

(No Model.)

W. H. GEISLER.
SAWING MACHINE.

No. 525,456.

Patented Sept. 4, 1894.

Fig. 3.

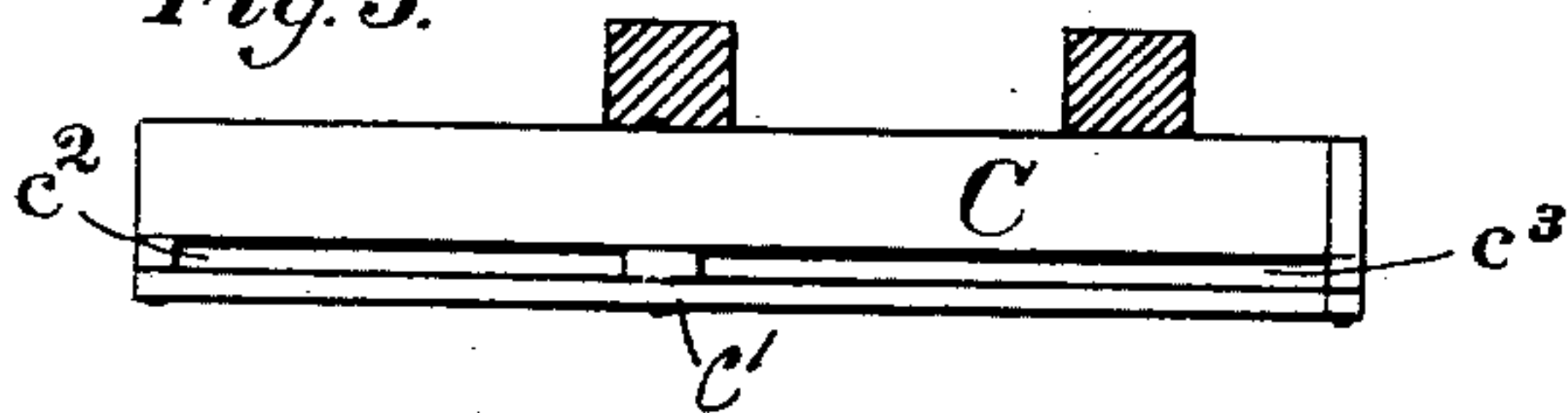


Fig. 1.

