

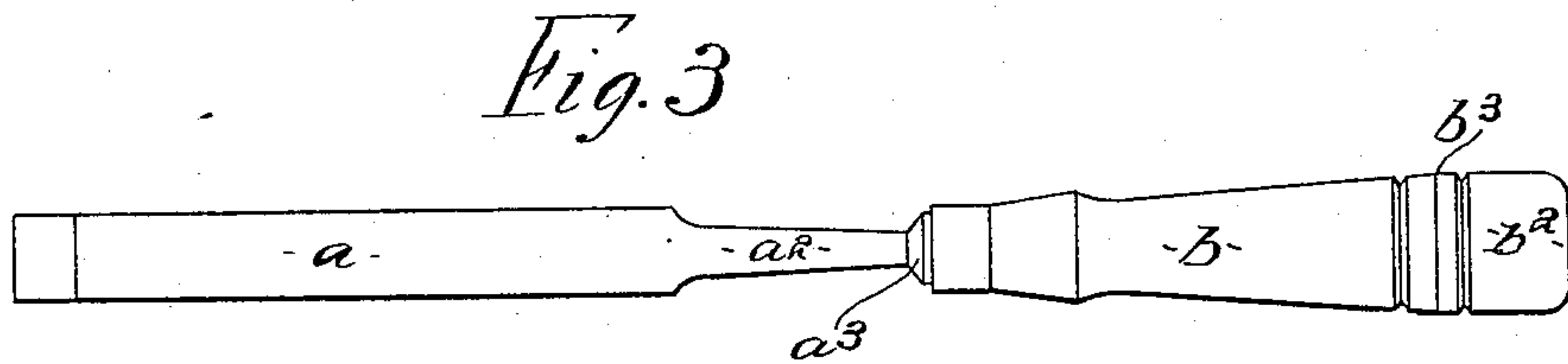
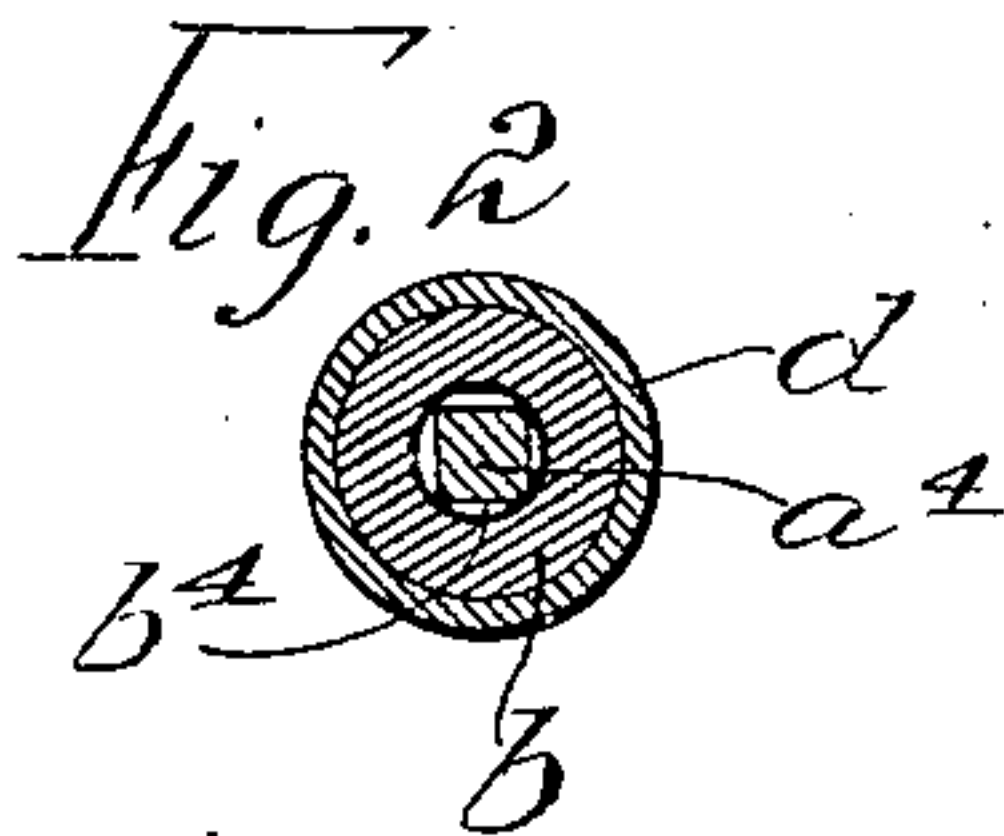
