

E. H. Ashcroft,
Check Valve.

N^o 83,588.

Patented Nov. 3, 1868.

Fig. 3.

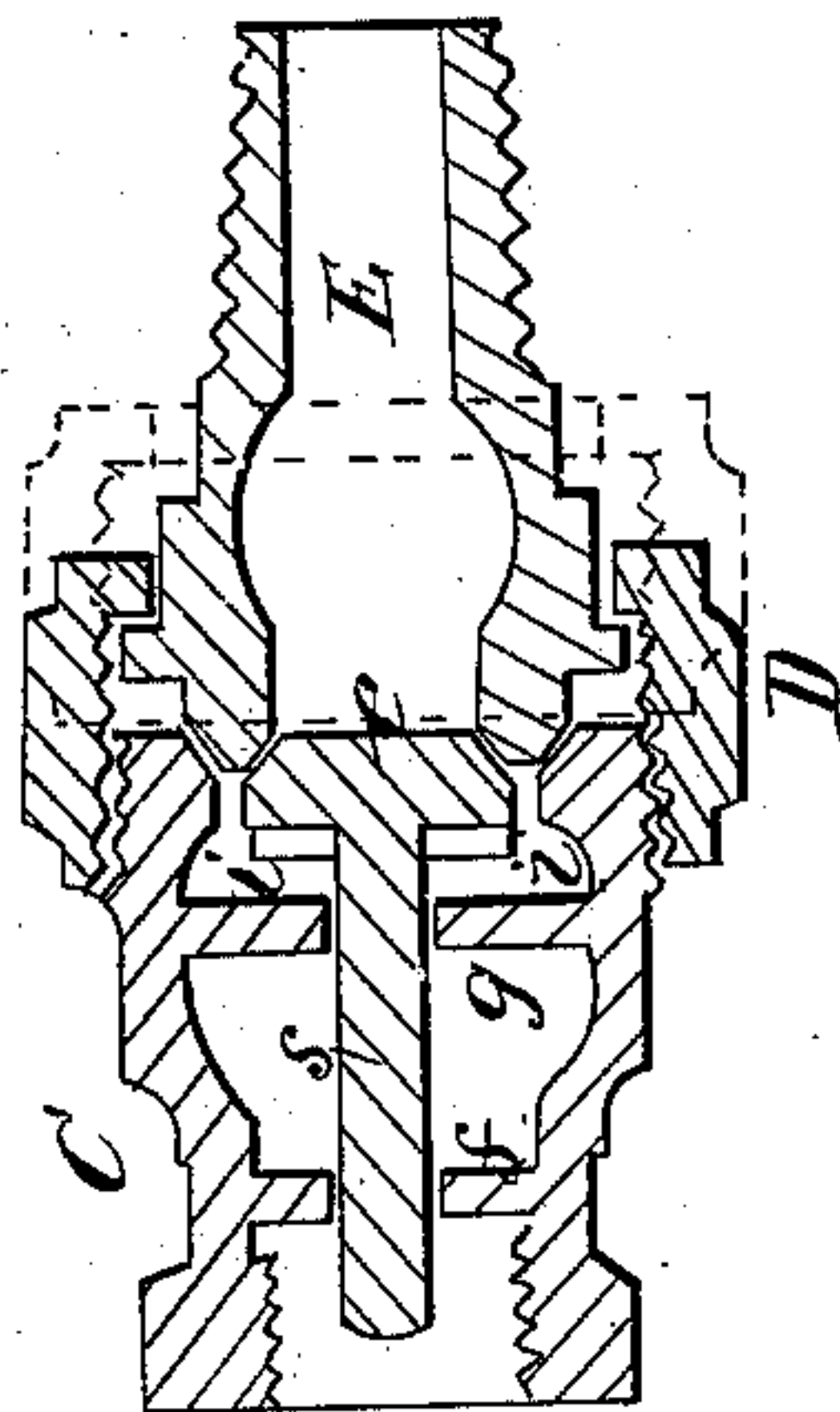


