

M. R. Colvin,

Globe Valve.

No. 94,715.

Patented Sept. 14, 1869.

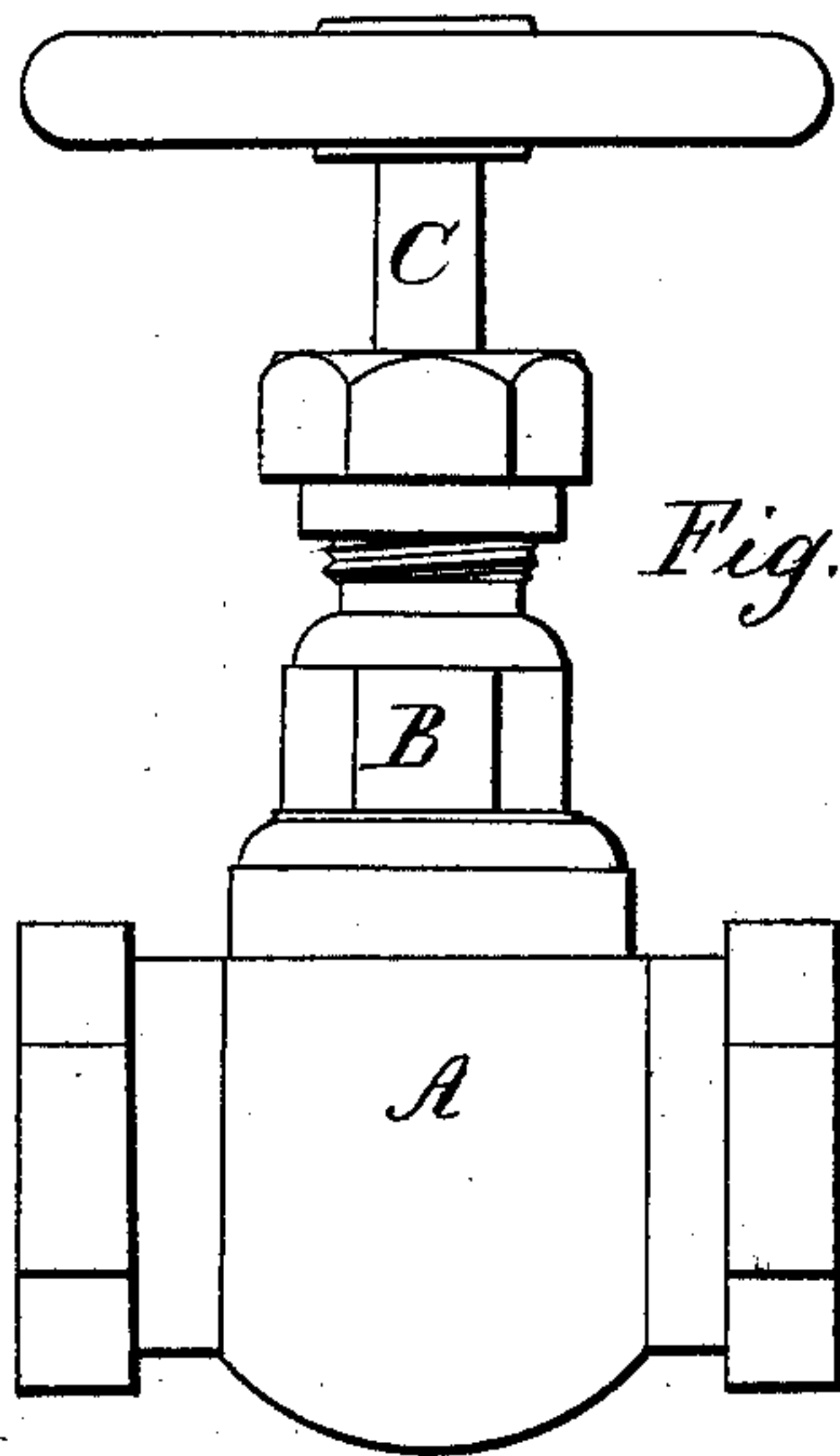


Fig. 1

Fig. 3

