R. MILLER, JR.

METHOD OF SECURING A SAW BLADE CLAMP TO A SAW FRAME.

APPLICATION FILED OCT. 30, 1912.

1,067,362. Patented July 15, 1913.

FIG. 1.

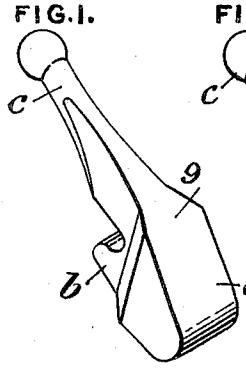


FIG. 2.

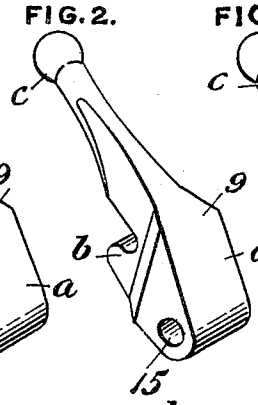


FIG. 3.

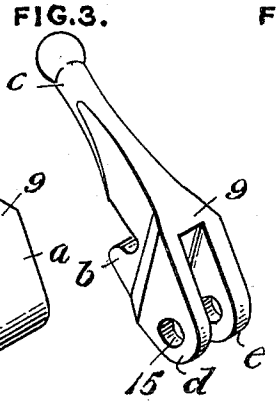


FIG. 4.

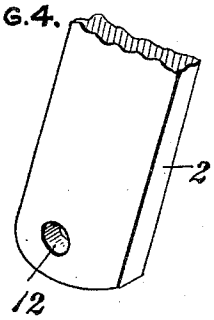


FIG. 5.

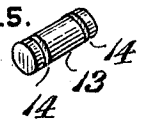


FIG. 6.

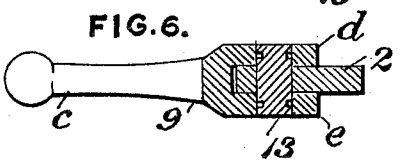


FIG. 9.

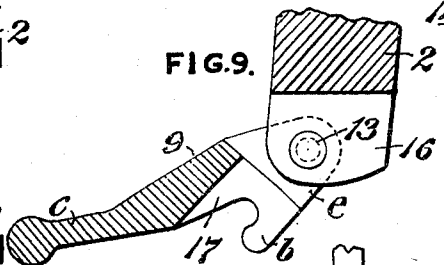


FIG. 10.

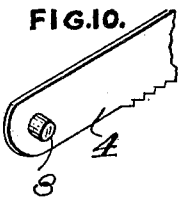


FIG. 7.

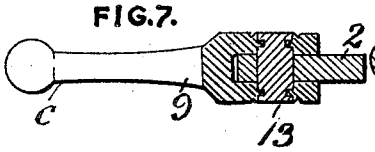


FIG. 12.

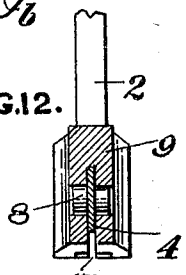


FIG. 8.

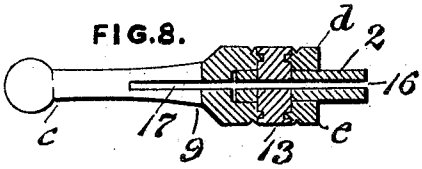
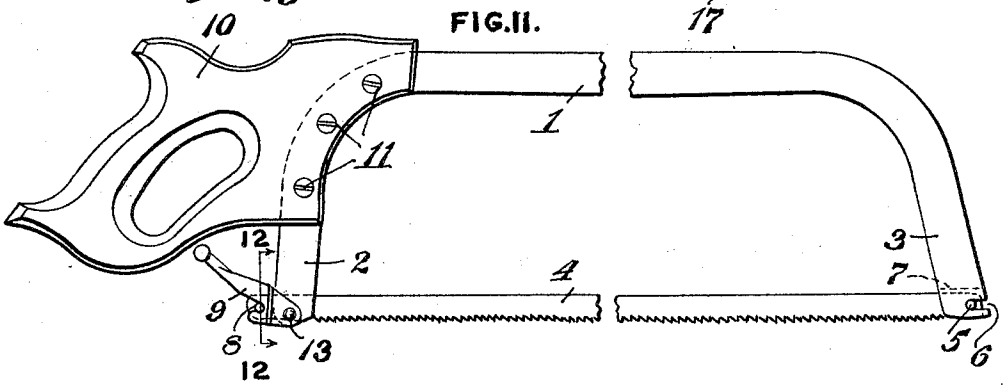


FIG. 11.



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REUBEN MILLER, JR., OF PITTSBURGH, PENNSYLVANIA.

METHOD OF SECURING A SAW-BLADE CLAMP TO A SAW-FRAME.

1,067,362. Specification of Letters Patent. Patented July 15, 1913.

Application filed October 30, 1912. Serial No. 728,650.

To all whom it may concern:

Be it known that I, REUBEN MILLER, Jr., of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Methods of Securing a Saw-Blade Clamp to a Saw-Frame, of which the following is a specification.

