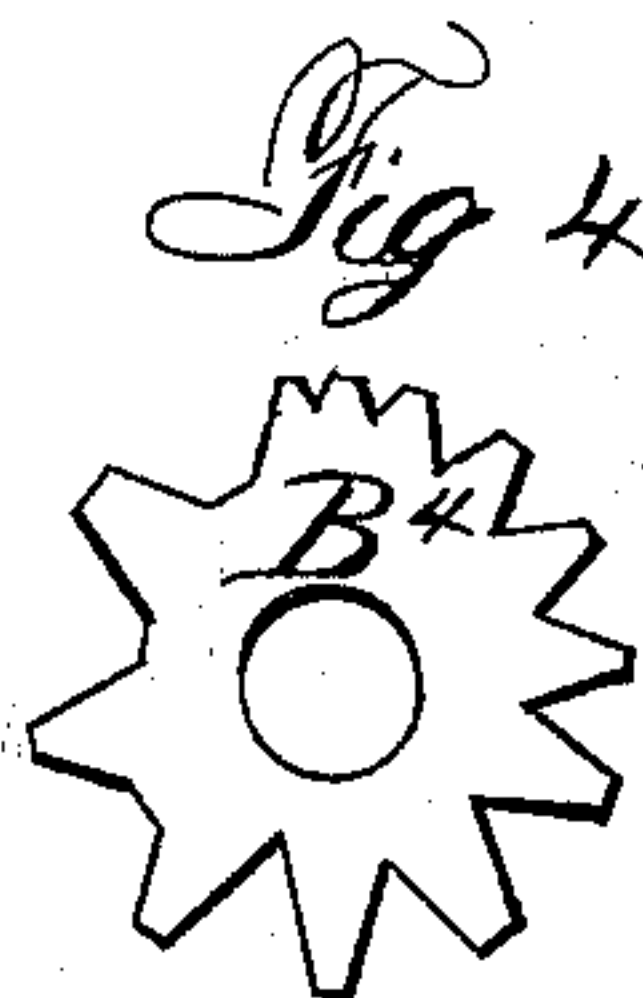
