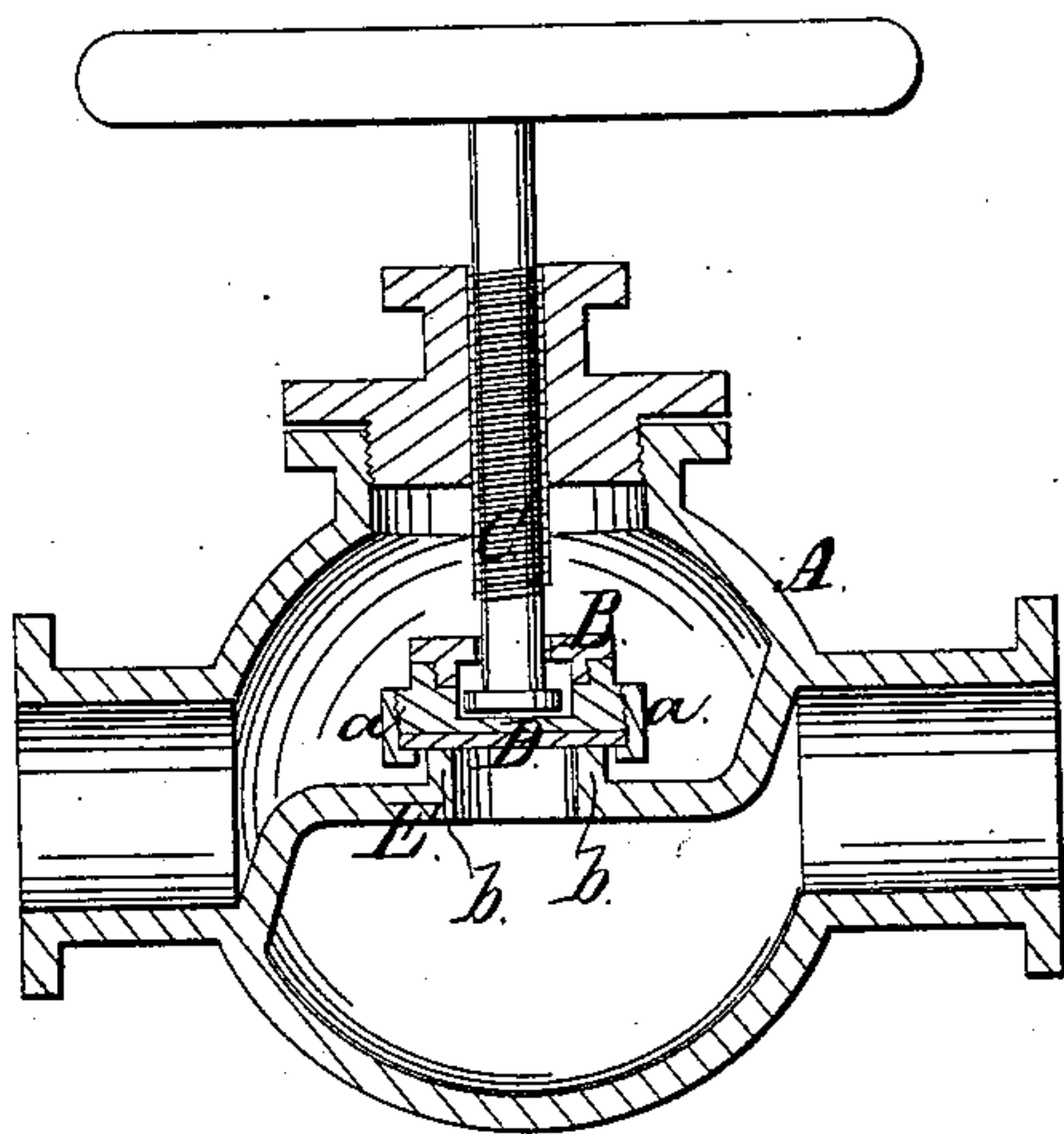


T. A. Searle,
Globe Valve,
No 54,025, Patented Apr. 17, 1866.



Witnesses.

J. M. B. Crumpton
Wm. Frewen

Inventor.

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UNITED STATES PATENT OFFICE.

THOMAS A. SEARLE, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN GLOBE-VALVES.

Specification forming part of Letters Patent No. 54,025, dated April 17, 1866.

To all whom it may concern:

Be it known that I, THOMAS A. SEARLE, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Globe-Valve; 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 drawing, forming a part of this specification.

The drawing represents a longitudinal central section of a globe-valve constructed according to this invention.

This invention consists in the arrangement of a soft-metal disk or ring which is secured to the face of the valve in such a manner that by means of said soft disk or ring the valve is enabled to accommodate itself to its seat, and that the face of the valve can be readily renewed simply by renewing the soft-metal disk whenever it appears to be necessary.

It consists, also, in the arrangement of an annular projecting rim on the seat of the valve in such a manner that said seat is readily faced, and that the same will fit to the face of the valve more readily than it would if made flat in the ordinary way.

A represents a globe-valve of the ordinary form. The valve B is secured to the inner end of the screw-spindle C, and to the face of the valve is secured a disk or ring, D, of copper or other soft metal. This disk or ring is

held in position by a screw-cap, *a*, or by any other suitable means, and the connection between the valve and the screw-spindle is of such a nature that said valve is free to accommodate itself to its seat.

The seat E is provided with an annular rim, *b*, on which the valve closes down, as shown in the drawing. By the combined action of this raised rim and of the soft-metal disk the valve is easily kept tight. The rim *b* is readily faced off and it is not liable to be cut by the action of the steam or other fluid rushing through between it and the valve. The soft-metal disk readily accommodates itself to the face of the rim *b*, and whenever said disk should wear out it can be easily renewed without much loss of time.

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

1. The soft-metal disk or ring D, in combination with the face of the valve B and seat E, constructed and operating substantially as and for the purpose described.

2. The annular rim *b* on the seat E, in combination with the soft-metal disk or ring D on the face of the valve B, constructed and operating substantially as and for the purpose set forth.

THOS. A. SEARLE.

Witnesses:

M. M. LIVINGSTON,
ALEX. F. ROBERTS.