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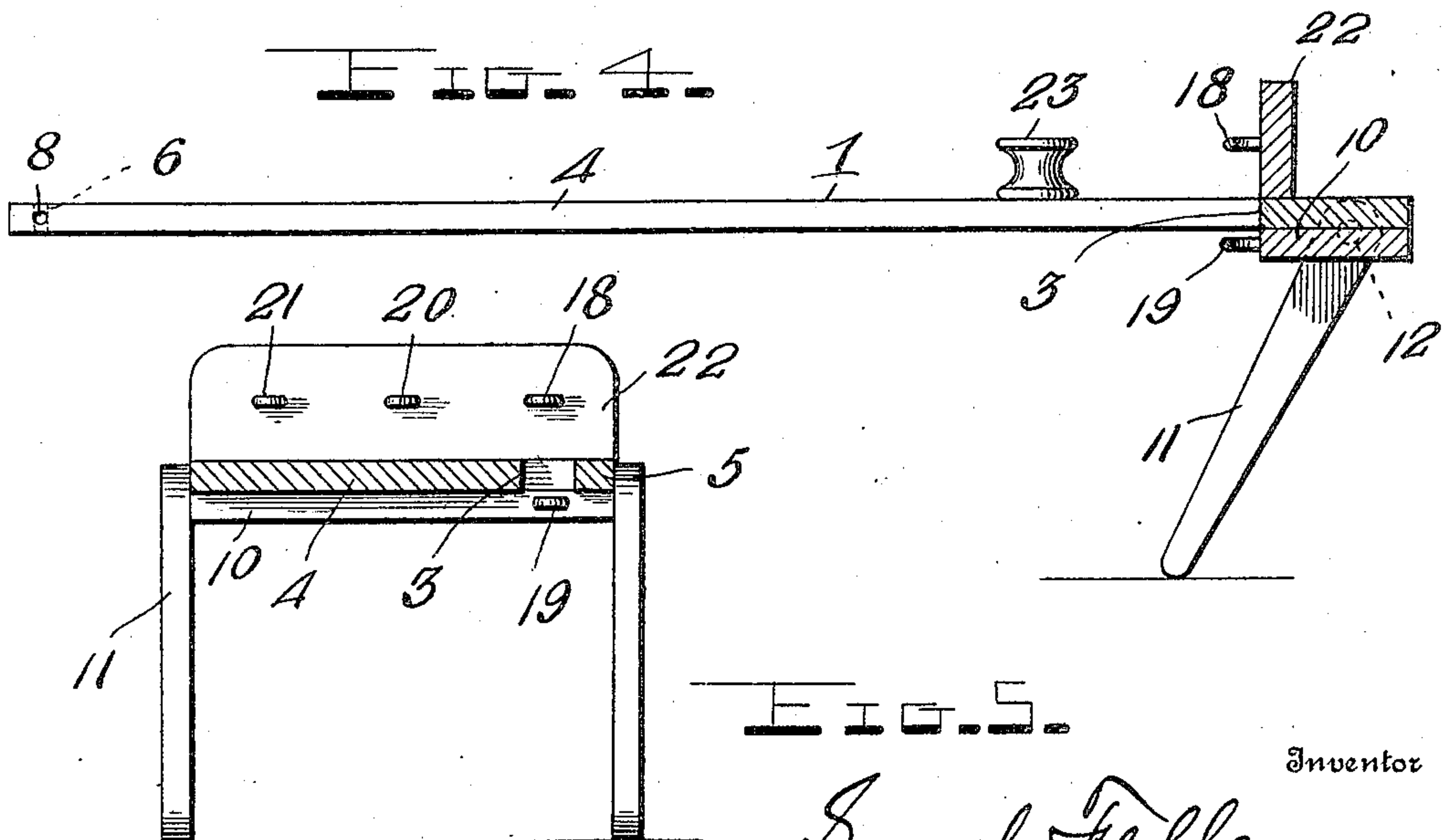
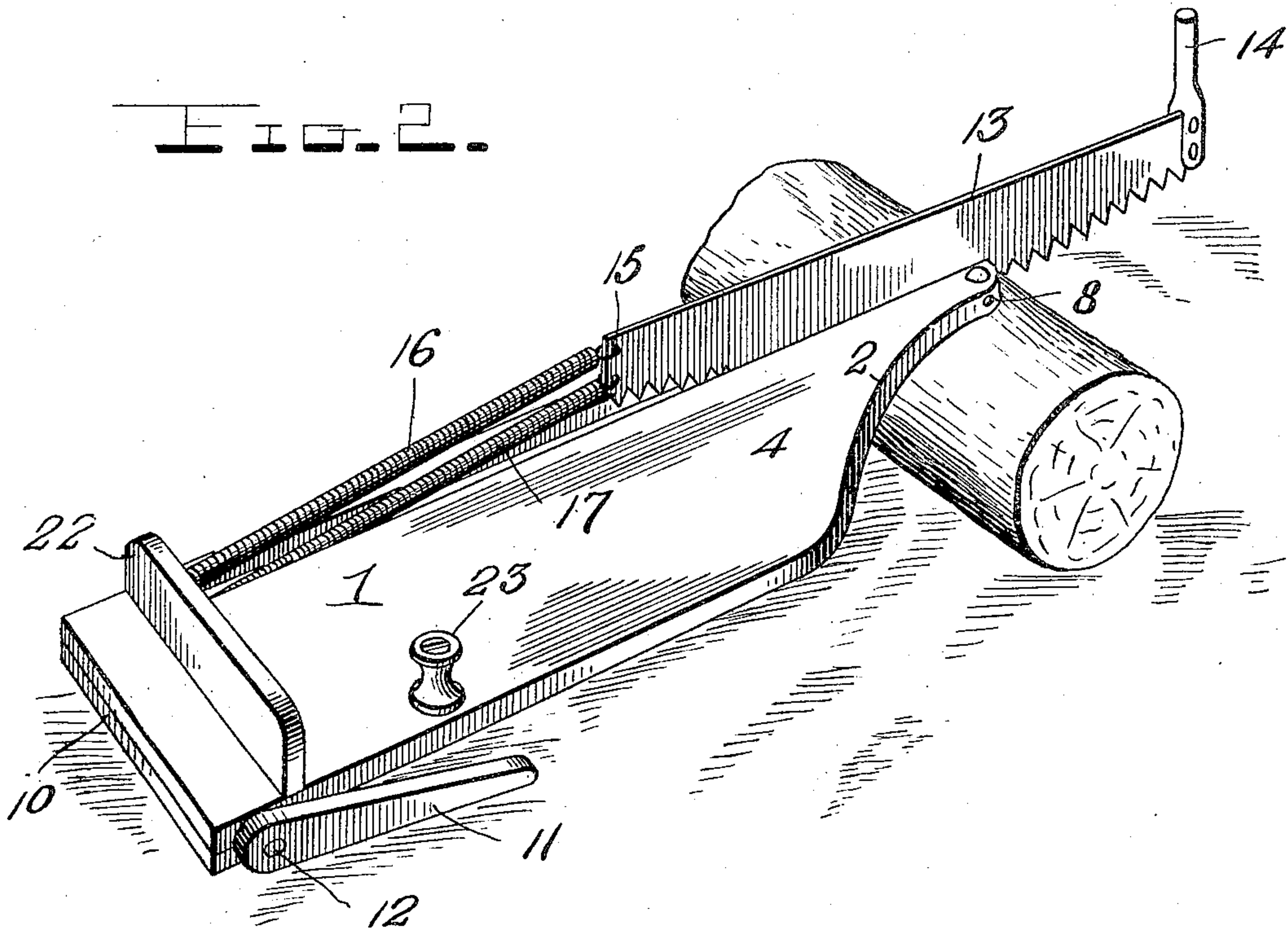
DRAG SAW.

