

(No Model.)

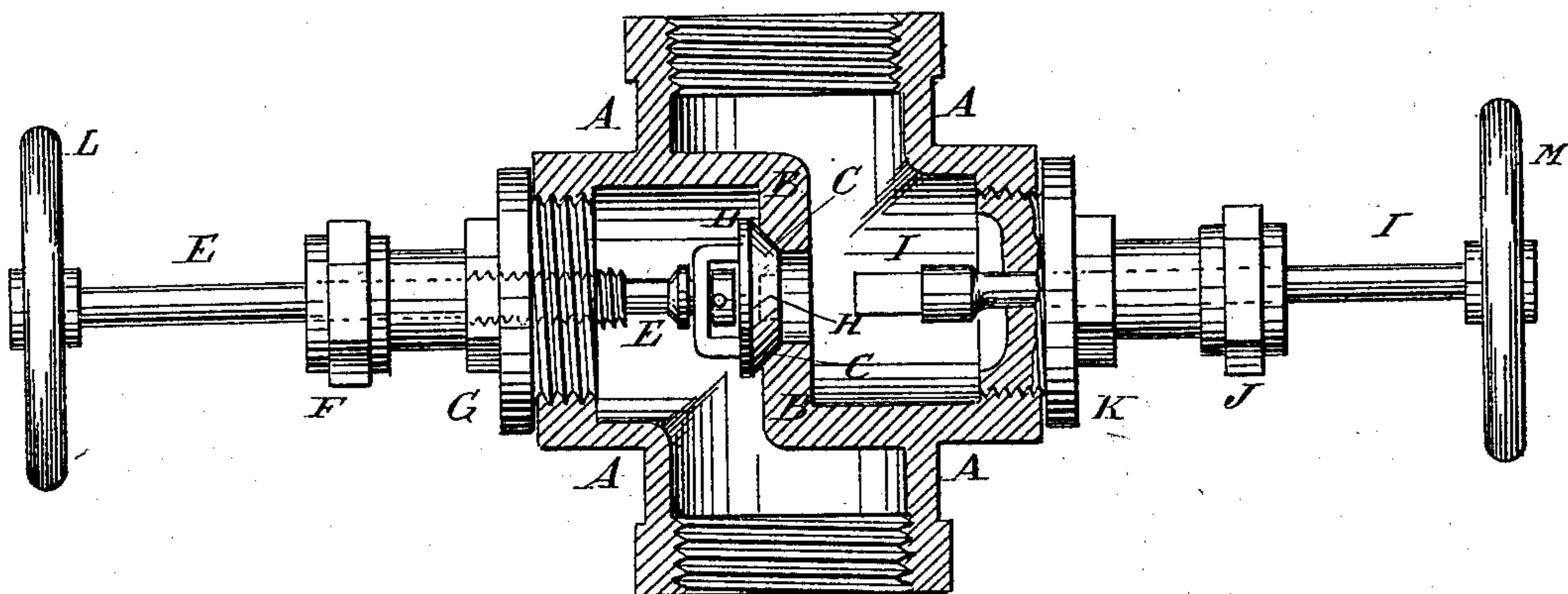
A. W. CASE.

GRINDING ATTACHMENT FOR VALVES.

