

C. BUSH.
 SOREW DRIVER.
 APPLICATION FILED JUNE 15, 1908.

980,595.

Patented Jan. 3, 1911.

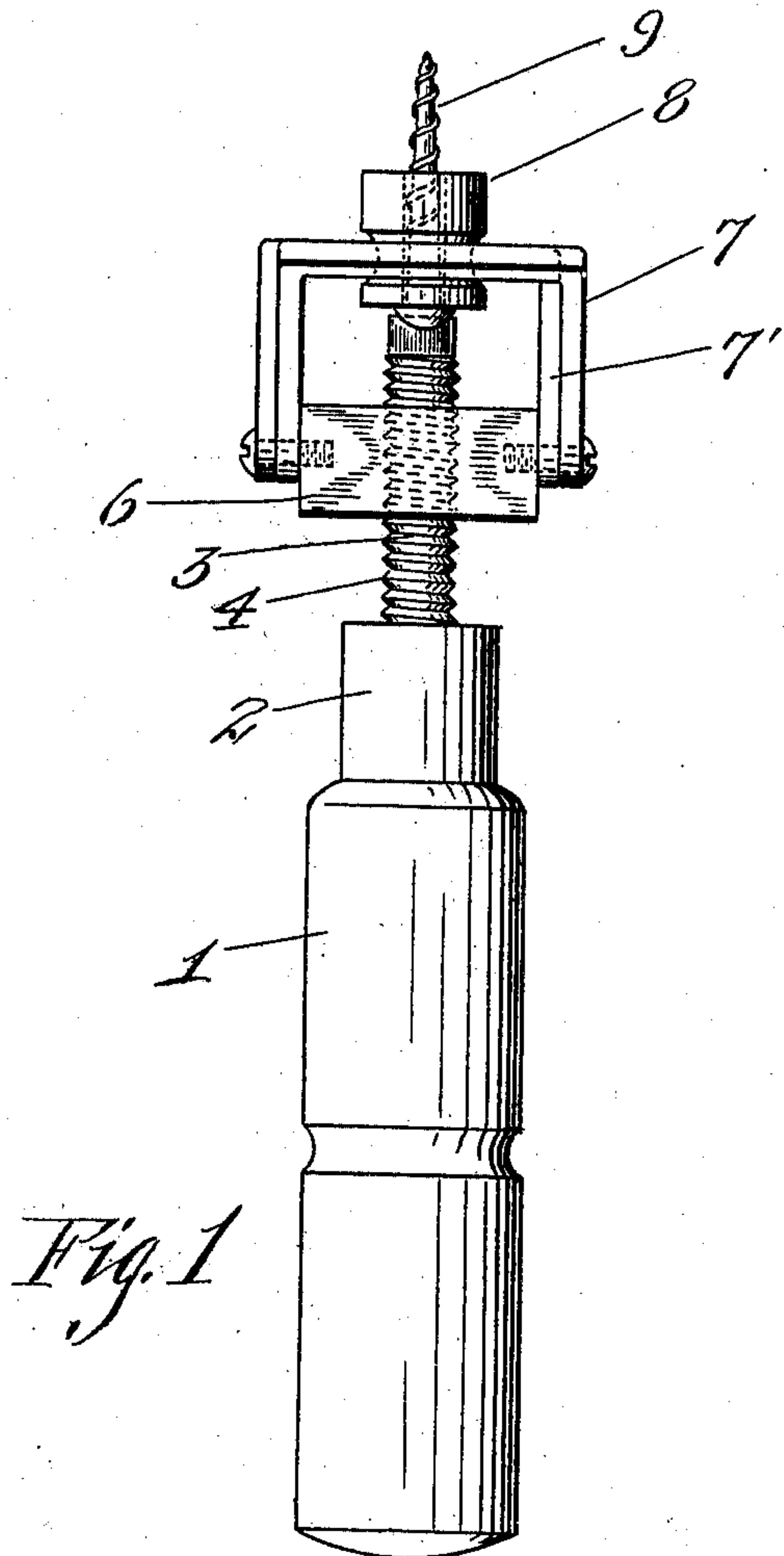


Fig. 1

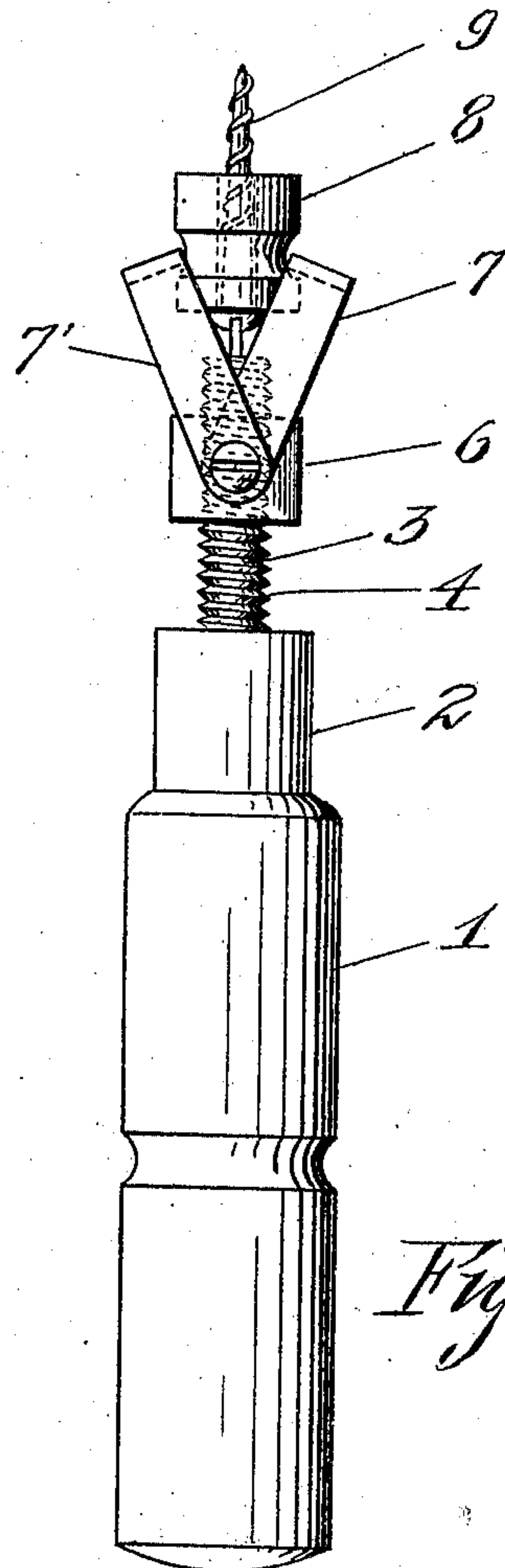


Fig. 2

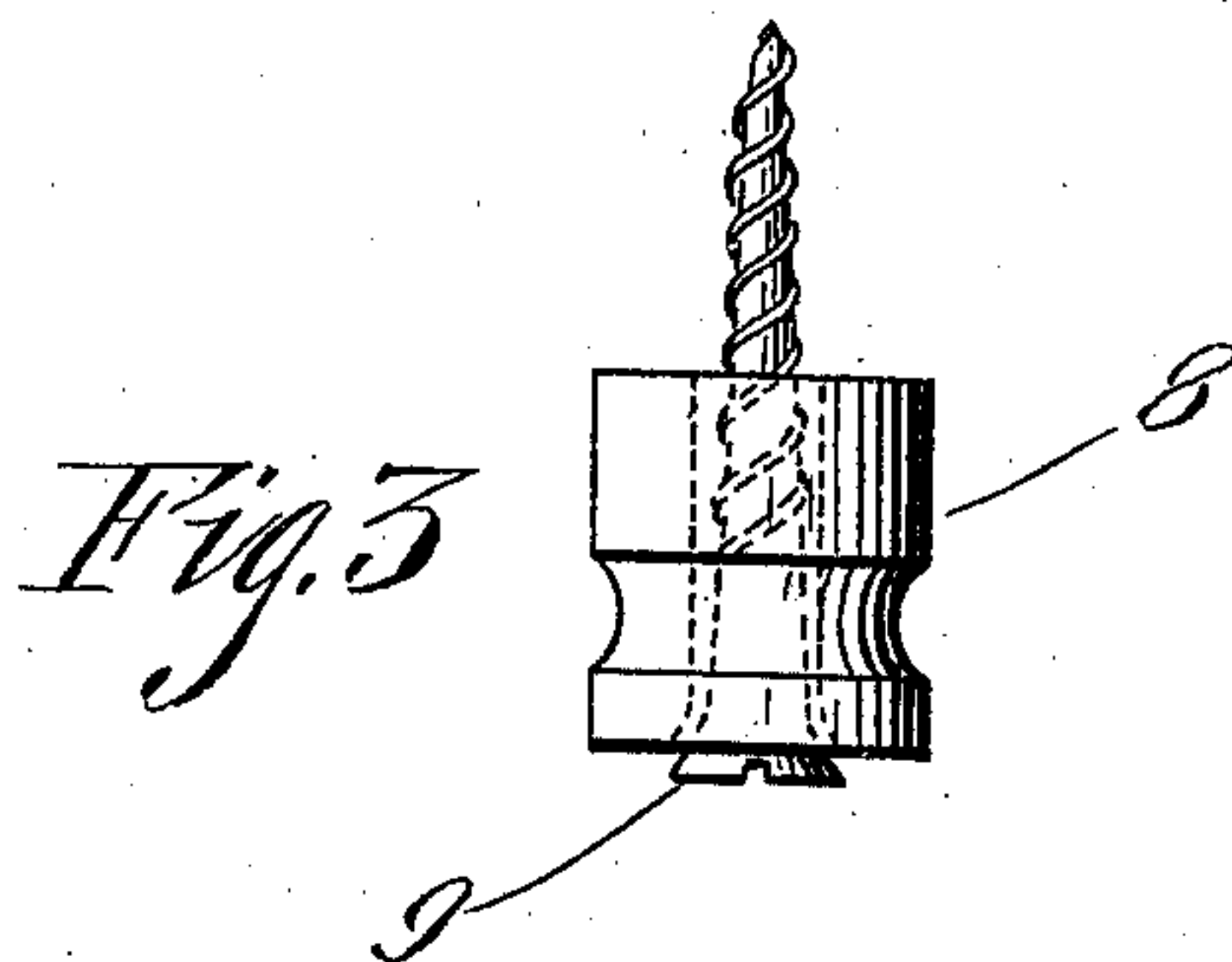


Fig. 3

Witnesses

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SCREW-DRIVER.

980,595.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CARL BUSH, a citizen of the United States, residing at Seattle, county of King, and State of Washington, have invented certain new and useful Improvements in Screw-Drivers; and I do declare the following to be a clear, full, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a side elevation of my device as it appears when operating. Fig. 2 is also a side elevation of the same device turned one quarter way around.

In the several views similar figures of reference designate like parts.

1, is a handle which may be formed of any non-conductive material, wood being preferred.

2, is an ordinary ferrule of metal, used to prevent the handle from splitting when subjected to severe strains.

3, is a spindle preferably of hardened steel, one end being secured within the handle in any well known and ordinary manner. The spindle 3, is threaded with a left hand thread 4, the office of which will be fully hereinafter explained, and pointed out in the claims.

5, is a bit or blade inserted in the free end of the spindle and is adapted to fit the slots of ordinary wood screws.

6, is a yoke threaded and mounted upon the spindle 3.

7, and 7', are swinging jaws pivoted to the yoke 6.

8, is an ordinary porcelain wiring insulator.

9, is an ordinary wood screw.

