J. D. KEEGAN.

No. 181,684.

Patented Aug. 29, 1876.

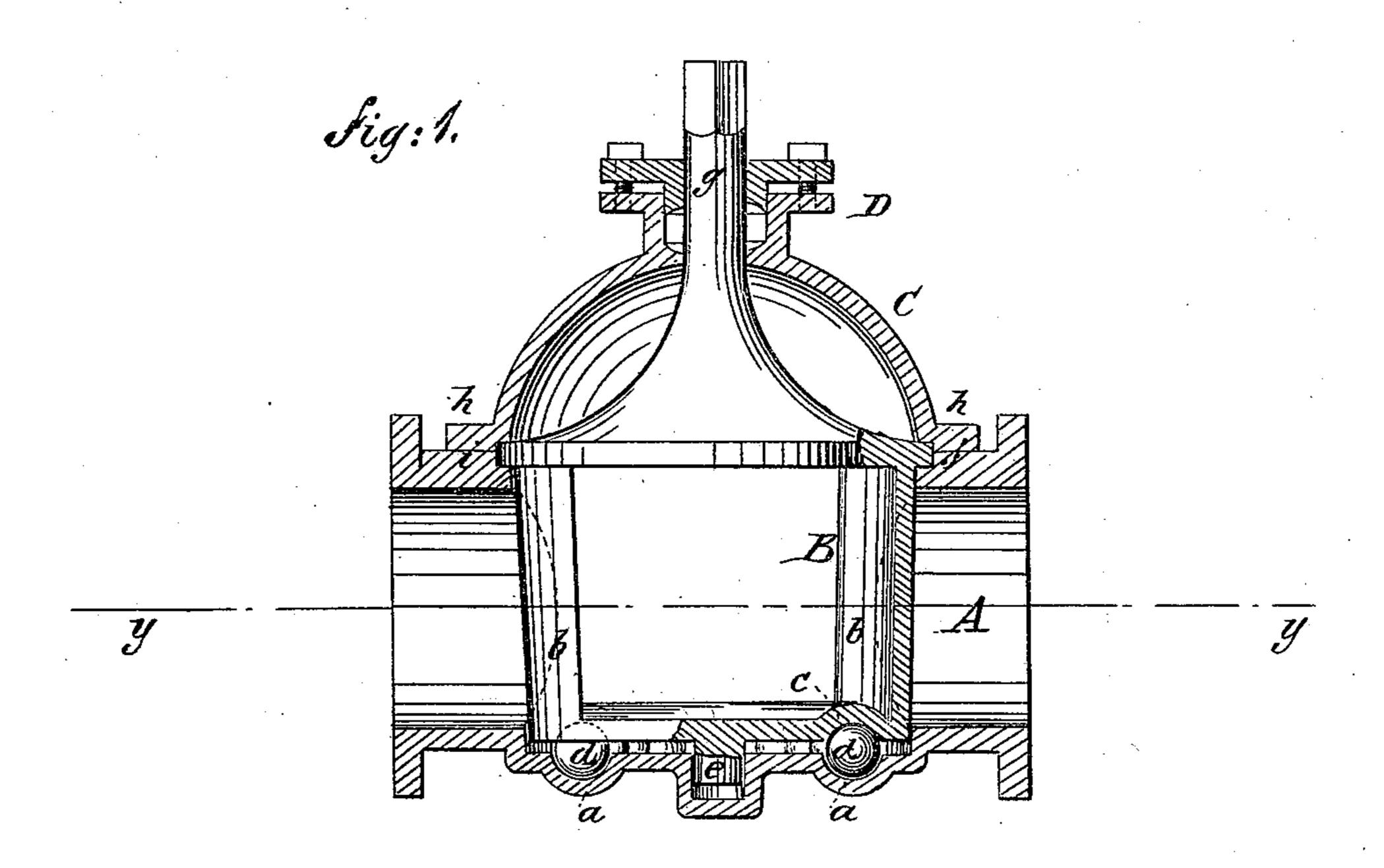
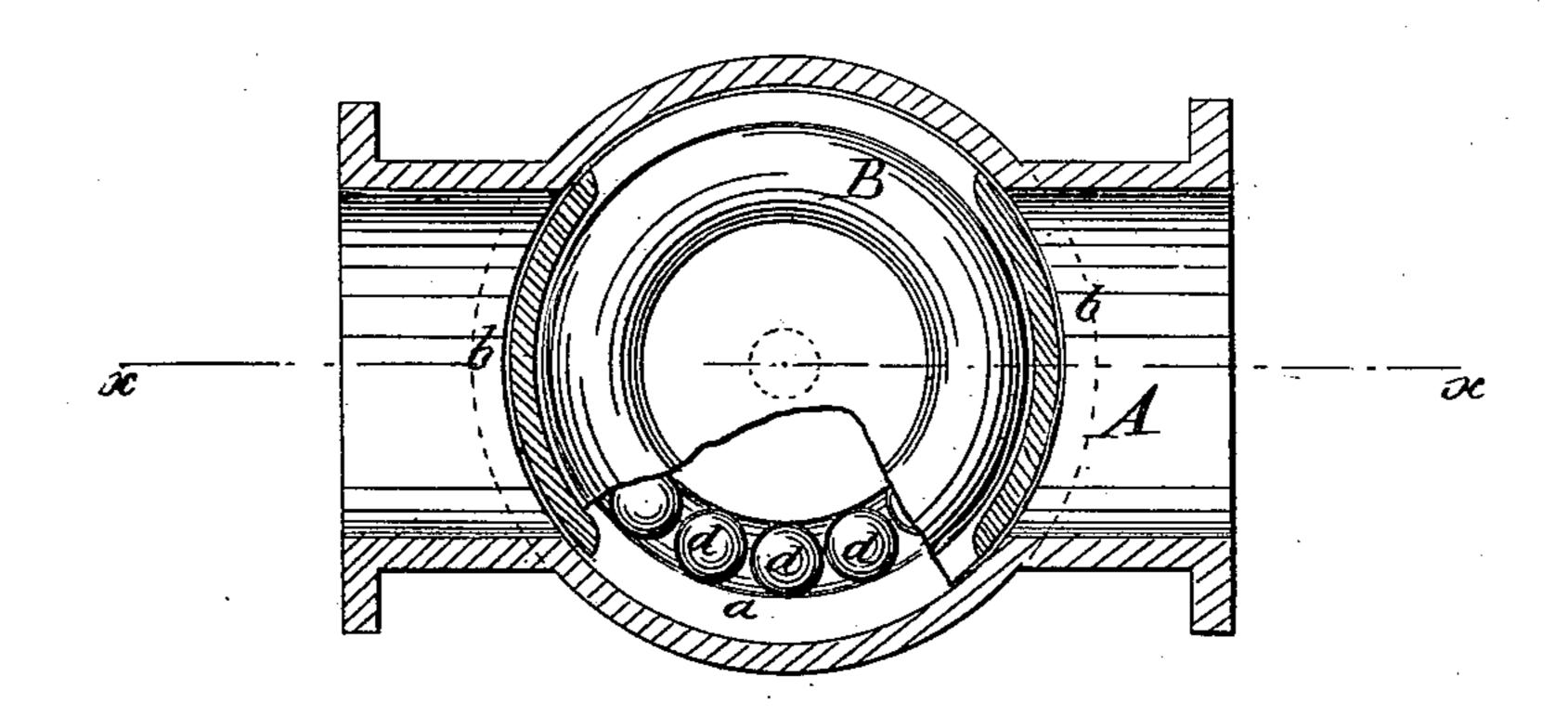


