(No Model.)

E. ANDREWS.

SAW HANDLE.

No. 262,341. Patented Aug. 8, 1882.

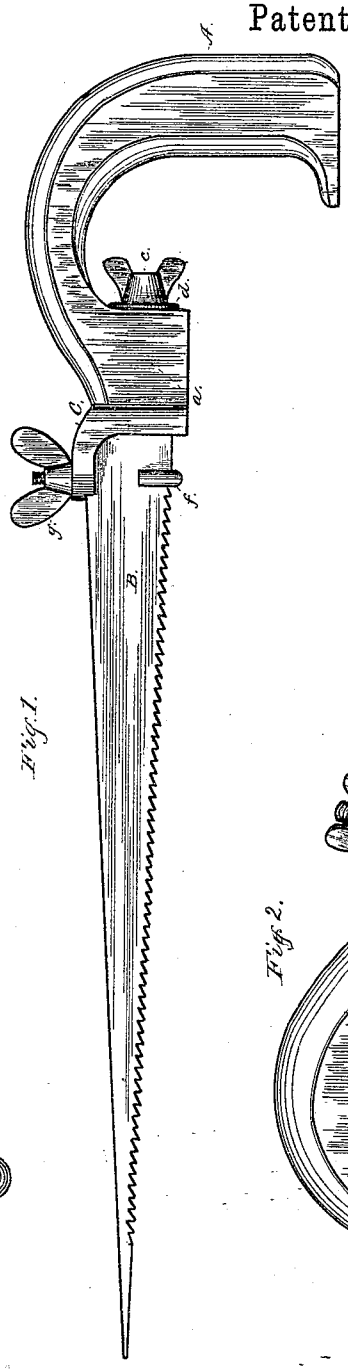


Fig. 1.

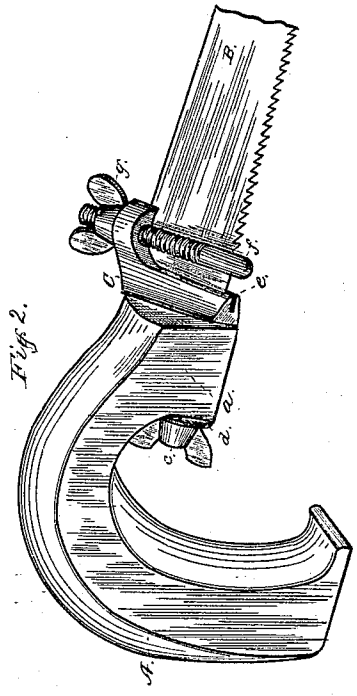


Fig. 2.

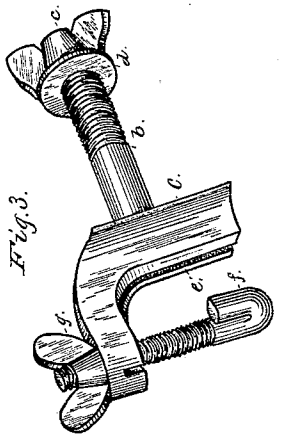


Fig. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

EMANUEL ANDREWS, OF WILLIAMSPORT, PENNSYLVANIA.

SAW-HANDLE.

SPECIFICATION forming part of Letters Patent No. 262,341, dated August 8, 1882.

Application filed April 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, EMANUEL ANDREWS, of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented a new and useful Improvement in Saws; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The object of the invention, which is to be hereinafter described and illustrated, is, first, to furnish ready, convenient, and simple means for attaching "compass," "key-hole," and other similar saws to their handles without punching, drilling, slotting, or notching the blades; second, to so construct the handles of such saws that it will be unnecessary to shape the butt of the saw-blade to any particular form; third, to so attach the blades to the handles that said blades can be easily removed from said handles when broken or otherwise rendered useless; fourth, to so attach the blades to the handles that said blades can be easily revolved and secured to said handles at any desired angle; and, fifth, to so attach the saw-blades to the handle that if on breaking the blade a serviceable portion remains that portion may be attached to the handle and used effectually.

