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COMBINATION SCREW DRIVER AND STARTER

Filed March 2, 1927

Fig. 1.

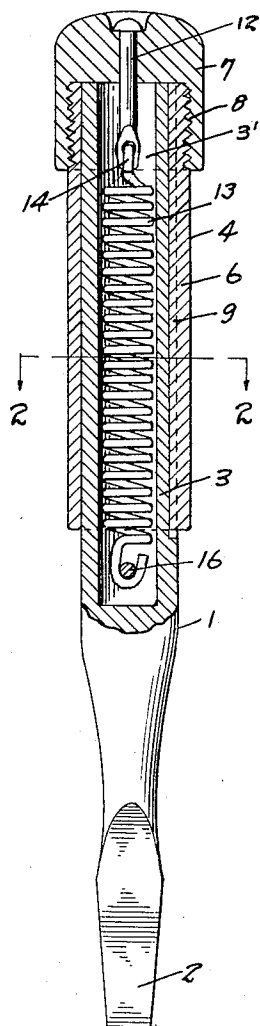
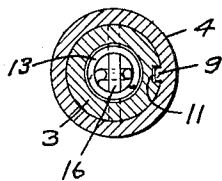
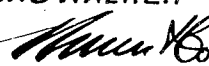


Fig. 2.



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COMBINATION SCREW DRIVER AND STARTER.

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The present invention relates to improvements in a combination screw driver and starter and its particular object is to provide in combination with a screw driver a starting element allowing a blow to be delivered to the shank of the screw driver for the purpose of giving initial movement to a screw for starting the latter before turning movement is commenced. It is particularly proposed in this connection to utilize for this purpose a retractable cap for the shank of the screw driver having spring means associated therewith for setting the cap for the purpose of delivering a blow when the cap is released from a retracted position.

Further objects and advantages of my invention will appear as the specification proceeds.

The preferred form of my invention is illustrated in the accompanying drawing, in which

Figure 1 shows a longitudinal section through the screw driver; and

Figure 2 a transverse section taken along line 2-2 of Figure 1.

While I have shown only the preferred form of my invention, it should be understood that various changes or modifications may be made within the scope of the claims hereto attached without departing from the spirit of the invention.

My screw driver 1 comprises the conventional tip 2 adapted to be introduced into the slot of a screw, not shown in the drawing, for imparting turning motion to the same and a shank 3 of uniform cross section, preferably cylindrical in form. The shank is cored as shown at 3 and open at the upper end.

A cap 4 preferably including a sleeve 6 and a closed end piece 7 threaded thereon as at 8 is made slidable on the shank and is held against revolving motion by means of a key 9 riding in a keyway 11. It is understood of course that the shank and the cap might be made of angular cross section at their engaging faces for the same purpose. The end piece 7 of the cap has a pin 12

extending therethrough and the lower end of the pin has a spring 13 fastened thereto, as shown at 14, the spring being accommodated in the bore 3 of the shank and being fastened at the lower end of the bore by means of a transverse pin 16.

In operating, the tip 2 of the screw driver is introduced into the slot of the screw to be driven, whereupon the point of the latter is held against the object into which it is to be driven. The operator now holding the lower end of the shank in the left hand while preferably guiding the screw with his fingers, retracts the cap over the opposition of the spring 13 and thereupon releases the cap, which causes the spring to draw the cap to its seat for delivering a blow to the end of the shank whereby the screw is partly driven into the object into which it is to be screwed. The cap may then be turned for finishing the driving of the screw.

I claim:

1. A combination screw driver and starter comprising a screw driver, a cap slidable thereon, and resilient means urging the cap to seat on the screw driver for delivering a blow thereto when the cap is released from a retracted position.

2. A combination screw driver and starter comprising a screw driver having a smooth shank of uniform diameter, a cap slidable on the shank and means urging the cap to seat on the shank for delivering a blow thereto when the cap is released from a retracted position.

3. A combination screw driver and starter comprising a screw driver having a smooth shank of uniform diameter and a cylindrical bore, a cap slidable on the shank and a spring fastened in the bore and attached to the cap and adapted to seat the cap for delivering a blow to the shank when the cap is released from a retracted position.

4. A combination as defined in claim 3 in which means are provided for holding the cap against revolving motion relative to the shank.

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