M. L. FAGAN.

MACHINE FOR SAWING OR FELLING TREES.

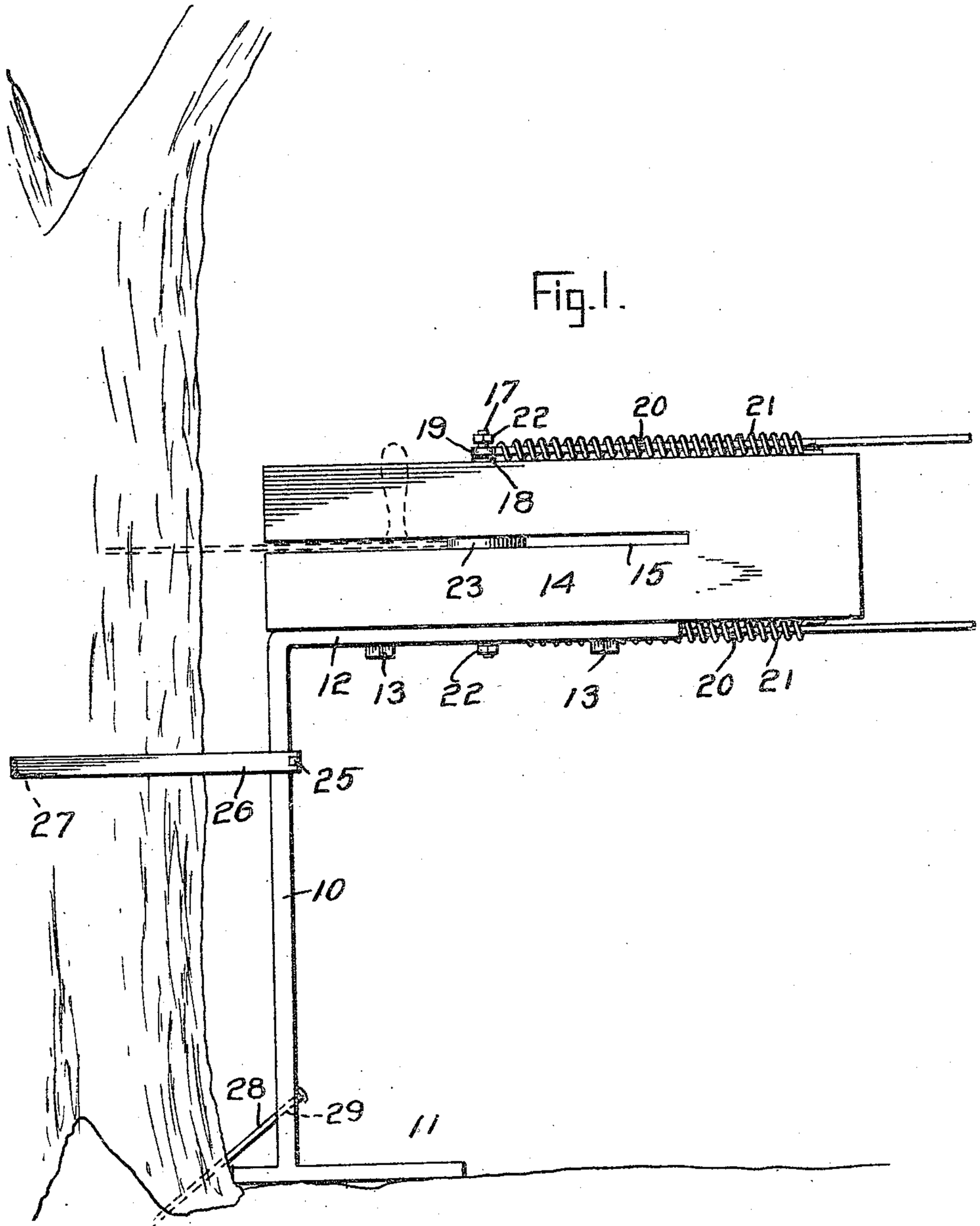
APPLICATION FILED SEPT. 10, 1907.

945,773.

Patented Jan. 11, 1910.

3 SHEETS—SHEET 1.

Fig. 1.