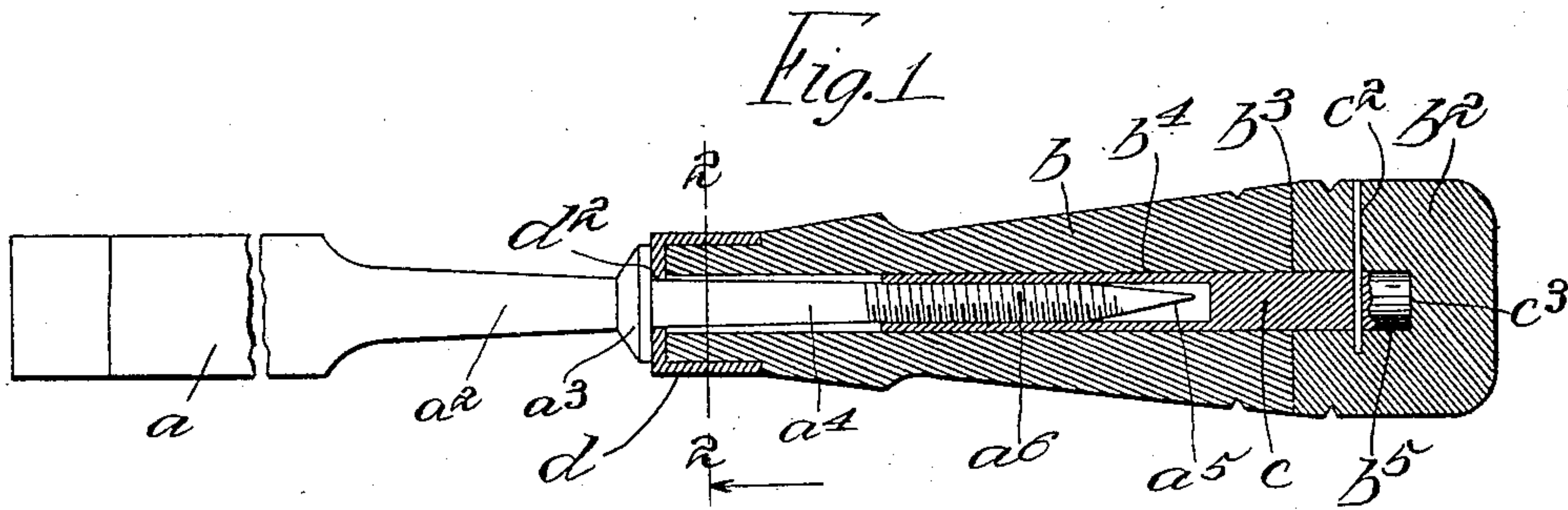
W. COOPER.