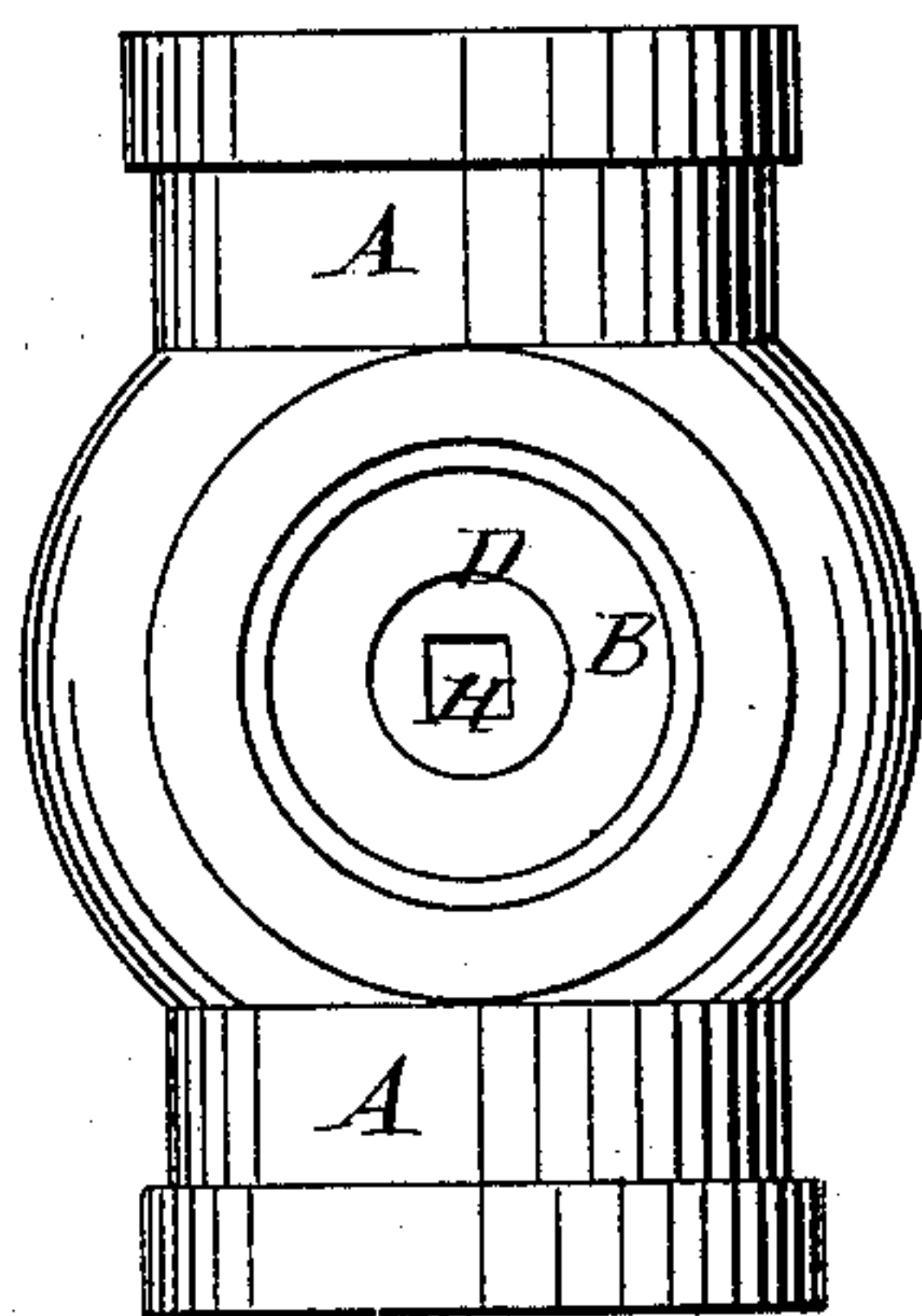
No. 285,568.

Patented Sept. 25, 1883.

