.  
SAWMILL DOG.

No. 483,224.

Patented Sept. 27, 1892.



Witnesses:-  
E. L. Lane  
Chas. A. Miller

Inventor  
George F. Knight  
By - W. K. Miller  
Attorneys

# UNITED STATES PATENT OFFICE.

GEORGE F. KNIGHT, OF CANTON, OHIO.

## SAWMILL-DOG.

SPECIFICATION forming part of Letters Patent No. 483,224, dated September 27, 1892.

Application filed February 27, 1892. Serial No. 422,965. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE F. KNIGHT, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have invented a new and useful Improvement in Sawmill-Dogs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to an improvement in sawmill-dogs; and it consists in providing an effective, durable, and more convenient means of locking the dog-supporting bar.

With these ends in view my invention consists of certain features of construction and combination of parts, as will be hereinafter described; and pointed out in the claims.

Figure 1 is a view in perspective of a sawmill-dog, illustrating my invention; Fig. 2, a vertical sectional view; Fig. 3, a front and side elevation of the standard.

Similar letters of reference indicate corresponding parts in all of the figures of the drawings.

A represents a log-carriage, B the head-block, and C a knee portion adjustable on the head-block transverse the carriage, to which is secured a vertical supporting-bar D. The end portions of said bar are turned at a right angle with the body and provided with elongated apertures transverse the bar, in which is placed a vertically-sliding bar E, on which is provided a sliding dog-supporting head F, having a vertical aperture *a*, a horizontal offset aperture *b*, a recess *c*, and an outwardly-projected hub *d*. The bar E is placed in the aperture *a*, the dog G in aperture *b*, and in the recess *c* a hardened-steel plate *e*, and in the hub *d* a threaded aperture.

To secure the head F and dog G in desired adjustment on the bar E, a cranked lever H is provided, the pin or axle portion *g* having an annular thread adapted to the thread in the hub *d* of the head F, said axle portion having an axle or longitudinal aperture *h*, threaded at its outer end portion to receive a set-screw *j* and the inner end to receive and inclose a hardened-steel pin *k*, one end of which rests against the plate *e*, the other against the end of the set-screw *j*. A jam-nut *l* is placed on the set-screw to be turned against the end of the hub *d*, by which the screw is secured

against rotation after the parts effected by the movement of the screw have been adjusted for operation; or, if preferred, the screw *j* may be extended to engage the back of the plate *e*. The object sought by the parts, the screw and the pin, is to provide means for lengthening or maintaining the length of the axle-pin.

As the lever H serves as a handle by which the operator may raise or lower the head F, as well as a lever to lock the parts in desired adjustment, it is desirable that its position be one convenient to the operator and that its rotary movement or throw about the axle portion be limited, and to provide for wear the set-screw *j* may be turned in to move the pin *k* in against the plate *e*, thus providing means for maintaining a desired length of the axle-pin portion *g* of the lever H by means of the movable pin *k* and screw *j*.

As heretofore made the previously-determined or fixed end *m* of the axle portion *g* of the lever H engaged the plate *e*, the constant grinding movement of the end of the axle-pin in locking and unlocking the parts would wear away the parts in contact and allow the lever to fall below the center or to the side opposite that shown in Fig. 1, at which point the lever could not be used as a handle to raise or lower the head.

The actuating-lever L is of the form shown, having a handle portion *n*, a heel *o*, and toe *p*. At the lower portion of the bar E is provided a pin *q*, to which the heel of the lever is pivotally secured, and at the toe of the lever is an outwardly-projected pin *r*, that enters the loop *s* provided therefor at the lower end of the bar D, thus forming a fulcrum about which the lever turns to raise or lower the bar E.

It will be understood that the dog G is adjustable longitudinally in the head to carry the bit to or from the head, and that the dog and head F are locked or clamped to the sliding bar E by the lever H.

Having thus described the nature and the object of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the vertical supporting-bar D, of the vertically-slidable bar E, the head F, having an aperture *a*, an offset aperture *b*, a recess *c*, threaded hub *d*,

plate *e*, and a locking mechanism comprising a lever *H*, having an apertured axle portion to turn into the hub *d*, and a through pin or screw whereby the length of said axle may be maintained or increased, substantially as described, and for the purpose set forth.

2. The combination, with the vertical slidable bar *E*, of the adjustable head *F* and dog *G*, a crank-lever *H*, having an apertured spindle to turn into said head, having adjustable therein means whereby the length of said axle may be maintained against wear or the length increased, as the case may be, substantially as described, and for the purpose set forth.

3. The combination, with the supporting-knee *C*, of the bar *D*, having its end turned and

apertured to receive the slidable bar *E*, and an actuating-lever *L*, pivotally secured to the bar *E* and adapted to engage a loop or slide *s* at the lower portion of the stationary bar *D*, substantially as described, and for the purpose set forth.

4. The combination, with the adjustable head, of the crank-lever having an apertured crank portion to turn in said head, the pin *k*, and set-screw *j*, substantially as described, and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 20th day of February, A. D. 1892.

GEORGE F. KNIGHT.

Witnesses:

W. K. MILLER,

CHAS. R. MILLER.