

E. DAGENAIS.
 SAW HOLDER OR THE LIKE.
 APPLICATION FILED OCT. 18, 1909.

1,043,405.

Patented Nov. 5, 1912.

2 SHEETS—SHEET 1.

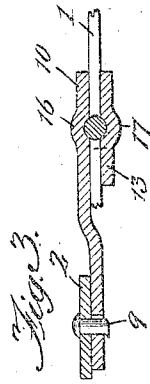
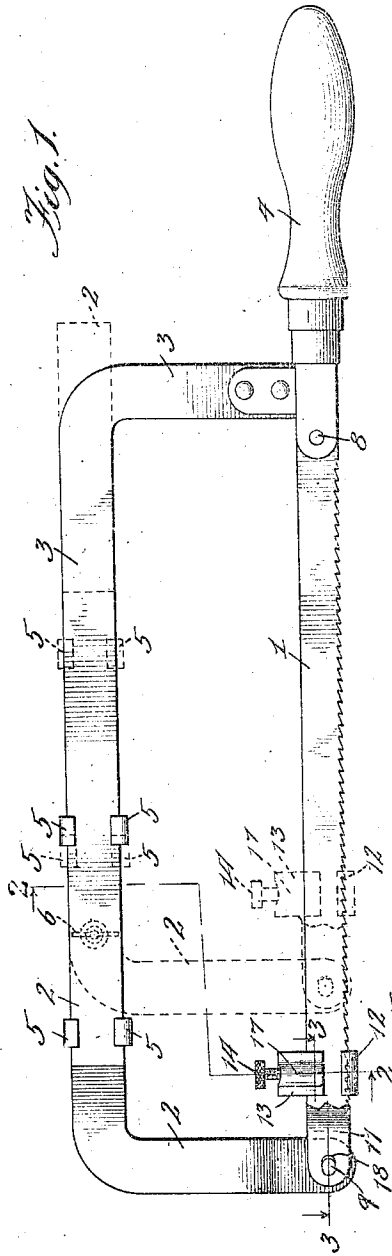
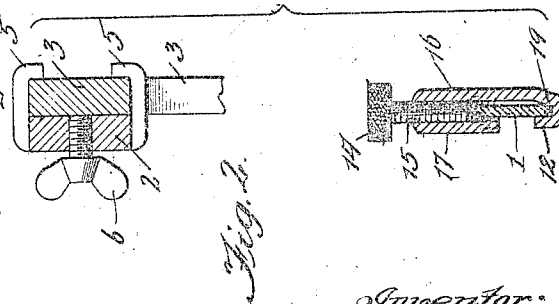
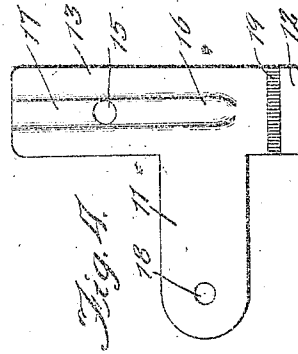
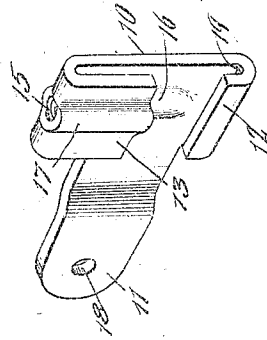


Fig. 5.



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2 SHEETS—SHEET 2.

Fig. 6.

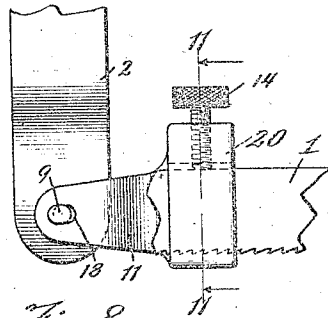


Fig. 7.

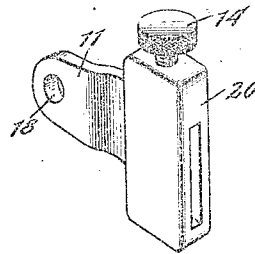


Fig. 8.

