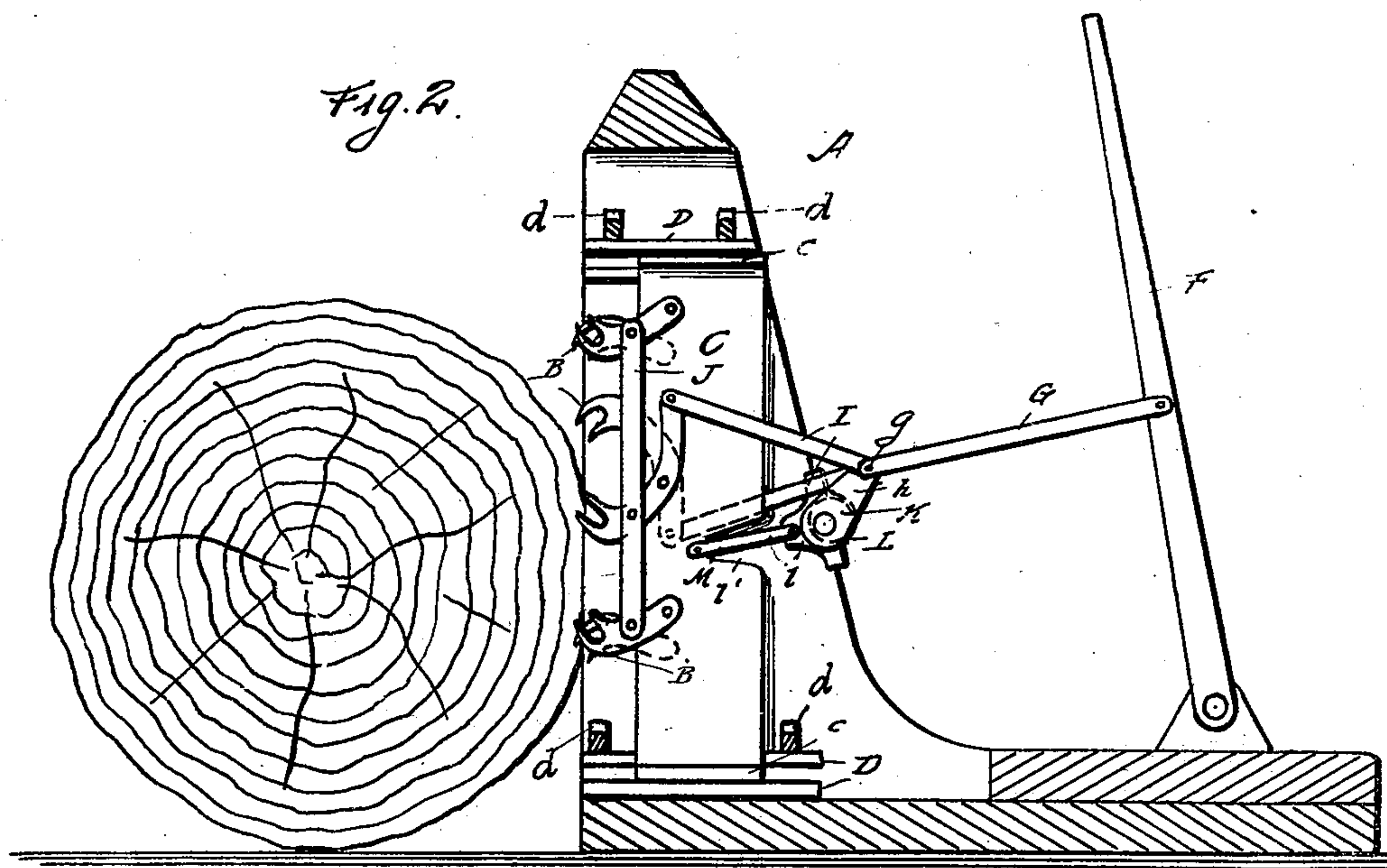