Fig: 2,

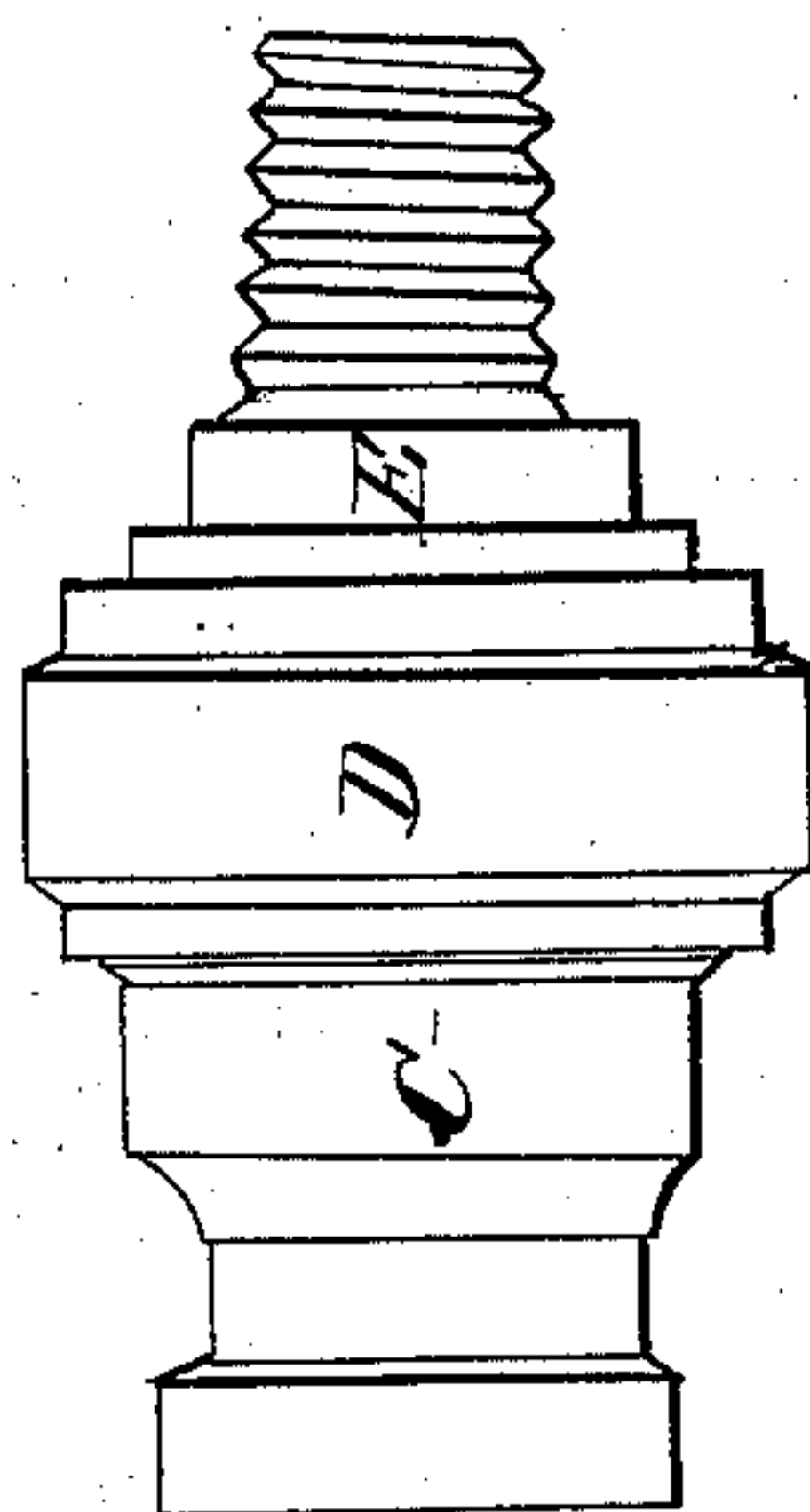
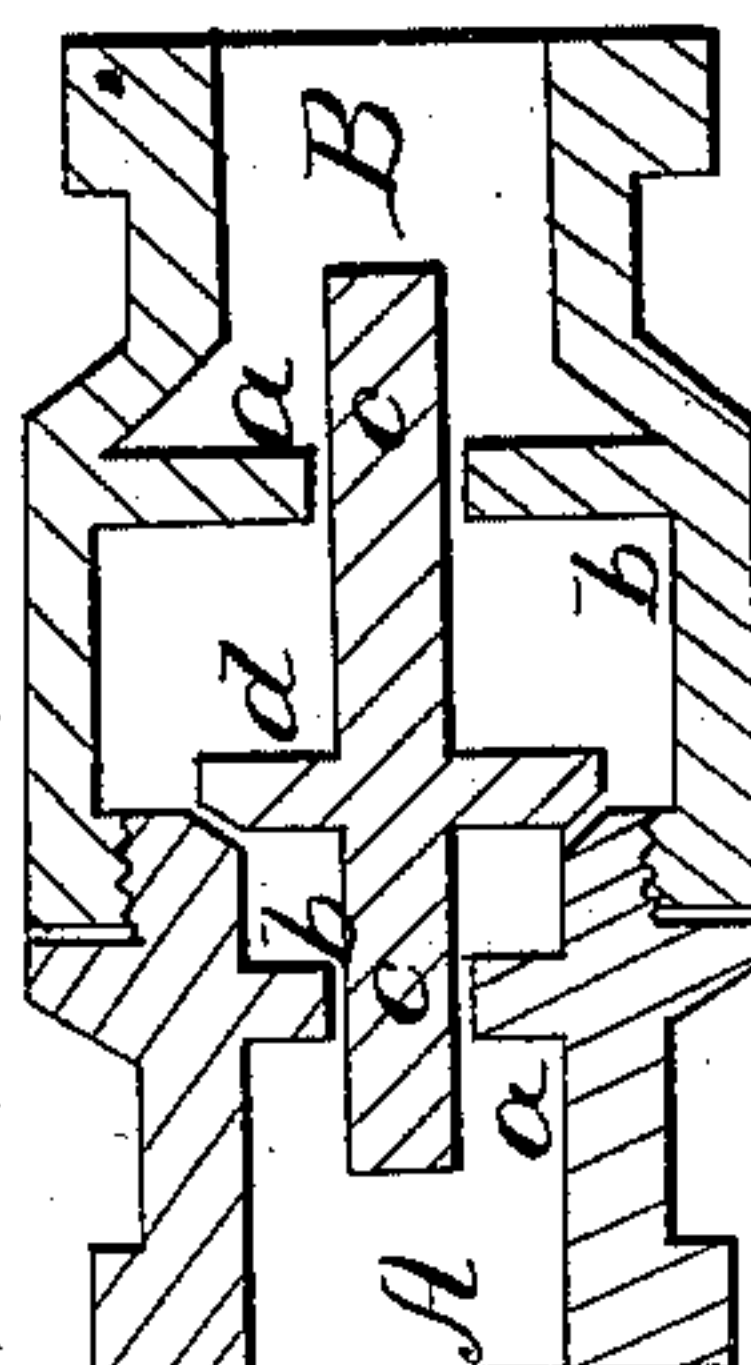