The object of my invention is to produce a device which will enable linemen to attach insulator knobs with ease to supports which would be practically inaccessible under ordinary circumstances. This object I obtain in the following manner; by placing a screw through the insulator and then placing the insulator between the jaws 7 and 7' of the instrument, and then turning the spindle 3, to the left hand, the bit 4 is advanced to and entered into the slot of the screw, and the insulator is thereby pressed forcibly against the jaws 7 and 7' in such a manner as to hold them tightly against itself. It is obvious that when thus prepared that the lineman may reach into otherwise

inaccessible places, and with one hand attach the insulator by turning the screw into the wood in the ordinary manner. It is also obvious that when the driver is rotated that the several parts are rotated simultaneously until the insulator contacts with the material into which the screw is being driven, when by reason of friction against such material it will cease to revolve and likewise the jaws 7 and 7'. This retarding of the rotating jaws serves to loosen them as the driver continues to rotate. The jaws 7 and 7' being loosely pivoted to the yoke 6, when thus loosened, immediately drop away leaving the operator free to withdraw the instrument, the insulator having been securely attached in the desired place.

Having thus described my invention, what I claim is:—

1. A combined holder and screw driver for attaching insulators comprising a spindle having a bit at one terminal thereof and threads on the body portion opposite in pitch to the pitch of the securing screw of the insulator, a nut operating on the threads of said spindle, and