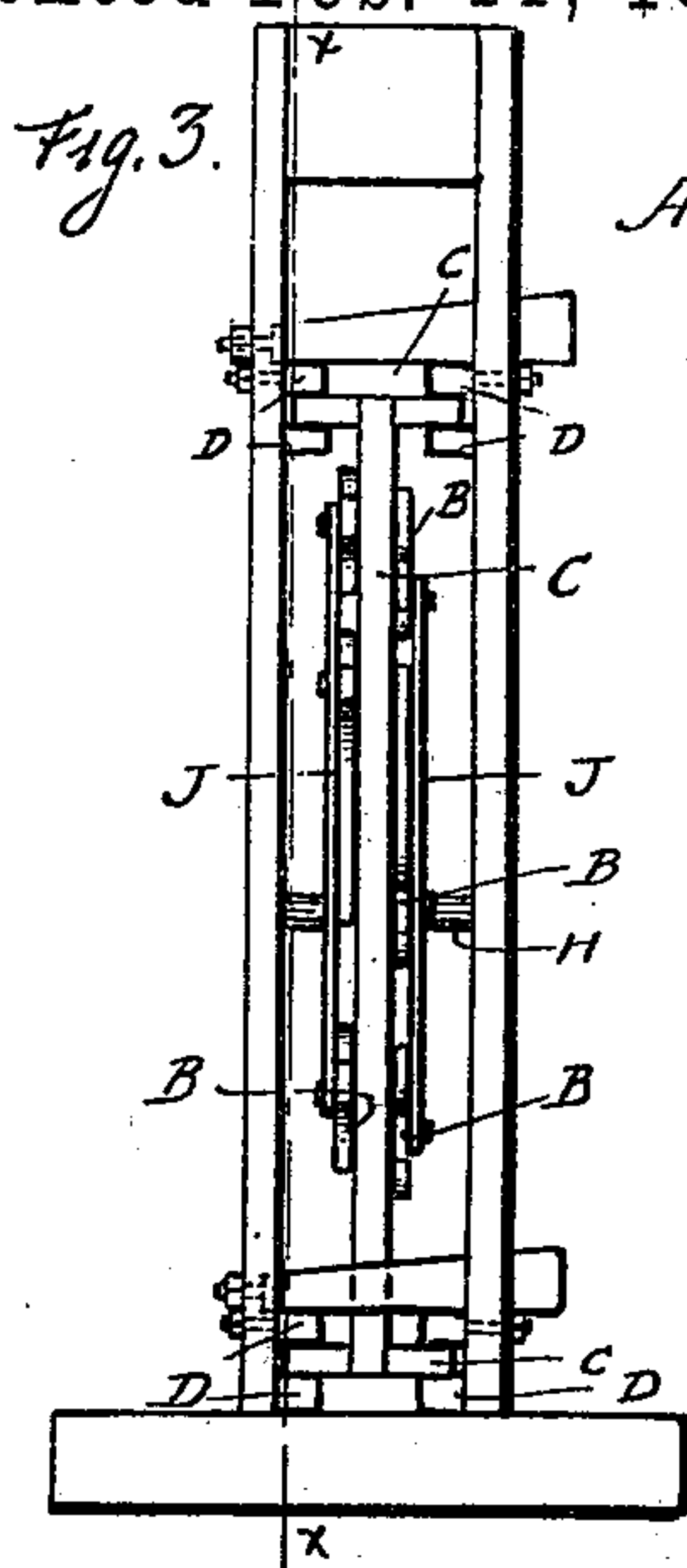