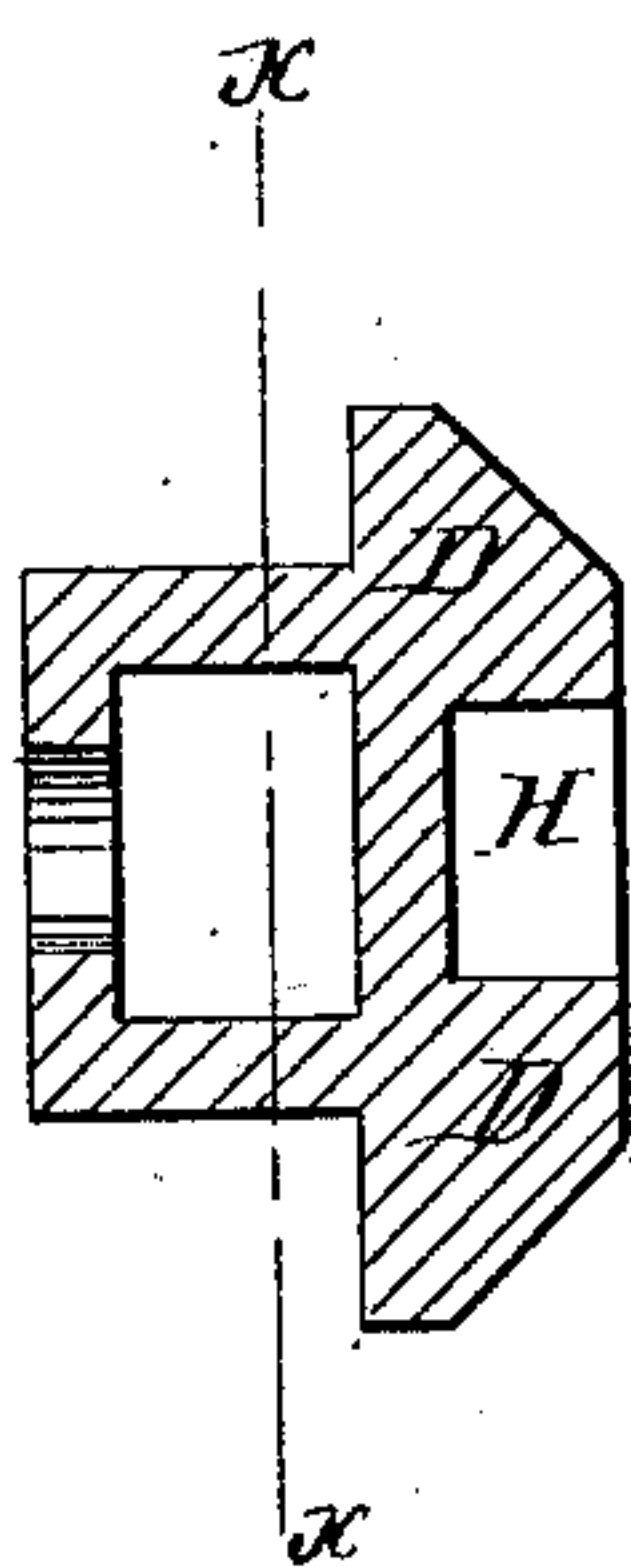
*Fig: 1.*



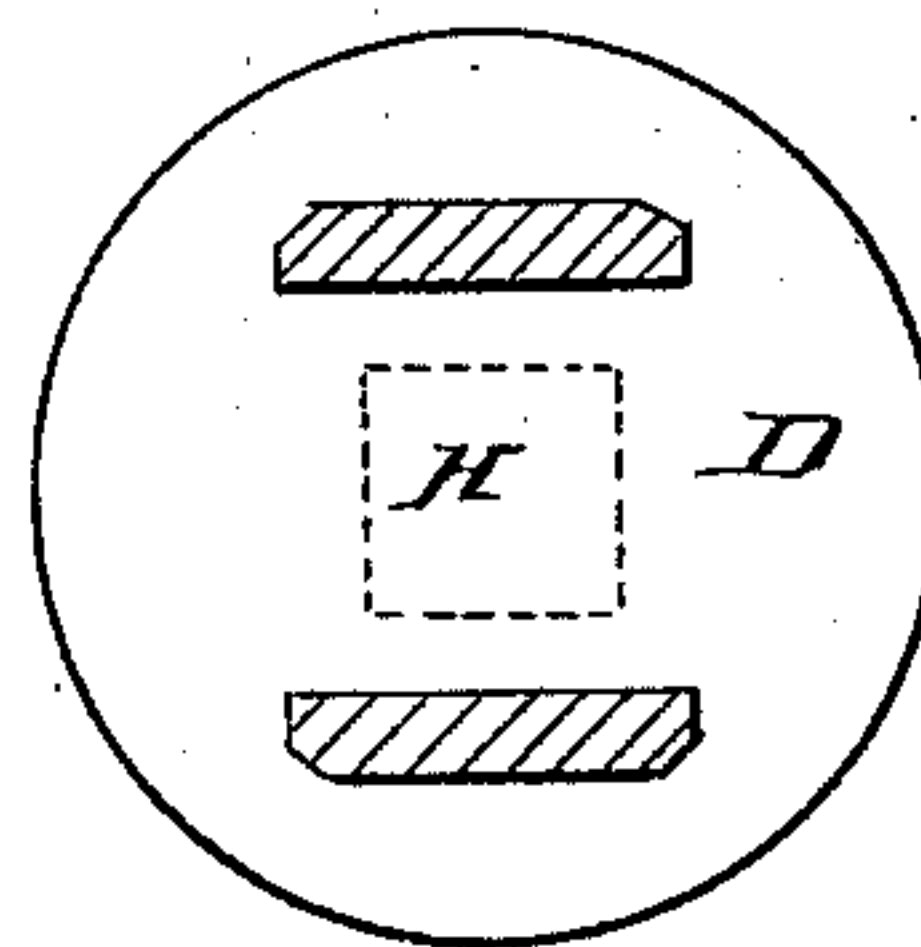
*Fig: 2.*



*Fig: 3.*



*Fig: 4.*



WITNESSES:

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INVENTOR:

*A. W. Case*  
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# UNITED STATES PATENT OFFICE.

A. WELLS CASE, OF SOUTH MANCHESTER, CONNECTICUT.

## GRINDING ATTACHMENT FOR VALVES.

SPECIFICATION forming part of Letters Patent No. 285,568, dated September 25, 1883.

Application filed March 7, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, A. WELLS CASE, of South Manchester, in the county of Hartford and State of Connecticut, have invented a new and useful Improvement in Grinding Attachments for Valves, of which the following is a full, clear, and exact description.

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

Figure 1 is a sectional side elevation of my improvement shown as applied to a valve. Fig. 2 is an elevation of the valve turned one-quarter around and having the grinding attachment removed. Fig. 3 is a sectional side elevation of the valve-head. Fig. 4 is a sectional plan view of the same, taken through the line *x x*, Fig. 3.

The object of this invention is to enable the engineer to grind his valve-heads to their seats without removing them from the valves, as set forth.

The invention consists in a valve-head constructed with a square recess in its face to receive the square end of a rod sliding longitudinally through a stuffing-box in a screw-plug opposite the face of the valve-head, as will be hereinafter fully described.