Witnesses

C. K. Reichenbach.

John B. Wilson

Inventor

M. L. Fagan.

By Lysle & Logan

Attorneys

M. L. FAGAN.

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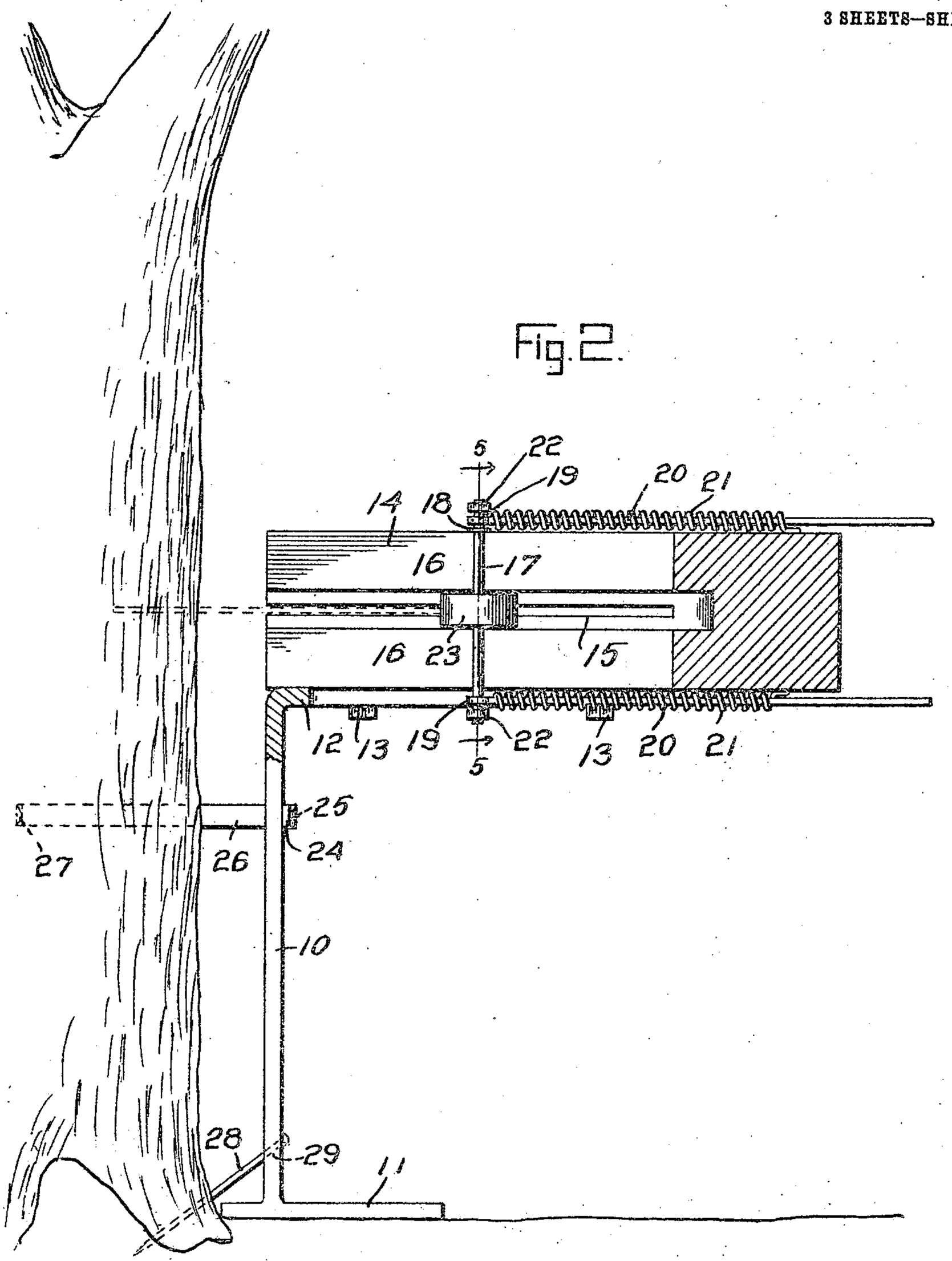
3 SHEETS—SHEET 2.

Fig. 2.



Witnesses

C. K. Reichenbach.

John S. Sowers

Inventor

M. L. Fagan.

By Lowell & Lowell

Attorneys.

M. L. FAGAN.

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3 SHEETS—SHEET 3.

Fig. 3.

