

J. B. Wood,
Globe Valve,
No 57,424, Patented Aug. 21, 1866.

Fig. 1.

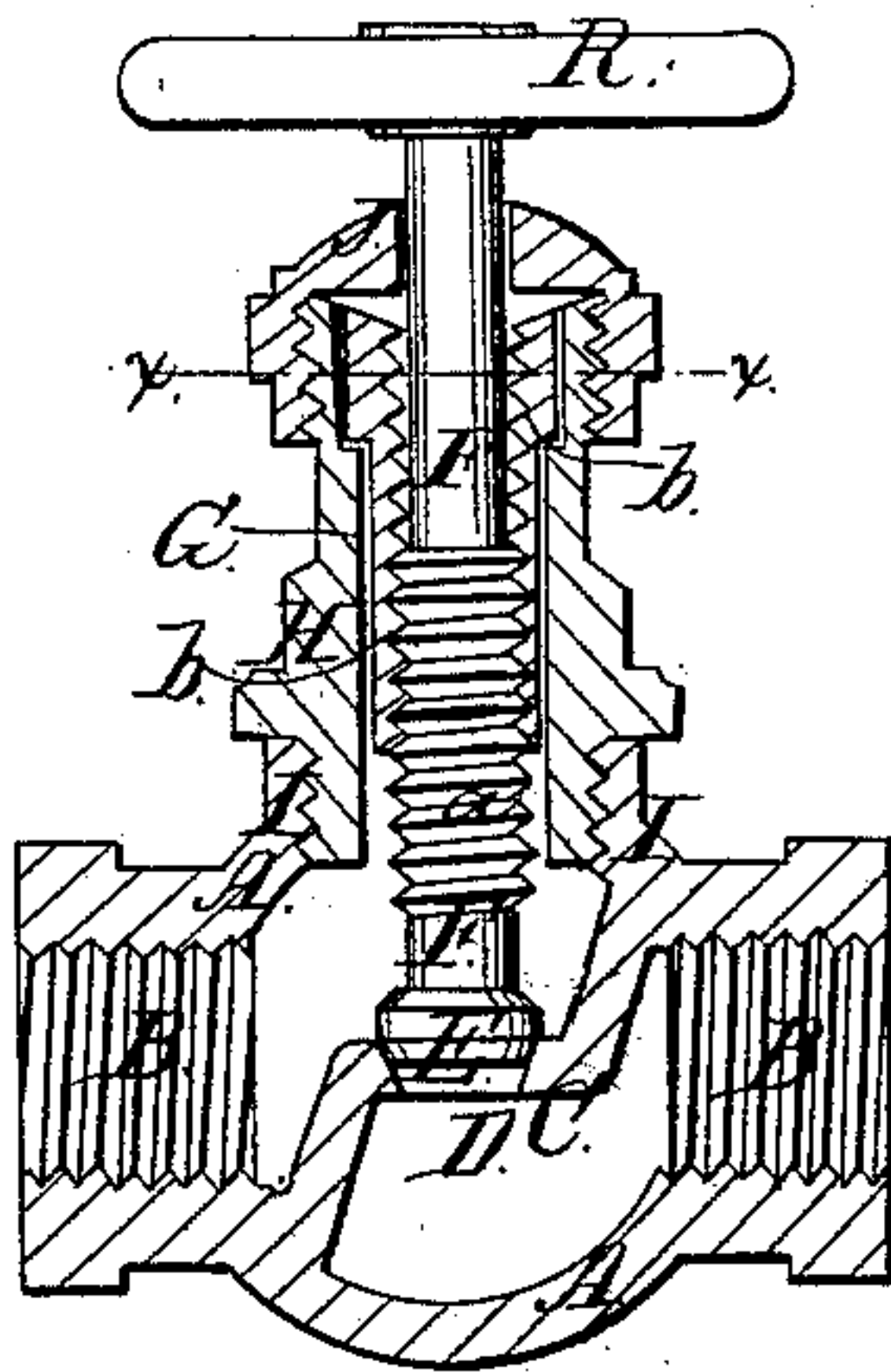
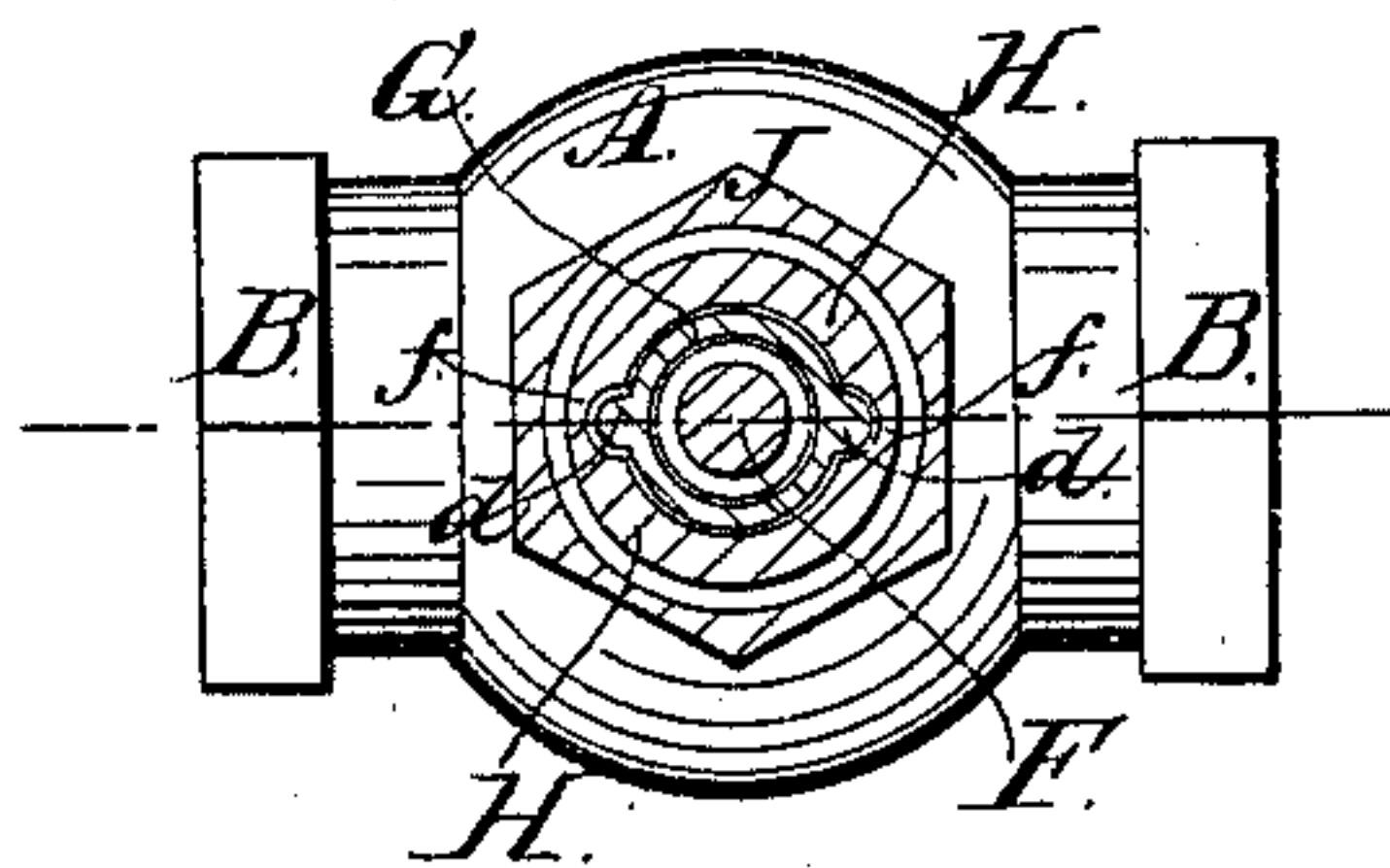


