No. 680,078.

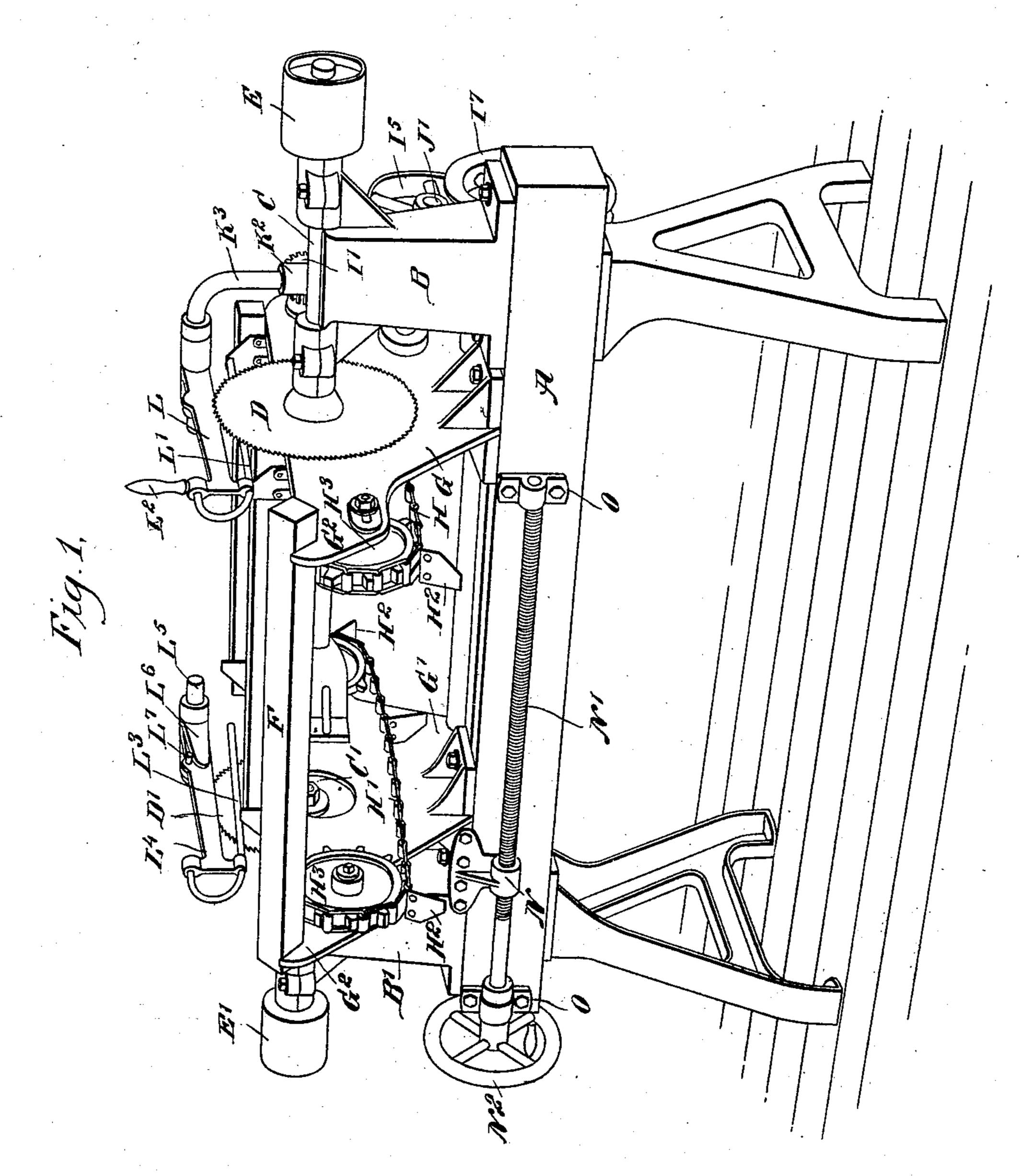
Patented Aug. 6, 1901.

C. SEYMOUR. SAWING MACHINE.

(Application filed Apr. 9, 1901.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

