E. CHAINEY.

SAW SET.

APPLICATION FILED APR. 25, 1912.

1,059,347. Patented Apr. 22, 1913.

Fig. 1.

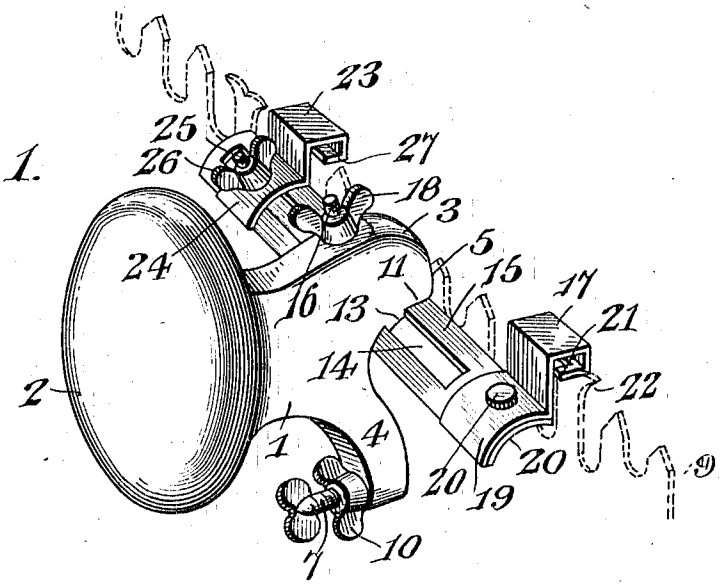



Fig. 5.

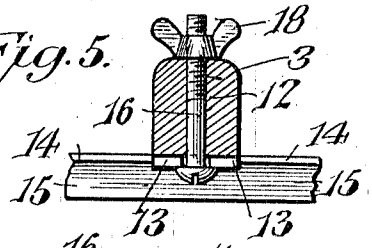



Fig. 2.

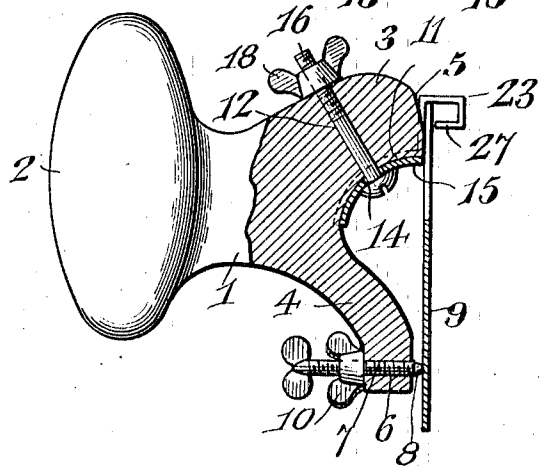



Fig. 3.

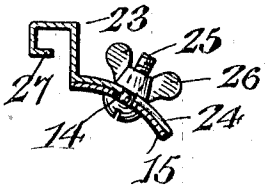
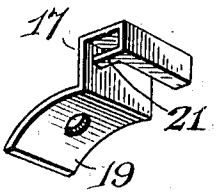



Fig. 4.




WITNESSES

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# UNITED STATES PATENT OFFICE.

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## SAW-SET.

1,059,347. Specification of Letters Patent. Patented Apr. 22, 1913.

Application filed April 25, 1912. Serial No. 693,064.

*To all whom it may concern:*

Be it known that I, EMANUEL CHAINEY, a citizen of the United States, residing at Florence, in the county of Florence and State of Wisconsin, have invented a new and useful Saw-Set, of which the following is a specification.

The invention relates to improvements in saw sets.

The object of the present invention is to improve the construction of block saw sets with which the hammer acts directly upon the teeth of the saw, and to provide a simple, efficient and practical saw set of inexpensive construction, capable of being easily and quickly adjusted to suit the character of the teeth of a saw, and adapted to be conveniently handled by the operator and to absorb the jar or shock from the blows of a hammer and thereby relieve the hand of the operator.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a perspective view of a saw set, constructed in accordance with this invention, and shown applied to a saw blade, the latter being illustrated in dotted lines. Fig. 2 is a longitudinal sectional view of the same, the saw blade being shown in full lines and the grip of the saw set in elevation. Fig. 3 is a detail sectional view, illustrating the manner of mounting the adjustable gage. Fig. 4 is a detail perspective view of the relatively fixed gage. Fig. 5 is a detail view, illustrating the arrangement of the lugs for interlocking the gage supporting plate or member with the body.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

In the accompanying drawing in which is illustrated the preferred embodiment of the invention, 1 designates the body of the saw set, constructed of suitable metal and provided at the back with a relatively large grip 2 approximately egg-shape, with the major axis of the ellipse in an upright position and presenting a rounded convex rear face, adapted to fit the hand and having rounded side edges and which may be easily and securely grasped with the thumb and fingers of one hand. The grip forms an elongated knob, which fits the hand, and it is adapted to absorb shocks and relieve the hand of the effect of the blows of a hammer.