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2 SHEETS—SHEET 2.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## DRAG-SAW.

935,197.

Specification of Letters Patent. Patented Sept. 28, 1909.

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*To all whom it may concern:*

Be it known that I, SAMUEL FELLER, a citizen of the United States, residing at Enterprise, in the county of Wayne and State of Illinois, have invented certain new and useful Improvements in Drag-Saws, of which the following is a specification, reference being had to the accompanying drawings.

This invention is an improved drag saw which may be used either for sawing down trees or sawing logs when lying upon the ground.

The object of the invention is to provide a simple and practical machine of this character which may be produced at a small cost and which will be durable in use and effective in operation.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing the use of the invention in sawing down a tree; Fig. 2 is a similar view showing the use of the invention in sawing a log lying in a horizontal position; Fig. 3 is a plan view of the body of the machine; and Figs. 4 and 5 are longitudinal and transverse sectional views taken, respectively, on the planes indicated by the lines 4—4 and 5—5 in Fig. 3.

The invention comprises a body 1 preferably in the form of a rectangular plank having one of its ends cut away to provide a curved recess 2 at one corner of said end, said recess being adapted to receive the trunk of the tree, as shown in Fig. 1. Said body 1 is also formed with a longitudinal slot 3 which extends inwardly from the last mentioned end to a point adjacent to the other end of said body and which divides it into a main portion 4 and a long narrow portion 5, as shown more clearly in Fig. 3. In the inner ends of the portions 4, 5 are formed openings 6, 7, respectively, to receive nails or similar fastenings for the purpose of securing said end of the body on the top of a horizontally disposed log, as shown in Fig. 2. In the reduced inner end of the portion 4 of the body is formed a transverse opening 8 which intersects the opening 6 and which is adapted to receive a nail, spike, or the like for the purpose of securing said end of the body to one side of the trunk of the tree, as shown in Fig. 1. Said nail or spike which is indicated

