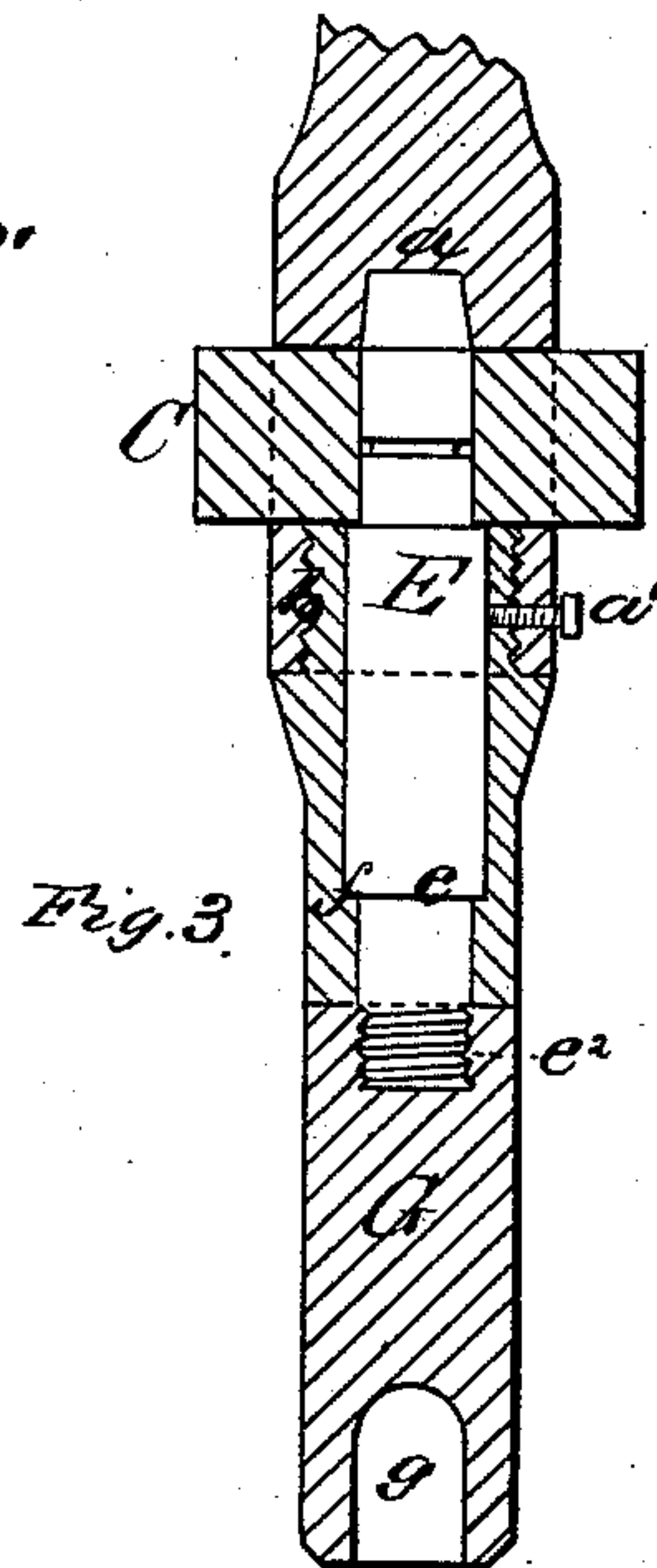
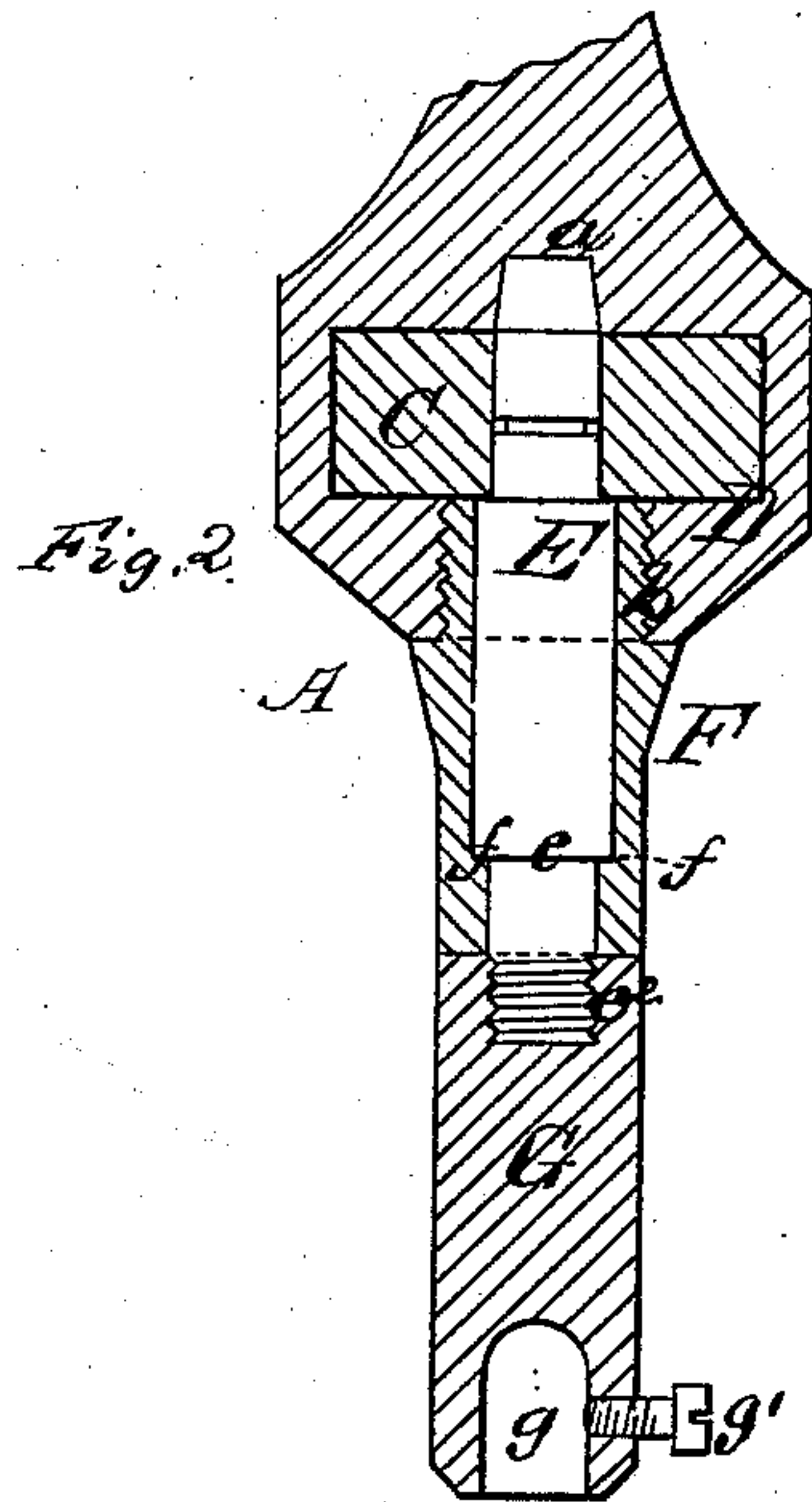
