No. 880,412. PATENTED FEB. 25, 1908.

L. SMITH.

AX ATTACHMENT FOR SAWING LOGS.

APPLICATION FILED AUG. 29, 1907.

2 SHEETS—SHEET 1.

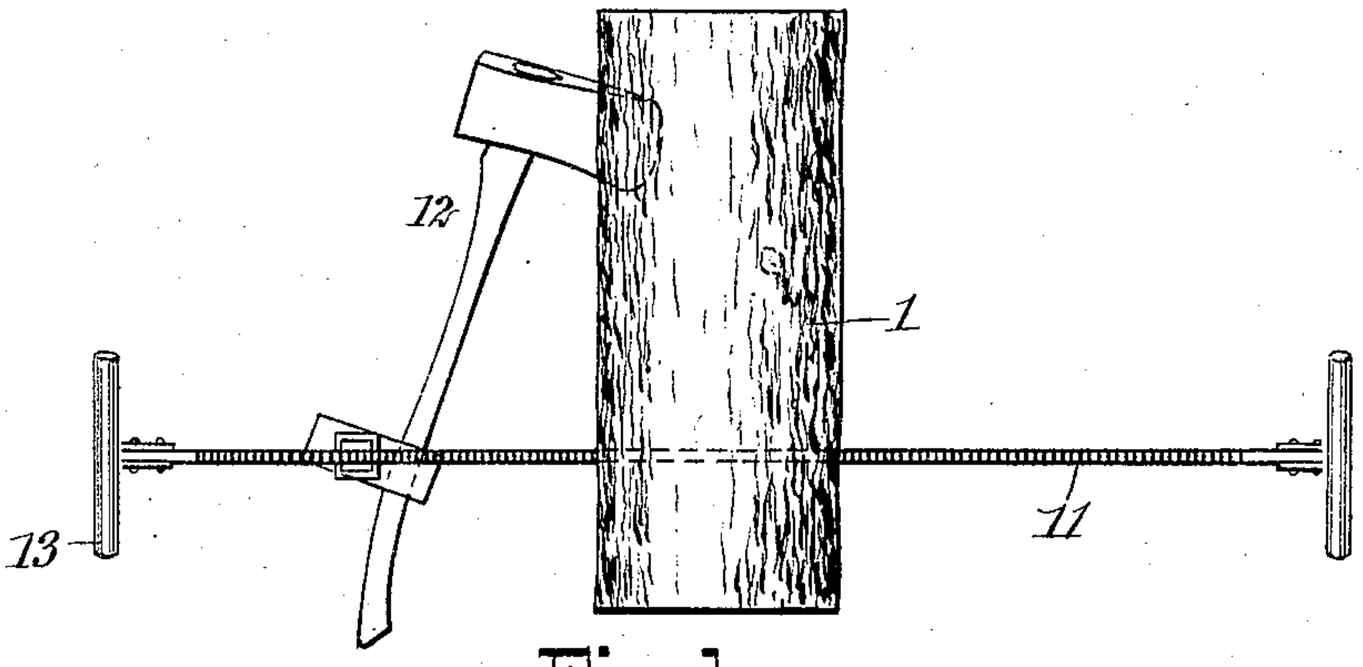

Fig. 1.

