

(No Model.)

C. P. ROOD.  
SAW SHARPENING TOOL.

No. 542,282.

Patented July 9, 1895.

Fig. 1.

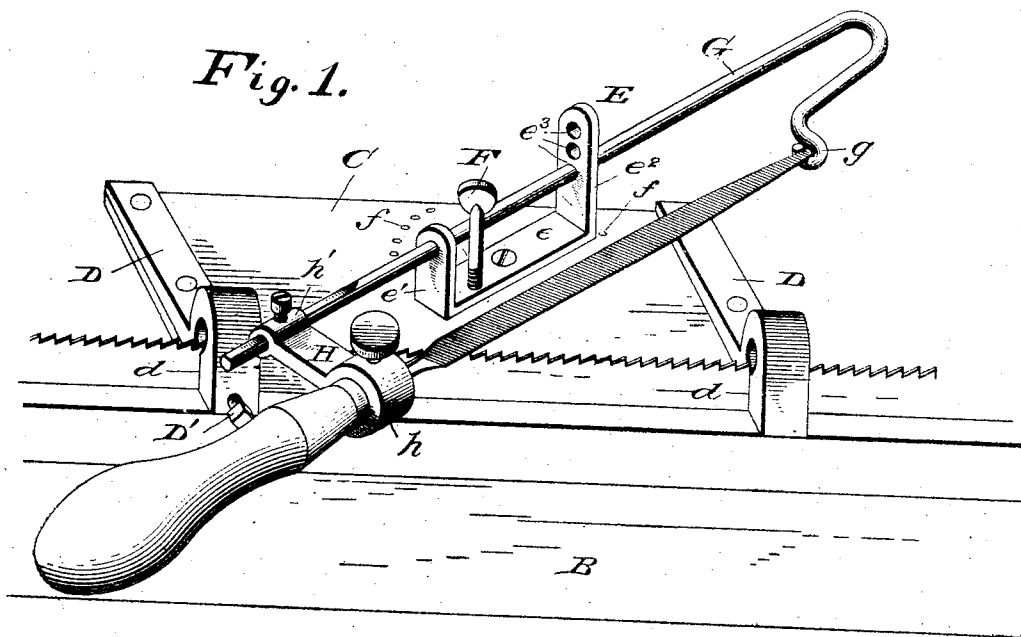
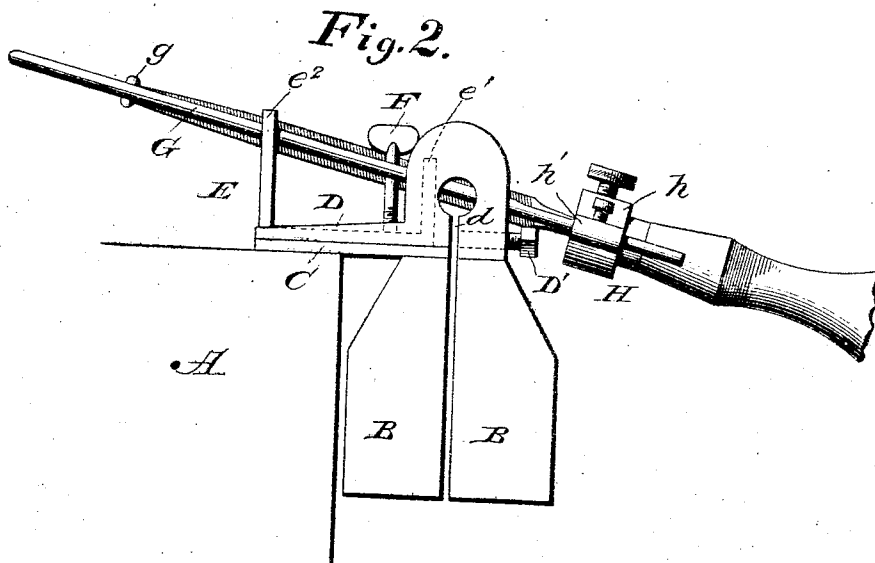


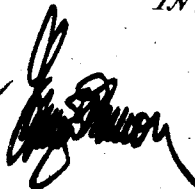
Fig. 2.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## SAW-SHARPENING TOOL.

SPECIFICATION forming part of Letters Patent No. 542,282, dated July 9, 1895.

Application filed March 28, 1895. Serial No. 543,570. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES P. ROOD, a citizen of the United States of America, residing at La Fargeville, in the county of Jefferson and State of New York, have invented certain new and useful Improvements in Saw-Sharp-  
5 Devices; and I do hereby 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 accom-  
10 panying drawings, and to letters of reference marked thereon, which form a part of this specification.

15 The object of this invention is to provide a simple, cheap, and durable saw-filing device, which is adapted to be used in combination with a saw-clamp for filing saws, so as to  
20 give the desired pitch and bevel to the teeth thereof.