TOOL HANDLE.

APPLICATION FILED JULY 29, 1909.

967,502.

Patented Aug. 16, 1910.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM COOPER, OF NORTH TARRYTOWN, NEW YORK.

## TOOL-HANDLE.

967,502.

Specification of Letters Patent. Patented Aug. 16, 1910.

Application filed July 29, 1909. Serial No. 510,291.

*To all whom it may concern:*

Be it known that I, WILLIAM COOPER, a citizen of the United States, and residing at North Tarrytown, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Tools, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to tools of the class known as chisels, screw-drivers, and the like; and the object thereof is to provide an improved handle construction for tools of this class by means of which the tool and handle may be securely connected and disconnected whenever desired and the same handle employed in connection with different tools, and the handle and tools disconnected whenever desired for packing in a small space, and for other and similar purposes.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a side view of a tool involving my invention, the handle being shown in section; Fig. 2 a cross section on the line 2—2 of Fig. 1; and, Fig. 3 a side view of the tool shown in Fig. 1 but on a reduced scale.

In the accompanying drawing I have shown at *a* a chisel of the usual form provided with a shank *a*<sup>2</sup> which is provided with an annular collar *a*<sup>3</sup> and an extension *a*<sup>4</sup> adapted to be inserted into the handle of the tool in the usual manner. In the practice of my invention, the part *a*<sup>4</sup> of the shank *a*<sup>2</sup> of the chisel is preferably pointed as shown at *a*<sup>5</sup> and provided with a thread *a*<sup>6</sup>, and I also provide a handle *b* of the usual form but the outer end portion *b*<sup>2</sup> of which is detachable, said end portion being separated from the main part of the handle at *b*<sup>3</sup>. The handle *b* is provided with a longitudinal bore *b*<sup>4</sup> which extends longitudinally thereof and into the detachable outer end block *b*<sup>2</sup> as shown at *b*<sup>5</sup>, the part *b*<sup>5</sup> of the bore *b*<sup>4</sup> in the end block *b*<sup>2</sup> of the handle forming a socket adapted to receive a tube *c* which is secured therein by a pin or similar device *c*<sup>2</sup>. In the form of construction shown, the tube *c* is closed at its outer end as shown at *c*<sup>3</sup> but said tube may be continuous, if desired,

and that part thereof which projects from the end block *b*<sup>2</sup> of the handle *b* is of less length than the body portion of said handle and is provided with a thread which corresponds with the thread *a*<sup>6</sup> on the part *a*<sup>4</sup> of the shank *a*<sup>2</sup> of the chisel *a*. The smaller end of the handle *b*, or that end thereof adjacent to the chisel *a*, is provided with a cap *d* which is secured thereon in any desired manner, and the cap *d* is provided with an aperture *d*<sup>2</sup> through which the part *a*<sup>4</sup> of the shank *a*<sup>2</sup> of the chisel passes, and the part *a*<sup>4</sup> of the shank *a*<sup>2</sup> of the chisel is angular in cross section as shown in Fig. 2, and the aperture *d*<sup>2</sup> in the cap *d* is also angular in cross section, and when the cap *d* is secured to the handle *b* and the shank member *a*<sup>4</sup> of the chisel is passed into the handle as shown in Fig. 2, the shank of the chisel cannot be rotated in said handle.

In order to connect the chisel with the handle, or secure the handle to the chisel, the end block *b*<sup>2</sup> of the handle is detached from the body portion thereof, the shank member *a*<sup>4</sup> of the chisel is then inserted into the handle and the detachable end block *b*<sup>2</sup> of the handle is manipulated so as to pass the tube *c* into the body portion of the handle and the detachable end block *b*<sup>2</sup> of the handle is then turned so that the said tube will be screwed onto the shank portion *a*<sup>4</sup> of the chisel, as clearly shown in Fig. 1, and when this operation is fully performed the detachable end block *b*<sup>2</sup> of the handle will abut against the body portion of said handle as shown in Fig. 1, and the collar *a*<sup>3</sup> on the shank *a*<sup>2</sup> of the chisel will be drawn tightly against the cap *d* and the chisel and handle will be securely locked together, and the tool device thus formed may be used in the usual or any desired manner.

It will be apparent that chisels of different sizes may be employed as may also various other tool devices having a shank member *a*<sup>4</sup> adapted to receive a thread *a*<sup>6</sup> in connection with my improved handle, and the said handle may be of any desired size, and the same handle may be applied to various and different tool devices, and my invention is not limited to the exact details of construction herein shown and described, and various changes therein and modifications thereof may be made, within the scope of the appended claim, without departing from the spirit of my invention or sacrificing its advantages.

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

5 A tool adapted for operation by being driven endwise, comprising a blade, a shank, an integral annular ring on said shank, a threaded continuation of said shank, said shank being square in cross section above said ring, a bored body portion, a ferrule  
10 rigidly mounted on said body portion having a square opening therein to receive said shank, a recessed end block of the same cross section as and abutting throughout the entire cross section of the end of said body

portion, an internally threaded tube adapted to screw on said threaded shank and rigidly attached to said cap, said cap being adapted to abut said body portion when assembled whereby a jar is transmitted through said body portion to said ring. 15 20

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 27th day of July 1909.

WILLIAM COOPER.

Witnesses:

H. R. CANFIELD,

C. E. MULREANY.