Edward Shorpe Slevel. Howard INVENTOR

Charles Seymour

BY

Muss L

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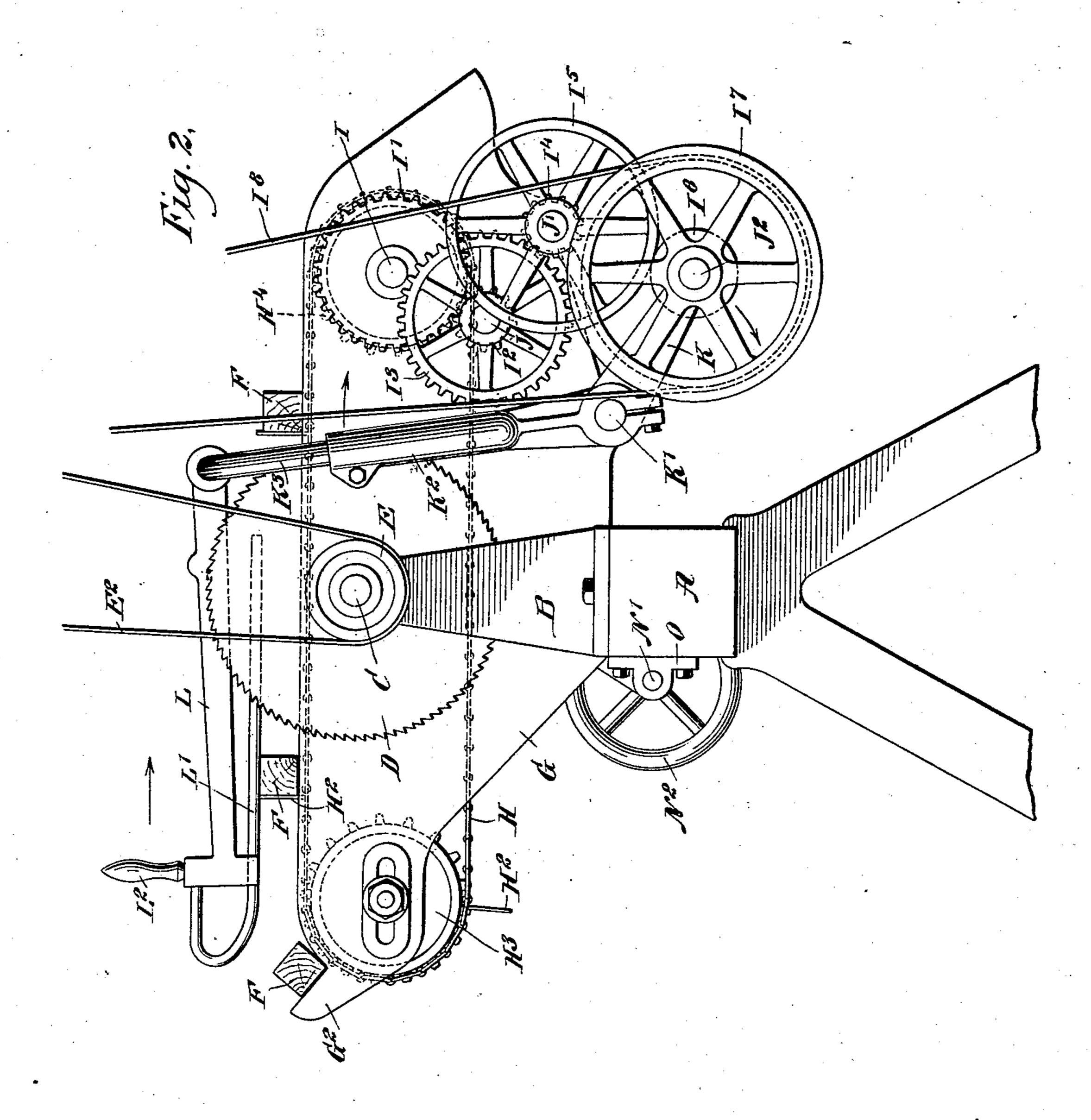
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WITNESSES:

Edward Thorpe Shevel. Hosting INVENTOR

Charles Seymour

BY

MUNICIPALITIES

ATTORNEYS

United States Patent Office.

CHARLES SEYMOUR, OF DEFIANCE, OHIO, ASSIGNOR TO THE DEFIANCE MACHINE WORKS, OF SAME PLACE.

SAWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 680,078, dated August 6, 1901.

Application filed April 9, 1901. Serial No. 55,020. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SEYMOUR, a citizen of the United States, and a resident of Defiance, in the county of Defiance and State of Ohio, have invented a new and Improved Sawing-Machine, of which the following is a

full, clear, and exact description.

The invention relates to woodworking machinery; and its object is to provide a new and improved sawing-machine, more especially designed for sawing off at one operation both ends of a spoke, handle, neck-yoke, singletree-blank, or other articles requiring to be the same length, the machine being simple and durable in construction, readily adjusted for any length of work required, and not liable to get out of order.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then

pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the views.

Figure 1 is a perspective view of the improvement, and Fig. 2 is an enlarged end ele-

vation of the same.

30 The improved sawing-machine is mounted on a suitably-constructed bed A, on which are adjustably secured-bearings B B' for spindles C C', carrying at their outer ends pulleys E E', connected by independent belts E2 with 35 suitable machinery for rotating the spindles and the saws D D'. The work F to be sawed off at both ends by the saws D D' is placed by an operator on forwardly-extending hooks G², arranged on heads G G', adjustably se-40 cured on the bed A inside of the bearings B B', as is plainly illustrated in Fig. 1, and said work F is removed from said hooks G² by the arms H² of endless carriers H H' in the form of sprocket-chains passing over front 45 sprocket-wheels H³ and over rear sprocketwheels H4, secured on a shaft I, extending longitudinally and journaled in suitable bearings in the heads G G'.

