

H. DISSTON
Saw-Set.

No. 163,162.

Patented May 11, 1875.

FIG. 1.

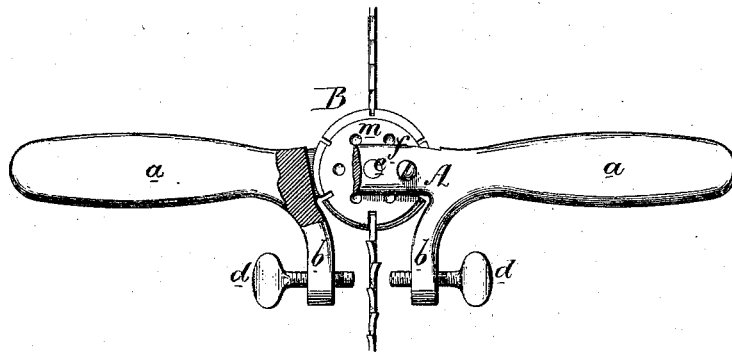


FIG. 2.

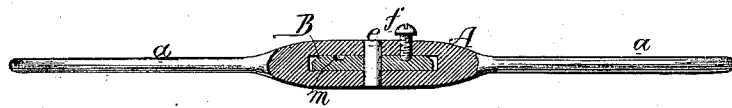
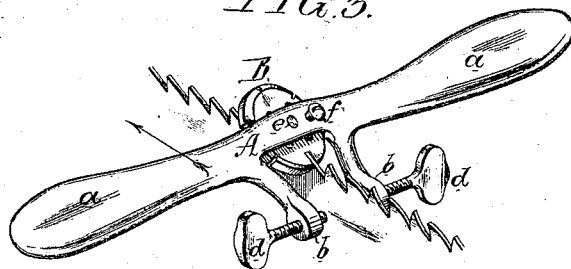


FIG. 3.



Witnesses, Hubert Houston
Thomas M. Swan

Henry Disston
by his Attys
Houston and Son

UNITED STATES PATENT OFFICE.

HENRY DISSTON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SAW-SETS.

Specification forming part of Letters Patent No. **163,162**, dated May 11, 1875; application filed November 20, 1874.

To all whom it may concern:

Be it known that I, HENRY DISSTON, of Philadelphia, Pennsylvania, have invented an Improved Saw-Set, of which the following is a specification:

The object of my invention is to construct a simple and efficient saw-set, which can be easily and accurately operated and readily adjusted to suit teeth differing in thickness, and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a front view partly in section of my improved saw-set; Fig. 2, a sectional plan; Fig. 3, a perspective view.

A is a slotted frame for receiving the steel saw-setting disk B, and on this frame and forming part thereof are two handles, *a a*, and two projections, *b b*, carrying set-screws *d*, which determine the extent of the movement of the instrument in setting the teeth of a saw. The disk B, which fits snugly, but so as to turn freely in the frame, is hung to a central pin, *e*, and has on its edge a number of slots, six, in the present instance, the slots being of different widths to suit saw-blades differing in thickness, and also being of different depths to suit teeth of different sizes. The slots are arranged at equal distances apart, as are also orifices *m*,

which are arranged in a circle, concentric with the periphery of the disk, and into any one of which can fit the point of a set-screw, *f*, the latter serving to retain the disk after it has been adjusted. The slots in the periphery of the disk, the orifices *m*, and the set-screw *f*, bear such relation to each other and to the frame of the instrument, that when the point of the set-screw fits in one of the orifices, one of the slots of the disk will be in a proper position, midway between the two projections *b b*, for operating on the saw-blade. The disk having been adjusted so that the slot best adapted to the saw-blade to be set shall be in this proper position, the operator applies the instrument to the blade in the manner shown in Fig. 3, and after setting one tooth adjusts the instrument to the next and so on.

I claim as my invention—

The within-described improved saw-set, consisting of the frame A having handles *a a*, arms *b b*, set-screws *f* and *d*, and the slotted and recessed disk B, all as set forth.

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

HENRY DISSTON.

Witnesses:

HARRY SMITH,
HUBERT HOWSON.