The body 1 is relatively narrow in advance of the grip, and it extends forwardly therefrom and is provided at the front with an upper longitudinally projecting portion or extension 3 and having a lower depending arm 4. The front face 5 of the upper forwardly projecting portion is inclined upwardly and inwardly to form an anvil, as clearly illustrated in Fig. 2 of the drawing. The depending arm 4 is provided in its lower portion with a threaded perforation 6 for the reception of an adjusting screw 7, extending through the threaded perforation 6 and having a tapered outer end 8, adapted to fit against the blade 9 of a saw below the teeth thereof. The adjusting screw is provided at its inner or rear end with a head, and it is secured in its adjustment by a lock nut 10, arranged on the inner or rear portion of the adjusting screw and engaging the rear edge of the depending arm of the body. The adjusting screw is adapted to maintain the saw set with the face of the anvil in proper position with relation to the tooth to be set, and it regulates the amount of set and enables a uniform set of the teeth of a saw to be obtained.

The forwardly projecting upper portion 3 has a concavely curved lower edge or face 11, provided at opposite sides of a central perforation 12 with alined lugs 13, adapted to project into a longitudinal slot 14 of a gage supporting plate or member 15 to prevent the latter from turning on a bolt 16, which passes through the slot 14 and through the perforation 12 for securing the gage supporting plate or member to the body of the saw set. The gage supporting plate or member is curved transversely and presents an upper convex face to the concave face or edge of the upper projecting portion of the body of the saw set, and it extends from opposite sides of the saw set and is capable of longitudinal adjustment to arrange a relatively fixed gage 17 in proper

position with relation to the anvil to suit the teeth of a saw blade, and it is secured in its adjustment by the bolt 16. The bolt 16, which is arranged at a slight inclination, is provided at its lower end with a head and is equipped at its upper end with a nut 18.

The relatively fixed gage 17 is located at one side of the saw set, and it is provided at the bottom with a shank or attaching portion 19, curved to fit the upper face of the plate or member 15 and secured to the same by a rivet 20, or other suitable fastening device. The fixed gage consists of an inner vertical portion, a horizontal top portion and a depending outer portion, which is provided with an integral inwardly extending projection 21, adapted to fit in the recess of the drag or clearing teeth 22 to enable the saw set to be quickly and accurately positioned on the saw blade. By this construction the relatively fixed gage may be easily and cheaply constructed by being stamped or otherwise formed from a piece of sheet metal.

The gage supporting plate or member is equipped at the opposite side of the saw set with an adjustable gage 23, provided with a curved shank or attaching portion 24, fitting the upper face of the plate or member 15 and adjustably secured to the same by a bolt 25, piercing the shank or attaching portion 24 and operating in the slot 14 and provided with a nut 26, arranged at the upper face of the said shank or attaching portion. The gage 23, which is adapted to rest upon the teeth of the saw blade, is of the same construction as the gage 17 with the exception that the outer depending portion is provided with a continuous flange 27, adapted to fit against the side faces of the teeth of the saw blade at the side opposite that at which the body of the saw set is arranged. The adjustment of the gage supporting plate or member 15 enables the relatively fixed gage 17 to be properly positioned with relation to the anvil, so that when the projection 21 is placed in the recess of the drag teeth, the tooth to be set will be arranged centrally of the anvil. The adjustment of the gage 23 along the gage supporting plate or member enables the former to be arranged in the desired position with relation to the anvil.

The saw set after being adjusted to fit the teeth of a saw blade and to secure the desired amount of set may be quickly and accurately applied to the same, and one or more blows of a hammer will properly set the teeth of a saw.

What is claimed is:—

1. A saw set including a body comprising a rear relatively heavy shock absorbing grip consisting of an elongated knob adapted to fit the hand, and a relatively narrow forwardly extending portion having a lower depending arm and provided with an upper longitudinal extension having a front anvil face, a gage supporting plate or member secured at an intermediate point to the lower edge of the said extension and projecting from opposite sides thereof, and gages carried by the said plate or member.

2. A saw set including a body comprising a rear relatively heavy shock absorbing grip consisting of an elongated knob adapted to fit the hand, and a relatively narrow forwardly extending portion having a lower depending arm and provided with an upper longitudinal extension having a front anvil face, said extension being also provided with a concavely curved lower edge, a transversely curved gage supporting plate or member fitting the curved face of the extension of the body and secured to the latter, and gages carried by the said plate or member.

3. A saw set including a body provided at the back with a grip and having an anvil face at the front, a gage supporting plate or member adjustably secured at an intermediate point to the body at the front thereof and extending from opposite sides of the same, a relatively fixed gage secured to the plate or member at one end thereof, and an adjustable gage mounted on the plate or member at the other end thereof.

4. A saw set including a body having a grip at the back and provided at the front with a forward extension having a front anvil face and provided at the lower edge with spaced lugs, a gage supporting plate or member fitted against the lower edge of said extension and provided with a longitudinal slot into which the said lugs project, a fastening device piercing the extension at a point between the lugs and extending through the slot of the plate or member and securing the latter to the body, a relatively fixed gage mounted on the plate or member at one side of the body, and an adjustable gage mounted on the plate or member at the opposite side of the body and having a fastening device operating in the said slot.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

EMANUEL CHAINEY.

Witnesses:
FRANK WARING,
A. M. HUBERT.

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