

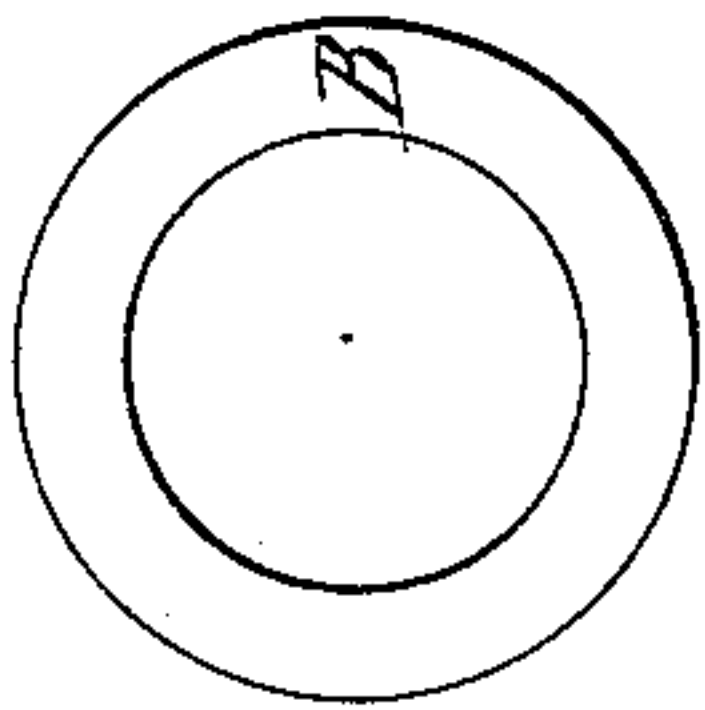
*E. M. Wright,*

*Nozzle,*

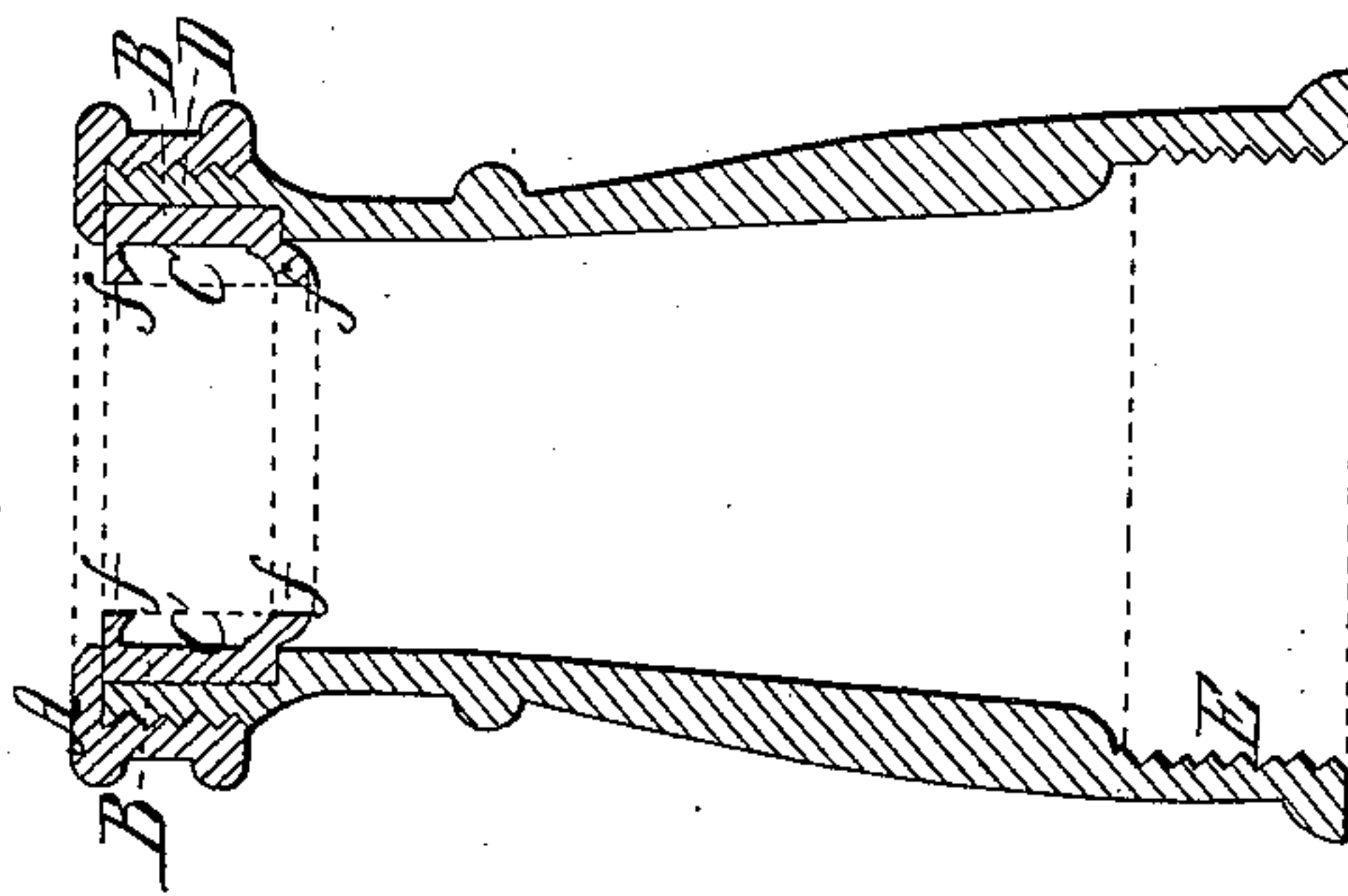
*N<sup>o</sup> 33,504.*

*Patented Oct. 15, 1861.*

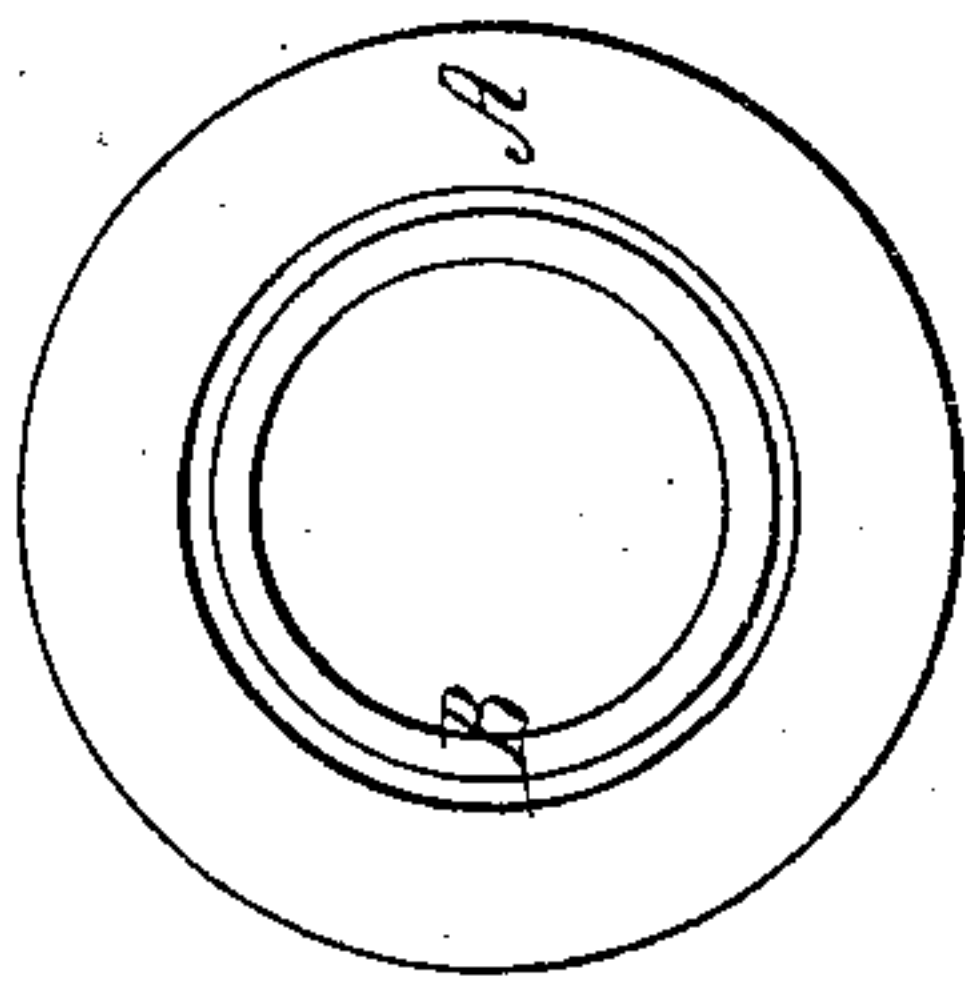
*Fig. 3*



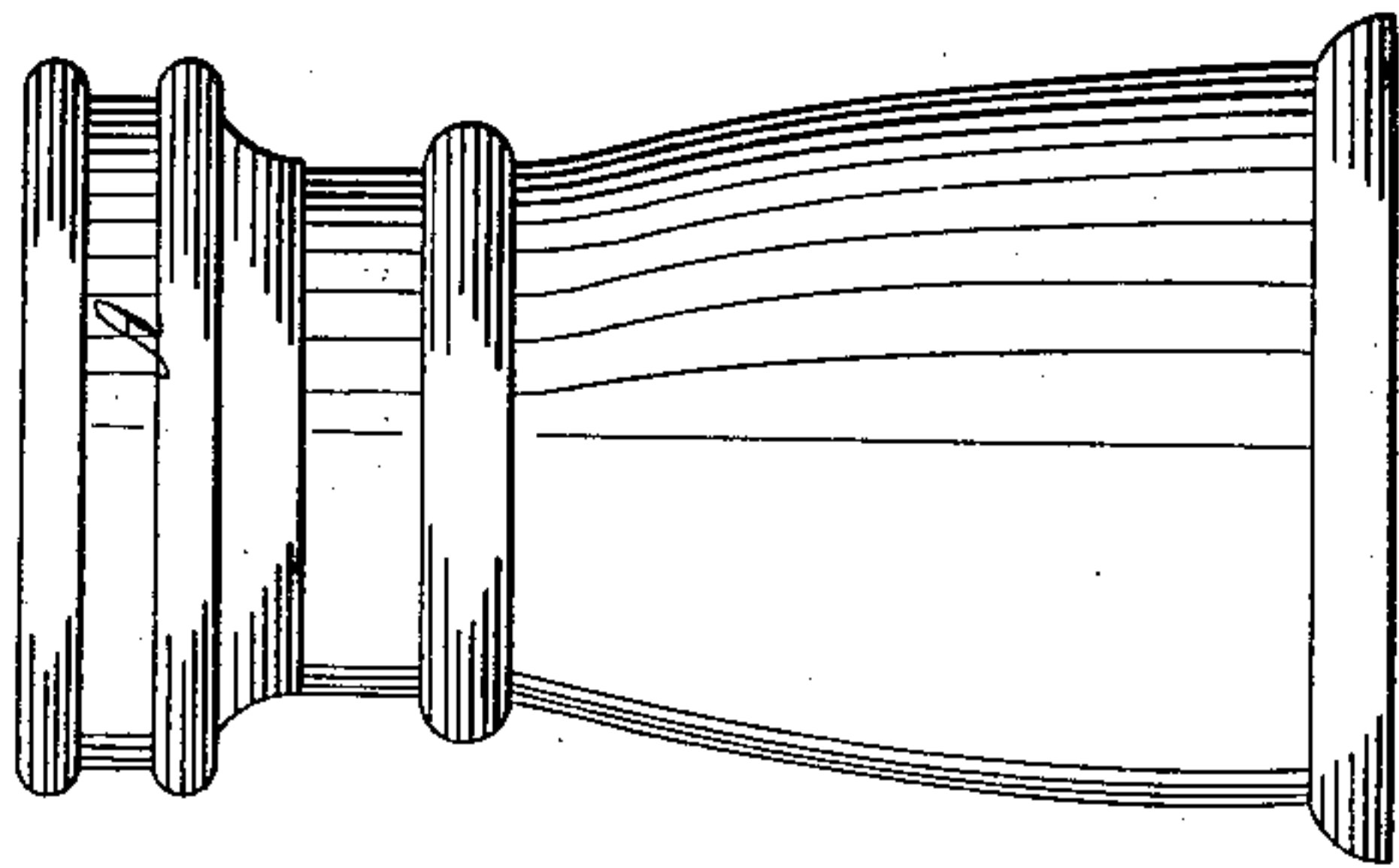
*Fig. 2*



*Fig. 4*



*Fig. 1*



*Witnesses*  
*W. P. Hiers*  
*W. P. Miller*

*Inventor*  
*E. M. Wright*

# UNITED STATES PATENT OFFICE.

EDWARD M. WRIGHT, OF MARYSVILLE, CALIFORNIA.

## IMPROVEMENT IN NOZZLES FOR HOSE-PIPES.

Specification forming part of Letters Patent No. **33,504**, dated October 15, 1861.

*To all whom it may concern:*

Be it known that I, EDWARD M. WRIGHT, of Marysville, in the county of Yuba, in the State of California, have invented a new and Improved Mode of Constructing Nozzles for Hydraulic Pipes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing the end of the nozzle with a chamber, whereby a sudden expansion of the water as it leaves the nozzle is effectually avoided and a smooth solid stream produced.

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

I construct a nozzle in the ordinary manner, as shown in Figure 1. Fig. 2 is a sectional view longitudinal through the center.

C is the chamber formed by the projections *f* on collar B. Fig. 3 is a top view of collar B, which is fitted to the chamber in the nozzle at D, and secured in its place by the adjustable cap A, Fig. 4.

Like letters refer to like parts in the several drawings.

I disclaim the movable ring B and the manner of adjusting the same, it having been used before.

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

The use and application of the water-chamber C, formed by the projections *ff*, for the use and purpose and in the manner substantially as set forth.

E. M. WRIGHT.

Witnesses:

W. F. HICKS,  
W. P. MILLER.