J. PAUL.
Log-Slide.

No. 204,993. Patented June 18, 1878.

Fig. 1

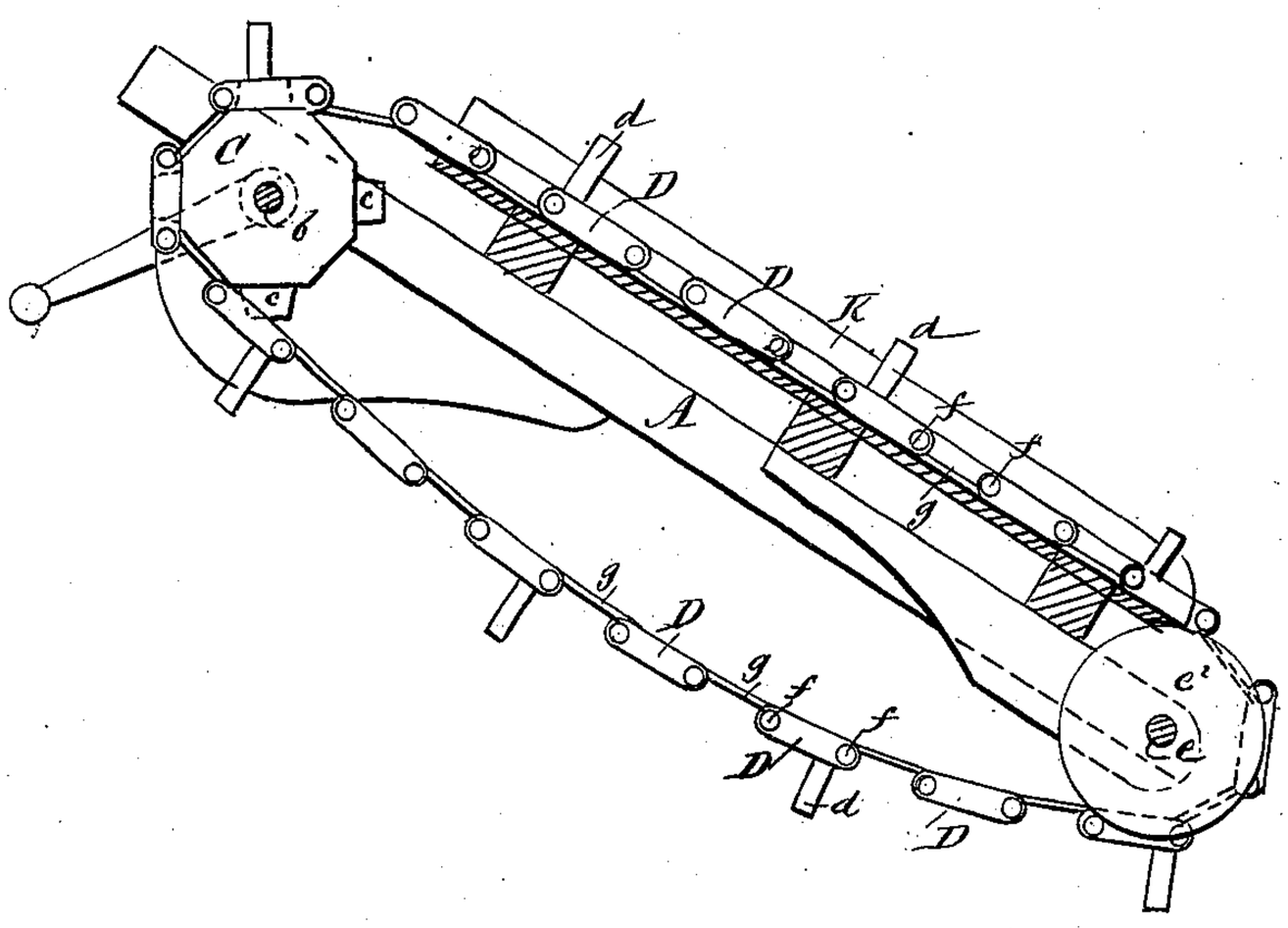


Fig. 2

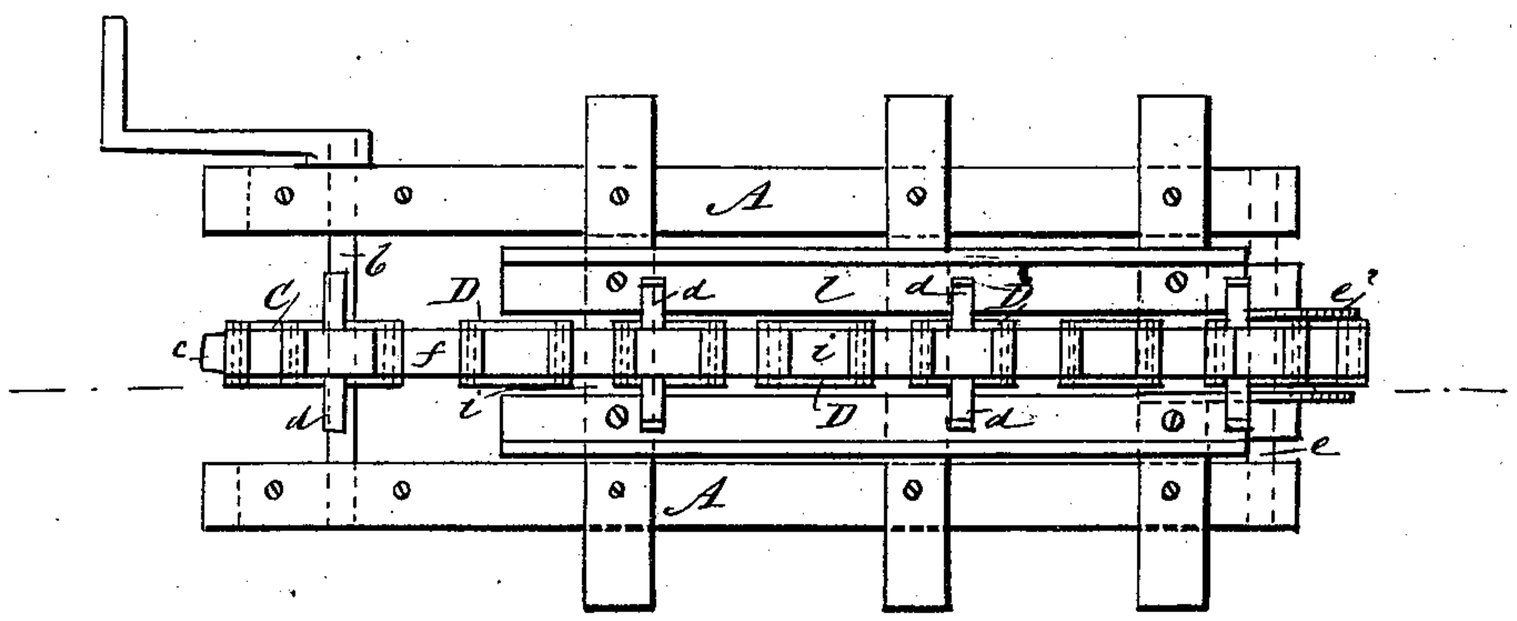
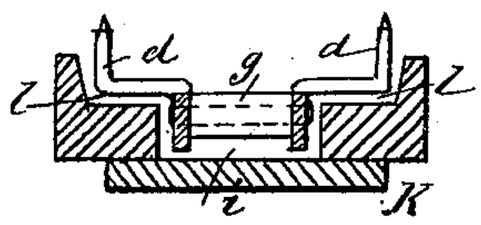


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN PAUL, OF LA CROSSE, WISCONSIN.

IMPROVEMENT IN LOG-SLIDES.

Specification forming part of Letters Patent No. **204,993,** dated June 18, 1878; application filed May 28, 1878.

To all whom it may concern:

Be it known that I, JOHN PAUL, of La Crosse, in the county of La Crosse and State of Wisconsin, have invented a new and useful Improvement in Log-Slides, of which the following is a specification:

My invention relates to the inclined slide or log way employed in a saw-mill for drawing up logs, and also to an endless chain and pulleys to be used in connection with a slide.

The invention consists in an improved form of the slide and a novel construction of the links of an endless chain serving as a log-carrier, whereby the operation of drawing the logs up the slide is greatly facilitated, and the labor considerably lessened.

The accompanying drawing represents an apparatus embodying my improvements, Figure 1 being a side view; Fig. 2, a top view, and Fig. 3 a detail view.

Similar letters of reference indicate corresponding parts.

The slide proper or log-way rests upon a frame-work, A, which may be of any suitable form and dimensions, consisting of longitudinal rails connected by transverse braces.

At one end of the frame A is a shaft, *b*, which may be driven by a belt or gearing, and which carries a spur-wheel, C. At the other end of the frame is a shaft, *e*, carrying a pulley, e^2. Around this spur-wheel and pulley passes an endless chain, which is formed of links adapted to engage with the spurs *c* of the wheel C, said links being connected at the proper distances apart by loops or straps adapted to lie in the spaces between the spurs when said spurs are engaged with said links in passing around the wheel.