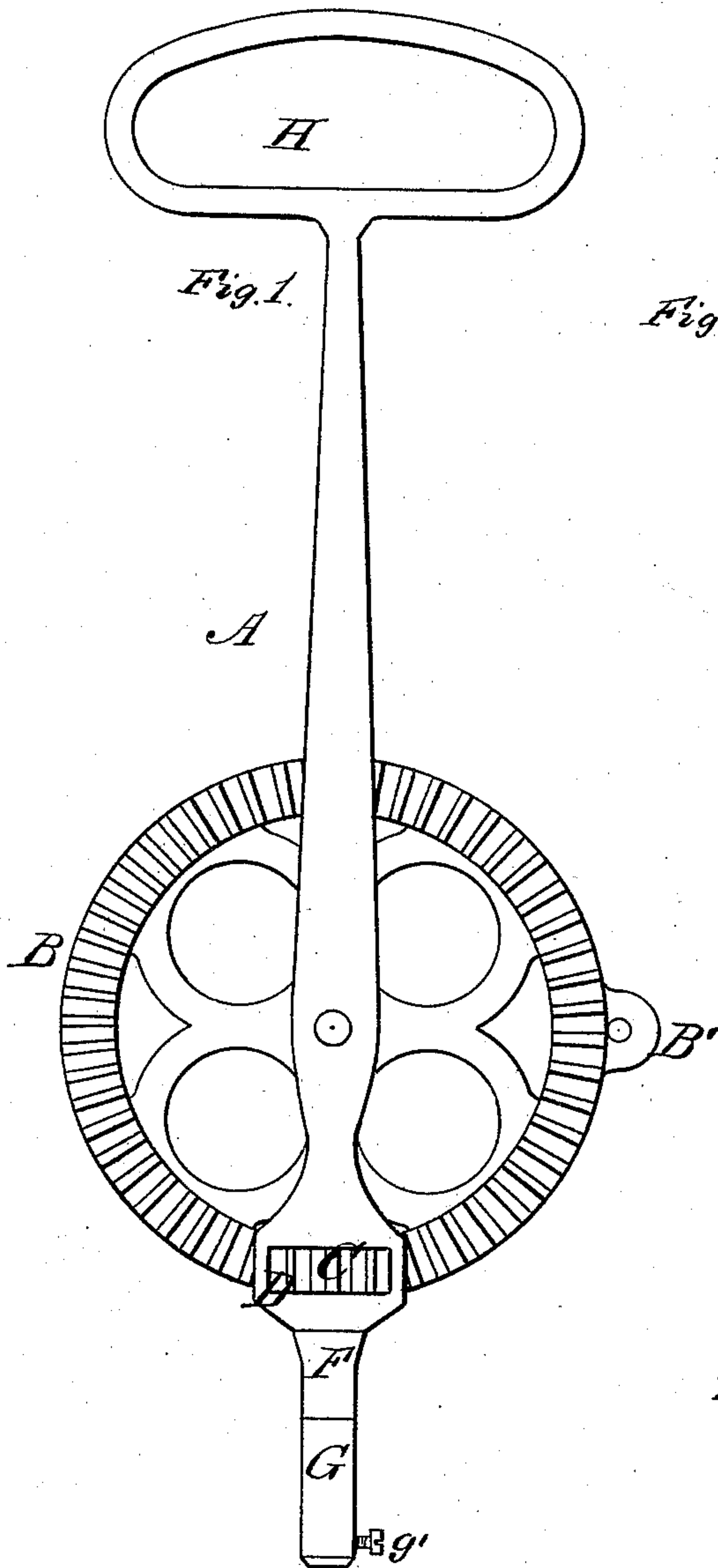