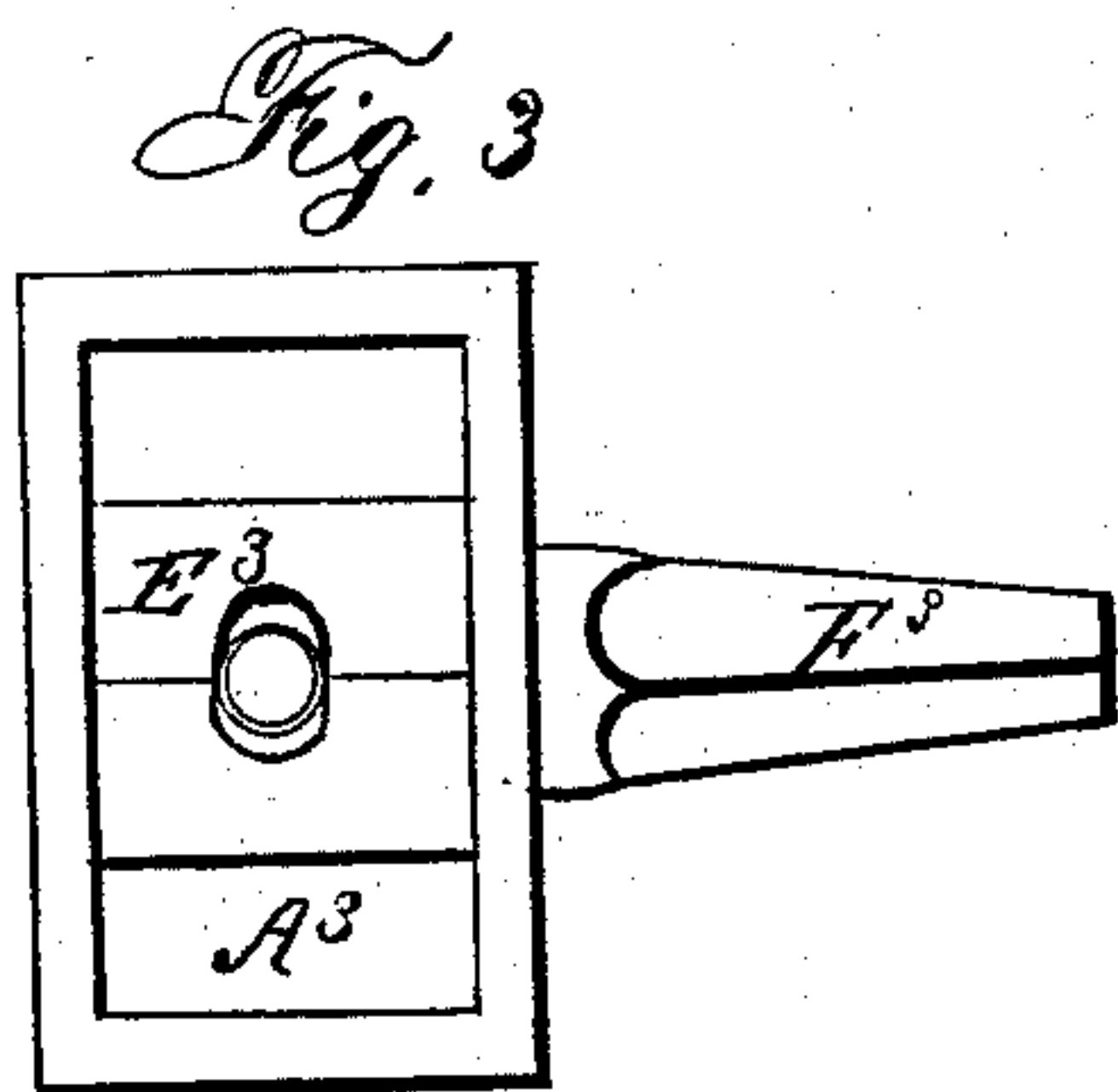
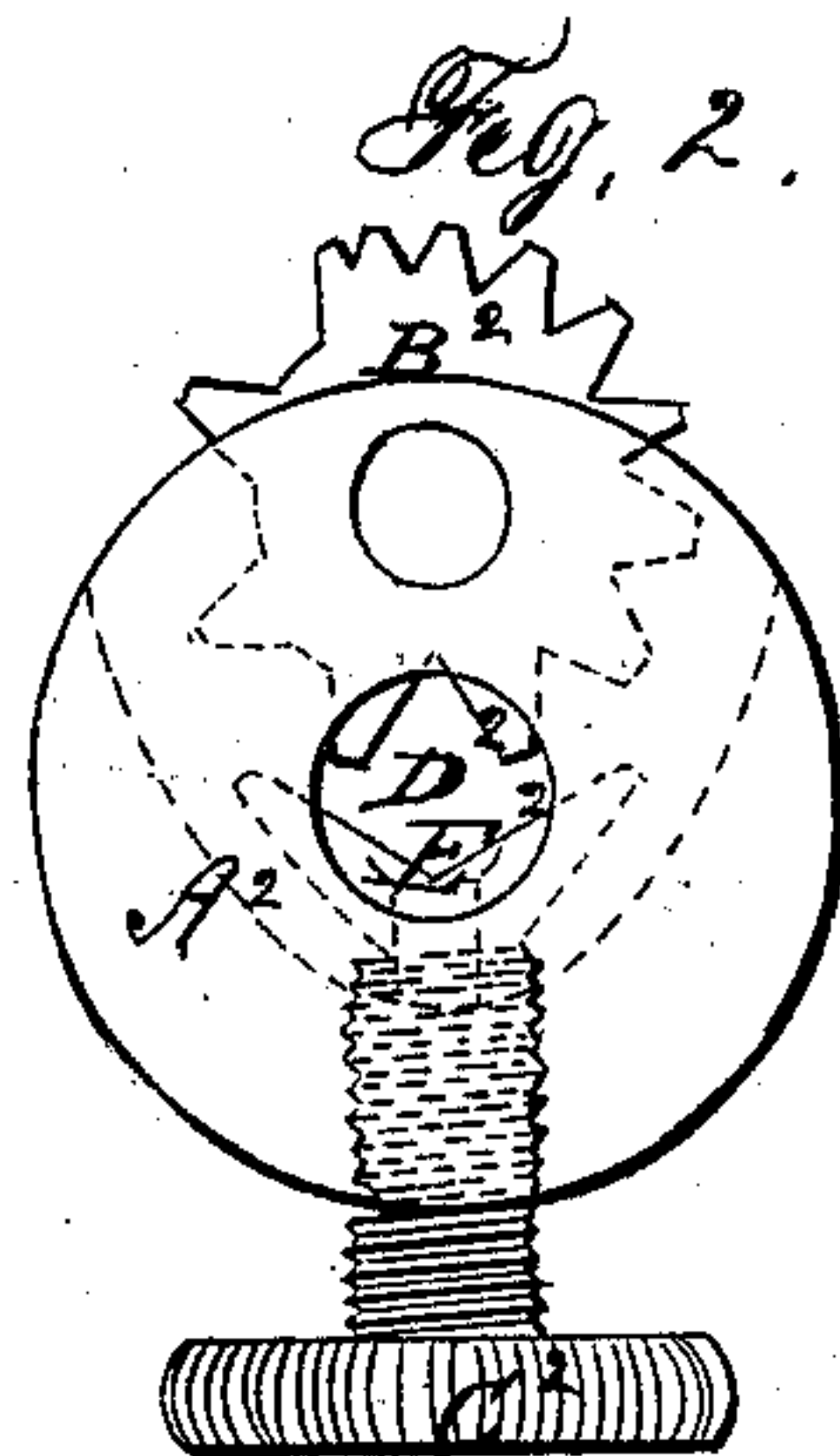
