

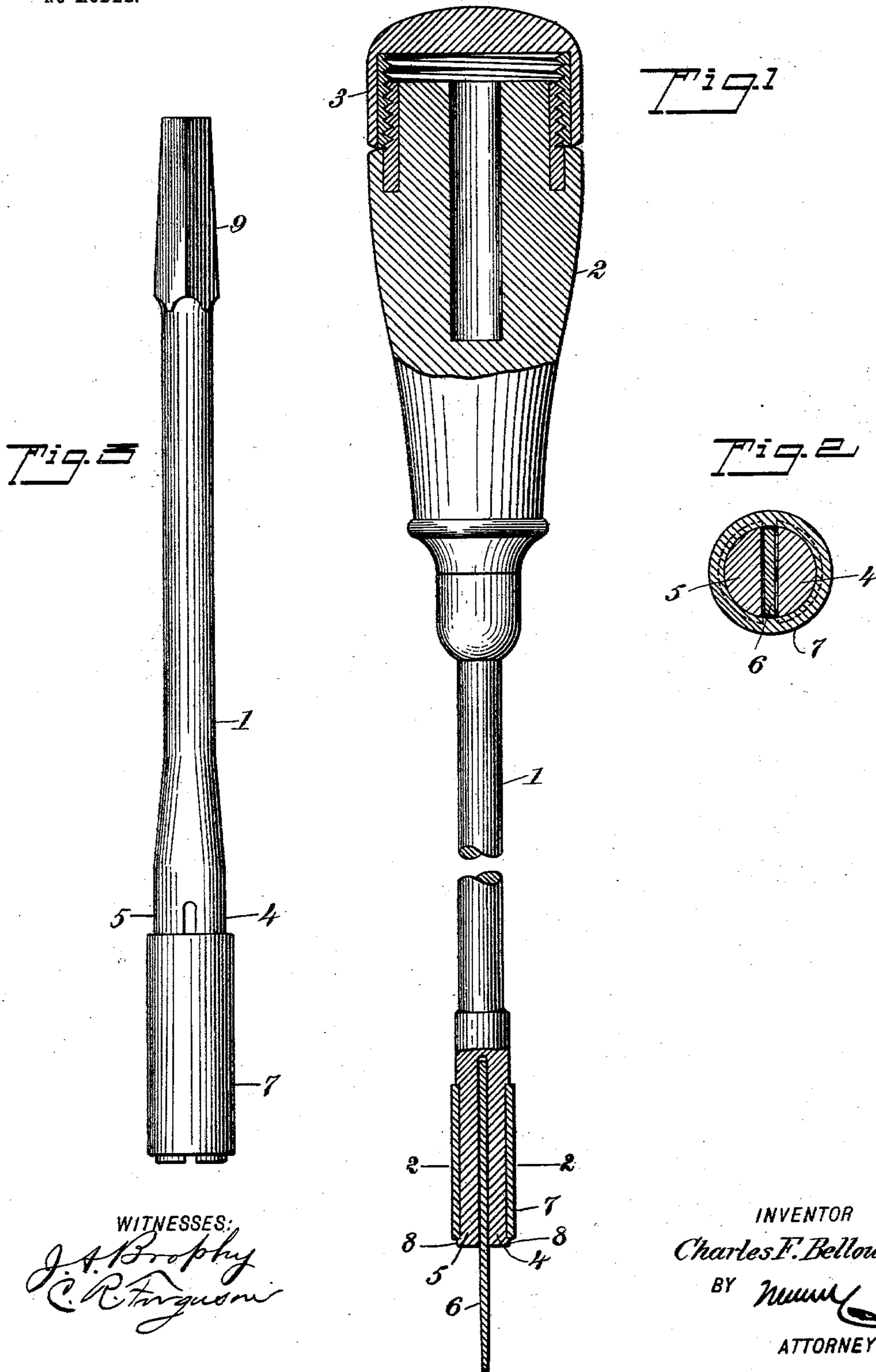
No. 733,126.

PATENTED JULY 7, 1903.

C. F. BELLOWS.  
TOOL HOLDER.

APPLICATION FILED SEPT. 17, 1902.

NO MODEL.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

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## TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 733,126, dated July 7, 1903.

Application filed September 17, 1902. Serial No. 123,739. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES F. BELLOWS, a citizen of the United States, and a resident of Brookline, in the county of Norfolk and State of Massachusetts, have invented a new and Improved Tool-Holder, of which the following is a full, clear, and exact description.

This invention relates to improvements in tool-holders particularly adapted for holding screw-driver bits, countersinks, reamers, and other handpieces, the object being to provide a holder of simple construction in which the tool or bit will be held in a chuck consisting of a permanent magnet, so that while the tool is held sufficiently tight while working, either in inserting a screw or the like or removing a screw, it may be quickly and easily removed and another one substituted without the usual manipulation of a screw-clutch.

I will describe a tool-holder embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional view of a tool-holder embodying my invention. Fig. 2 is a section on the line 2 2 of Fig. 1, and Fig. 3 is a side view showing a slight modification.

Referring to the drawings, 1 designates the shank of the tool-holder connected to a handle 2, which has a chamber or chambers for receiving various sizes of tools, and this handle is provided with a removable cover or end 3. On the end of the shank 1 is a slotted chuck forming fingers 4 5, between which the tool is designed to be held, and to form a long and secure bearing for the tool the walls of the slot are parallel throughout their length. I have here indicated a screw-driver 6 as held between the members 4 and 5; but, as before stated, other forms of tools may be held. These members 4 and 5 are of steel and are hardened to a sufficient length and magnetized, so as to form a permanent magnet, it being understood that the tool is to be held in connection with the holder by mag-

netic attraction. In other words, the members 4 and 5 form opposite poles of a horse-shoe-magnet.

To prevent the members 4 and 5 from spreading apart when the tool is in use, I surround them with a sleeve 7, made of non-magnetic material—such, for instance, as Benedict nickel. To hold the sleeve in place, the members 4 and 5 are provided at the end with shoulders 8. Obviously by forcing the members together by any suitable means the sleeve may be readily passed over such shoulders, and then upon releasing them they will spring outward to the position indicated in the drawings.

The device shown in Fig. 3 is the same in all respects as the one above described, excepting in place of a handle 2 it is provided with an angular end 9 for receiving a bit-stock or the like.

It is obvious that a tool embodying my invention may be manufactured at a comparatively small cost and a great variety of tools or bits may be used in connection therewith, and therefore the time and trouble of changing from one tool to another is greatly reduced.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A tool-holder comprising a slotted head or chuck forming two poles of a permanent magnet, the walls of the slot being parallel throughout their length and between which the tool may be held.

2. A tool-holder comprising a slotted head or chuck, the members of which form the poles of a permanent magnet, the walls of the slot being parallel throughout their length and a sleeve of non-magnetic material, engaging around said members.

3. A tool-holder comprising a shank, spaced members extended from one end of the shank, the said members being magnetized, shoulders formed on the outer ends of said members, and a sleeve of non-magnetic material surrounding the members and engaging the said shoulders.

4. A tool-holder comprising two jaws shaped

to receive a screw-driver, or the like, between them, the said jaws being magnetized.

5 5. A tool-holder comprising two magnetic jaws shaped to receive a screw-driver, or the like, between them and a non-magnetic sleeve surrounding the jaws and terminating inward of the outer end thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES F. BELLOWS.

Witnesses:

ALFRED W. DANA,  
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