Feb. 3, 1953 R. M. PARR 2,627,191

CHAIN SAW JIG

Filed June 8, 1951

Fig. 1

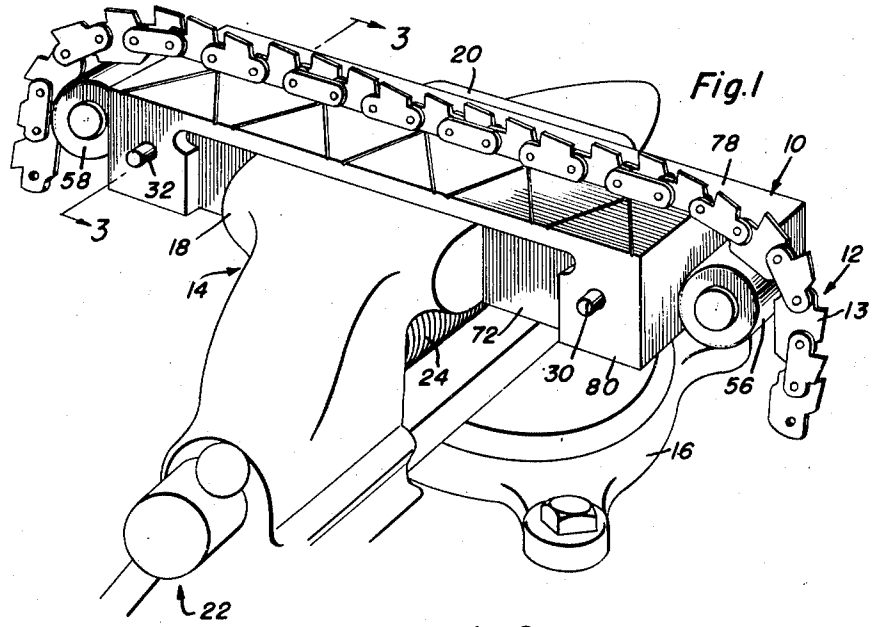


Fig. 2

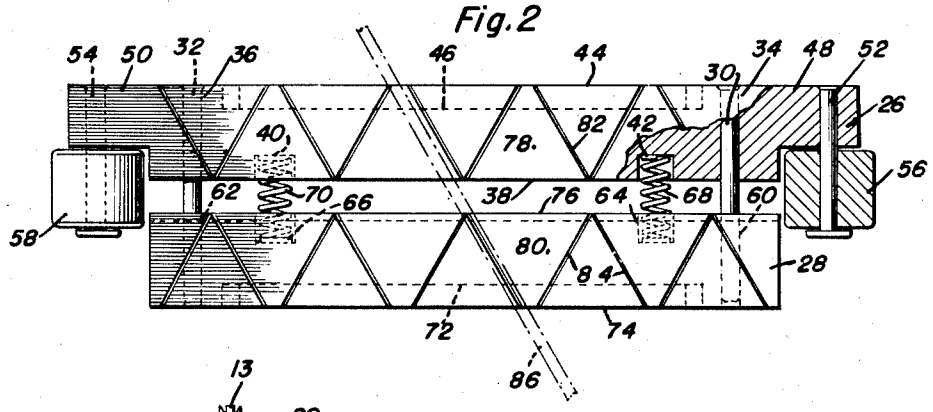
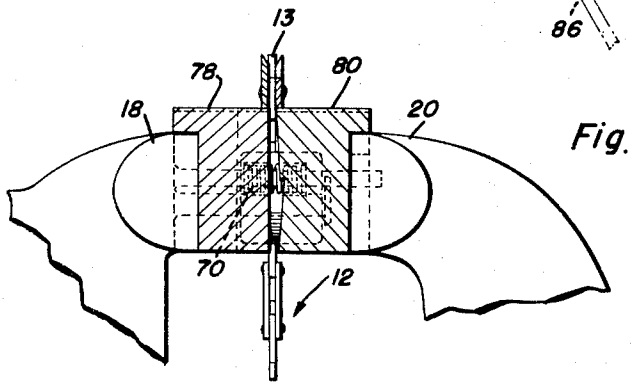


Fig. 3



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CHAIN SAW JIG

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2 Claims. (Cl. 76—78)

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The present invention relates to improvements in jigs and more particularly to a jig which is adapted to clampingly hold a chain for filing whereby the chain can be reconditioned.

An object of the present invention is to provide a chain jig which is comprised of a pair of elongated members of substantially rectangular cross-section which are cooperable for lateral movement relative to each other, each of the members being formed with a recess on its outer face for receiving the jaws of a conventional vise whereby the two members can be forced together by the vise for clampingly holding the chain.

Another object of the present invention resides in the provision of guide marks or grooves on the upper surfaces of the pair of members whereby filing of the links of the chain can be more readily effected.

Still another object of the present invention resides in the provision of rollers rotatably carried by the ends of one of the members whereby the chain can be engaged thereover for clamping engagement by the pair of members.

