J. A. HODGSON.

SAW SET.

APPLICATION FILED SEPT. 17, 1909.

1,001,642.

Patented Aug. 29, 1911.

Fig. 6

Fig. 7

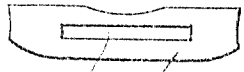
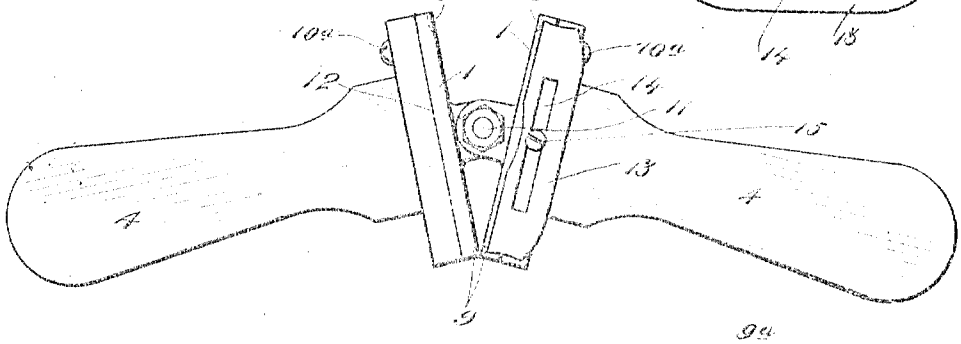


Fig. 1.



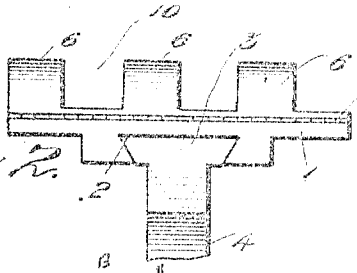


Fig. 2.

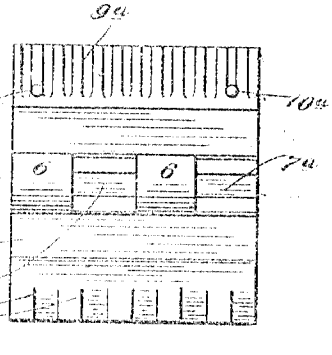


Fig. 5

Fig. 3

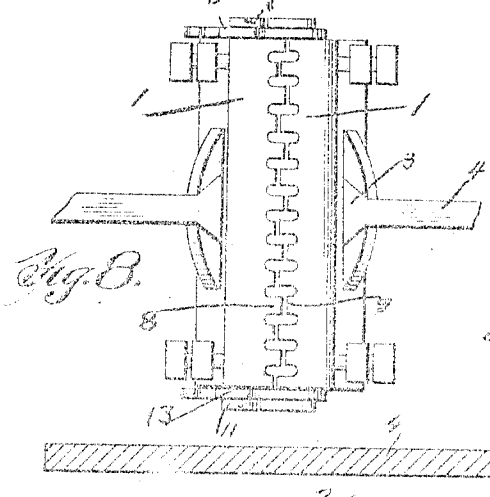


Fig. 8.

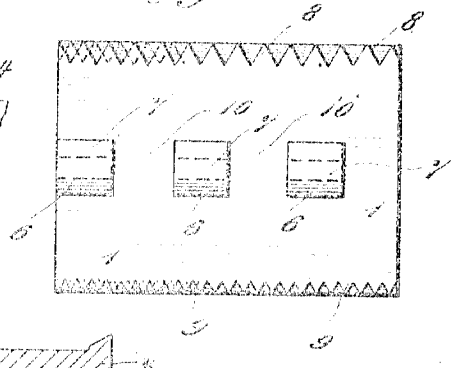


Fig. 4

Witnesses

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SAW-SET.

1,001,642. Specification of Letters Patent. **Patented Aug. 29, 1911.**

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To all whom it may concern:

Be it known that I, JOHN A. HODGSON, a citizen of the United States, residing at Long Island City, in the county of Queens and State of New York, have invented certain new and useful Improvements in Saw-Sets, of which the following is a specification.

This invention pertains to saw-sets and it has for its object, among others, to provide a simple, yet efficient and durable saw-set, portable in its nature and so constructed as to be made to occupy a minimum space so that it may be carried around from place to place without inconvenience.