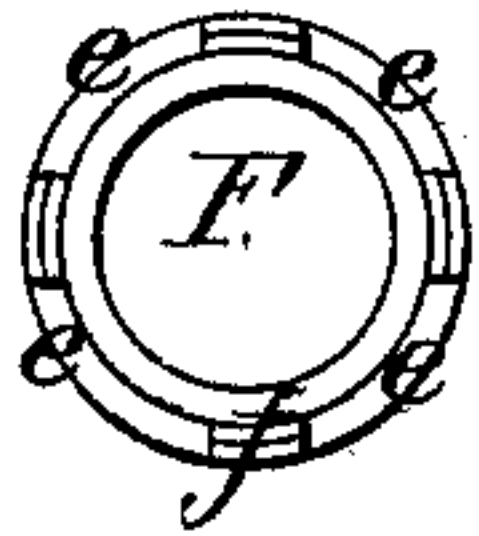


Fig. 4

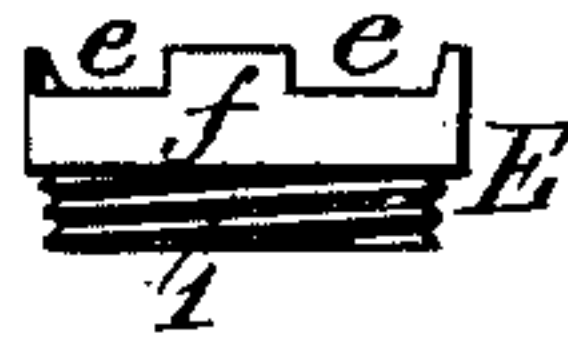
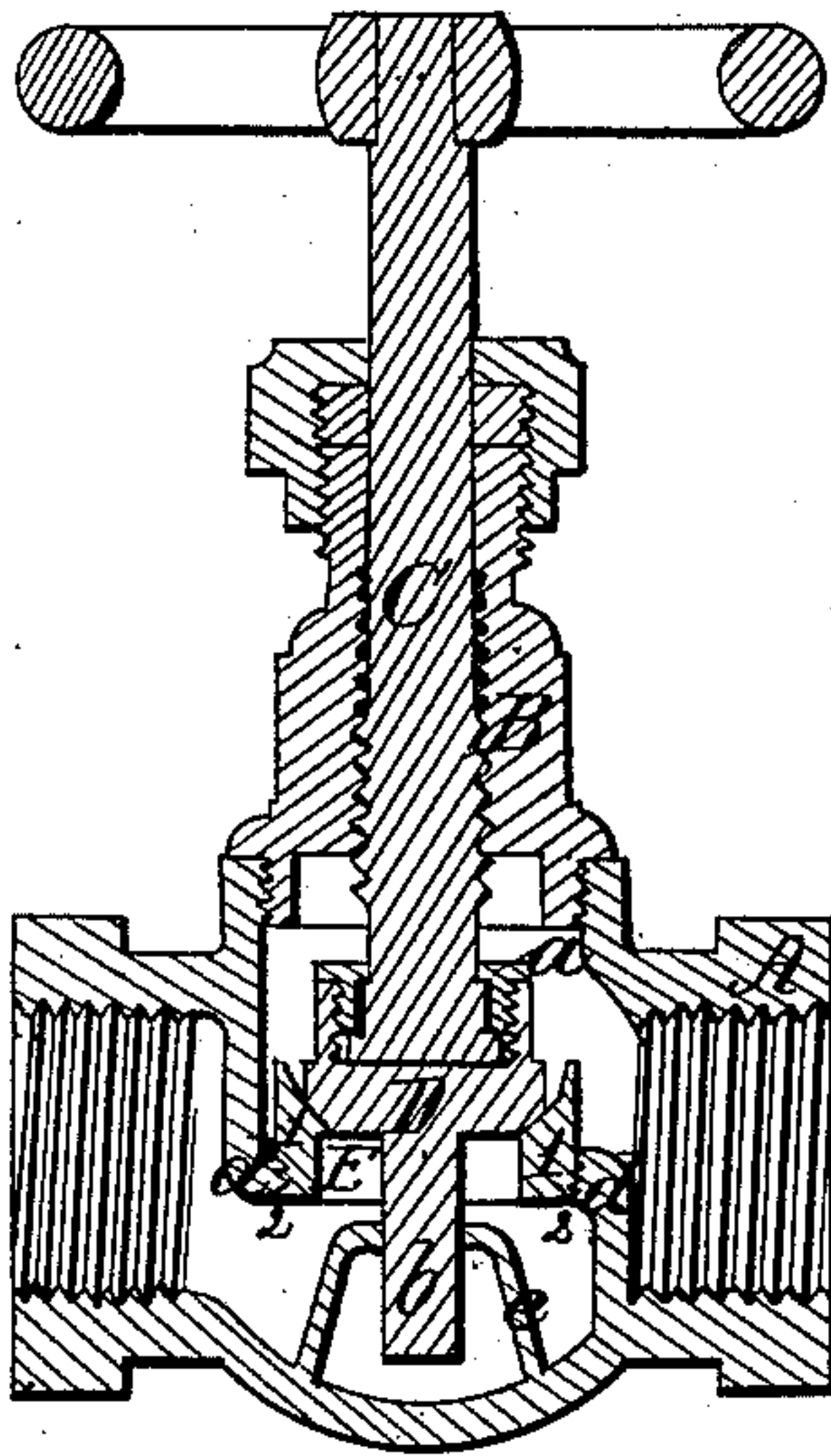


