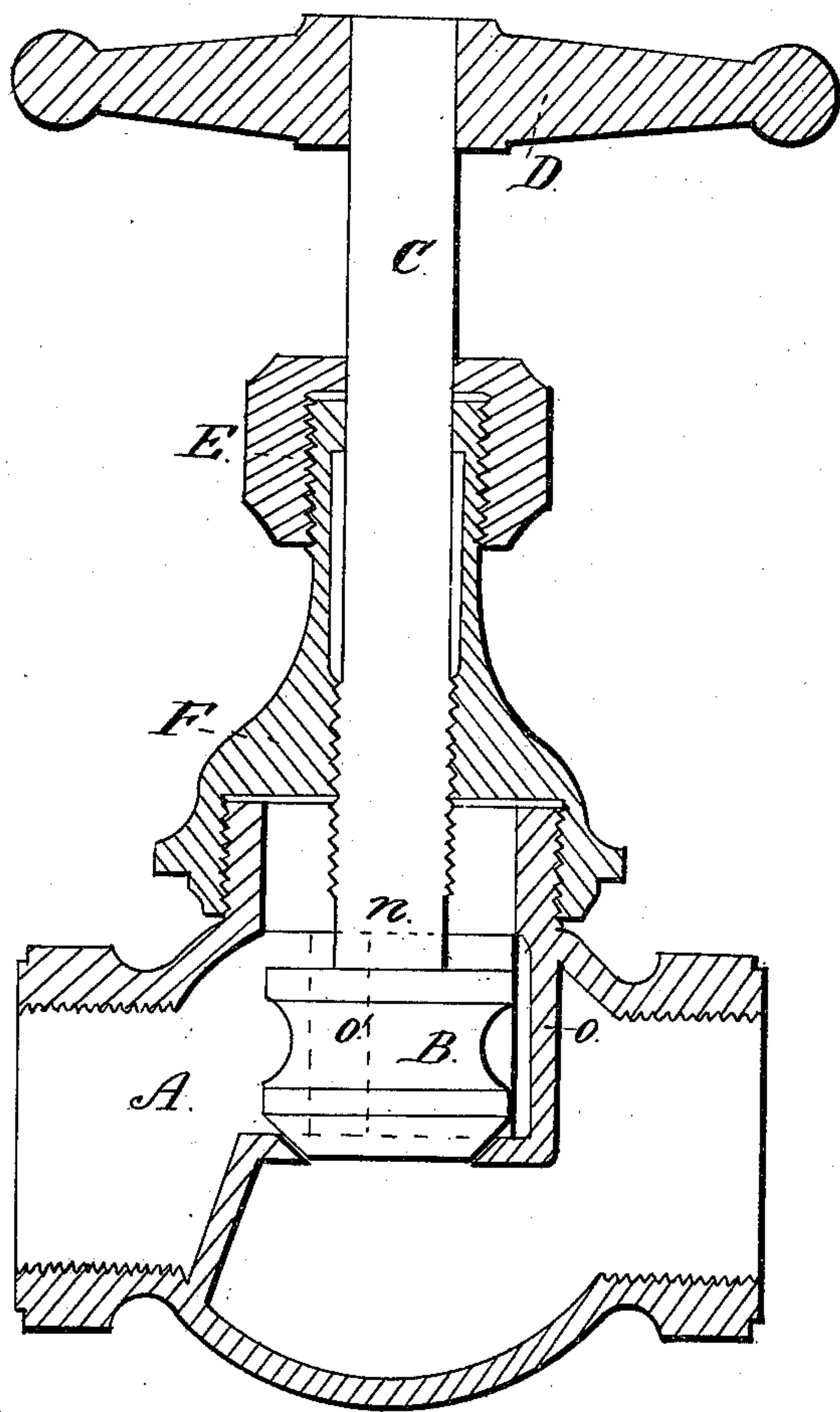


R. Mears.

Globe Valve.

N^o 86,432.

Patented Feb. 2, 1869.



Witnesses:

*B. Pickering
H. H. Hendrick*

*Inventor
Richard Mears*

United States Patent Office.

RICHARD MEARS, OF DAYTON, OHIO.

Letters Patent No. 86,432, dated February 2, 1869.

IMPROVEMENT IN GLOBE-VALVES FOR STEAM AND OTHER ENGINEERY.

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, RICHARD MEARS, of Dayton, in the county of Montgomery, in the State of Ohio, have invented a new and improved Globe-Valve; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in casting guides within the shell, and lengthening the valve-head, thus forming a suitable guide to the valve during the process of grinding.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The figure represents a longitudinal section of the globe-valve.

The construction of this valve is identical with those generally in use, with the exception of modifications hereafter explained.

A represents the shell.

F, cap-nut, having a thread, corresponding with that of the valve-stem C, by which the valve is opened and closed.

E, a packing-nut, and

D, the handle.

The valve-head B is made much longer than usual, and of the form shown in the drawing.

From the line *n* to the top of the shell, the orifice is bored sufficiently large to admit of the passage of the valve-head, and beneath this line there is open space, and about which I cast three guides, one of which is shown in black, at *o*, and the position of the other two is indicated by dotted lines at *o'*. The first closes up against the division, as shown, whilst the others may extend from the top of the shell to the seat, or extend sufficiently downward to serve the purpose.

Thus constructed, these guides can have a sufficient surface to render them durable, and not affect injuriously the passage.

When a globe-valve is thus constructed, by unscrewing the nut F, the valve-seat is easily ground, and the valve is retained in its true position.

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

The elongated valve-head B and guides *o o'*, constructed substantially as specified.

RICHARD MEARS.

Witnesses:

B. PICKERING,

H. H. HENDRICK.