E. T. PURSER.

ATTACHMENT FOR ENDLESS CHAIN SAWS.

APPLICATION FILED MAR. 3, 1909.

945,600. Patented Jan. 4, 1910.

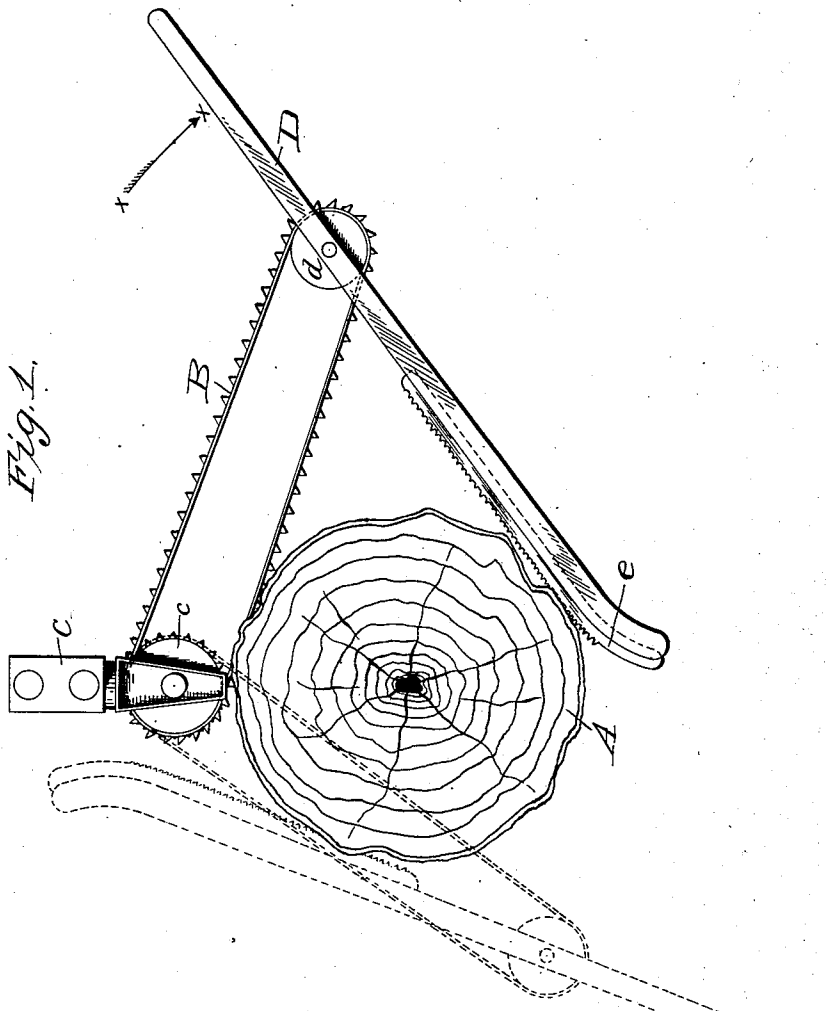

Fig. 1.

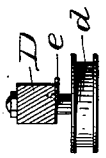

Fig. 2.

ATTEST.

Bentley Stahl.

Edwd L. Folson

INVENTOR.

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By Spear & Seely

ATTYS.

UNITED STATES PATENT OFFICE.

EDWARD T. PURSER, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO ENDLESS CHAIN SAW CO., A CORPORATION OF ARIZONA TERRITORY.

ATTACHMENT FOR ENDLESS CHAIN SAWS.

945,600. Specification of Letters Patent. Patented Jan. 4, 1910.

Application filed March 3, 1909. Serial No. 481,013.

To all whom it may concern:

Be it known that I, EDWARD T. PURSER, a citizen of the United States, residing at San Francisco, in the city and county of San Francisco and State of California, have invented new and useful Improvements in Attachments for Endless Chain Saws, of which the following is a specification.

My invention is an improvement upon endless chain saws, and is designed, in lieu of the ordinary fixed frame in which these saws move, to provide suitable driving means for engaging one loop of the saw with the other loop of the saw free from permanent support, this loop being carried so as to be free to be put under tension to be directed to the work to be cut, and kept in contact therewith by any suitable means, but preferably by means of a lever carrying a supporting pulley or sprocket.

In the accompanying drawings: Figure 1 shows a stump in plan view with my invention in place ready to begin the cutting of the stump, while in dotted lines I have shown the position of the parts after the cutting is completed. Fig. 2 is a detail taken through the lever on the line x—x of the lever shown in Fig: 1.

The stump, which represents any section of wood to be cut, whether vertically or horizontally arranged, is shown at A. The chain saw B may be of any known or improved construction and is driven by an engine C, which represents any preferred form of motive power. The free loop of the chain, or that opposite to the driving pulley c, is carried by a supporting pulley, or sprocket wheel, d, which in turn is firmly supported upon a hand lever D. The lower, or outer, end of this lever bears against the stump, or log, as shown in Fig. 1, and the operator, by applying pressure to the opposite end of the lever, puts the saw under tension and directs it into the wood to be cut. In order to give a proper purchase and hold upon the stump I prefer to provide the lever D with a plate e, having a serrated edge which prevents it from slipping when in contact with the log. I slightly curve the outer end of the lever also in order that its position with relation to the stump may be readily changed.

It will be seen that with this construction an exceedingly simple cutting device is provided, readily transportable and easily manipulated, and most effective in operation.

What I claim is:

1. In a sawing device, a chain saw, supporting and driving means for one loop, and means for carrying the other loop for directing the cutting action, the chain saw being the sole connection between the supporting and carrying means.

2. In a sawing device, a chain saw, supporting and driving means for one loop, and a lever having a free fulcrum end and a handle end, and supporting means for the other loop intermediate the said ends.

3. In combination with an endless chain saw, means for driving the same and a lever supporting one loop of the saw, said lever having one end adapted to engage the stump or log being cut, and the opposite end serving to force the saw into the log, substantially as described.

4. In a sawing device, a chain saw, means for supporting and driving one loop, a lever with a support carried thereby to engage the opposite loop of the saw, the other end of the lever having means to engage the stump and prevent slipping, substantially as described.

5. In combination with a saw, means for driving the same and a lever supporting one end of the saw intermediate of the ends of the lever, said lever having one end adapted to engage the stump or log being cut, and the opposite end serving as a handle to force the saw into the log, substantially as described.

In testimony whereof I have affixed my signature in the presence of two witnesses this 17th day of February 1909.

EDWARD T. PURSER.

Witnesses:
FRANK L. OWEN,
A. DIXON.