A represents the valve-stock, in the diaphragm B of which is formed an opening for the passage of the fluid, and in which is formed the seat C for the valve-head D. To the valve-head D is swiveled the end of the valve-rod E, which passes out through a stuffing-box,

F, in the plug G, screwed into an opening in the stock A.

In the face of the valve-head D is formed a square recess, H, to receive the square end of a rod, I, which passes through and slides in the stuffing-box J in the plug K, screwed into an opening in the stock A directly opposite the valve-head D. The valve-rod E and the key-rod I are provided with hand-wheels L M for convenience in operating them.

With this construction, when it becomes necessary to grind the valve-head to its seat, the rod I is pushed inward, bringing the square end of the said rod I into the square recess H of the valve-head D, so that the said valve-head can be ground to its seat by turning the rod I. When not required for use, the rod I is drawn outward, so as to be out of the way, leaving the valve D to be operated in the ordinary manner.

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

The combination, with the valve-stock A and the valve-head D, having square recess H in its face, of the sliding rod I, having square inner end, the stuffing-box J, and the screw-plug K, substantially as herein shown and described, whereby the said valve-head can be ground to its seat without being removed from its valve-stock, as set forth.

A. WELLS CASE.

Witnesses:

MAHLON R. WEST,  
LEONARD G. CUMMING.