

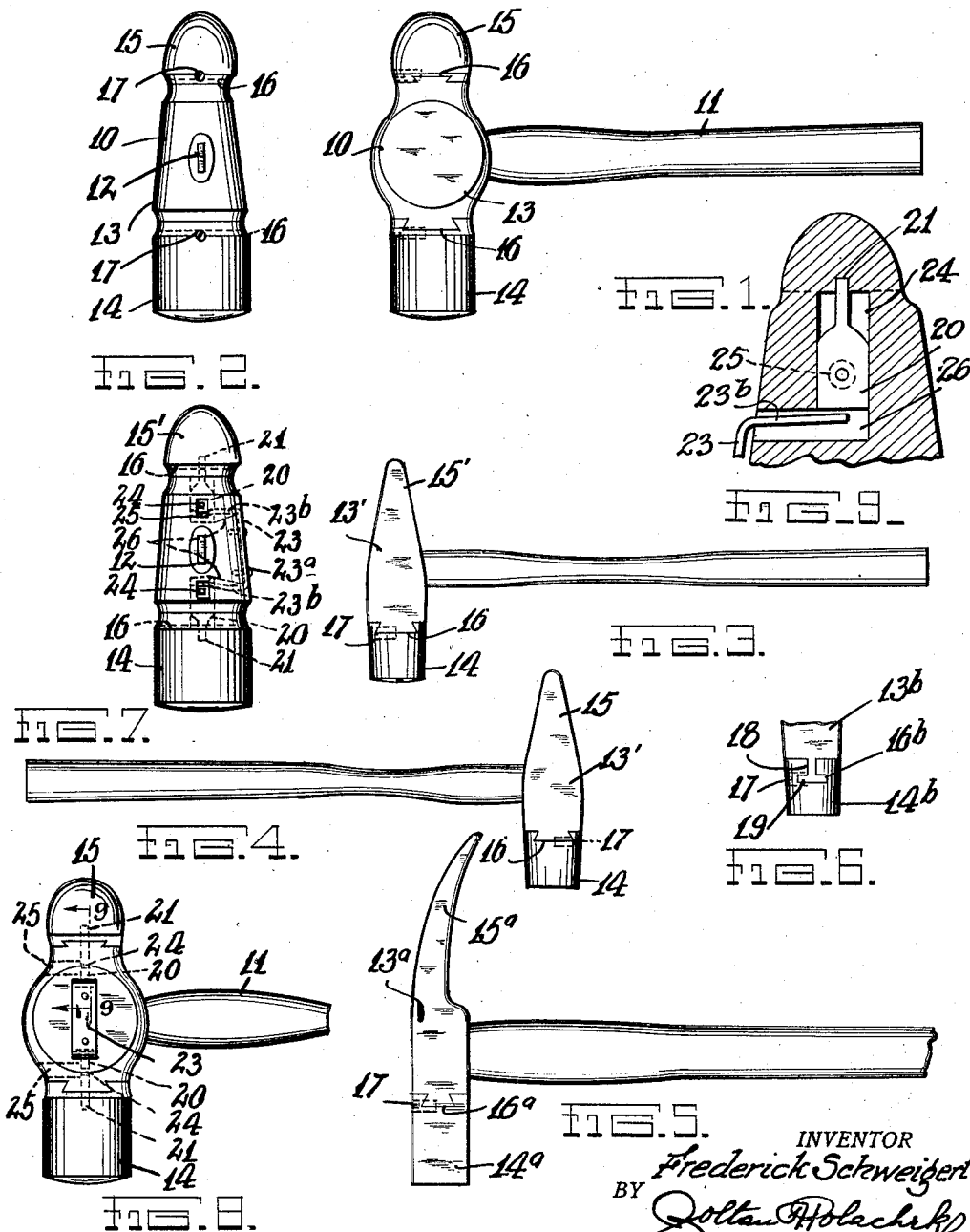
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SLEDGE HAMMER

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SLEDGE HAMMER

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This invention relates to new and useful improvements in sledge hammers.

The invention has for an object the provision of a device of the class mentioned which is of simple durable construction, dependable in use and efficient in action, and which may be manufactured and sold at a reasonable cost.

The invention proposes detachable "striking ends" for sledge hammer heads arranged to be quickly and firmly adjusted and held in place upon a hammer head so as to be exchangeable on the heads of various hammers which is of extreme advantage in that new attachments may be engaged on hammers to take the place of worn and damaged ones.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claim in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is a side elevational view of a device constructed according to this invention.