fig:h.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES D. KEEGAN, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND JAMES D. KEEGAN, JR., OF SAME PLACE.

IMPROVEMENT IN STOP-VALVES.

Specification forming part of Letters Patent No. 181,684, dated August 29, 1876; application filed July 22, 1876.

To all whom it may concern:

Be it known that I, James D. Keegan, of the city, county, and State of New York, have invented a new and Improved Stop-Valve for Water-Works, of which the following is a specification:

Figure 1 is a vertical section on line x x in Fig. 2. Fig. 2 is a section on line y y in Fig. 1. Similar letters of reference indicate correspond to the section of the

sponding parts.

The invention consists in rendering the stopvalve of water-works more easy and convenient in operation by providing the case and valve with a flange and balls, arranged as hereinafter described.

A is a casing of a valve, in the bottom of which the annular groove a is formed. B is a valve, having the staves b connecting the upper and lower portions of the valve, the whole being fitted closely to the casing A, so that the staves b will stop the passage through the valve when turned so as to cover the openings in the casing. In the bottom of the valve B an annular groove, c, is formed, which corresponds with the groove a in the bottom of the casing. When balls are used to support the valve, the grooves a and c are nearly semicircular in section; but when rollers are used the grooves are made to conform to the rollers. d are balls placed in the groove a to support the valve B. A gudgeon, e, projects from the

center of the lower end of the valve B, and has a suitable bearing in the casing A. At f there is a flange which rests in a recess in the casing and assists in supporting the valve. The upper portion of the valve B is bell-shaped, and terminates in a cylindrical stem, g, which is squared at the outer end to receive a wrench or lever. C is a hemispherical cover provided with a flange, h, which is bolted to a flange, i, on the casing A. D is a stuffing-box formed on the cover C which surrounds the stem g. If a valve is so large as to require gearing to move it, the gearing may be placed at the bottom of the casing, so that a portion of the weight of the valve may be supported by it. In very heavy valves the flange f may be provided with teeth on its periphery, and a pinion may be placed in the casing on a suitable shaft, which projects through a stuffing-box in the casing, so that it may be turned with a wrench or lever.

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

The combination of the casing A, valve B, flange f, and balls d, as shown and described.

JAMES D. KEEGAN.

Witnesses:
T. B. Mosher,
ALEX. F. Roberts.