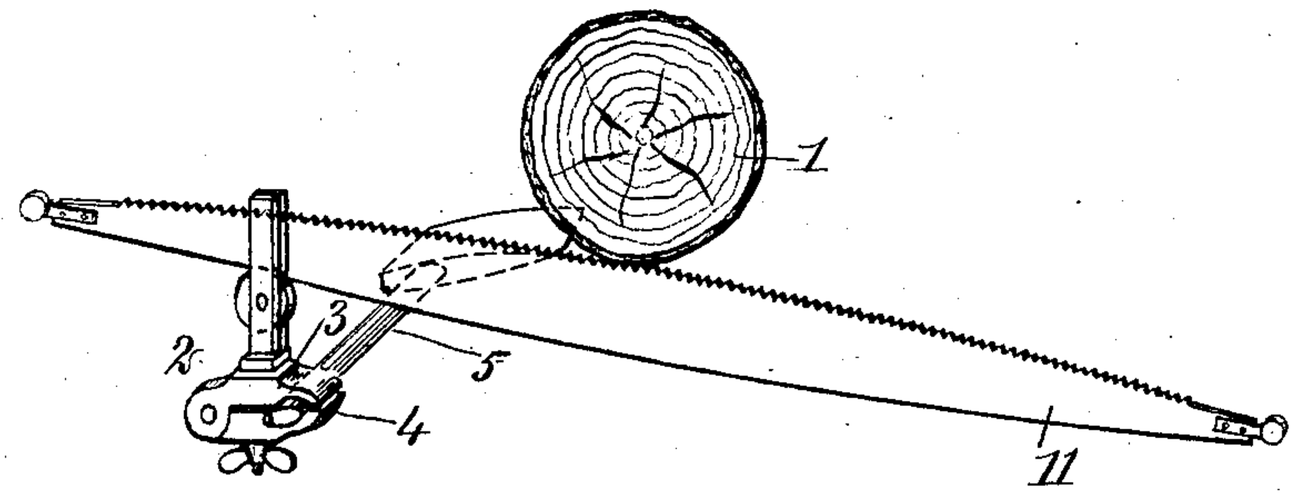

Fig. 2.

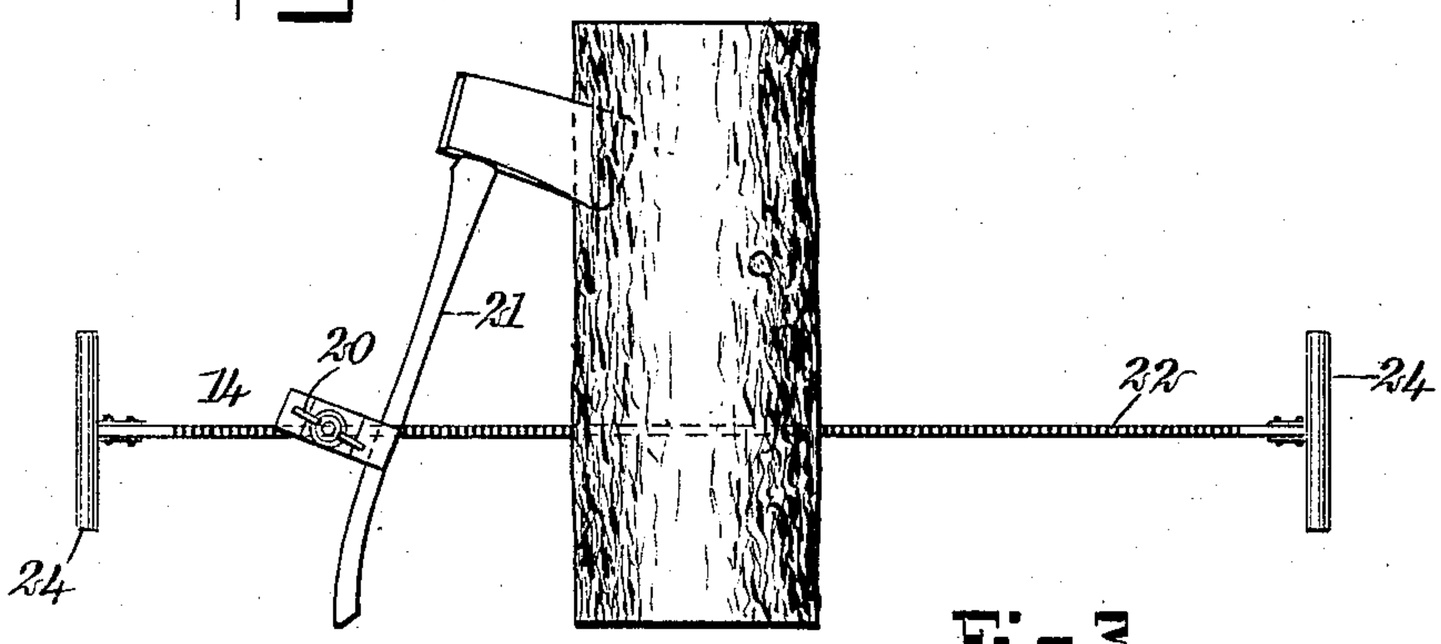

Fig. 3.

