

No. 741,267.

PATENTED OCT. 13, 1903.

L. W. NEUBLING.
VALVE.

APPLICATION FILED JAN. 5, 1903.

NO MODEL.

Fig. 2.

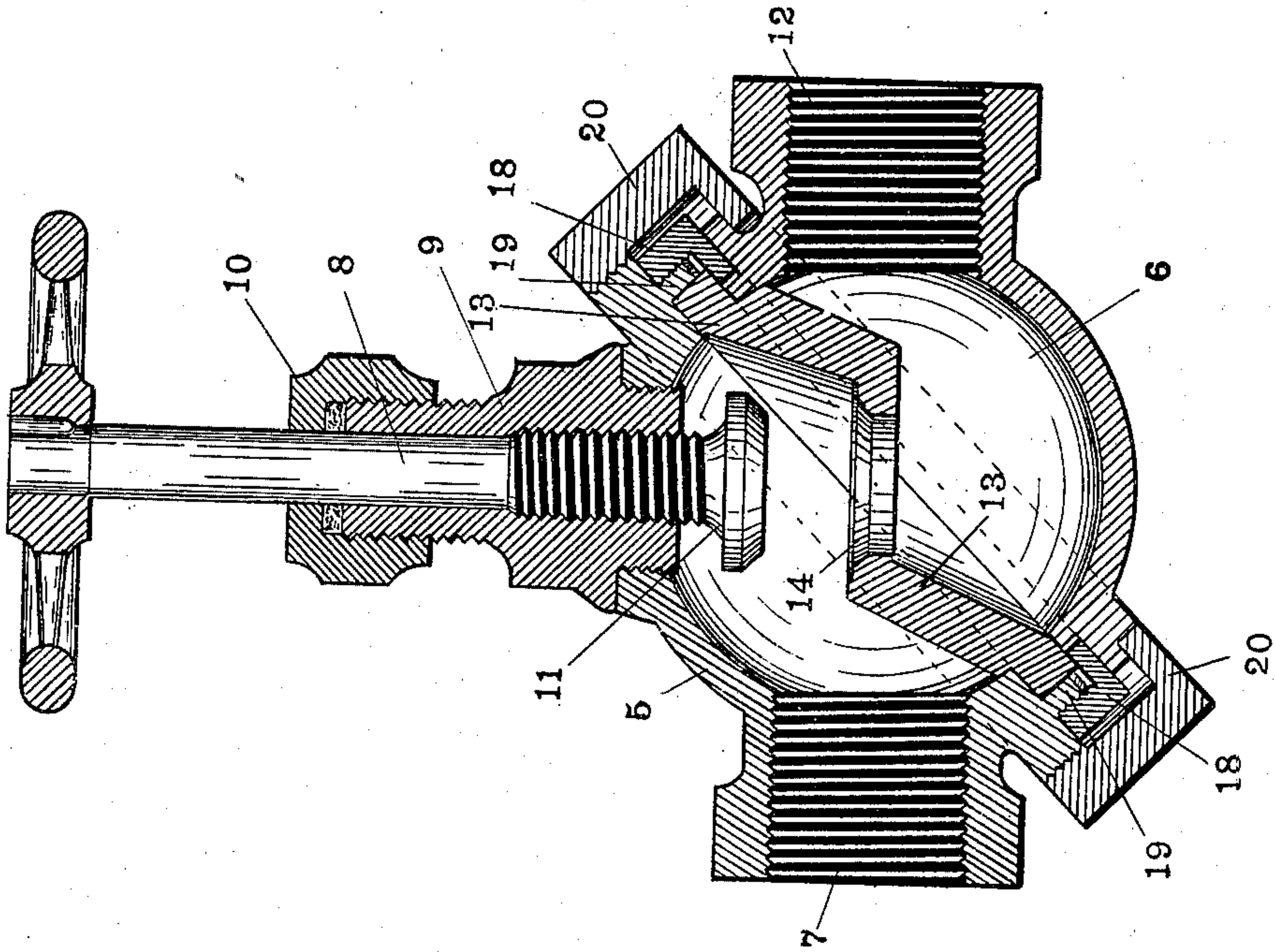
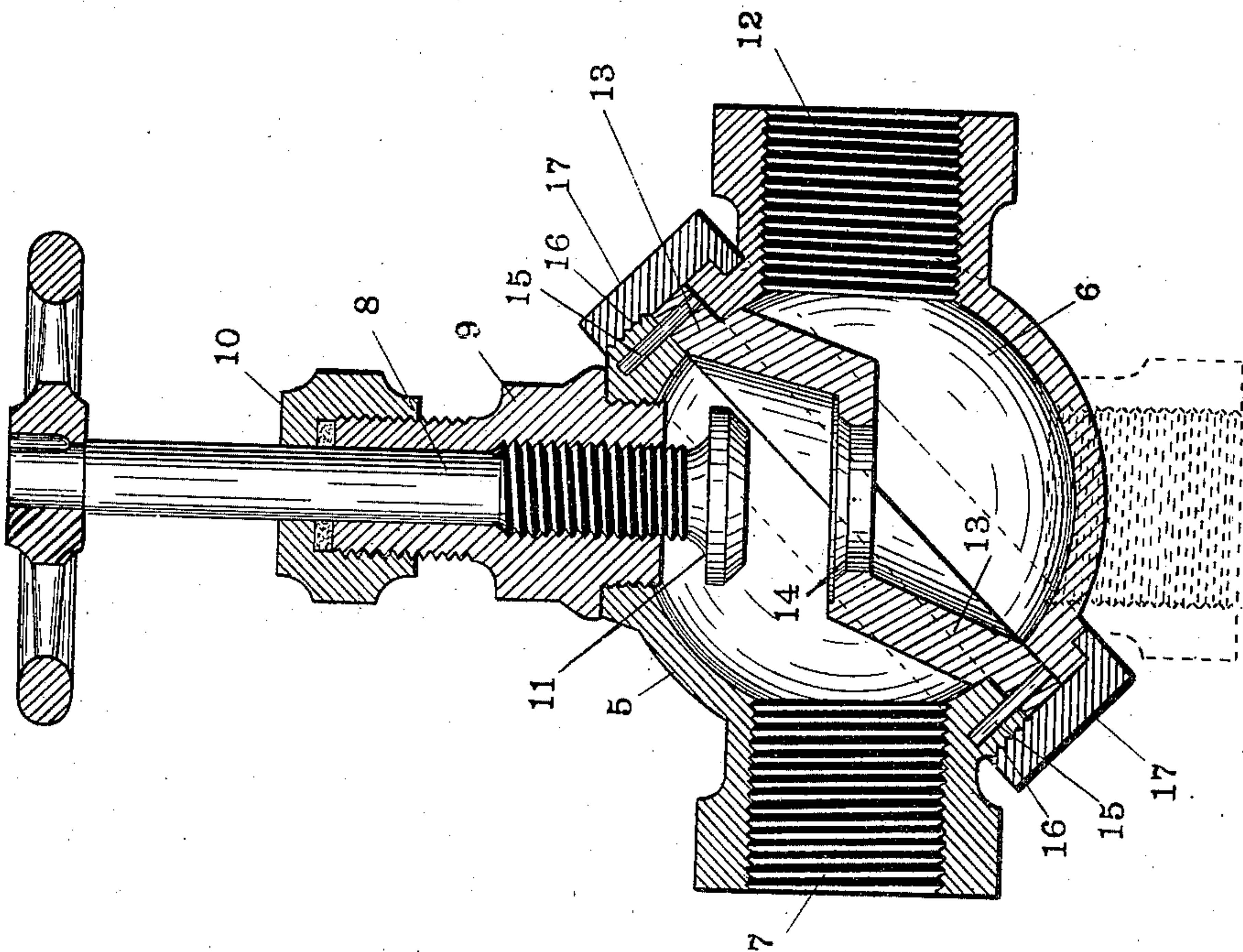


Fig. 1.



