J. SZAKO.

SAW FILING CLAMP.

APPLICATION FILED MAY 8, 1919.

1,342,236. **Patented June 1, 1920.**

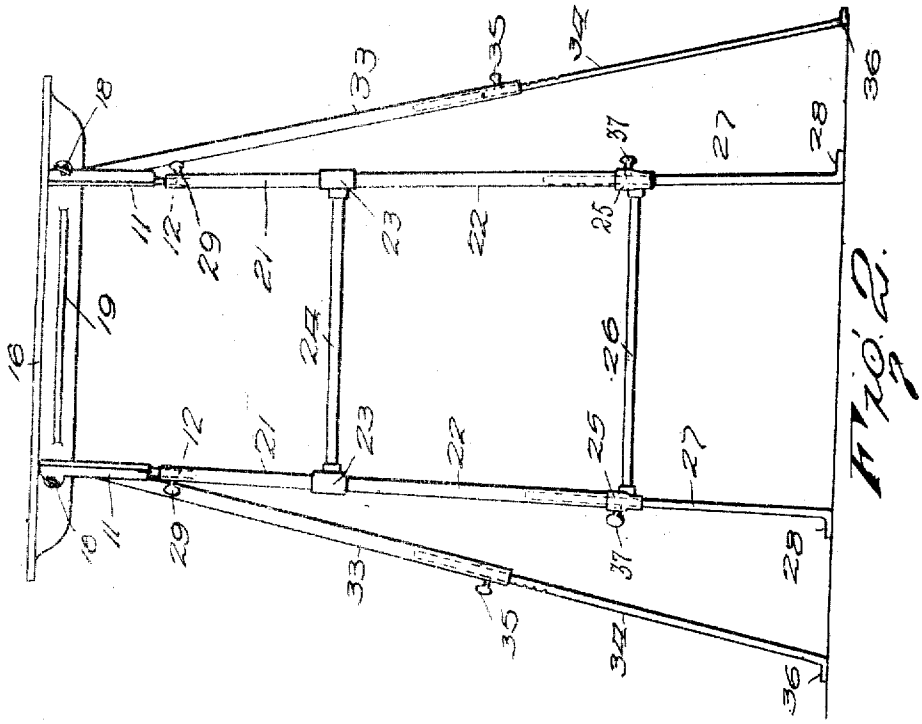


Fig. 2.

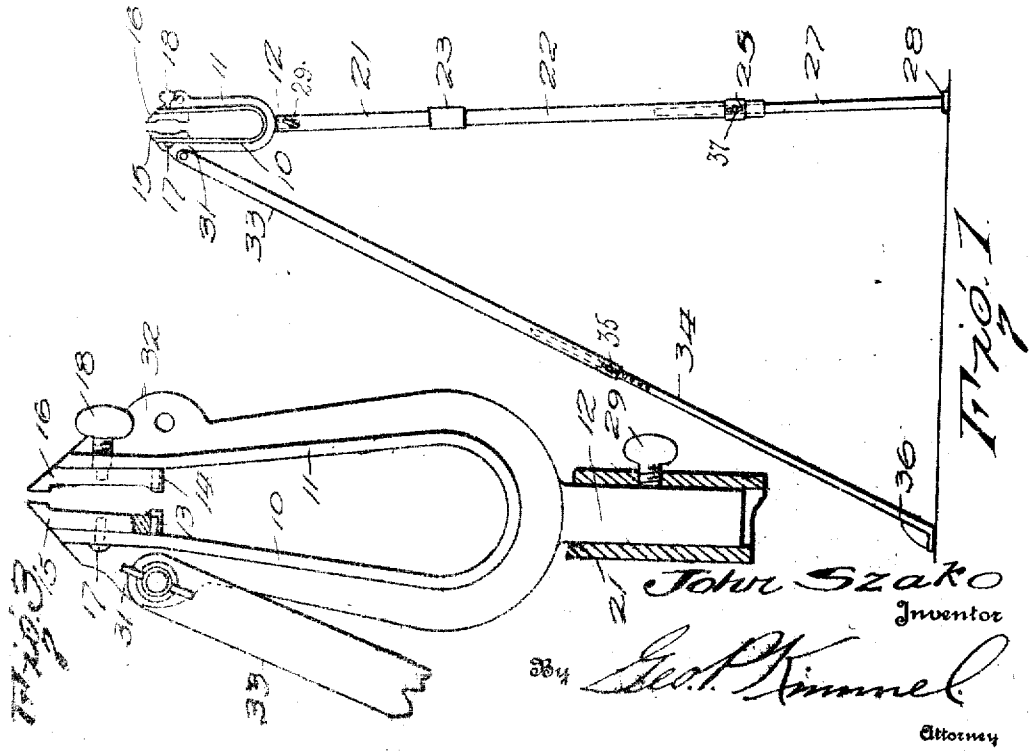


Fig. 1.

John Szako
Inventor

By Geo. P. Kimmel.
Attorney

UNITED STATES PATENT OFFICE.