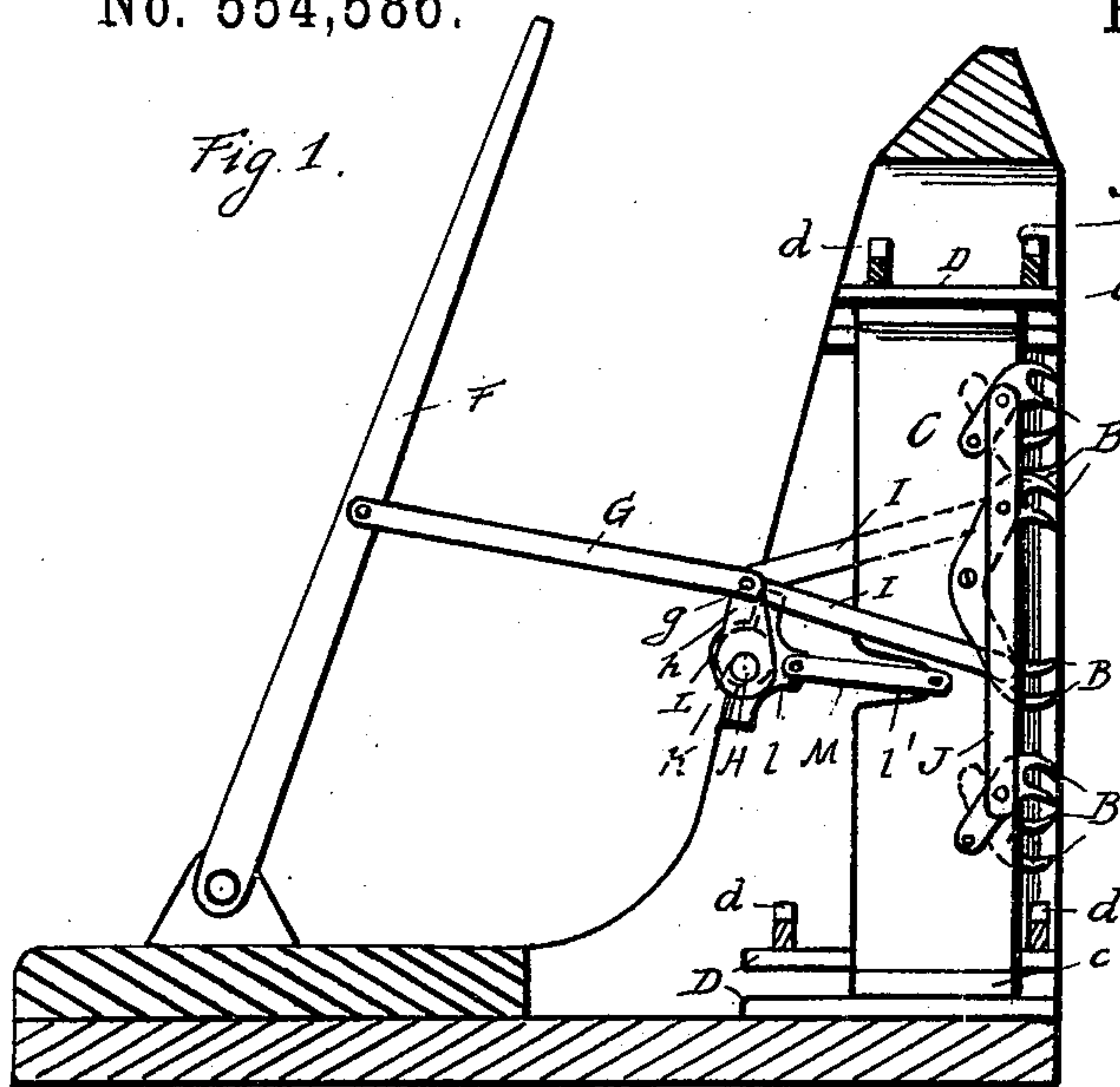