Fig. 1.



Witnesses,

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by his atty
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E. H. ASHCROFT, OF LYNN, MASSACHUSETTS.

Letters Patent No. 83,588, dated November 3, 1868.

IMPROVEMENT IN STEAM AND WATER CHECK-VALVES.

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

To all whom it may concern:

Be it known that I, E. H. ASHCROFT, of the city of Lynn, county of Essex, in the State of Massachusetts, have invented a new and useful Improvement in Check-Valve for Steam-Pumps, Steam-Boiler, and other Apparatus; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, in which like parts are indicated by like letters in the several figures.

The nature of my invention consists in the construction and arrangement of parts relating to a check-valve and union joint.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the drawings—

Figure 2 represents an elevation of my invention, and

Figure 3, a longitudinal axial section of the same; whilst

Figure 1 is a similar section of the common check-valve.

In this last figure it will be seen that the body of the valve is made of two pieces, A B, the one screwing into the other, and each section having a guide-piece, *a b*, for the stem *c* of valve *d*.

To make repairs, it is necessary, with such a valve, to break the pipe. The object of my invention is to prevent such a necessity, the advantage of which is obvious.

In figs. 2 and 3, C represents the body of my valve, D and E completing it, at the same time forming a joint, the former being a nut connecting C and E, or the pipe together, E forming a seat for valve *e*, the stem *s* of which passes through the two guide-pieces *f* and *g*, which form a part of the body C.

The coupling or connection of parts C, D, and E is readily seen by the section, fig. 3. To disconnect these parts for repairs, it is only necessary to run back the nut D, as seen in red lines; C and D being disconnected, C and E can readily be, and the valve *e* and its seat are accessible for repairs, &c.

The rear end of the valve *e* may be recessed, and a rubber washer, *i*, be fitted in the said recess, which, when the valve is violently forced back, will break the concussion, relieving the shock, and avoid the breaking of the valve, its stem, or guides.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The construction of the piece E, and its arrangement in relation to the valve-piece *e*, piece C, and union-joint piece D, substantially as shown and described.

E. H. ASHCROFT.

Witnesses:

EDWIN J. WRIGHT,
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