In carrying out my invention I make use of a plate having blocks at each end into which the toothed edge of the saw passes, the  
25 plate having pivoted thereto an adjustable frame, in which the file-holder works, the frame being adapted to be set upon the plate, so that the desired bevel to the teeth can be  
30 secured, and the file-holder upon the frame to give the desired pitch, the parts being of simple construction.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a saw-filing device constructed in accordance with my invention,  
35 and Fig. 2 is an end elevation.

A designates an ordinary work bench or table, and B the usual saw-clamp.

40 C designates a plate of suitable material, which forms the bed of my improved saw-filing device, and to the ends of this plate are riveted or otherwise secured blocks D, which are provided with a slot *d* on a line with the front edge of the bed-plate C, the upper ends of the slots being preferably enlarged to provide apertures, as shown. The blocks are not  
45 only adapted to hold the bed-plate in engagement with the saw, but also reinforce the plate against bending. One of the blocks is provided with a threaded aperture for the reception of a set-screw D', which is adapted  
50 to bear against the side of the saw below the

teeth thereof to hold the filing device in engagement therewith.

At about the center of the bed-plate C is pivotally attached a frame E, consisting of a  
55 base *e* and upwardly-projecting members *e'* and *e''*. The base is provided with a threaded aperture with which engages a thumb-screw F, the set-screw being to one side of the pivot of the frame, and when turned contacts with  
60 the bed-plate, so as to force the other side of the frame against the bed-plate and thus hold said frame securely in any position it may be set to adjust the pitch of the file. The bed-plate is also provided with gage-marks or in-  
65 dentations *f* on each side of the center of the frame E, by means of which the proper adjustment can be given to the frame. The longer arm *e''* of the frame is provided with a vertical series of apertures *e'''*, and the  
70 shorter arm *e'* has but a single aperture, which is preferably on a horizontal line with the lower aperture in the arm *e''*.

G designates a bar, one end of which is bent to form a loop, the terminal portion be-  
75 ing formed into an eye *g*, and the other end of the bar is flattened to receive a clamp H, having two sockets *h* and *h'*, both of which are provided with a set-screw. The larger socket *h* is of sufficient size to receive the  
80 ferruled end of a file-handle, while the socket *h'* is adapted to fit over the ends of the bar G.

In practice the saw to be filed or sharpened is secured between the usual wooden bars or  
85 saw-clamp B, which is preferably held by the jaw of a vise against a table. The blocks of the bed-plate C are then placed over the saw, so that the teeth will lie in the apertures in said blocks, and the bed-plate is held in en-  
90 gagement with the saw by means of the set-screw D', the bed-plate resting upon the table. The bar G is then passed through the desired apertures in the upwardly-projecting members of the frame E, and said frame is adjusted on the bed-plate so that the file will  
95 be held to give the proper bevel and pitch to the teeth of the saw, the teeth being cut by reciprocating the file, it being obvious that the file being guided by the frame the position of the same can be adjusted to the proper  
100 angle.

The device hereinbefore described is sim-

ple in construction, can be cheaply manufactured, and insures the proper filing of the teeth of the saw, and after one tooth has been filed the device is moved forward to operate on the teeth following.

I am aware that prior to my invention it has been proposed to provide a saw-filing device in which a file was held and suitably guided; the means employed for guiding the file being adjustable, and I do not claim such construction, broadly; but

What I claim as new, and desire to secure by Letters Patent, is—

1. In a saw-filing device, the combination, of a bed-plate having blocks attached to the ends thereof which are adapted to engage with the saw-blade, a set-screw passing through one of said blocks to impinge against the saw-blade, a frame pivoted to the bed-plate and having upwardly-projecting members one of the members having a vertical series of apertures and the other a single one, and means for holding the frame upon the bed-plate; together with a bar one end of which is looped and formed into an eye and the other end flattened, and a clamp having sockets into which pass the end of the bar

and handle of a file, the point of the file engaging the eye formed on the other end of the bar, substantially as shown and for the purpose set forth.

2. In a saw-filing device, the combination, of a bed-plate having blocks for reinforcing the same, said blocks being provided with slots to receive the saw-blade, a frame having a base and upwardly-projecting members of different lengths, the shorter member having a single aperture and the longer member a vertical series of apertures, means for adjusting the frame upon the bed-plate and retaining it fixedly thereon, together with a bar adapted to engage with the frame one end of the bar being formed to receive the tip of the file and the other being partially flattened to receive a clamp, said clamp being adapted to also engage the ferruled end of the file-handle, substantially as shown.

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

CHARLES P. ROOD.

Witnesses:

GEO. D. AUGSBERG,  
B. W. DICKINSON.