A further object of the present invention resides in the provision of a pair of springs for resiliently urging the members apart whereby when the vise is actuated to move the jaws relatively apart, a pair of members will be resiliently urged apart by the springs.

Various other objects and advantages will become apparent from the detailed description to follow. The best form in which I have contemplated applying my invention is clearly illustrated in the accompanying drawings, wherein:

Figure 1 is a perspective view of the entire chain jig shown mounted on a conventional vise with a chain clamped between the members of the jig;

Figure 2 is a top plan view of a chain jig, parts being in section; and

Figure 3 is a vertical transverse sectional view taken substantially along the plane of line 3—3 of Figure 1.

Referring more particularly to the drawings, wherein like numerals designate like parts throughout, the numeral 10 designates generally the chain jig of the present invention which is adapted to clampingly hold the chain 12 for filing the same, whereby the chain can be reconditioned. The numeral 14 designates generally a conventional vise which includes a base 16, a pair of jaws 18 and 20, an operating handle means 22 and a screw 24 whereby the jaws 18 and 20 can be relatively moved.

The chain jig 10 is comprised of first and

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second elongated members 26 and 28, respectively, of substantially rectangular cross-section, the first member 26 being relatively longer than the second member 28. The first member 26 has a pair of pins 30 and 32 fixedly received within transverse bores 34 and 36, portions of the pins 30 and 32 extending from the inner face 38 of the first member 26. The first member 26 is also formed with a pair of cylindrical recesses 40 and 42 which open at the face 38. The outer face 44 of the first member 26 is formed with an elongated recess 46 which is adapted to receive one of the jaws of the vise 14.

The portions of the first member 26 which extend beyond the ends of the second member 28, are of reduced cross-sectional area. These portions 48 and 50 have pins 52 and 54 fixedly carried thereby and laterally extending therefrom for rotatably supporting the rollers 56 and 58.

The second member 28 has a pair of bores 60 and 62 which are axially aligned with the bores 34 and 36 for slidably receiving the pins 30 and 32. The second member 28 is also formed with a pair of cylindrical recesses 64 and 66 which are axially aligned with the recesses 42 and 40. Springs 68 and 70 have their ends disposed in the cylindrical recesses for normally urging the first and second members 26 and 28 apart. The second member is formed with an elongated recess similar to the recess 46, in the outer face 74 whereby one of the jaws of the vise 14 can be received therein.

Both of the members 26 and 28 have their upper surfaces 78 and 80 formed with grooves or guide marks 82 and 84 whereby a file 86, shown in dotted lines, can be guided for filing the links of the chain 12.

In view of the foregoing description, taken in conjunction with the drawings, it is believed that one skilled in the art will readily understand the manner in which the chain jig can be employed for reconditioning a chain.

The chain jig 10 is disposed on a conventional vise 14 with the jaws 18 and 20 of the vise received in the recesses 72 and 46 of the second and first members 28 and 26, respectively. The springs 68 resiliently urge the members apart for engagement with the jaws of the vise 12. The chain 12 to be reconditioned is disposed over the jig with portions of the chain received between the faces 38 and 76 of the first and second members. The vise is then actuated by the handle means 22 so that the jaws move toward each other thereby effecting clamping of the chain 12

between the members 26 and 28. The file 86 can then be employed for filing the links 13 of the chain.

After a section of the chain 12 has been reconditioned, the jaws of the vise are relaxed and the members 26 and 28 will be urged apart by the springs 68 and 70. The chain 12 is then moved longitudinally of the jig by engagement over the rollers 56 and 58, whereupon the chain can be clamped as hereinabove described for further filing.

Having described the invention, what is claimed as new is:

1. A chain jig intended for mounting in a vise, said chain jig including first and second elongated members of substantially rectangular cross-section, said first and second elongated members being juxtaposed and so maintained by pins carried by said first elongated member and received in bores in said second elongated member, opposed recesses in the opposed sides of said elongated members, springs mounted in said opposed recesses and urging said elongated members apart, elongated recesses in the outer sides of said elongated members for receiving jaws of a vise, said first elongated member being of a greater length than said second elongated member, said first elongated member having a recess in the inner side thereof at each end, a roller partially disposed in each of said end recesses for engaging the lower edge of a chain saw blade and permitting the free movement thereof between the elongated members.

2. A chain jig intended for mounting in a vise, said chain jig including first and second elongated members of substantially rectangular cross-section, said first and second elongated members being juxtaposed and so maintained by pins carried by said first elongated member and received in bores in said second elongated member,

opposed recesses in the opposed sides of said elongated members, springs mounted in said opposed recesses and urging said elongated members apart, elongated recesses in the outer sides of said elongated members for receiving jaws of a vise, said first elongated member being of a greater length than said second elongated member, said first elongated member having a recess in the inner side thereof at each end, a roller partially disposed in each of said end recesses for engaging the lower edge of a chain saw blade and permitting the free movement thereof between the elongated members, the upper surfaces of said elongated members being provided with diagonal grooves forming file guides.

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