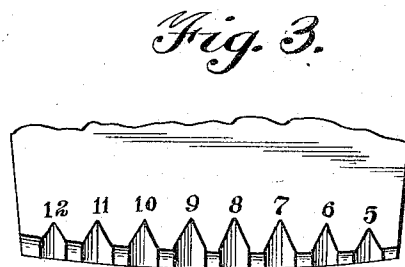
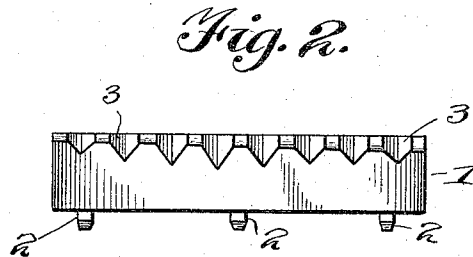
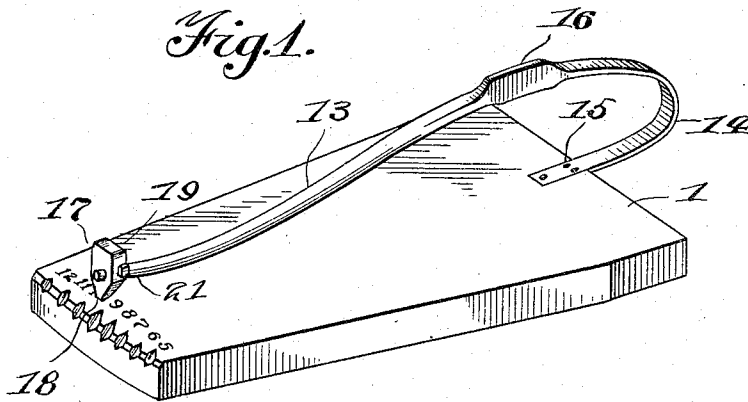


J. A. ZIMMERMAN.
SAW SET.
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1,201,908.

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Witnesses

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UNITED STATES PATENT OFFICE.

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SAW-SET.

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To all whom it may concern:

Be it known that I, JOSEPH A. ZIMMERMAN, a citizen of the United States, residing at South Bend, in the county of Pacific and State of Washington, have invented new and useful Improvements in Saw-Sets, of which the following is a specification.

This invention is an improved saw set adapted for use for setting the teeth of saws appropriately for sawing wood or timber of various kinds and also adapted for setting the teeth of hand saws, the object of the invention being to provide an improved device of this kind which is extremely simple in construction, is strong and durable, may be readily operated and by means of which the teeth of saws may be accurately set for any purpose desired.

The invention consists in the construction, combination and arrangement of devices, hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a saw set constructed and arranged in accordance with my invention. Fig. 2 is a detail front elevation of the same on a larger scale than that of Fig. 1. Fig. 3 is a detail plan on the same scale as that of Fig. 2.

In accordance with my invention I provide a setting plate or anvil 1 which is here shown as contracting in width from its inner to its outer end and is also shown as provided on its under side with supporting teeth 2 to support the same on any supporting surface such as a bench, log, or the like.

At the front end of the plate or anvil is a series of set notches, each of which presents an inclined surface 3. These set notches are of various depths and have their setting surfaces arranged at various inclinations according to the angle at which saw teeth are to be set to enable the saws to be used for sawing timber of various kinds. Any suitable number of said notches may be provided.

As here shown, the set or anvil plate is provided with eight of such notches which are respectively numbered from 5 to 12. The set notch 5 has its setting face at the right inclination and is of proper depth for setting the saw teeth for maple, the notch 6 is for beach, the notch 7 for hemlock, the notch 8

for pine, the notch 9, for fir or spruce, the notch 10 for cork or bass wood, the notch 11 for teeth of a hand saw, and the notch 12 for oak. I also provide an arm 13 which is made of spring steel and the rear end of which is reversely bent and flattened to form a U-shaped spring 14, the lower arm of which is secured in a recess on the center and at the rear end of the anvil plate 1 by means of screws 15. The spring 14 adapts the front or free end of the arm 13 for vertical movement. Said arm 13 is narrowed, vertically as at 16 to provide a spring portion which adapts the arm 13 to be moved laterally above the anvil plate. A setting element 17 is secured on the front end of the arm 13 and has a pointed lower end 18 and is provided with a broadened upper end or head 19 adapted to be struck by a hammer.

In the operation of the device, the saw is placed on the anvil plate with one of its teeth over an appropriate setting recess, according to the kind of wood, for which the saw is to be used, and by placing the point of the setting element 17 on the saw tooth and striking the head of said setting element by means of a hammer, the saw tooth will be set at exactly the required angle as will be understood. The spring portions 14, 16, of the arm 13, enables the setting element to be arranged over any desired set recess and used in connection therewith, for setting the teeth for various sizes. The said setting element may be slightly adjusted longitudinally of the arm 13, to compensate for the angular movement of said arm and is here shown as screwed by means of a suitable set screw 21.

Having described the invention, what is claimed is:

1. A saw set comprising an anvil plate provided at one side with a series of setting notches, an arm mounted on said plate and arranged for vertical and also for lateral movement and a setting element at the free end of the arm adapted to be arranged in operative relation to any one of the series of setting notches.

2. A saw set comprising an anvil plate provided at one side with a series of setting notches, an arm mounted on said plate and arranged for vertical and also for lateral movement and a setting element at the free

end of the arm adapted to be arranged in operative relation to any one of the series of setting notches, the said arm having a spring portion adapting said arm for vertical angular movement and also having a spring portion adapting said arm for lateral angular movement.

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

JOSEPH A. ZIMMERMAN.

Witnesses:

A. W. HAMMOND.

HELEN H. REESMAN.

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