The prime object of the present invention is to provide a new and improved method of forming and securing a detachable saw-blade clasp, clamp, or locking member to a saw frame.

In the accompanying drawing, which illustrates my invention, Figures 1, 2 and 3 are perspective views of the detachable saw-blade clamp or attaching member in different stages of construction; Fig. 4, a detail view of a portion of the heel of the saw-frame; Fig. 5, a perspective view of a rivet employed in securing the parts; Figs. 6, 7 and 8, detail sectional views showing different steps pursued in securing the clasp to the heel-frame; Fig. 9, a sectional view through a portion of the heel-frame showing the saw-blade clamp in position thereon; Fig. 10, a detail view of one end of a detachable saw-blade; Fig. 11, a side elevational view of a saw with the parts assembled; and Fig. 12, a vertical sectional view, the section being taken on line XII—XII of Fig. 11.

Referring to the drawing, 1 designates a saw-frame having a heel portion 2 and a forward depending portion 3, and 4 a detachable saw-blade adapted to be secured to the frame. The saw-blade, as illustrated, is provided with a pin 5 adapted to be entered in a horizontally extending slot 6 of the forward portion of the saw-frame. The portion 3 of the frame, in addition to being provided with the horizontally extending slot, is formed with a vertically extending slot 7 adapted to receive the front end of the saw-blade.

The rear end of the saw-blade is provided with a pin 8 adapted to engage a clasp or a saw-blade attaching member 9, all as more fully hereinafter described. The saw-frame is provided with a handle 10 secured thereto by means of screws 11, and the heel portion of the frame is formed with a hole 12 into which a rivet 13 is entered in my improved method of securing the saw-blade clamp to the frame. Rivet 13 is of peculiar construction, as illustrated and as preferred, it is formed near its respective ends with a groove or channel 14, the purpose of said grooves being to receive a certain portion or portions of the metal from the attaching member 9.

In the manufacture of the saw-blade clasp or attaching member 9, I preferably forge the metal into the form shown by Fig. 1. As illustrated, this attaching member, when forged, comprises a head *a*, a rearwardly extending engaging lug *b*, and a handle portion *c*. This forged piece of the form of Fig. 1 is then drilled to form a laterally extending aperture 15, and after being drilled to form said aperture 15, the head is milled out to form two wings *d* and *e*.

The next step in the operation of forming and securing the detachable saw-blade clamp or holder to the saw-frame is to place the bifurcated end of the member 9 on the end of the heel portion of the saw-frame having the opening 15 of member 9 registering with the opening 12 of the heel-frame. While in this position, the rivet 13 is inserted therein, and the metal of the wings pressed in such a manner as to cause portions of the metal to flow into the respective grooves of the rivet and to assume the positions clearly shown by Fig. 7. Attention is called to the fact that this method of riveting, that is to say, having a portion or portions of the inclosing metal forced or pressed into the rivet, is just the opposite from the usual method of riveting.

The parts being assembled, as above described, and as particularly shown by Fig. 7, I produce by sawing and at one operation, a slit 16 in the lower end of the heel frame, a cut in the rivet 11, as well as a slit 17 in the rearwardly extending engaging member and in the handle portion of the attaching member. After this operation, the connected parts just described present the appearance as shown by Fig. 8.

The detachable saw-blade 4 is readily placed in position in the saw-frame by inserting its forward end in the slotted forward portion of the frame with its pin entered in the horizontal slot thereof, after which the rear end of the saw-blade is placed in the slot of member 9 with the pin 8 in engagement with the engaging member *b* thereof, and said pivoted member 9 is forced upwardly under the handle.

What I claim is:—

1. The method of securing a saw-blade clamp to a saw-frame, which consists in applying the clamp to a heel of the saw-frame, placing a grooved rivet in the clamp and frame-heel and pressing a portion of the metal of the clamp into the groove of the rivet, and while assembled, slitting the frame-heel and cutting the rivet.

2. The method of securing a detachable saw-blade clamp to a saw-frame, which consists in applying the clamp to a heel of the saw-frame, placing a grooved rivet in the clamp and frame-heel and pressing a portion of the metal of the clamp into the groove of the rivet, and while assembled, slitting the frame-heel, cutting the rivet, and slitting the clamp.

3. The method of securing a detachable saw-blade clamp or attaching member to a saw-frame, which consists in forming apertured wings on the clamp, applying said wings to an apertured heel of the saw-frame, placing a grooved rivet in the holes of the wings and the frame-heel and causing the metal of the wings to enter the grooves of the rivet and while thus assembled, slitting the frame-heel, cutting the rivet, and slitting the clamp at a single operation.

4. The method of securing a detachable saw-blade clamp to a saw-frame, which consists in applying the clamp to a heel of the saw-frame and placing a pin in the clamp and frame heel, and while assembled, slitting the frame heel and cutting the pin.

5. The method of securing a detachable saw-blade clamp to a saw-frame, which consists in applying the clamp to a heel of the saw-frame, placing a pin in the clamp and frame heel, and while assembled, slitting the frame heel, cutting the pin, and slitting the clamp.

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

REUBEN MILLER, JR.

Witnesses:
D. E. MITCHELL,
G. C. KIMBALL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."