Witnesses
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UNITED STATES PATENT OFFICE.

LOUIS W. NEUBLING, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF
TO FREDERICK BERNER.

VALVE.

SPECIFICATION forming part of Letters Patent No. 741,267, dated October 13, 1903.

Application filed January 5, 1903. Serial No. 137,977. (No model.)

To all whom it may concern:

Be it known that I, LOUIS W. NEUBLING, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Valves, of which the following is a specification.

The object of my invention is to produce a valve in which the relation between the inlet and outlet may be readily and easily adjusted and in which the valve-seat partition may be readily removed and replaced.

In the accompanying drawings, which illustrate my invention as applied to a globe-valve, Figure 1 is an axial section of one form, and Fig. 2 is a similar section of a slightly-modified form.

In the drawings, 5 and 6 indicate a pair of mating body-sections, section 5 carrying an inlet 7 and the valve-stem 8, suitably mounted in plug 9, provided with a desirable packing-gland 10. Stem 8 carries a valve-head 11, of a desirable form. Body-section 6 carries an outlet 12. The two sections 5 and 6 are movable one upon the other, the dividing-plane being in the form shown at an angle of forty-five degrees to the axis of the valve-stem 8 and also at a similar angle to the axis of the inlet 7. It will be readily understood, however, that the particular angle shown is not essential. Lying between the two body-sections 5 and 6 is a valve-seat partition 13, provided with a valve-seat 14, adapted to receive the valve-head 11. Partition 13 may be formed integral with either one of the body-sections 5 and 6 or may be separable therefrom, as shown in the drawings. In Fig. 1 the partition is shown as separable and held in angular position by means of pins 15. The section 5 is externally threaded adjacent the dividing-plane, as at 16, to receive a coupling-collar 17, which engages section 5 in the usual well-known manner and serves to clamp the section 5, partition 13, and section 6 together in the manner of an ordinary union.

By loosening the coupling-collar slightly the section 6 may be rotated with relation to

section 5 about an axis normal to the dividing-plane, as indicated in dotted lines in Fig. 1, and the parts held in any desired position by tightening collar 17. By removing collar 17 section 6 may be detached from section 5 without disconnecting the sections 5 and 6 from the piping (not shown) and the valve-seat partition 13 be removed and replaced. By this means it is very easy to substitute a new valve-seat partition when one has become too worn for effective service.

The form shown in Fig. 2 differs but slightly from that shown in Fig. 1. In this form the partition 13 is separably secured to section 5 by means of collar 18, threaded upon a shoulder 19, formed on body 5, and section 6 is then secured to section 5 by means of a threaded collar 20. In this form section 6 may be separated from section 5 and the partition 13 still remain in effective position, so that, if the inlet be in section 5, the valve is still effective as a stop at the point of disconnection, even when the section 6 has been detached. This form therefore may serve both as an adjustable valve and as a valved union.

I claim as my invention—

A valve consisting of an inlet-section and an outlet-section mating upon a plane intersecting the axes of the inlet and outlet, a valve carried by one of said sections substantially at right angles to the axis of the opening therein, a valve-seat partition lying between the two sections in the mating plane and having a valve-seat displaced from the plane of the partition and substantially normal to the axis of the valve, means for detachably clamping the valve-seat partition upon the valve-stem section, and independent means for clamping the two sections together with the valve-partition between.

In witness whereof I have hereunto set my hand and seal at Indianapolis, Indiana, this 2d day of January, A. D. 1903.

LOUIS W. NEUBLING. [L. S.]

Witnesses:

ARTHUR M. HOOD,
JAMES A. WALSH.