Fig. 2 is an edge elevational view of Fig. 1.

Fig. 3 is a side elevational view of a modified form of hammer constructed according to the same invention.

Fig. 4 is a rear elevational view of Fig. 3.

Fig. 5 is a fragmentary side elevational view of another modified form of hammer constructed according to the same invention.

Fig. 6 is a fragmentary side elevational view of a portion of a hammer constructed according to modified form.

Fig. 7 is a view similar to Fig. 2 but illustrating a modified form thereof.

Fig. 8 is a fragmentary side elevational view of Fig. 7.

Fig. 9 is a fragmentary enlarged sectional view taken on the line 9—9 of Fig. 8.

The reference numeral 10 indicates gen-

erally the head of a hammer provided with a handle 11 secured to the head by a spreading wedge 12 driven into the handle and spreading a portion of the handle engaged in the head. The hammer head 10 has a central portion 13, a front striking end 14 and a rear striking end 15. The front striking end 14 is of circular form in horizontal cross section and the rear striking end 15 is substantially semi-spherical in form.

The opposite ends of the central portion 13 are provided with dovetail tongues 16 engaging in dovetail grooves formed in the front and rear striking ends 14 and 15. Set screws 17 threadedly engage portions of the striking ends and portions of the tongues 16 for firmly and removably holding the striking ends upon the central portion of the head. The set screw 17 may be substituted by a rivet or the like.

In Figs. 3 and 4, a modified form of hammer has been illustrated in which the rear striking end 15' is of flat and reduced form and integral with the central portion 13'. This hammer is provided with a front striking end 14 connected with the central portion 13' by a dovetail tongue 16 integral with the central portion and engaging in a dovetail groove in the striking end. A set screw 17 threadedly engages in the head and serves to hold the parts in relatively fixed conditions.

In Fig. 5 another modified form of hammer has been illustrated which is formed with a rear striking end 15^a of reduced, flat and curved form. This hammer is provided with a front striking end 14^a connected with a central portion 13^a of the hammer head by a dovetail tongue 16^a. A set screw 17 serves to hold these movable parts in fixed relations.

In the modified form illustrated in Fig. 6, a hammer striking end 14^b has been illustrated connected with a hammer central portion 13^b by a tongue 16^b. This tongue consists of a neck portion 18 and an enlarged

rectangular portion 19 integral with one end of the neck portion. A set screw 17 threadably engages in the striking end 14^b and in a portion of the tongue 16^b for holding these parts in fixed relations.

In Figs. 7 and 8, another modified form has been illustrated in which each of the striking ends is held against slidable disengagement by a plate 20 slidably mounted in the central portion of the hammer head and having a reduced latch end 21 engaging in an aperture in the striking end of the head and urged into engaged position by a spring 23. The plate 20 is formed with an aperture 24 aligned with an opening 25 formed in the central portion of the hammer head so that a tool may be engaged thru the opening and inserted in the aperture 24 for manually forcing the plate 20 inwards against spring 23 so that the latch portion 21 disengages from the striking end thereby permitting said striking end to be removed. The spring 23 consists of a central portion 23^a riveted on the central portion of the hammer head and having ends 23^b turned at right angles to the central portion 23 and directed thru cavities 26 formed in the central portion of the hammer head and engaged beneath the inner ends of the plates 20.

In operation of the device the hammers may be used in a customary manner for customary purposes. In the event that the striking ends become worn or break or are damaged in any manner whatsoever they may be removed from the central portion and replaced. Such removal is possible in the forms of the hammers illustrated in Figs. 1 to 6 inclusive by loosening the set screws 17 and then slidably disconnecting the striking ends from the central portions of the heads. This slidable movement is permitted by the dovetail construction used in connecting the parts. The striking ends of the hammer shown in Figs. 7 and 8 may be removed upon manually forcing the plates 20 so that the latching ends of these plates are disengaged from the striking ends of the hammer. Then these striking ends may be slidably disengaged from the central portion of the hammer head.

While I have shown and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claim.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:—

In a sledge hammer having a central portion and striking ends the latter being detachably connected with said central portion by tongue and groove joints, plates slidably mounted in the central portion and formed

with reduced latch ends engaging apertures in said striking ends, and a spring consisting of a central portion riveted on the central portion of the hammer head and having ends turned at right angles to the central portion and directed thru cavities in central portion of the aforementioned hammer head and engaged beneath the inner end of said plates for urging said plates into engagement.

In testimony whereof I have affixed my signature.

FREDERICK SCHWEIGERT.