Fig. 2.



Witnesses.

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JAMES B. WOOD, OF LANSINGBURG, NEW YORK.

IMPROVEMENT IN STEAM-VALVES.

Specification forming part of Letters Patent No. 57,424, dated August 21, 1866.

To all whom it may concern:

Be it known that I, JAMES B. WOOD, of Lansingburg, Rensselaer county, and State of New York, have invented a new and useful Improvement in Steam-Valves; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention relates to a novel improvement in the construction of steam-valves, whereby many important advantages are obtained, among which may be mentioned that while the cost of making the valve is but very little increased, if any, its seat can be readily and easily ground by the valve itself; and valves made upon the old plan can be, with but very little expense, altered according to the present improvement, as will be obvious from the following detail description thereof, reference being had to the accompanying plate of drawings, in which—

Figure 1 is a central longitudinal vertical section through the valve, showing its stem and handle connected with it in side elevation; and Fig. 2, a horizontal section taken in the plane of the line *x x*, Fig. 1.

A in the drawings represents the coupling portion of the valve, in each end B of which a female screw-thread is made suitable for forming the desired connection with the steam-pipes, the coupling A in its center being divided into two parts or sections by means of a partition-plate, *c*, having an aperture, D, that forms the seat of the valve E, secured to one end of a stem, F. This stem F has a screw-thread, *a*, formed around it for a portion of its length, which screws into the female screw-thread *b* of a tubular nut, G, that

is loose within the outer casing, H, screwed by its lower end within the center opening, I, of the valve-coupling chamber, but is prevented from turning around in the said casing H by interlocking the projections *d* of its upper end with corresponding-shaped notches *f* of the said casing H, as plainly shown in Fig. 2 of the drawings. J is the stuffing-box, screwed upon and over the upper end of the casing H, through which stuffing-box the valve-stem F extends, and is provided with the ordinary handle K for convenience in turning it.

From the above description of the construction of the valve it is obvious that if the stuffing-box be unscrewed from the casing H, and then the inner tubular nut raised sufficiently within the said casing to disengage its projections therefrom, the valve-seat, by simply turning the valve around with its nut within the casing H, can be then ground with ease and readiness and with the utmost accuracy—an advantage of the utmost importance—and that, furthermore, to alter a valve made in the old manner according to the present invention it is only necessary to turn off the outside case of such valve and to fit another to and over it, as is obvious without any further explanation.

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

The outer casing, H, inner and independent nut, G, having projections interlocking with the notches in the said outer casing, and valve-stem F, when combined together substantially as and for the purpose described.

JAMES B. WOOD.

Witnesses:

JOHN BOWDEN,
EBENEZER WOOD.