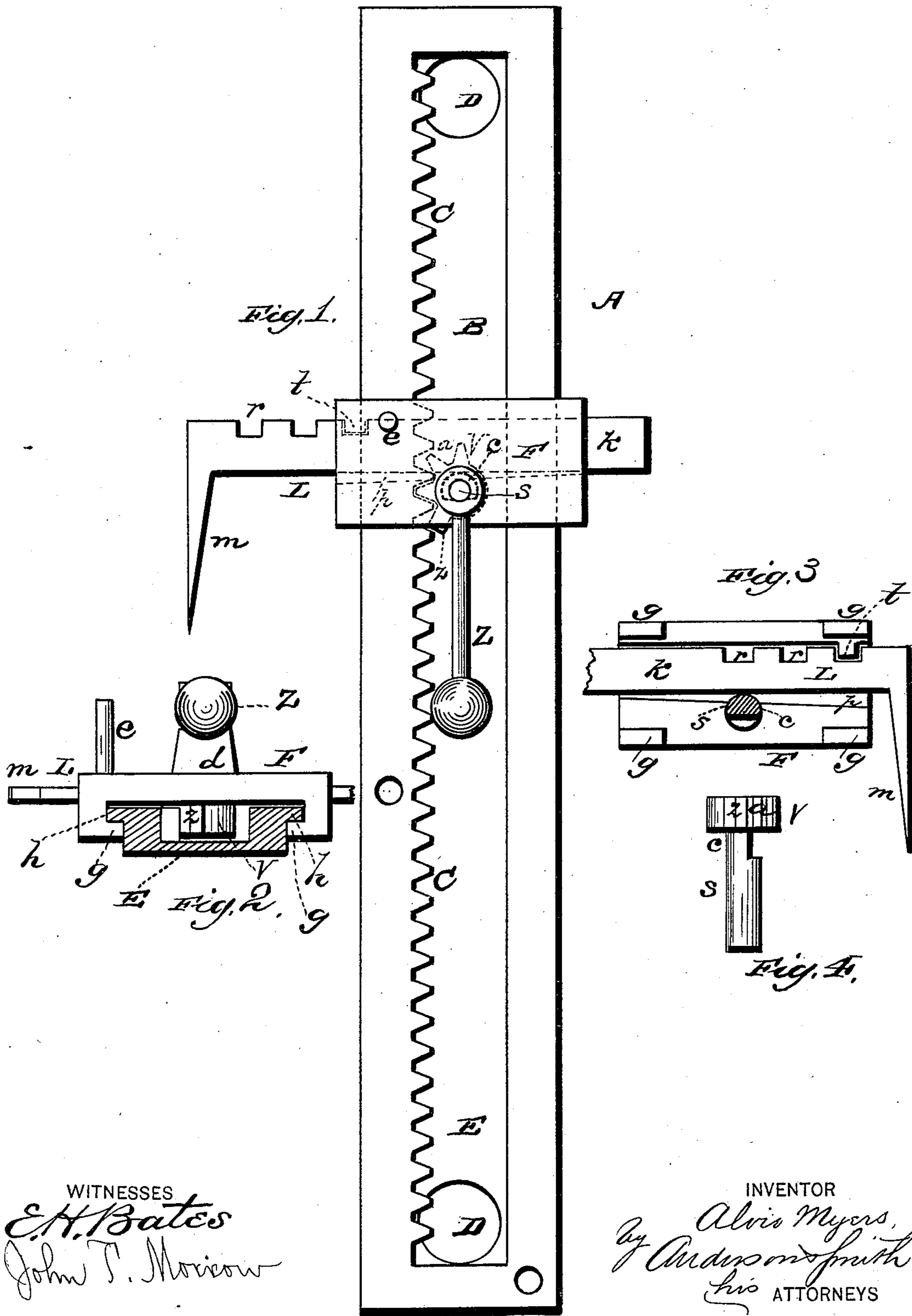


(No Model.)

A. MYERS.
SAW MILL DOG.

No. 284,973.

Patented Sept. 11, 1883.



WITNESSES
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UNITED STATES PATENT OFFICE.

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SAW-MILL DOG.

SPECIFICATION forming part of Letters Patent No. 284,973, dated September 11, 1883.

Application filed May 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALVIE MYERS, a citizen of the United States, residing at Melmore, in the county of Seneca and State of Ohio, have invented certain new and useful Improvements in Saw-Mill Dogs; and I 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 or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a front view. Fig. 2 is a cross-section, and Figs. 3 and 4 are detail views.

This invention has relation to dogs for saw-mill carriages; and it consists in the construction and novel arrangement of parts, all as hereinafter set forth.

In the accompanying drawings, the letter A designates the upright or standard, which is bolted to the head-block of the carriage, two bolts being usually sufficient for this purpose. The standard A is formed with the longitudinal channel B, the front wall of which is made in rack form, as indicated at C. Apertures D are usually made through the side wall, E, at the upper and lower ends thereof, to facilitate the application of the pinion and its shaft to the slide.

F represents the slide, which is formed with hook-form lugs *g*, to engage the external or edge flanges, *h*, of the standard A. The slide is provided with a seat or bearing for the shank *k* of the dog L, whereof the hook-head *m* is turned downward. The slide is provided with a tooth, *t*, which projects into the seat or bearing *p*, and is designed to engage the upper rack-edge, *r*, of the dog.

V represents a segment-pinion having teeth *a*, adapted, when the pinion is turned in proper position, to engage the teeth of the rack C. The shaft *s* of this pinion is formed with a cam-rise, *c*, on the portion next said pinion,

which is adjacent to the shank of the dog. The journal portion of the shaft is seated in a bearing, *d*, formed in the slide F, and to the end of the shaft is attached its lever-arm Z. A rest peg or stud, *e*, projects from the slide.

In operating this device it should be observed that when the lever Z is thrown back against the peg *e* the cam *c* of the shafts will be turned away from the shank of the dog L, so that the latter will fall sufficiently to be relieved from engagement with the tooth *t* of the slide. The dog can now be adjusted freely in the slide, so that its hook-head will project more or less, as may be desired. When the dog is adjusted, the lever-arm is raised, causing the cam on the pinion-shaft to force the rack-edge of the dog into engagement with the tooth *t* of the slide. In this position of the shaft the segment-pinion is not in engagement with the rack C, and the slide and dog can be moved downward with facility to engage a log of any size, or to any desired position on the standard. Then the lever is turned down, causing the teeth of the pinion to engage the rack C and force the hook-head into the log.

Usually the pinion is provided with an end tooth, *z*, which is made thick enough to serve as a stop to prevent the pinion from making a revolution. By this means the slide and dog may be readily held in any desired position on the standard.

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

The slide F, having the hook-lugs *g* to engage a rack-standard, A, the tooth *t* to engage the rack-edge of the dog L, the bearing *d* for the cam-shaft of the pinion, and the rest-peg *e*, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

ALVIE MYERS.

Witnesses:

J. F. NEDRY,
H. ARNOLD.