My improved link is composed of two strips or bars, D, placed edgewise parallel with each other, and connected with each other at their ends by bolts *f*, around which pass the loops or straps *g*, which connect the links to form the chain.

Each strip or bar D has formed on its upper edge an elongated lug or tongue, *d*, which is bent outward and then upward, as shown in the transverse view, Fig. 3, so as to serve as a dog, the end or point of said tongue being sharpened or provided with teeth for engagement with a log to prevent it from turning or slipping. A number of links thus constructed are connected together to form the chain or log-carrier.

If desired, links made without the dogs *d* may be interposed in the chain between links which are provided with said dogs, as shown.

The slide or log way K is constructed with a view to the engagement of the log-carrier therewith, being provided with a central longitudinal trough or channel, *i*, for the passage of the links and connecting-loops, and with two outer rails or ways, *l*, over which the dogs *d* travel as the chain passes up the slide. Said channel and ways may be faced with iron or steel strips to prevent wear.

The frame-work and the slide and carrier being placed in the proper inclined position, one end of the log is placed on the carrier at the lower end of the slide, so that the dogs *d* will penetrate the surface of the log or engage therewith sufficiently to prevent it from turning or slipping.

Motion being applied to the upper shaft *b*, the carrier travels up the slide and carries the log to the upper end of the frame-work, where it is taken in charge by an attendant.

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

1. A link composed of strips or bars D, provided with dogs *d*, formed thereon as described, said bars being connected by bolts *f* to form the link, substantially as and for the purpose set forth.

2. The slide K, having the trough or channel *i*, and rails or ways *l*, in combination with the endless chain or carrier and the spur-wheel and pulley, as shown and described, for the purpose specified.

JOHN PAUL.

Witnesses:
GEO. SALZER,
H. A. SALZER.