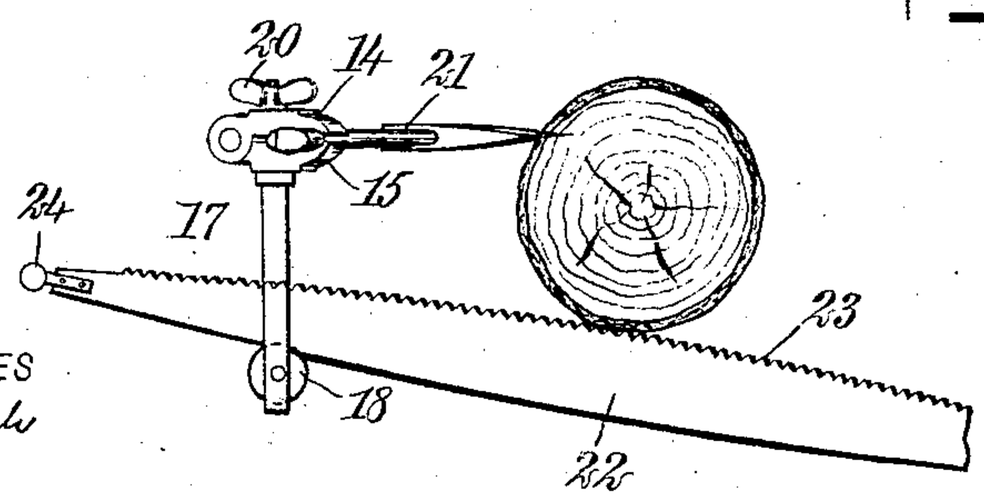

Fig. 4.

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2 SHEETS—SHEET 2.

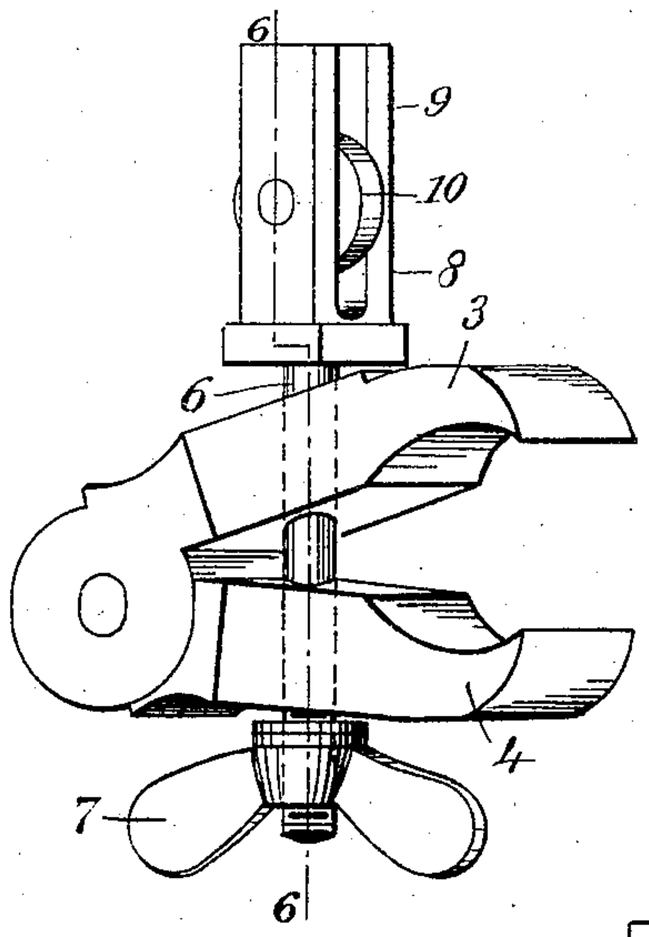
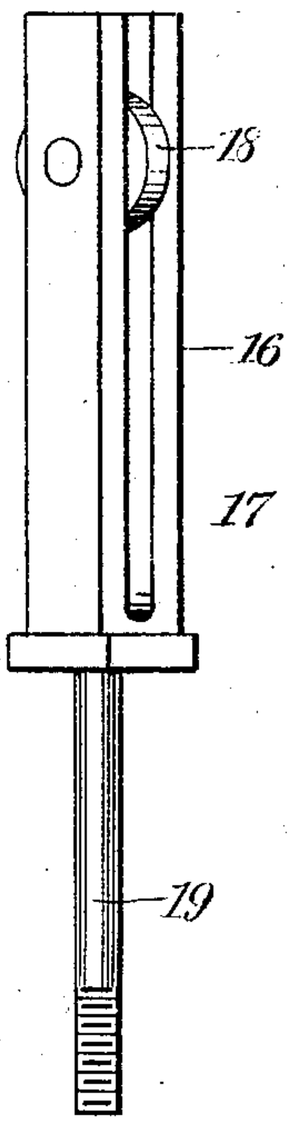


Fig. 5.



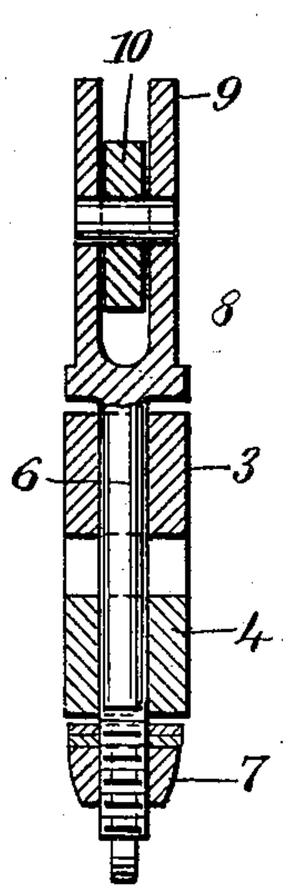


Fig. 6.