at 9 in Fig. 1 is inserted through the opening 8 after the portion or strip 5 of the body has been sprung downwardly, as will be understood upon reference to said figure. When the device or machine is used for sawing a log lying horizontally upon the ground as in Fig. 2, the outer end of the body is adapted to rest upon the ground and to strengthen said outer end a transverse reinforcing cleat 10 is preferably secured to the under face of the body at that point. When the machine is to be used for sawing down a tree, as shown in Fig. 1, the outer end of the body is adapted to be supported by one or more legs 11. As illustrated, two of the legs 11 are provided and they are pivoted at 12 on opposite sides of the outer portion of the body so that they may be folded against the side edges of the same when the machine is not in use or swung to any desired angle to support the outer end of the body at any distance from the ground. The slot 3 is provided in the body for the purpose of receiving and guiding the saw 13 when the machine is used, as shown in Fig. 2, said saw having a handle 14 at its inner end and at its outer end two openings 15 to receive hooks on the ends of two coil springs 16, 17. The other ends of these springs are provided with similar hooks for detachable engagement with either of two pairs of staples or eyes 18, 19, 20, 21. The pair consisting of the staples 18, 19 are arranged in vertical alinement opposite the closed end of the slot 3, the upper staple 18 being arranged in a transversely extending upwardly projecting rib or cleat 22 and the lower staple 19 being arranged in the under reinforcing cleat 10. The springs 16, 17 are engaged with this last mentioned pair of staples when the machine is used as shown in Fig. 2 so that there will be a downward and outward pull on the outer end of the saw as the single operator reciprocates it by means of a handle 14. The other pair of staples 20, 21 are arranged in spaced relation on the cleat or rib 22, which latter is secured on the top of the body 1 adjacent to its outer end. When the machine is used for cutting down a tree, as shown in Fig. 1, the saw 13 is turned to a horizontal position so as to work over the upper face of the body and the spring 16 is engaged with the staple 20 while the spring 17 is engaged with the staple 21, as will be understood on reference to said Fig. 1. Provided on the top of the body, adjacent to one of its side edges, is a suitably



journalled guide roller 23 over which the spring 17 is adapted to move when the saw is operated. By providing the guide 23 at the position shown and engaging the spring 5 17 with it, it will be seen that the outer end of the saw will be caused to be drawn laterally or horizontally and thereby fed through the trunk of the tree, as the saw is reciprocated by the operator.

10 From the foregoing it will be seen that the simple construction of the machine enables it to be produced at a small cost and renders it strong and durable. Furthermore, the peculiar construction of the body together with 15 the detachable connection of the springs therewith and the guide for one of the springs enables the machine to be quickly and easily adapted for use either in sawing horizontally disposed logs or in sawing down 20 a tree.

Having thus described the invention what is claimed is:

1. A drag saw comprising a body, means for attaching one end of the same to the ob- 25 ject to be sawed, a saw blade, a pair of coil springs each having one end attached to one end of the saw blade and its other end attached to the body, and a guide roller upon the body and over which one of said springs 30 extends.

2. A drag saw comprising a body plank having one end reduced to receive the trunk of a tree, said reduced end being formed with a transverse opening to receive a fast- 35 ening, whereby said end of the body may be attached to a tree trunk, pivoted legs for supporting the outer end of the body, a saw blade, two coil springs each having one end connected to one end of the saw blade and 40 its other end connected to the outer portion of the body and a guide roller journalled upon the body and engaged by one of said springs.

3. A drag saw comprising a body plank 45 formed with a longitudinal slot extending from its inner end to a point adjacent to its

outer end, upper and lower transverse cleats upon the body adjacent its outer end, means for fastening the inner end of the body to a log, a saw blade to move in said slot, upper 50 and lower fastenings arranged upon said upper and lower cleats and opposite the closed end of the slot and coil springs engaged with said upper and lower fastenings and attached to one end of the saw blade. 55

4. A drag saw comprising a substantially rectangular body plank formed adjacent to one side with a longitudinal slot extending from one end to a point adjacent to its other end and dividing it into the narrow portion 60 5 and the main portion 4, one end of the latter being reduced and the projecting reduced portion being formed with vertical and horizontal openings, said narrow portion being also formed in its end with a ver- 65 tical opening, said openings in the two portions of the body plank being adapted to receive a nail whereby said end of the device may be attached to either an upright or horizontal object to be sawed, upper and lower 70 cleats secured transversely upon the other end of the body plank, foldable supporting legs pivoted on opposite sides of the last mentioned end of the body plank, a grooved roller rotatable on a pivot pin rising from 75 the upper face of the main portion 4 of the body plank, a saw having a handle at one end and apertured at its other end, a series of eyes on said upper transverse cleat and two coil springs having hooks at one end to 80 engage the apertures in the saw and hooks at their outer ends to interchangeably engage said eyes, one of said springs being adapted to be engaged with said grooved roller. 85

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

SAMUEL FELLER.

Witnesses.

GEORGE ANDREW POLSON,  
HENRY FELLER.