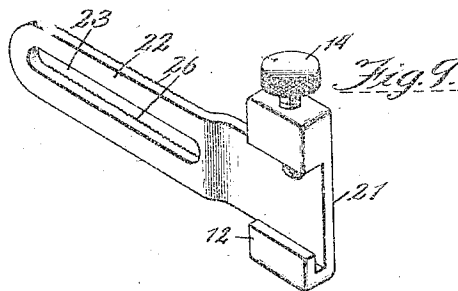
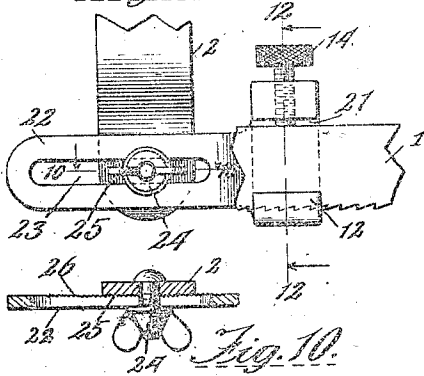


Fig. 11.

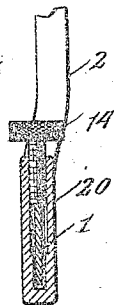
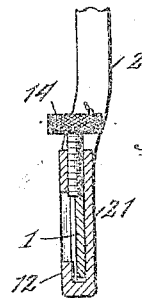


Fig. 12.



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UNITED STATES PATENT OFFICE.

ELIE DAGENAIS, OF CHICAGO, ILLINOIS.

SAW-HOLDER OR THE LIKE.

1,043,405.

Specification of Letters Patent.

Patented Nov. 5, 1912.

Application filed October 18, 1909. Serial No. 523,294.

To all whom it may concern:

Be it known that I, ELIE DAGENAIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Saw-Holders or the Like, of which the following is a description.

My invention belongs to that class of devices known as saw holders or the like and particularly relates to a device for holding hack or similar saws particularly after they have been broken.

By the use of my device it is possible to use a saw after it has been broken perhaps a number of times, and the invention has among its objects the production of a simple, convenient, inexpensive, efficient and satisfactory device of the kind described for use wherever found applicable.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings wherein like reference characters indicate like or corresponding parts, Figure 1 is a side elevation of my preferred form of device, as applied to a broken hack saw blade. Fig. 2 is a cross sectional view taken substantially on line 2—2 of Fig. 1. Fig. 3 is a sectional view taken substantially on line 3—3 of Fig. 1. Fig. 4 is a view of a holder blank. Fig. 5 is a perspective view of the formed holder. Fig. 6 is a side elevation of a cast holder. Fig. 7 is a perspective view of the same. Fig. 8 is a side elevation of a modified form of cast holder. Fig. 9 is a perspective view of the same. Fig. 10 is a sectional view taken substantially on line 10—10 of Fig. 8. Fig. 11 is a sectional view taken substantially on line 11—11 of Fig. 6, and Fig. 12 is a sectional view taken substantially on line 12—12 of Fig. 8.

Referring to the drawings in which the preferred form of device is shown, 1 represents the hack saw blade which in this case is shown broken at one end. In the drawing an adjustable saw frame made up of parts 2 and 3 and provided with a suitable handle 4 is shown, the parts being provided with suitable lugs and a thumb screw 6 arranged to pass through the hole 7, or with any equivalent means, arranged to lock the parts of the frame in the desired position

relative to each other. In the construction shown the saw is normally secured to the frame by suitable pins 8 and 9 engaging the saw in suitable holes provided in the saw blade. Any equivalent construction may be employed. In the drawing one end of the saw, the end that would normally engage the pin 9, is shown broken off and my device arranged in operative position connecting the broken end of the saw to the pin 9.