(No Model.)

C. ELENDER.
SAWMILL DOG.

No. 554,586.

Patented Feb. 11, 1896.



WITNESSES

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UNITED STATES PATENT OFFICE.

CLAIRVILLE ELENDER, OF WEST LAKE, LOUISIANA.

SAWMILL-DOG.

SPECIFICATION forming part of Letters Patent No. 554,586, dated February 11, 1896.

Application filed October 11, 1895. Serial No. 565,412. (No model.)

To all whom it may concern:

Be it known that I, CLAIRVILLE ELENDER, a citizen of the United States, and a resident of West Lake, in the parish of Calcasieu and State of Louisiana, have invented certain new and useful Improvements in Sawmill-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 of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a section on the line $x x$, Fig. 3. Fig. 2 is a similar view upon the other side. Fig. 3 is a front view of the invention.

This invention has relation to certain new and useful improvements in sawmill-dogs, and is designed to provide means whereby the teeth of the dog are caused to recede as they enter the log for the purpose of drawing the latter firmly against the knee of the dog.

With this object in view the invention consists in the novel construction and combination of parts, all as hereinafter described and pointed out in the appended claims.

Referring to the accompanying drawings, the letter A designates the knee, which is of the well-known form termed the "hollow-back knee," and need not be herein specifically described. This knee is bolted firmly to the plate of the carriage in the usual manner.

B designates the dog-teeth, which are arranged in two parallel vertical series between the vertical sides of the knee. These teeth are of the usual form and are so arranged that those of one series present their points reversely to those of the other series. In the old style of dogs with which I am familiar these teeth have been pivoted to the opposite faces of a stationary vertical plate, and have been vibrated by means of a lever and proper connections, being dependent for their drawing action entirely upon their shape, so that as soon as they become worn they fail to act properly. In fact even when new their action in this respect is not satisfactory. By the present invention I attach these teeth to a plate which is capable of a forward and backward movement toward and away from the log, and which is actuated by the same lever

that operates the teeth, so that by the one motion of the lever the log is not only fastened, but is also drawn back firmly against the knee. This takes up all lost motion and prevents the saw from cutting "wedging" lumber. It also prevents the log from being dogged away from the knee.

Referring again to the drawings, C designates the movable plate to the lateral faces of which the teeth B are pivoted. Said plate, at both its upper and lower end portions, is provided with lateral lugs or flanges c , which are arranged to move in ways or guides formed by pieces D secured to the inner faces of the vertical sides of the knee. The upper pieces D of both the upper and the lower guides are made adjustable for the purpose of taking up wear, and are set down and held by means of a wedge E, the sides of the knee where said pieces are bolted having oblong slots d for this purpose.

F designates the usual operating-lever, which is fulcrumed to the base of the knee at its lower end. Connected to said lever are two parallel links G, which are connected at their opposite ends to a pin g which is carried by the parallel arms h of a rock-shaft H journaled transversely in the vertical portion of the knee. Connected also to said pin are the parallel links I, which actuate respectively the central teeth of the two series. These central teeth are connected in the usual manner by links or toggles J with the upper and lower teeth of the respective series.

The rock-shaft H between the arms h has an eccentric K, provided with a strap L, having a tooth l , which engages loosely a cavity l' in the rear edge of the plate C. Connected to said tongue are straps M, which pivot to the said plate.

It will be readily understood that when the lever is thrown backward to cause the teeth to grip the log the plate C is at the same time and by the same movement moved backward, which draws the log firmly against the knee.

I have not in the drawings fully illustrated all the adjuncts of the knee, since such features are well known and do not enter into this invention.

I do not wish to confine myself to the precise construction and arrangement which I have shown and described, since this may be

modified without departing from the spirit and scope of my invention.

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

1. In a sawmill-dog, the combination with a knee, a vertical plate fitted to slide back and forth in said knee, a series of dog-teeth pivoted to each lateral face of the said plate, the
10 teeth of one series being arranged to present their points reversely to those of the other series, link or toggle connections between the several teeth of each series, an operating-lever, and connections between the said lever
15 and the intermediate dogs of both series and between the lever and the said plate, whereby as said lever is actuated, said plate is moved back or forth and the teeth are simultaneously

20 moved on their pivots, substantially as specified.

2. In a sawmill-dog, the combination of the knee, the vertical plate fitted to slide back and forth in said knee, the teeth pivoted to the said plate, the operating-lever, the rock-shaft, connections between the said lever and
25 shaft, connections between the said shaft and the said teeth, an eccentric on the said shaft, a strap therefor, and a connection between the said strap and the sliding plate, substantially
30 as specified.

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

CLAIRVILLE ELENDER.

Witnesses:

THOMAS ARENOR,
A. B. PARKER.