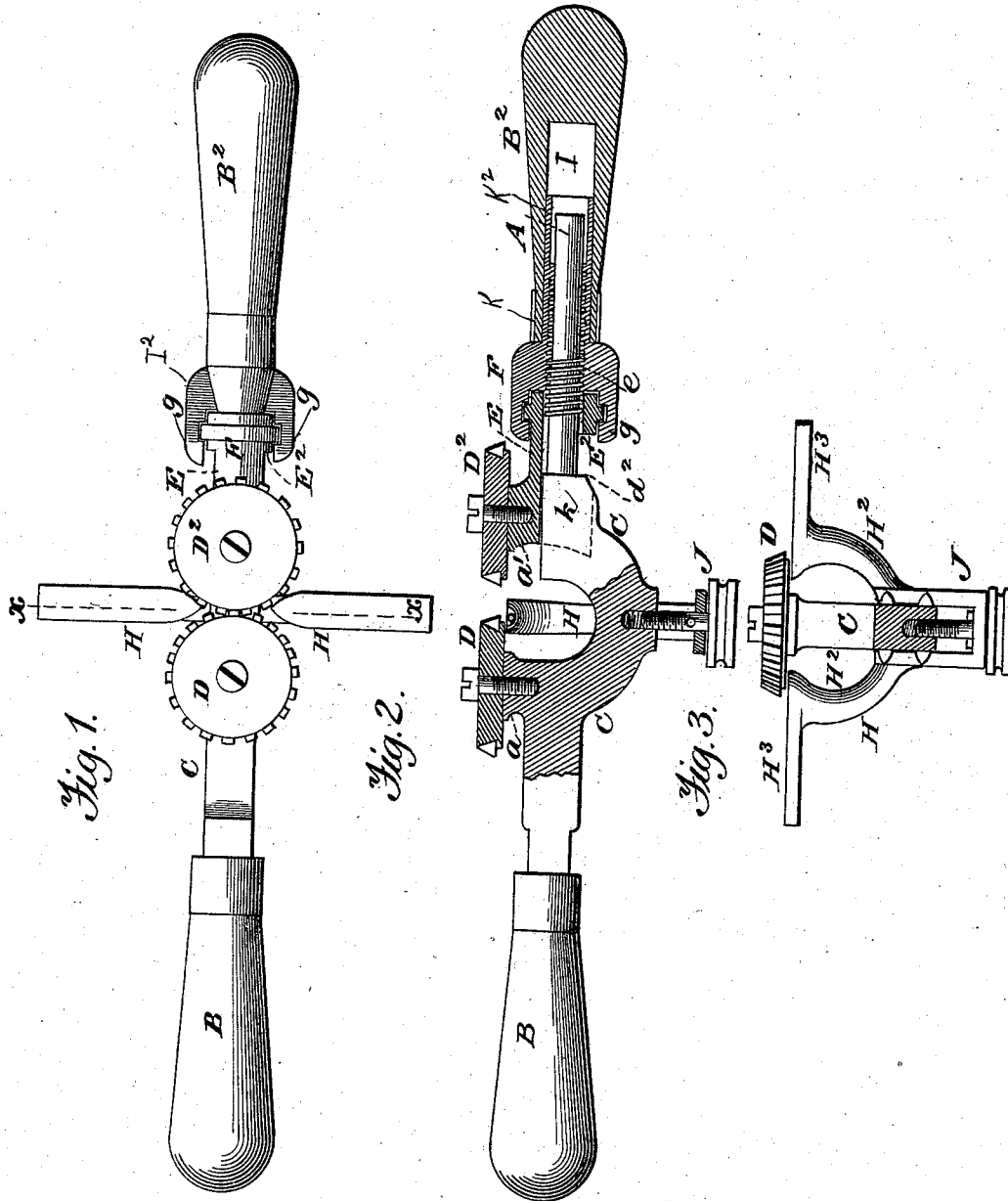


(No Model.)

W. T. SLICER.
DEVICE FOR SETTING SAWS.

No. 382,116.

Patented May 1, 1888.



Witnesses.
A. Ruppert.
Alfred T. Sage.

Inventor.
William T. Slicer.
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UNITED STATES PATENT OFFICE.

WILLIAM THOMAS SLICER, OF COLORA, MARYLAND.

DEVICE FOR SETTING SAWS.

SPECIFICATION forming part of Letters Patent No. 382,116, dated May 1, 1888.