a pair of oppositely disposed jaws loosely pivoted to said nut adapted to clamp an insulator and retain the same during the attaching operation and automatically release said insulator, when the nut is retarded, by a continued rotation of the spindle in the same direction required during the screwing operation.

2. A combined holder and screw driver for attaching insulators, comprising a spindle having a bit at one end thereof and threads on the body portion of said spindle opposite in pitch to the pitch of the insulator securing screw, a nut operating on the threads of said spindle, and a pair of loosely pivoted oppositely disposed U-shaped jaws adapted to clamp an insulator and retain the same until the motion of the nut is retarded by a continued motion of the spindle in the direction necessary to drive the securing screw, and to automatically release the same upon the further motion of the spindle in the same direction, all without the aid of any cam or cams acting upon the jaws.

3. A combined holder and screw driver for attaching insulators comprising a spindle having a bit at one end and threads opposite in pitch to the pitch of the insulator securing screw, and means operating on the threads of the spindle to positively engage

the insulator and hold the same in driving
the screw in place, said holding means being
adapted to automatically release the insula-
tor when the motion of the holding means
5 is retarded and during the continued turn-
ing of the spindle in the direction required
to drive the screw.

In testimony whereof, I have hereunto set
my hand at Seattle, Washington, this 4th
day of June, 1908.

CARL BUSH.

In presence of—
PEARL BUSH,
EMMA BUSH.