In the form shown in Figs. 1 to 5, my device comprises a part for engaging the broken saw end and the pin 9, which device is preferably made of metal bent or formed to the desired shape. The same will be clearly understood by referring to Fig. 5 in which the formed holder is shown consisting of the body part 10 provided with an extension 11. The body part is preferably bent as shown at 12 and at 13 so that the saw blade when inserted between the extensions or bent parts 12 and 13 and the body part will be prevented from moving transversely or falling over. Any suitable means may be employed for maintaining the two parts against separation, a suitable screw 14 being shown for the purpose. The body part and extension 13 are preferably offset as at 16 and 17, a suitable hole 15 being provided so that the full thickness of metal is present after the extension 13 is bent into position and the parts tapped for the screw 14. It will thus be seen that the device is not weakened by cutting the threads. The metal blank may be punched out and formed into the finished product in any suitable or preferred manner. In operation the saw blade is inserted as shown and the screw 14 tightened firmly, locking the saw in the holder, the holder being then connected to the frame in the preferred manner, as shown by providing a suitable hole 18 in the extension 11, so that the same may be hooked or positioned on the pin 9. I also preferably roughen the bottom of the holder either before or after the device is fully formed so that the saw teeth will be engaged and the saw blade held more firmly held. As is obvious, by adjusting the frame the saw blade can be used even after it has been broken several times, the same being held as firmly as before it was broken. It will of course be readily understood that any style of saw frame may be used. In the drawings I show both the saw frame and the extended part 11 of the holder

slightly offset to bring the saw in alinement with the frame. This is a matter of preference, however, as either part alone, or both, may be offset, depending upon the particular saw frame with which the device is used and the means of attachment of the holder to the same. The device not only permits the use of blades after they have been broken, thereby being very economical, but also often saves a trip to the shop for new blades if no unbroken ones are on hand.

In the forms shown in Figs. 6, 7 and 11, the holder is substantially the same except that the body part 20 is made of cast metal, or milled, instead of being formed as in the preferred construction.

In the form shown in Figs. 8, 9, 10 and 12 the body part 21 and the extension 22 are made substantially similar to the forms shown in Figs. 6, 7 and 11, that is, cast, but in this form I provide a suitable slot 23 in the extension 22 so that the adjustable frame is not necessary, nor are a plurality of holders with different lengths of extensions. In this form the holder may be secured to the frame part by means of a suitable thumb screw 24 or its equivalent for the purpose, and if desired, the frame part or the extension, or both, may be roughened as at 25 and 26, so that there is no tendency for the holder to rock about the pin or thumb screw 24 or otherwise work loose. As before mentioned, any style of frame may be employed and any suitable means provided for securing the holder to the frame, or that, as is obvious, the frame and holder might be made integral. The holder may be used for either end of the saw blade, or a holder may be provided for each end.

Having thus described my invention it is obvious that various immaterial modifications may be made in the form, arrangement,

combination of parts shown or described or that the same may be used wherever found applicable, hence I do not wish to be understood as limiting myself to the exact form, arrangement, combination of parts or uses shown, described or mentioned.

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

1. A supplemental saw end holding device for hack saw frames, comprising a metal plate provided with laterally projecting flanges at the upper and lower edges thereof, bent substantially parallel to the body of the plate to fit over the edges of the hack saw blade, said plate and upper flange outwardly offset and threaded thereat on the interior faces thereof, and a retaining member having a threaded engagement with the plate and bent portion thereof at said offsets and extended through the top flange in the plane of the saw blade, said plate provided with an extended part for attachment to the hack saw frame.

2. A supplemental saw-end holding device for hand saw frames comprising a metal plate having means at one end to engage one end of the saw frame and having at the other end laterally projecting flanges folded back to fit over the edges of a saw blade and having means to clamp the blade in the plane thereof, the said plate being offset between its ends to bring the saw blade engaging space into the same plane in which it would lie if directly engaged with the saw frame.

In testimony whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

ELIE DAGENAIS.

Witnesses:

ROY W. HILL,
CHARLES I. COBB.