To the accomplishment of the above the invention consists in the peculiar construction employed and in various combinations of the parts used.

In order that those skilled in the art to which it pertains may understand my invention, frequent reference will be hereinafter made to the accompanying drawings, which form part of this specification, and which represent, in—

Figure 1, a side elevation of a saw provided with the several attachments which enter into the invention herein described; Fig. 2, an elevation taken from the side opposite to that shown in Fig. 1, and showing the blade secured to the handle at an angle different from that shown in the preceding figure; and Fig. 3 a view in detail of the special devices employed to secure the handle to the saw-blade.

Like letters refer to corresponding parts throughout the several views.

In the drawings, A represents the handle of the saw and B the blade of the same, both of which parts are of the usual or any desired form. Through that portion of the handle which is marked *a* in the drawings a hole is bored, said hole being of sufficient size to allow of the passage therethrough of a screw-threaded bolt, *b*, said bolt being cast with or firmly secured to a peculiarly-shaped plate, C, the whole being held adjustably on the handle by means of the thumb-nut *c*, which is screwed, as shown, on the end of the bolt *b*.

If desired, an ordinary washer, *d*, may be placed on the bolt *b*, to prevent the nut *c* from coming in contact with the handle.

The form and construction of the plate C, above mentioned, are clearly shown in Fig. 3. It is provided on its front face with a groove or slot, *e*, into which is inserted the butt of the saw-blade. Through its upper end, which curves so as to form an outwardly-projecting arm, a hole is made through which is passed the hook-shaped bolt *f*. As shown in that figure, this bolt *f* is suitably screw-threaded, and its upper end is supplied with a thumb-nut, *g*, by means of which it is adjusted and held in place. Its lower or hooked end passes under the saw-blade when the butt of said blade is inserted into the groove *e*, before mentioned.

By the use of longer or shorter bolts, similar to the one above described, saw-blades of various sizes can be used, the size of said blades being limited only by the length of the bolt and the distance the thread is cut thereon.

The rear face of the plate C is preferably made so as to conform to that portion of the handle with which it comes in contact.

Having described the construction of my device, I will explain the manner in which it is to be used.

The plate C is first firmly secured to the handle A by passing the bolt *b* through the hole made in the part of said handle marked *a* and by screwing the nut *c* tightly against the inner face of said part *a* or against the washer *d*, if such washer is used. When this plate has been thus secured to the handle the butt of the blade B is inserted into the groove or slot *e*, made in said plate C, and the hooked end of the bolt *f*, by means of the thumb-nut *g*, is pressed against the under edge of said blade, which serves to hold it (the blade) firmly. If it is then desired to adjust the blade at another angle, the thumb-nut *c* is loosened, the plate C

turned to the position desired, and the nut *c* again tightened. Should the blade be broken or should it become desirable to use a different size or kind of blade on the same handle, the nut *g* is loosened, the saw formerly used removed, and a new one inserted, as before, the grip of the bolt *f* being shortened or lengthened to suit the size of the new blade by means of its screw-nut. When the new blade has been placed in position, as above described, the nut *g* is again tightened and the saw ready for use.

Having thus described my invention, what I claim as new therein, and that for which I desire to secure Letters Patent, is—

1. In combination with the curved handle A, having a shoulder at *a*, the plate C, provided with bolt *b*, and groove *e*, which holds the blade, and removably and adjustably secured to said handle, as and for the purpose set forth.

2. The plate C, removably and adjustably secured to the handle A, which is curved and has a shoulder, as described, in combination with hook-bolt *f* and blade B, the hook-bolt *f* passing around the blade B, and adjusted as described.

This specification signed and witnessed this 31st day of March, 1882.

EMANUEL ANDREWS.

Witnesses:

JNO. K. HAYS,

W. T. ANDREWS.