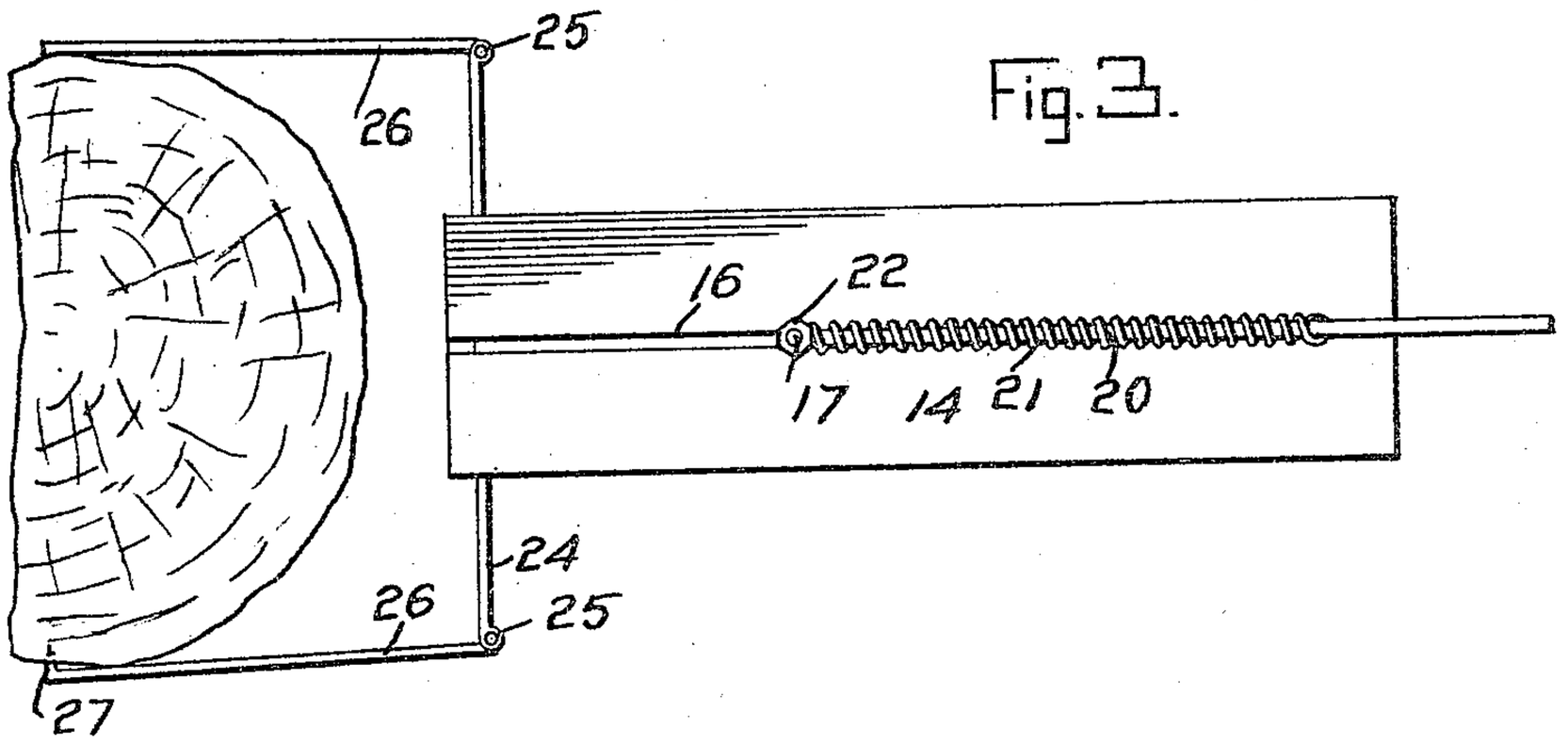


Fig. 4.

