

(Model.)

S. TOLES.

DEVICE FOR SETTING AND JOINTING SAWS.

No. 422,467.

Patented Mar. 4, 1890.

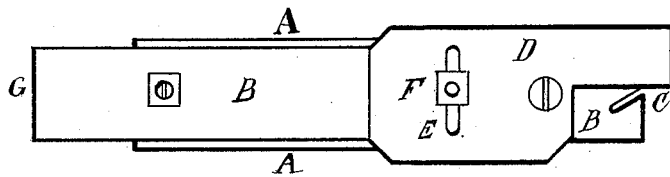


Fig. 1

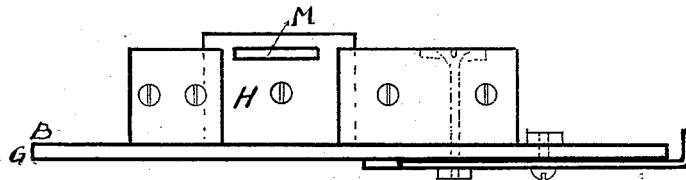


Fig. 2

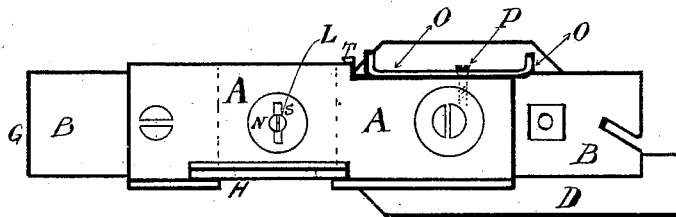


Fig. 3

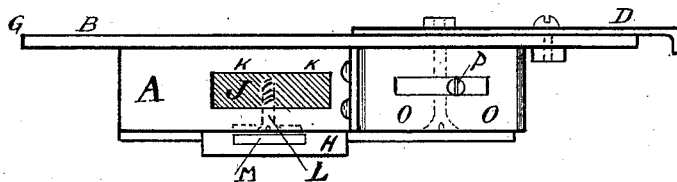


Fig. 4

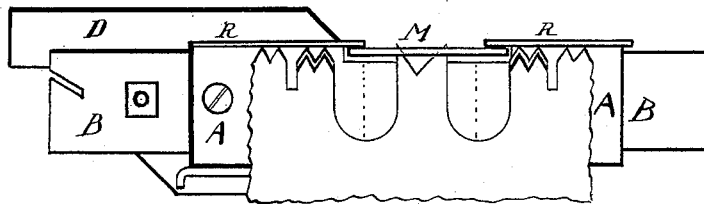


Fig. 5

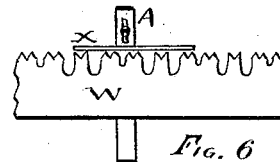


Fig. 6

Witnesses
John Robinson
& V. Horton

Silas Toles Inventor
per his attorney Chas. Horton

UNITED STATES PATENT OFFICE.

SILAS TOLES, OF ST. THOMAS, ONTARIO, CANADA.

DEVICE FOR SETTING AND JOINTING SAWS.

SPECIFICATION forming part of Letters Patent No. 422,467, dated March 4, 1890.

Application filed September 16, 1889. Serial No. 324,161. (Model.)

To all whom it may concern:

Be it known that I, SILAS TOLES, a British subject, residing at St. Thomas, in the county of Elgin, in the Province of Ontario, Canada, have invented new and useful Improvements in Machines for the Adjusting and Setting of the Teeth of Crosscut-Saws, of which the following is a specification.

My invention relates, first, to the setting of the cutting-teeth of crosscut-saws; in the second place, to the adjusting of the drag-teeth thereof to the requisite level after the process of sharpening with the file or otherwise; and, in the third place, to the jointing or reducing all the cutting-teeth thereof to a uniform level before they are sharpened, and I accomplish these objects by the mechanism shown in the accompanying drawings, in which—

Figure 1 is a front elevation showing the slotted gage attached. Fig. 2 is a side elevation showing the mechanism for holding the drag-teeth of crosscut-saws while being adjusted. Fig. 3 is a side elevation showing the position of the plate H and the movable tenon attached thereto working in the block A. Fig. 4 is a side elevation showing the face of the sliding plate O attached by the set-screw P to the block A. Fig. 5 shows the drag-tooth placed in the mechanism of Fig. 2. Fig. 6 shows the relative positions of the saw and file in jointing saws.

I accomplish the setting of the teeth of crosscut-saws by means of the mechanism shown in Fig. 1. The wooden or metal block or base-piece A has the steel bar B attached thereto, which bar has in its end the mouth C to catch the saw-tooth, while the adjustable slotted gage D can be adjusted, by means of the slot E and the bolt and nut F, to give any required set to the saw-teeth, thus giving a regular and uniform set to all the cutting-teeth. The operator must strike with his hammer or similar tool on the end G of the bar B.

I accomplish the adjusting of the drag-teeth of crosscut-saws to a proper level by means of the plate H, which is attached to the block A by the sliding tenon J, which

works in the mortise K and is adjusted by the set-screw L, together with a file used by the operator. The plate H has a mouth or opening in it, through which the drag-tooth projects, as shown in Fig. 5. When the drag-teeth are being adjusted in this manner, the plate R rests upon the points of the cutting-teeth. The plate N in the side of the block has the slot S and the set-screw L, which is attached to the tenon J.

I accomplish the jointing of the teeth of crosscut-saws by means of the sliding plate O, (shown in Figs. 3 and 4,) in which there is a slot and set-screw P. In combination with the base-piece A the plate is held by tightening the set-screw P, and holds the file tight against the shoulder T and at right angles with the block A while the operator draws it over the teeth of the entire saw in the position indicated in Fig. 6, A being the block, X being the file, and W the saw.

I am aware that machines for setting the teeth of crosscut-saws are in use and are not new, and I do not claim the invention thereof; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the block or base-piece A, of wood or metal, with the steel bar B, having the mouth C and the slotted adjustable gage-plate D attached thereto, substantially as set forth.

2. The combination of the block or base-piece A, of wood or metal, and the sliding adjustable tenon J therein, with the plate H, having the opening M to receive the drag-teeth of saws, substantially as set forth.

3. The sliding plate O, in combination with the block or base-piece A, of wood or metal, to which it is attached by means of the set-screw P in the slot or opening therein, substantially as shown and set forth.

St. Thomas, Ontario, September 4, 1889.

SILAS TOLES.

Witnesses:

CHAS. HORTON,
I. DAVIS.