

S. McLean,

Sharpening Reciprocating Saws.

N^o 23,744.

Patented Apr. 19, 1859.

Fig. 1.

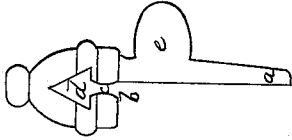
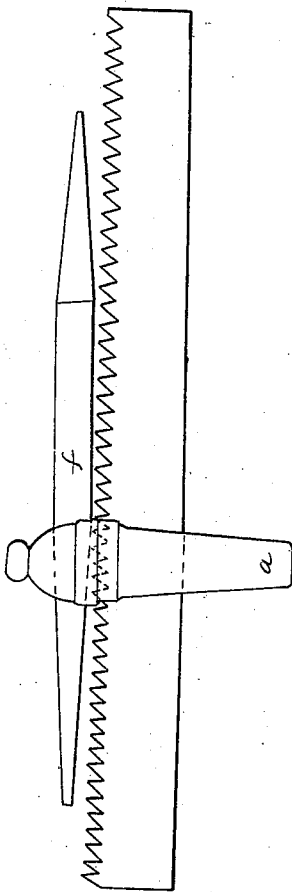
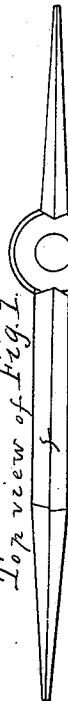


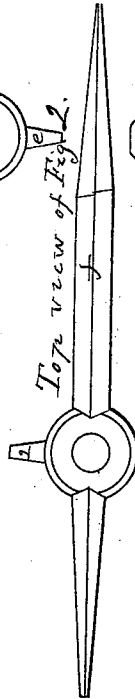
Fig. 2.



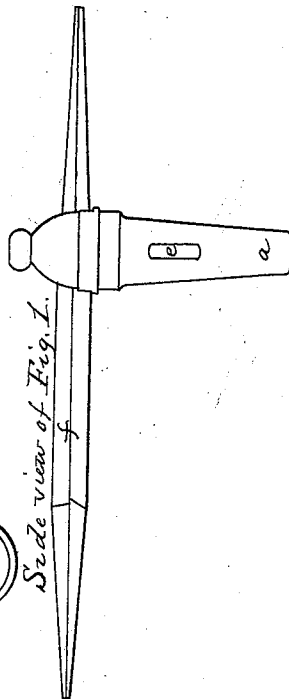
Top view of Fig. 1.



Top view of Fig. 2.



Side view of Fig. 1.



Witnesses.

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UNITED STATES PATENT OFFICE.

SHERMAN McLEAN, OF ROYALTON, NEW YORK, ASSIGNOR TO AMERICAN TRADES COMPANY, OF NEW YORK.

SAW-JOINTER.

Specification of Letters Patent No. 23,744, dated April 19, 1859.

To all whom it may concern:

Be it known that I, SHERMAN McLEAN, of Royalton, Niagara county, State of New York, have invented a new and useful instrument or tool for making square and uniform the angular edges of the teeth of saws and which I call a "saw-jointer," and that the following is a full and exact description thereof and of the manner of using the same, reference being had to the drawings accompanying this my specification.

The saw-jointer is composed of a file, usually the ordinary three-cornered file, and of a tool to hold and carry the file so that when it is applied to the teeth of the saw and passed over them it will produce the desired effect upon the teeth. The tool, or part that carries the file is shaped as represented in Figures I, II, &c. of the drawing. The inner surface of the long arm, *a*, is made perfectly straight and true so as to fit perfectly square and true upon the side of the blade of the saw. The upper part of the instrument is forked as seen at *b*, and the space or slot between the long and short arm is to be made wide enough to be slipped easily over the teeth of the saw the upper part, *c*, being chamfered off so as not to interfere with the set. Above the slot is a triangular opening *d* to fit a three cornered file *f*, Fig. II and hold it fast with one of the sides directly over the fork, as seen at *d*. The projection, *e*, is simply a knob or handle for holding the instrument conveniently when it is in use upon the

saw. The instrument is used by slipping the fork over the teeth of the saw, and pressing the straight and flat side of the long arm against the blade of the saw, and drawing the file placed in the head of the instrument back and forth over the teeth. The result is that the teeth have their angular edges exactly at right angles to the sides of the saw blade and which are also uniform; and the effect is to produce entire accuracy in the operations of the saw upon the wood when in use. The file carrier is best made of iron, but it may be made of other metals, or composition, or of hard wood. Although I would usually prefer the three cornered file, this is not essential, and any other shaped file having a flat surface or surfaces may be used.

What I claim as my invention in the foregoing is—

The arrangement and adjustment of the file in the tool or file carrier so constructed that when the flat side of the long arm of the tool is pressed against the side of the saw blade, it will present the file exactly at right angles to the angular edges of the teeth, and being passed along over them will square and make uniform their edges, the saw blade being placed when the instrument is in use between the long and short arms of the saw jointer, as above described.

SHERMAN McLEAN.

Witnesses:

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GEORGE W. FOX.