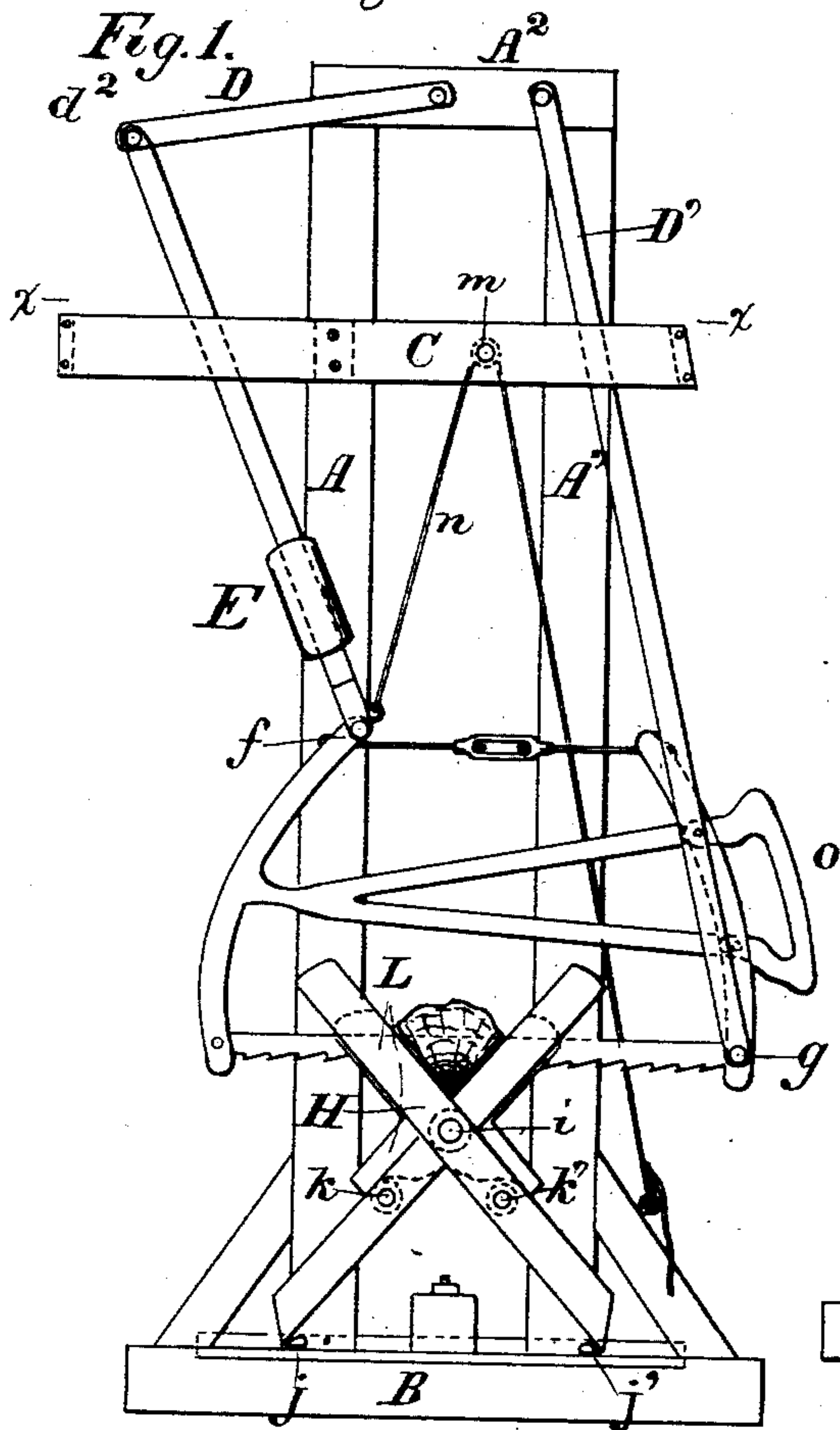


Fig. 2.