Another object of the invention is to provide a simple, light, durable saw-set easily operated and capable of application to saws of different varieties and to saws having teeth of different sizes.

It has for a further object to provide a simple and efficient form of gage for regulating the depth of set of the teeth and serving further as a guide for the operator.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be particularly pointed out in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which with the numerals of reference marked thereon form a part of this specification, and in which,

Figure 1 is an edge elevation of my improved saw-set ready for use. Fig. 2 is a view at right angles to Fig. 1, showing one member only of the saw-set. Fig. 3 is a face view of one member of modified form. Fig. 4 is a substantially central longitudinal section through one of the handles. Fig. 5 is a face view of one of the plates. Fig. 6 is a face view of the detachable handle. Fig. 7 is an elevation of the adjustable gage plate removed. Fig. 8, is a top plan view of the device.

Like numerals of reference indicate like parts throughout the several views.

Referring to the drawings, 1 designates a plate having on one side a longitudinal dove-tailed recess 2 in which is designed to be engaged the dove-tailed member 3 of the handle portion 4. This forms means for detaching the handle portion 4 when desired for packing or for shipment.

The opposite face of the plate 1 is provided with a series of knuckles or the like 6, as seen clearly in Figs. 2 and 3, said knuckles having longitudinal bores as seen at 7 for a purpose which will soon be made apparent.

Each member at the longitudinal center thereof at points opposite the knuckles on the other member is provided with a halved out or cut away portion 7^a as seen clearly in Fig. 5, so as to receive one of the opposing knuckles so as to form a roller or rocker bearing therefor so as to provide ease of movement of the parts. Upon the opposite sides of the acting face of these members 1 there are tooth-like portions 8 and 9, those upon the one edge being larger than those upon the other, as seen clearly in Fig. 3, so as to adapt the set for use in connection with different sized teeth of saws. These tooth-like portions may be integral with the plates upon both sides or faces as seen in Fig. 3 or the one side 8^a may be formed integral with the plate while the other side 9^a may be formed separate from the plate 1 and secured thereto by suitable means as screws or the like 10^a, passing through openings 11^a in said integral plates; or in some instances the teeth upon both edges may be formed in separate pieces and secured to main plates similar to the detachable plates just described, and shown in Figs. 5 and 6. In this modified form the teeth upon opposite faces or edges of the plate may be of the same or of different sizes as may be found most desirable.

The set is made up of two elements such as just described, each element being the same in structure except that the knuckles of the one are so disposed as to be received within the space 10 between the knuckles of the other, and when these knuckles are alined the two members are pivotally united at their center by means of the pivot rod or bolt 11, passed through all of the bores of the knuckles as will be readily understood upon reference to Fig. 1, said rod or bolt then receiving a nut or bolt 12 to prevent its disengagement and forming also a detaching means, should such be necessary.

When assembled the parts appear as seen in Fig. 1, the saw is then placed between the adjacent faces of either the upper or lower edge of the members, according to the size of the teeth of the saw, and then by moving one of the tooth-like members by means of the handle portion or portions, the teeth of the saw will be set in a well known manner. The tooth-like members 8 and 9

of the two plates are disposed so as not to be in alinement with each other as indicated clearly by the dotted lines in Fig. 3, so that the tooth-like member of the one plate will be disposed opposite the space between the teeth of the opposing tooth-like member whereby better results are obtained in the operation of the device.

13 are gages provided with slots 14 adapted to receive set screws 15, which pass through the slot and screw into the end of the plate. By loosening these screws the gages may be raised or lowered and swung into a proper position so as to gage the depth the saw teeth may be allowed to enter the set. It will be seen that these gages act for either set of teeth.

What is claimed as new is:—

The combination with a pair of plates each provided with setting teeth at opposite edges to coact with the corresponding teeth on the other plate, said plates being pivoted together intermediate said edges with their faces opposing, and a pair of gages at the untoothed edges of one of said plates, said gages being adjustable both pivotally and longitudinally to permit them to be used with the teeth at either edge of said plates.

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

JOHN ARCHIBALD HODGSON.

Witnesses:

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