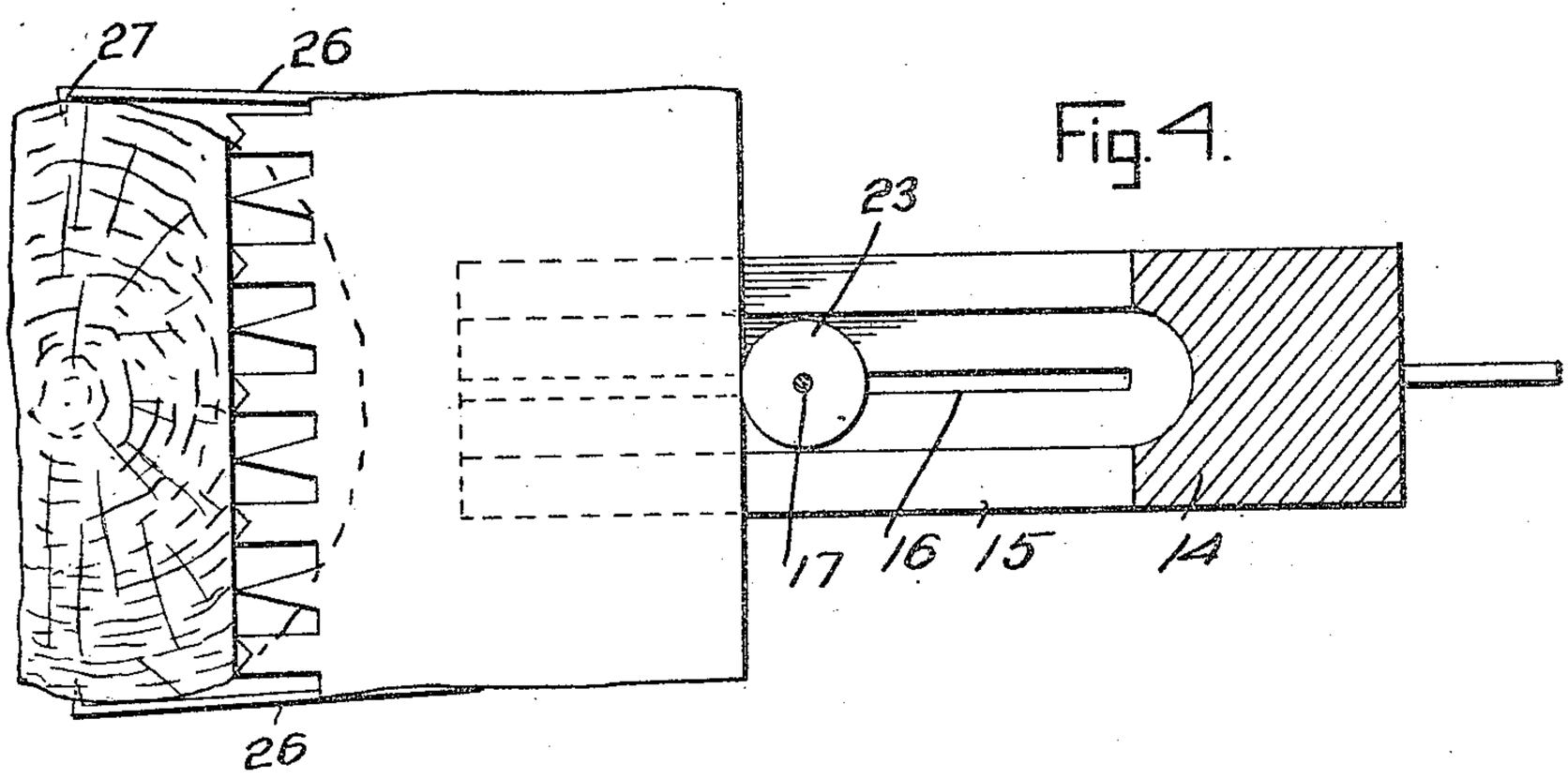
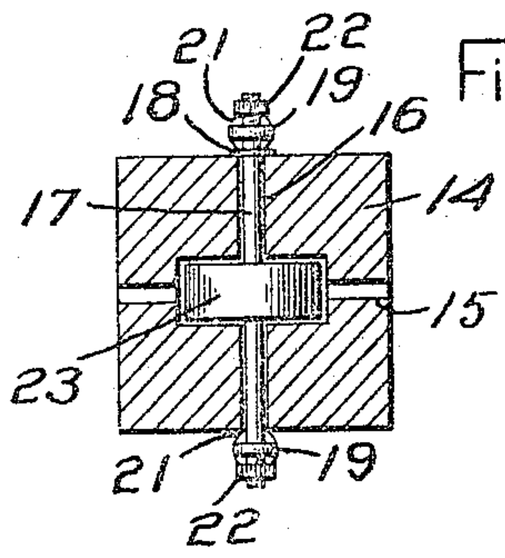


Fig. 5.



Witnesses

C. K. Reichenbach.

John S. Burns.

Inventor

M. L. Fagan.

By Lowndes & Lowndes

Attorneys.