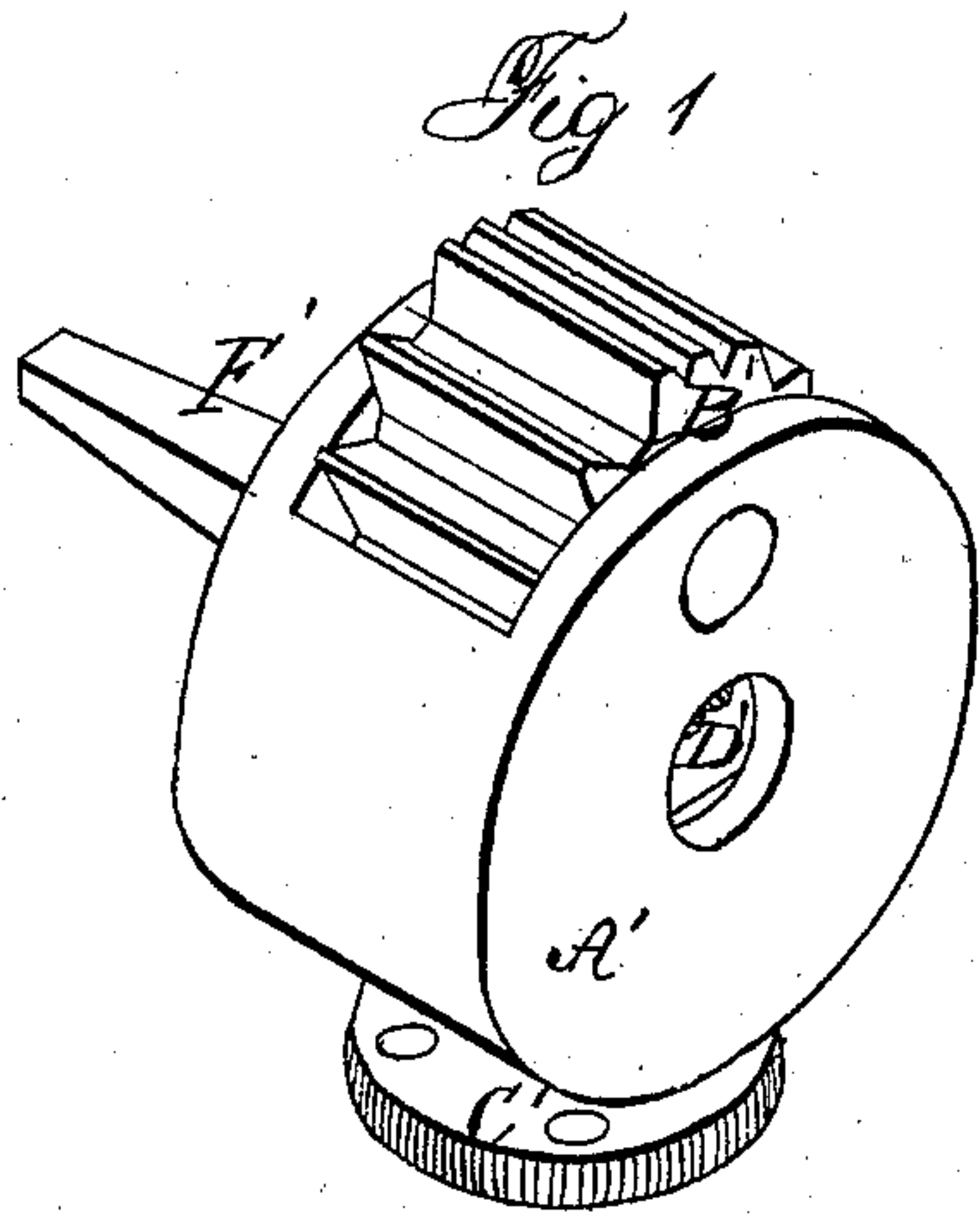