Fig. 2



Witnesses

Albert E. Coates
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Inventor

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M. R. COLVIN, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 94,715, dated September 14, 1869.

IMPROVEMENT IN GLOBE-VALVES.

The Schedule referred to in these Letters Patent and making part of the same.

Know all men by these presents:

That I, M. R. COLVIN, of the city and county of Worcester, and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Globe-Valves; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a side view of the same;

Figure 2 represents a vertical central section;

Figure 3 represents a top or plan view of the auxiliary valve-seat; and

Figure 4 represents a side view of the same.

To enable those skilled in the art to which my invention belongs, to make and use the same, I will proceed to describe it more in detail.

The nature of my invention consists in the construction and arrangement, with the main part of the valve, of an auxiliary metal valve-seat, as hereafter explained.

In the drawings—

A is the body of the valve;

B, the cap; and

C, the valve-stem, to the bottom of which is secured the valve D, said parts being constructed as fully indicated in the drawings.

The valve D is secured to the lower end of the valve-stem by means of a cap, *a*, in such a manner that the valve has a yielding connection with the stem.

The lower end, *b*, of the valve passes down through a guide-piece or stand, *c*.

E is an auxiliary metal valve-seat, provided with a

screw-thread, 1, to fit the thread 2, cut in the separating-part *d*, which forms the valve-seat in the ordinary valve.

Notches, *e*, are cut in the upper flanged part, *f*, of the auxiliary metal valve-seat, by means of which it can be turned in and out by a forked wrench made for that purpose.

If preferred, a leather or lead washer may be inserted between the auxiliary valve-seat and the part *d*.

In case the auxiliary valve-seat becomes worn or scratched, it can be taken out and turned true again, at a trifling expense, or a new one substituted therefor.

It will be seen by my invention, that the main parts of the valve do not have to be thrown away, or even removed from their connections, in order to repair the valve-seat, thus obviating the many objections to the use of the common globe-valve.

Another practical advantage attending my invention is due to the fact that the improvement can be applied to old and condemned valves, thereby rendering them as serviceable as new valves.

Having described my improved globe-valve,

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

The construction and arrangement, in the bridge or separating-piece *d*, of the notched auxiliary metal valve-seat E, substantially as herein described.

M. R. COLVIN.

Witnesses:

ALBERT E. PEIRCE,

GEO. H. MILLER.