J. HAMMOND.  
Drill-Stock.

No. 168,741.

Patented Oct. 11, 1875.



WITNESSES  
*Mary S. Utley.*  
*E. A. Bates*

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ATTORNEYS

# UNITED STATES PATENT OFFICE.

JONATHAN HAMMOND, OF BELLEVILLE, INDIANA.

## IMPROVEMENT IN DRILL-STOCKS.

Specification forming part of Letters Patent No. **168,741**, dated October 11, 1875; application filed June 26, 1875.

*To all whom it may concern:*

Be it known that I, JONATHAN HAMMOND, of Belleville, in the county of Hendricks and State of Indiana, have invented a new and valuable Improvement in Drill-Stock; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my drill-stock, and Figs. 2 and 3 are sectional detail views of the same.

This invention has relation to drill-stocks; and it consists in the construction and novel arrangement of the pinion-box, shouldered pinion-shaft, tool-socket, and threaded stop-sleeve, all as hereinafter shown and described.

In the accompanying drawings, the letter A represents the drill-stock, and B the large wheel or cogged gear. C represents a pinion working in a pinion-box, D. This pinion C is held in position by a shouldered pinion-shaft, E, which passes through said pinion and enters a socket, *a*, made in the drill-stock. A threaded stop-sleeve, F, is placed over the shouldered pinion-shaft E to hold said shaft in position. This threaded stop-sleeve is provided with a screw-thread, *b*, which enters the drill-stock A, and is kept from turning by a set-screw, *a'*, placed forward of the pinion-box D. A shoulder, *f*, is made within the threaded stop-sleeve F, which abuts against another shoulder, *e*, made upon the shaft E, for the purpose of keeping said shaft from falling out

when the machine is held in a downward position. A removable tool-socket, G, is placed upon the end of shouldered pinion-shaft E, which protrudes from the threaded stop-sleeve F, said shaft being provided with a thread, *e*<sup>2</sup>, for engagement with the end of the drill-socket. This drill-socket G is provided with a square hole, *g*, in which any common drill may be placed, said drill being held in place by a set-screw, *g'*, in the end of said drill-socket. A loop or handle, H, is made upon the end of the drill-stock A, for the purpose of holding the machine up to its work. The large cog-wheel B is provided with a crank or handle, B', which is placed upon its periphery for the purpose of driving the drill.

The gearing of this machine may be made beveled or otherwise, to suit the convenience of the manufacturer.

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

In a drill-stock, the stop-sleeve F, shouldered and screw-threaded at its upper end, in combination with the pinion-box D, pinion C, shouldered pinion-shaft E, screw-threaded at its lower end, and removable from the pinion at its upper end, and removable tool-socket G, substantially as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JONATHAN HAMMOND.

Witnesses:

W. H. HUSSEY,  
H. L. PREWETT.