B. W. PEIRCE.

Drill Chuck.

No. 70,112.

Patented Oct. 22, 1867.



Witnesses;
Geo. Davis
Th. C. Mc. White.

Inventor;
B. W. Peirce

United States Patent Office.

BENJAMIN W. PEIRCE, OF NEW BEDFORD, MASSACHUSETTS.

Letters Patent No. 70,112, dated October 22, 1867.

IMPROVEMENT IN CHUCKS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, BENJAMIN W. PEIRCE, of New Bedford, in the county of Bristol, in the State of Massachusetts, have invented a new and improved Chuck for Bit-Stocks and Lathes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention consists in a cylinder, with a roller having various-sized flutings in its periphery, and a sliding jaw moved by a screw.

Figure 1 is a perspective view of my invention.

Figure 2 is a front view, the dotted lines in which represent its internal arrangement.

Figure 3 is a view from the upper side looking into the cylinder, the roller being removed.

Figure 4 is an end view of the fluted roller.

Fig. 1. A¹ is the cylinder; B¹, fluted roller; C¹, screw which sets up the sliding jaw; D¹, opening in face of chuck for the admission of bit, drill, or wire; F¹, the part of the chuck which enters the socket in bit-stock or lathe.

Fig. 2. A², cylinder; B², fluted roller; C², screw; D², opening for admission of bit, etc.; E², sliding jaw, operated by screw C. Those portions of the separate parts of the chuck inside the cylinder are represented by dotted lines.

Fig. 3. A³, cylinder; E³, sliding jaw; F³, projection to fit the socket of bit-stock or lathe.

Fig. 4. B⁴, end of fluted roller.

Operation.

The within-described chuck being constructed as herein shown, its operation may be noted. A drill of the desired size being selected, the roller B² (see fig. 2) is turned till a flute corresponding to the size of the drill is opposite the sliding jaw E². The drill is then introduced into the opening D², and screw C² turned in till the drill is firmly held between roller B² and sliding jaw E². For the ready adjustment of the roller, the flutings may be numbered, corresponding numbers being on the drills.

What I claim as my invention, and desire to secure by Letters Patent, is—

The within-described chuck, constructed and operating substantially as set forth.

Witnesses:

JNO. DAVIS,

TH. E. M. WHITE.

B. W. PEIRCE.