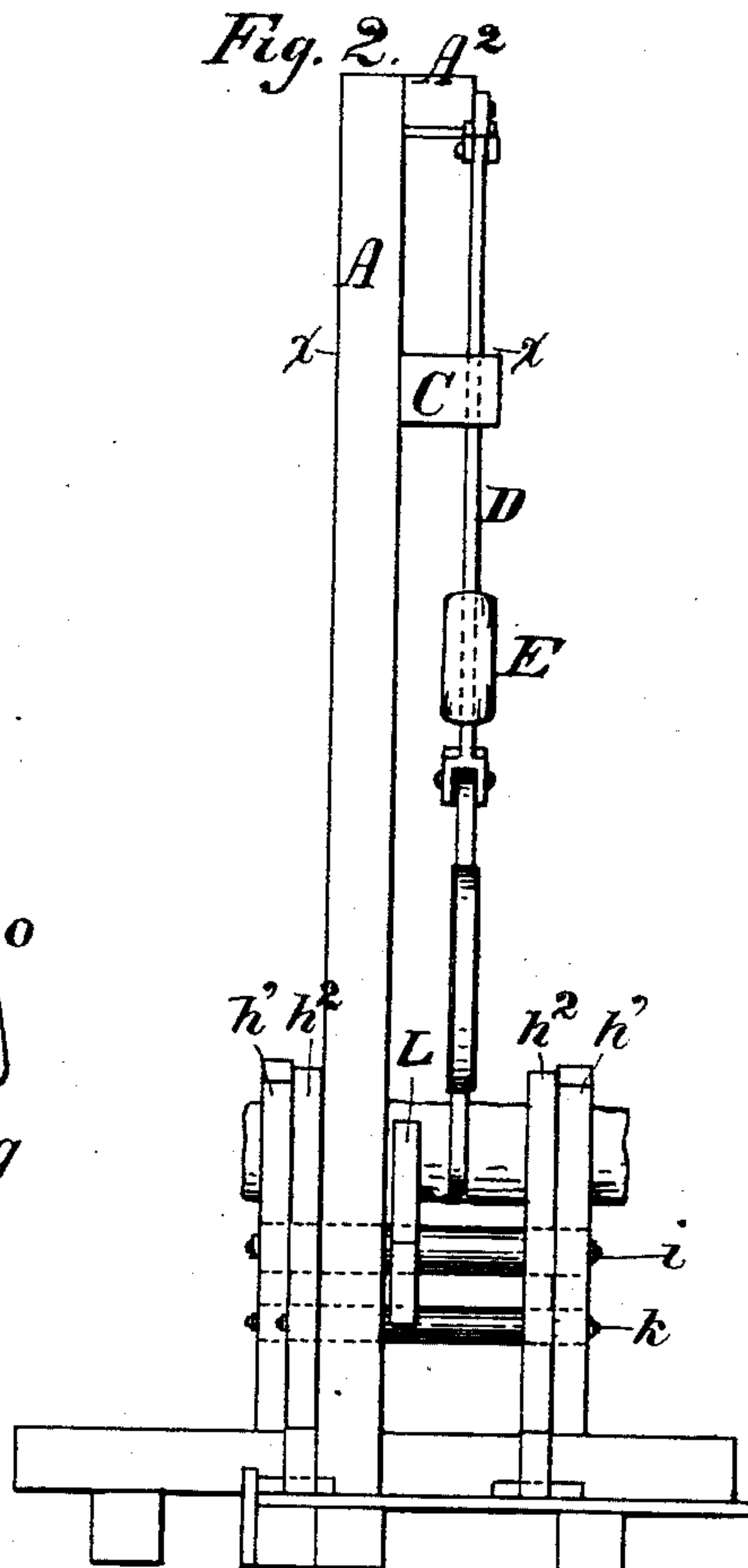
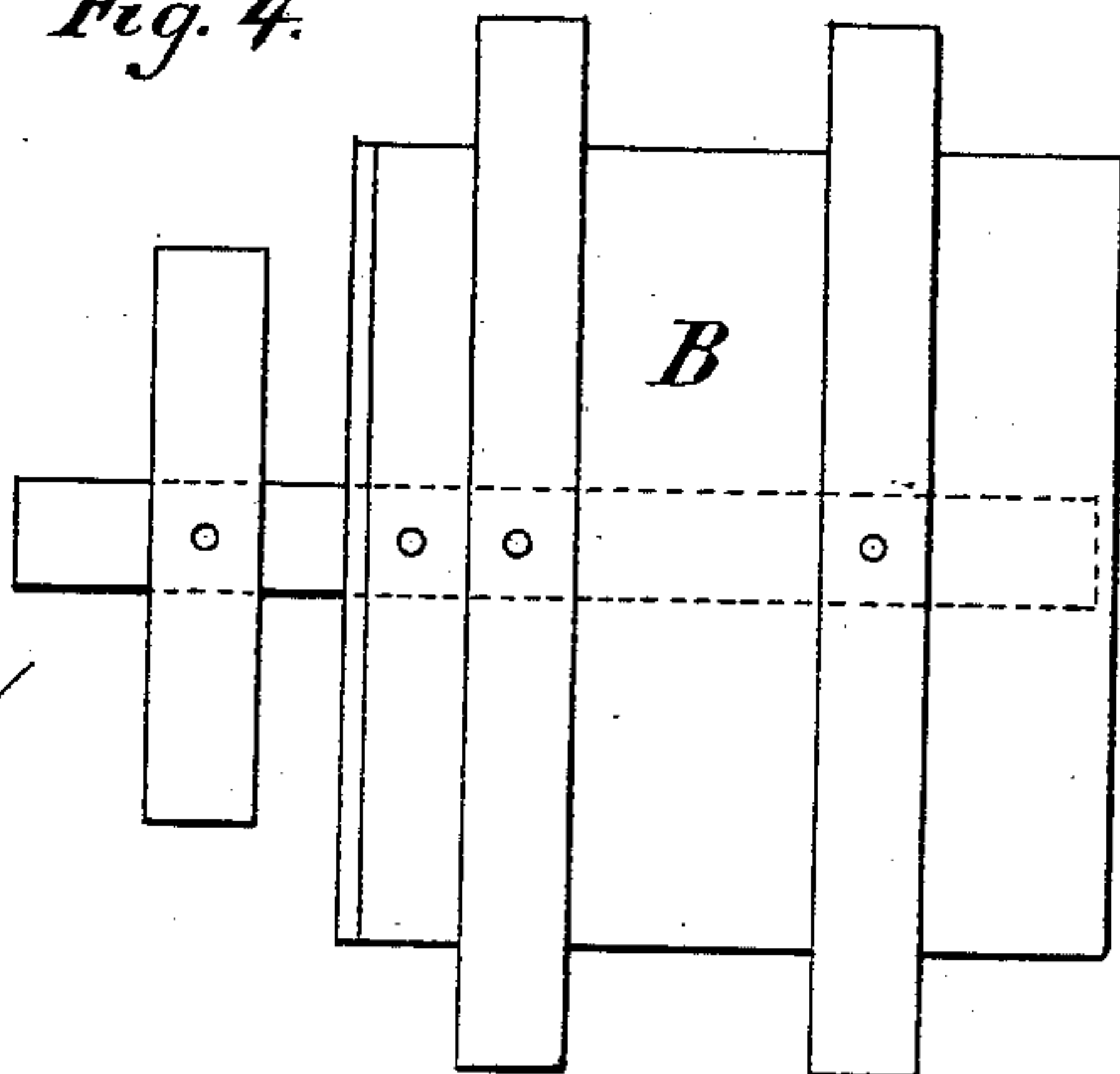


Fig. 4.



Witnesses:

E. E. Parsons
Evaline Reid.

Inventor
Wilhelm H. Geisler
by J. Geisler
Attorney.