On the outer end of the shaft I is secured a gear-wheel I', in mesh with a pinion I², held on a gear-wheel I³, mounted to rotate loosely

on a stud J, attached to the head G, and said gear-wheel I3 is in mesh with a pinion I4, carrying a friction-pulley I5, journaled loosely on a stud J', likewise attached to the head 55 The friction-pulley I⁵ is adapted to be engaged by a friction-pinion I6, held on a driving-pulley I7, connected by a belt I8 with other machinery, so that when the pulley I7 is rotated and the friction-pinion I6 is in frictional 60 contact with the pulley I5 then a rotary motion is given to the said pulleys, the pinion, and the gear-wheels to rotate the shaft I, and thereby impart a traveling motion to the endless carrier to cause the arms H² thereof to 65 engage the work Fat the hooks G² and move the same rearward to the saws D D' for the latter to cut off the ends of the work.

The pulley I7 is mounted on a stud J2, carried by an arm K on a rock-shaft K', jour- 70 naled in the head G and provided with an upwardly-extending arm K2, in which is adjustably secured a bracket K3, on the upper end of which is mounted to swing a forwardlyextending arm L, having a rearwardly-extend-75 ing bottom bar L' adapted to rest on the top of the work F next to the saw D, so as to hold the work firmly in position while the saw D cuts off the end of the work. A similar bar L³ is arranged on an arm L⁴, located next to 80 the saw D', as is plainly shown in Fig. 1, to engage this end of the work and hold the same in position while the saw D'cuts off this end of the work. The arm L4 is hung loosely on a bracket L⁵, attached to the head G', and 85 on said bracket L⁵ are secured forwardly-extending arms L⁶, engaged by a pin L⁷ on the arm L4 to hold the latter in position at the time the work is out of reach of the arm L³.

The arm L, previously mentioned and argon ranged adjacent to the saw D, is provided with a handle L², adapted to be taken hold of by the operator to push the arm L rearward, and thereby impart a swinging motion by the bracket K³ to the arm K² to rock the 95 shaft K' and swing the arm K downwardly and forwardly to move the driven friction-pulley I⁵ out of frictional engagement with the pulley I⁵ and stop the machine.

The head G' and the bearing B' may be simultaneously adjusted longitudinally on the bed A, toward and from the head G, to ac-

commodate work F of different lengths, and for this purpose the bearing B' and the head G' carry a nut N, in which screws a screw-rod N', mounted to turn in suitable bearings O, 5 attached to the front of the bed A. On the outer end of the screw-rod N' is secured a hand-wheel N², which when turned by the operator actuates the screw-rod N' and feeds the nut N forward or backward, according to the direction in which the hand-wheel N² is turned, to move the head G' and the bearing B' toward or from the other head G. When the desired adjustment has been made, the head G' and the bearing B' are secured in 15 position on the bed A by suitable bolts or other fastening means in the usual manner.

Having thus fully described my invention, I claim as new and desire to secure by Letters

Patent—

forth.

20 1. A sawing-machine having circular saws for sawing off the work, an endless carrier for feeding the work to the saws, swing-arms resting on the work while the saws cut off the ends of the work, and a friction drive-gear 25 for said endless carrier and controlled from one of said arms, as set forth.

2. A sawing-machine having an endless carrier for carrying work to the saws, and a drive-gear for said endless carrier, arms for 30 holding the work on the carrier while the ends are being sawed off, and a connection between one of said arms and the drive-gear, to throw the latter in or out of action, as set

3. A sawing-machine, having saws for sawing off the work, an endless carrier for feeding the work to the saws an arm resting on the work while the saws are operating thereon, a drive-gear for said endless carrier and 40 means by which such gear may be thrown in

or out of action by the said arm, substan-

tially as set forth.

4. In a sawing-machine provided with an

endless carrier for feeding the work, a drivegear for said endless carrier including a shaft, 45 a rocker having an arm provided with a bearing for said shaft and with an upwardly-projecting arm composed of adjustable members and the arm connected with the upper member and arranged to rest upon the work, sub- 50 stantially as set forth.

5. A sawing-machine having an endless carrier for feeding the work, a drive-gear for said carrier including a shaft movable relatively to the other shafts of the gear, a rocker 55 supporting said shaft and having an upwardly-extending arm, and the arm arranged to rest upon the work and jointed to the said rocker-arm, whereby it may swing at such

joint, substantially as set forth.

6. In a sawing-machine, the combination with the endless carrier and the drive-gear therefor including a shaft and a rocker supporting the same, and having an upwardlyextending arm composed of adjustable mem- 65 bers, and the forwardly-extending arm jointed to the upper one of said members, and arranged to rest upon the work, substantially as set forth.

7. A sawing-machine comprising a bed- 70 frame, the upright plate G thereon and provided with a hook and with the carrier-supporting devices, the upright plate G' provided with a hook and with the supporting devices for the carrier, the carrier, means for adjust- 75 ing the plate G' toward and from the plate G, the saws and their operating devices, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of 80

two subscribing witnesses.

CHARLES SEYMOUR.

Witnesses:

GEO. W. DEATRICH, JOSEPH BAUER.