UNITED STATES PATENT OFFICE.

MICHAEL L. FAGAN, OF KETTNER, TERRITORY OF NEW MEXICO.

MACHINE FOR SAWING OR FELLING TREES.

945,773. Specification of Letters Patent. Patented Jan. 11, 1910.

Application filed September 10, 1907. Serial No. 392,240.

To all whom it may concern:

Be it known that I, MICHAEL L. FAGAN, a citizen of the United States, residing at Kettner, in the county of Valencia, Territory of New Mexico, have invented certain new and useful Improvements in Machines for Sawing or Felling Trees; and I do hereby 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.

This invention relates to new and useful improvements in machines for sawing or felling trees and it has more particular reference to a machine which includes a stationarily supported block constructed to afford a saw guide and employed in connection with a substantial spring pressed follower for forcing the saw to take a bite into the tree.

In connection with a machine of the above type the invention aims as a primary object to provide a novel construction, combination, and arrangement of parts, the details of which will appear in the course of the following description in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views, wherein:—

Figure 1 is a side elevation showing the manner of use of a saw guide constructed in accordance with the present invention. Fig. 2 is a central longitudinal section thereof. Fig. 3 is a top plan view thereof illustrating the manner of use. Fig. 4 is a horizontal section illustrating the relation of the saw to its supporting and guide block. Fig. 5 is a section in the line 5—5, Fig. 2 looking in the direction of the arrow.

In the accompanying drawings the numeral 10 designates a vertical standard constructed with a supporting shoe 11 which rests upon the ground and having a horizontal leg 12 upon which is supported by bolt and nut fastenings 13 a block 14 constructed with a horizontal recess 15 and a vertical recess 16. Mounted in the latter for sliding movement is a pintle 17 provided with a stop lug 18 to prevent downward displacement thereof and being projected through the eyes 19 of stems 20, the latter having connection with expansive coil springs 21 secured to the rear ends of the block 14. The pintle 17 is provided at its ends with nuts 22 to prevent accidental displacement of the eyes 21 thereform and within the recess 15 carries a friction roller 23 against which the back of the saw blade is designed to bear, the saw having movement in a horizontal plane through the recess 15 as a guide.

Secured to the standard 10 is a strap 24 which projects on each side thereof and has hinged connections as at 25 with members 26, the latter being provided at their free ends with hooks 27 which are designed to be driven into the tree to be felled. The members 26 afford a means for steadying and bracing the standard 10 and their function is augmented by a spike 28 which is adapted to be driven through an aperture 29 in said standard into the ground. It will be apparent that the springs 21 serve, by reason of the connecting stems 20 to force the pintle 17 and the roller 23 outwardly with respect to the recess 15 and thus constitute the said pintle and roller a spring pressed follower to force the saw blade into the kerf as the latter is deepened.

The invention is simple in its structural details, inexpensive to manufacture and practical and efficient in use.

From the foregoing description it will be seen that simple and efficient means are provided for accomplishing the objects of the invention, but, while the elements herein shown and described are well adapted to serve the functions set forth it is obvious that various minor changes may be made in the proportions, shape and arrangement of the several parts without departing from the spirit and scope of the appended claims.

What is claimed is:—

1. The combination with a standard having a foot terminal and a slotted right angularly disposed opposite terminal, of a block superimposed upon and secured to the right angular terminal of the standard and containing a guide recess located centrally therein and opening through one end of the same and vertical and horizontal slots intersecting the said recess and disposed in planes at right angles to each other, a friction roller working within the recess, a rod working in said vertical slots and passed centrally through the friction roller, and expansion springs disposed in rear of and connected to the extremities of said rod and to the block for advancing the friction roller in the recess toward its open end.

2. The combination with a standard having a foot terminal and a slotted right angularly disposed opposite terminal, of a block superimposed upon and secured to the right angular terminal centrally therein and opening through one end of the same and vertical and horizontal slots intersecting the said recess and disposed in planes at right angles to each other, a friction roller working within the recess, a rod working in said vertical slot and passed centrally through the friction roller, expansion springs disposed in rear of and connecting to the extremities of said rod and to the block for advancing the friction roller in the recess toward its open end, and guide rods loosely passed through the springs and connected to the first named rod.

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

MICHAEL L. FAGAN.

Witnesses:

MILDRED L. MITCHELL,

ANNA WOOD.