Application filed January 23, 1888. Serial No. 261,597. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM THOMAS SLICER, a citizen of the United States, residing at Colora, in the county of Cecil and State of Maryland, have invented certain new and useful Improvements in Devices for Setting Saws; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to devices for use in setting saws, and has for its object to generally improve upon the construction of this class of appliances.

To this end, and to such others as the invention may relate, the same consists in the peculiar construction and in the novel combination, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the accompanying drawings, and then specifically defined in the claims.

In the drawings, Figure 1 is a side view of a saw-set constructed in accordance with my invention. Fig. 2 is a central longitudinal section through the same, and Fig. 3 is a central transverse section on the line *xx* of Fig. 1.

Reference being had to the details of the drawings, A represents the main frame, which is provided at one of its ends with a fixed handle, B. The shaft is provided, at a point substantially at its longitudinal center, with a downwardly-curved portion, C, and pivoted upon the raised extension *a* upon the upper face of the shaft and adjacent to the curved portion is the horizontal wheel D, the outer periphery of which is beveled and provided with a series of notches, as shown.

E is a casting adapted to fit over and move freely upon the squared portion *k* of the shaft upon the side of the curved portion opposite that upon which the wheel D is journaled.

D² is a wheel in all respects similar to the wheel D, and is pivoted upon the upper face of the extension *a'* of the casting E. The relative positions of the wheels D and D² are such that when the casting E is in position upon the frame A the upper faces of the wheels will be

in the same horizontal plane, and when moved into contact, as hereinafter described, the notches formed within the beveled periphery of one of the wheels will mesh with those of the opposite wheel.

E² is an extension of the casting E, and is in the form of a collar adapted to fit over and move freely upon the rounded portion *d* of the frame A, and when the wheels are in contact this collar will abut against the shoulder *d'*.

F is a raised portion or flange extending around the outer face of the collar E². The handle B² is provided with a central longitudinal opening, I, which is extended a suitable distance within the handle to receive the screw-threaded extension *e* of the main frame, as shown.

I² is an internally-screw-threaded casting, provided at its inner end with arms *gg*, which arms are formed upon their adjacent inner faces with a groove adapted to embrace the flange F upon the collar E². The outer end of the casting I² is provided with extensions K K², within which is secured the end of the handle B².

H is a guide or gage for regulating the vertical position of the saw. This gage is made of a single casting, the bifurcated portion of which is adapted to embrace the curved portion of the shaft and to move vertically within suitable guides formed upon the sides of the same. Each of the arms H² of the gage H is provided at its upper end with a horizontal extension, H³, and the gage is made vertically adjustable by means of a set screw, as will be readily understood.

From the foregoing description the operation of the device will be readily understood. The wheels D D², having been separated by turning the movable handle B², the saw to be operated upon is placed between the wheels with the teeth of the saw resting upon the upper faces of the arms H² of the gage. The gage is then vertically adjusted to the proper point by manipulating the set-screw J, after which the wheels are brought into close contact with the saw-teeth by turning the handle B², and by passing the device along the line of the saw-teeth the teeth are properly set or adjusted by a single movement.

Having thus described my invention, what I

claim to be new, and desire to secure by Letters Patent, is—

1. The combination, with the bifurcated main frame and the setting-wheels journaled one upon each side of the bifurcation, of the bifurcated gage on said shaft and adjustable in the bifurcation parallel with the axes of said wheels, substantially as described.

2. The combination, with the main frame and the setting-wheels journaled thereon, of the guides on said main frame, the gage having bifurcated shank, the arms of which work in said guides, and the adjusting-screw passed through said shank and engaging a screw-threaded hole in the main frame, substantially as described.

3. The combination, with the main frame provided with a setting-wheel, of the casting E, carrying a setting-wheel, and a casting, I², engaging said casting E and adjustable lengthwise on said frame, substantially as and for the purpose described.

4. The combination, with the main frame provided with a setting-wheel, and having squared portion, as described, and the casting

carrying the setting-wheel and having arms engaging said squared portion, and a collar having a flange, of the casting I², engaging the flange of the collar and adjustable on the frame, substantially as and for the purpose described.

5. The combination, with the main frame provided with a setting-wheel, and having squared portion *k* and screw-threaded portion *e*, of a casting having depending arms E embracing said squared portion, a collar sliding loosely on the frame and having a flange, F, a setting-wheel journaled on said casting, and a handle provided with a casting having arms *g* engaging the flange of said collar, and internally threaded to engage the threaded portion of the frame, substantially as and for the purpose described.

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

WILLIAM THOMAS SLICER.

Witnesses:

STREET BROWN,
SLATER B. TOSH.