JOHN SZAKO, OF MILWAUKEE, WISCONSIN.

SAW-FILING CLAMP.

1,342,236. Specification of Letters Patent. Patented June 1, 1920.

Application filed May 8, 1919. Serial No. 295,696.

To all whom it may concern:

Be it known that I, JOHN SZAKO, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Saw-Filing Clamps, of which the following is a specification.

This invention relates to saw filing clamps, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

Another object of the invention is to provide a device of this character which may be set up at any convenient point and adjusted to saws of different thicknesses, and which may be moved from place to place as required.

Another object of the invention is to provide a device of this character including a clamping device having a detachable and separable frame so that the parts can be separated and occupy less space for shipping or storage, or to place the same in a carrier or box when not in use.

With these and other objects in view the invention consists in certain novel features of construction as hereafter shown and described and then specifically pointed out in the claims, and in the drawings illustrative of the preferred embodiment of the invention.

Figure 1 is an end elevation of the improved device,

Fig. 2 is a side view of the same, and,

Fig. 3 is an enlarged detail view of the clamping portion of the improved device.

The improved device embodies two holding members, preferably in U-shape whereby spaced side members 10—11 are produced with a supporting socket 12 at the juncture of the side members. Two of the holding members will be employed and disposed in spaced relation to correspond to the length of the saw to be filed.

The side members 10—11 of the holding members are provided with inwardly directed guide devices in the form of pins 13—14. Bearing upon the inner faces of the member 10 is a clamping member 15, while a similar clamping member 16 bears against the confronting face of the member 11, the two members 15—16 forming the clamping jaws of the improved device.

The member 15 is rigidly coupled to the side portions 10 of the holding devices by suitable clamping screws or like devices represented at 17.

The clamping member 16 is adjustably connected to the side member 11 of the support by an adjusting screw represented at 18. The member 18 is so arranged that it will move the member 16 toward or away from the member 15 as may be required, thus providing a movable jaw to clamp the saw in position, as will be obvious. When the member 16 is moved the pins 14 serve to hold it in position and prevent displacement during the movement, while the members 13 of the jaw 10 hold the clamping member 15 likewise in position and prevent displacement.

The members 15—16 may be of any required length and are supported and reinforced by longitudinally directed laterally projecting ribs 19.

The supports 10—11 may be arranged in any suitable manner for use, but will preferably be employed in connection with a supporting frame formed of tubular members as illustrated in Figs. 1 and 2. The side portions of the frame are substantially the same structure and a description of one will suffice for each. Each side member is formed of a plurality of tubular sections 21 and 22 threaded at their confronting ends to engage in a T member 23, the T members of the opposite supports or standards 21—22 being coupled by a tie member 24. At their lower ends the standard members 22 are adjustable in a reducing T member 25, the lateral portions of the T members being coupled by a tie member 26 while the depending T member is arranged to receive the final supports of the sides or standards 27. At its lower end each of the members 27 is provided with an offset 28 apertured to receive a holding screw, if required. The T members 25 are also provided with set screws 37 to adjustably support the members 27.

The stud member 12 of each holding device is received in the upper ends of the members 21 and held in position by a set screw or other suitable device 29. By this arrangement the frame members may be quickly set up for use, and when not in use the parts can be readily separated and packed in small box or other suitable carrier.

The side portion 10 is provided with a perforated ear 31 while the side member 11 is

provided with an ear 32. The ears are designed to receive the upper ends of a suitable brace device, preferably formed of telescoping sections 33—34, the sections held in position by a set screw 35, and with the lower end of the member 34 offset as shown at 36 to bear upon the floor, and perforated to receive a holding screw or other device.

By this simple arrangement the device may be supported in position for the operator, and may be adjusted to any required height by simply changing the length of the brace members 33 and 34 and the members 27.

If required the socket 12 may be supported in a suitable block or in perforations in a table or bench, and the frame dispensed with. The device may thus be readily adapted to the location where used, and will be found very convenient for holding saws in position for filing. The telescoping members of the frame may be constructed of any suitable material, but will preferably be tubular and of any required strength.

Experiment has shown that the tubular members employed for casings for electric conductors are practical for the purposes of the frame, and such members may be employed if found convenient.

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

1. In a device of the class described including side portions in spaced relation and having guide devices extending from the confronting faces, coacting gripping jaws having sockets to engage said guide devices, means for rigidly coupling one of said jaws to one of said side portions and over one set of said guide devices, and means for movably coupling the other of said jaws to the other of said side portions and slidable over the other set of said guide devices.

2. In a device of the class described coacting supports each including side portions in spaced relation and each having a supporting stud, a standard detachably engaged by each of said studs, a brace device detachably coupled to each of said supports, coupling devices detachably connecting said standards, coacting gripping jaws, means for rigidly coupling one of said jaws to one of said side portions, and means for movably coupling the other of said jaws to the other side portions.

In testimony whereof, I affix my signature hereto.

JOHN SZAKO.