

D. W. CLANCEY.
Dental-Burring Engines.

No. 149,442.

Patented April 7, 1874.

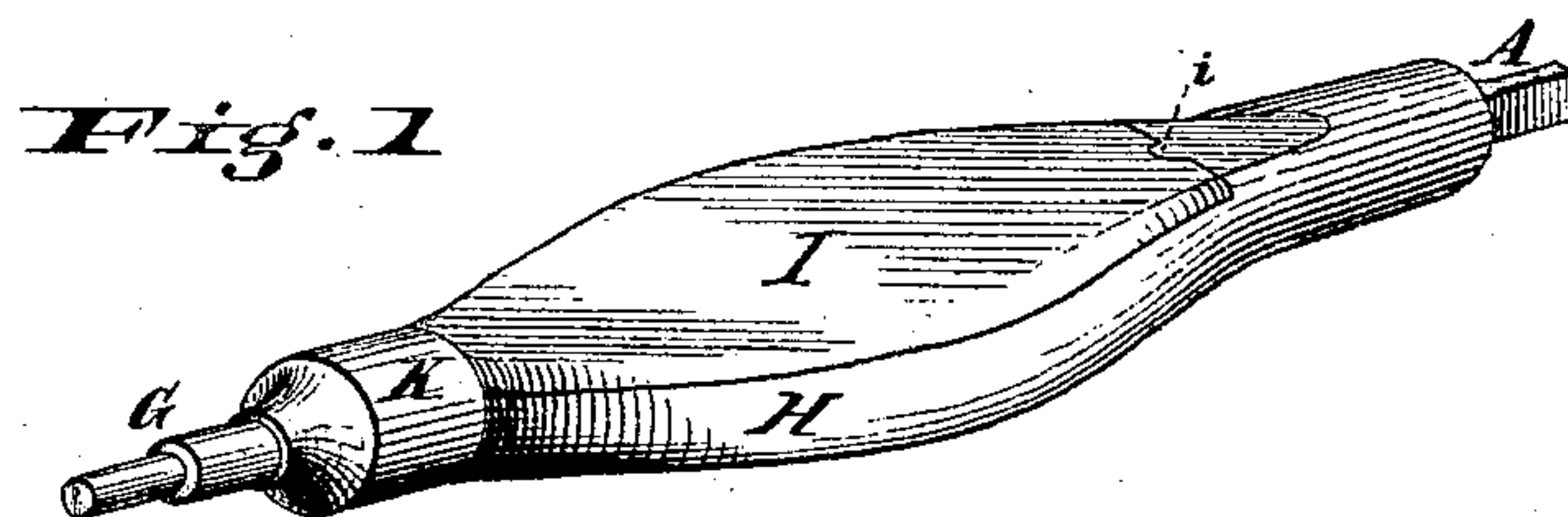


Fig. 2

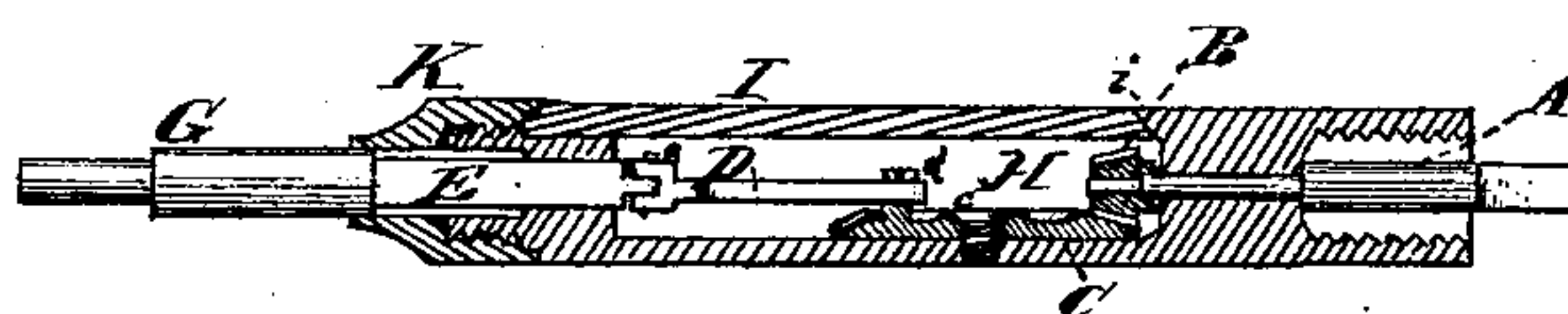
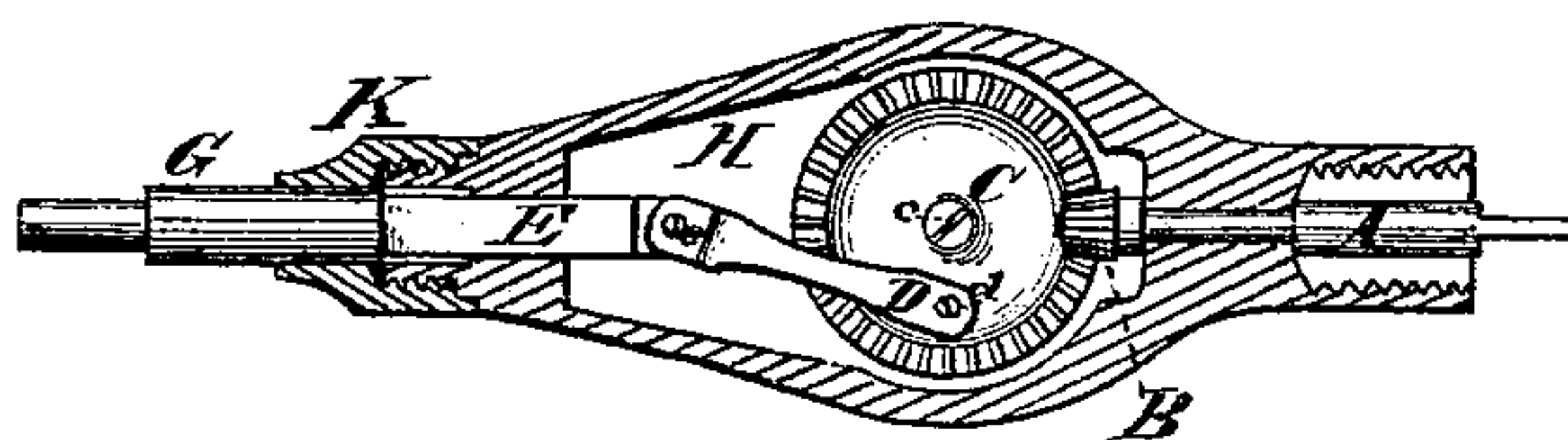


Fig. 3



Attest

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UNITED STATES PATENT OFFICE.

DANIEL W. CLANCEY, OF CINCINNATI, OHIO.

IMPROVEMENT IN DENTAL BURRING-ENGINES.

Specification forming part of Letters Patent No. **149,442**, dated April 7, 1874; application filed December 16, 1873.

To all whom it may concern:

Be it known that I, D. W. CLANCEY, of Cincinnati, Hamilton county, Ohio, have invented a Reciprocating Attachment to be Applied to a Dentist's Burring-Engine, of which the following is a specification:

The object of my invention is to hold and propel a dentist's file or other instrument used in the practice of dental surgery for cutting away and polishing tooth surface, gold or other filling in the same, by means of a reciprocating movement.

Figure 1 in the accompanying drawing represents a perspective view of the instrument when closed and ready for use, showing the end of shaft A, designed to connect with the motive power; also, the reciprocating shaft G, to which the object-holding file or other instrument may be attached; also, showing under-cut shoulder and flange-pin *i*, together with thimble K, holding cover I securely in its place. Fig. 2 represents a vertical section of all the parts connected, and showing their relation to each other. Fig. 3 is a sectional view of the side, the cover I being removed.

The shaft A passes through a journal in shell H, and is fastened to pinion B, which is adjusted to gear-wheel C, their planes being

at right angles, so that, by rotating shaft and pinion B, it causes wheel C to revolve around pin *c*, and move connecting-rod D and reciprocating shaft E G, which are connected to wheel C by crank-pin *d* and connecting-pin *e*. The part E of reciprocating shaft is square, to prevent it from turning, and has bearings in a corresponding slot in shell H; and the part G corresponds to and passes through thimble K, which is held in place by being screwed onto the shell, at the same time overlapping and holding the cover at the end, all of which is shown in the accompanying drawing.

I claim as my invention—

1. In a reciprocating attachment to dental engine, the combination of the shaft A and its pinion with the gear-wheel C, pitman D and its connections, and the tool-carrying shaft G, all as and for the purposes set forth.

2. In combination with the case containing a reciprocating mechanism, the cover I with the under-cut shoulder and flange-pin, as shown.

D. W. CLANCEY.

Attest:

W. F. BOYD,
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