UNITED STATES PATENT OFFICE.

WILHELM H. GEISLER, OF HEMPSTEAD, NEW YORK.

SAWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 525,456, dated September 4, 1894.

Application filed June 14, 1893. Serial No. 477,565. (No model.)

To all whom it may concern:

Be it known that I, WILHELM H. GEISLER, a citizen of the United States, residing at Hempstead, Queens county, State of New York, have invented a new and useful Sawing-Machine, of which the following is a specification, reference being had to the accompanying drawings as forming a part hereof.

My invention relates to contrivances adapted to cross-cut small logs, or sticks of cord-wood, into short lengths, and has for its object the construction of a simple, practicable device for this purpose. My invention essentially consists of an upright frame from which an ordinary saw may be suspended without much difficulty, and by means of which the sawing of wood, as mentioned, is greatly facilitated by relieving the labor of a sawyer to a considerable extent, as will be apparent after the construction of my mechanism has been described.

In the drawings above referred to, Figure I is a side elevation. Fig. II is an end elevation. Fig. III is a detail or partial longitudinal section of a line X—X of Figs. I and II and Fig. IV is a bottom view of the platform and timbers, on which my sawing-machine is supported.

Referring now to letters: A A' are two upright timbers securely mounted up the base or platform B, of suitable strength, and having a cross beam A² bolted onto its upper ends, and having a little lower down another cross beam C supporting a slat c', as shown in Fig. 3, so as to leave the guide-ways C² and C³. The beam A² pivotally supports the swinging arms D D', the former to which is jointed at d² and carries a weight E; and to these arms a saw of suitable make is attached, the lower-end of the arm D being pivotally attached to the outer end of the saw, at f, and the lower-end to the arm D', being pivotally attached to the other end of the saw at g.

H is an adjustable saw-buck or horse, the end-pieces h' and h² of which are held together by a central horizontal rail i, and the whole being adapted to permit said end-pieces or legs h' h² to be raised or lowered, so as to bring the foot thereof on the outside of cleats j j' secured on the platform B, as seen in the drawings, or on the inside of said cleats

for the purpose of raising or lowering said saw-buck and in so doing better adjusting the stick of wood which is to be cut, with regard to the saw. The end pieces are further connected by two horizontal rails k and k' which serve not only as stays but also as guides and supports for the base of an adjustable log-supporter L, which is mounted on said rail i and adapted to be longitudinally adjusted on said rail, so that in case a short stick of wood, that will not reach across the saw-horse, is to be cut one end thereof may be supported on said device L.

The beam C is provided at m with a pulley, over which is run a rope n one end of which is secured to the upper part of the outside end of the saw, the same end to which is attached the weighted arm D; and by means of this rope the saw may be drawn up to enable one to place the stick of wood to be cut in position, and when so drawn up the loose end of said rope n may be secured so as to hold such saw in said position for awhile.

The working of my invention will be understood from the description thereof given herein, and it will be apparent therefrom that by its use the labor of cutting up cord sticks is considerably diminished.

The saw may be provided with a large handle, o, so that the sawyer may take hold of the same with both hands if he should find such convenient. The swinging arms will guide the saw and the weight E will serve to urge the same against the wood, so as to keep it to its work without requiring the sawyer to throw his own weight upon the outer end of the saw, as is the case when trying to cut wood by means of simply a saw and buck.

It is my intention by means of this simple and inexpensive contrivance herein described to enable anyone having wood to cut up, to perform his work with greater dispatch and less exhaustion, the sawyer expending his entire physical force in drawing the saw to and fro across the stick of wood while my saw suspending mechanism does the rest of the work automatically.

Having thus described my invention, I claim as follows:

1. In a sawing-machine, an adjustable saw-buck or horse having crossing ends or legs, which are adapted to be expanded or drawn

together so as to bring the same within or without suitable cleats or stops provided on the platform on which such saw-buck or horse is mounted for the purpose specified, and said
5 crossing ends of such saw-buck or horse being further provided with two horizontal rails or stays as k k' and having an auxiliary log-supporter as L mounted on its central rail i , and adapted to be longitudinally adjusted on
10 said center rail for the purpose described, the base of said device L being supported and adjustable on the said rails k k' as set forth.

2. The combination with a base and a supporting frame having guides, of pivoted le-

vers, one being weighted, connected with a
hand-saw and working in the guides, an ad-
justable saw-buck, by which the log to be
sawed may be raised or lowered, and a de-
vice movable upon and transversely of the
saw-buck, whereby logs varying in length
20 may be supported, as specified.

In witness whereof I have hereunto set my signature in the presence of two witnesses.

WILHELM H. GEISLER.

Witnesses:

MARY BURTIS,
MICHAEL MAIER.