Fig. 7.

WITNESSES
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UNITED STATES PATENT OFFICE.

LEVI SMITH, OF MYRTLE POINT, OREGON.

AX ATTACHMENT FOR SAWING LOGS.

No. 880,412. Specification of Letters Patent. Patented Feb. 25, 1908.

Application filed August 29, 1907. Serial No. 390,567.

To all whom it may concern:

Be it known that I, LEVI SMITH, a citizen of the United States, and a resident of Myrtle Point, in the county of Coos and State of Oregon, have invented a new and Improved Ax Attachment for Sawing Logs, of which the following is a full, clear, and exact description.

This invention relates to means for cutting or sawing logs or timber.

The object of the invention is to produce a support or guide for a saw which can be readily attached to a log or timber with ordinary tools.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan showing how the device is applied in practice; Fig. 2 is an end elevation of the log, the saw and its guide being shown in side elevation and perspective; Fig. 3 is a plan similar to Fig. 1, but illustrating a modified form of the invention; Fig. 4 is an end elevation of the log, and showing the modified form of the invention; Fig. 5 is a perspective of the preferred form of the invention; Fig. 6 is a vertical section through Fig. 5, taken on the line 6—6; and Fig. 7 is a partial perspective of a saw guide of modified form.

Referring more particularly to the parts, and especially to Fig. 1, 1 represents a log to which the invention is represented as applied. In applying the invention, I provide the clamp 2, which is formed with pivoted jaws 3 and 4, which are adapted to be clamped upon an ax handle 5. The construction of this clamp is most clearly shown in Fig. 5. Through the jaws 3 and 4 a pintle or swivel bolt 6 passes; the lower extremity of this bolt is threaded so as to receive a wing nut 7 by means of which the jaws 3 and 4 may be drawn together. The upper end of the bolt 6 is formed into a bifurcated guide 8, between the forks 9 of which a wheel 10 is rotatably mounted. It should be understood that the bifurcated head 8 constitutes a guide for the saw blade 11, as indicated in the drawings. In mounting the guide for this purpose, an ordinary ax 12 is buried in the side of the log so that its handle projects longitudinally of the log. The jaws 3 and 4 are then applied to the handle and clamped firmly in position thereupon, as will be readily understood. In doing so, the clamp is adjusted so that the axis of the pintle or swivel bolt 6 is disposed in a plane substantially at right angles to the axis of the log. This being done, the back of the saw blade 11 is placed between the forks 9 so that it will run upon the face of the roller or wheel 10. By means of the handles 13, the saw blade is then moved back and forth in the usual manner, with its edge applied to the side of the log. The position of the parts is clearly illustrated in Figs. 1 and 2.

Instead of guiding the saw blade in the outer portion of the forks as illustrated in Figs. 1 and 2, I may construct the guide in a modified manner as illustrated in Figs. 3, 4 and 7. In this instance, I provide jaws 14 and 15 which are similar to the jaws 3 and 4 described above. The forks 16 of the guide 17 are elongated, and the guide roller 18 is mounted between them near their outer end. The guide is formed with a pintle 19 as before, and this pintle passes through the jaws and is threaded so as to receive a wing nut 20 for clamping the jaws upon the ax handle 21. The manner of mounting this device is similar to the manner of mounting the device when constructed according to the preferred form. In this case, however, the saw blade 22 passes on the inner side of the roller so that its cutting edge 23 advances toward the ax in passing through the log. With this form of the device, the saw guide and clamp may remain attached to the saw blade, as they are prevented from becoming removed therefrom by the handles 24.

Evidently, the invention as described, affords means for quickly rigging up a rest or support for the saw blade which will guide it as it is working through the log.

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

1. A device of the class described, comprising a pair of jaws having a pivot connection therebetween and constituting a clamp, a swivel-bolt mounted on said jaws and extending in a plane transverse to the axis of said pivoted connection, and a guide for a saw formed on said swivel-bolt.

2. A device of the class described, com-

prising a pair of jaws having a pivot connection therebetween, a swivel-bolt connecting said jaws and carrying a nut for forcing said jaws together, said bolt being extended laterally beyond said jaws and constituting a guide for the saw blade.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LEVI SMITH.

Witnesses:
A. H. BENDER,
J. T. BRIDGE.