

(No Model.)

J. M. SMITH.

TRUMPET FOR RAILWAY HEADS.

No. 257,095.

Patented Apr. 25, 1882.

Fig. 1.

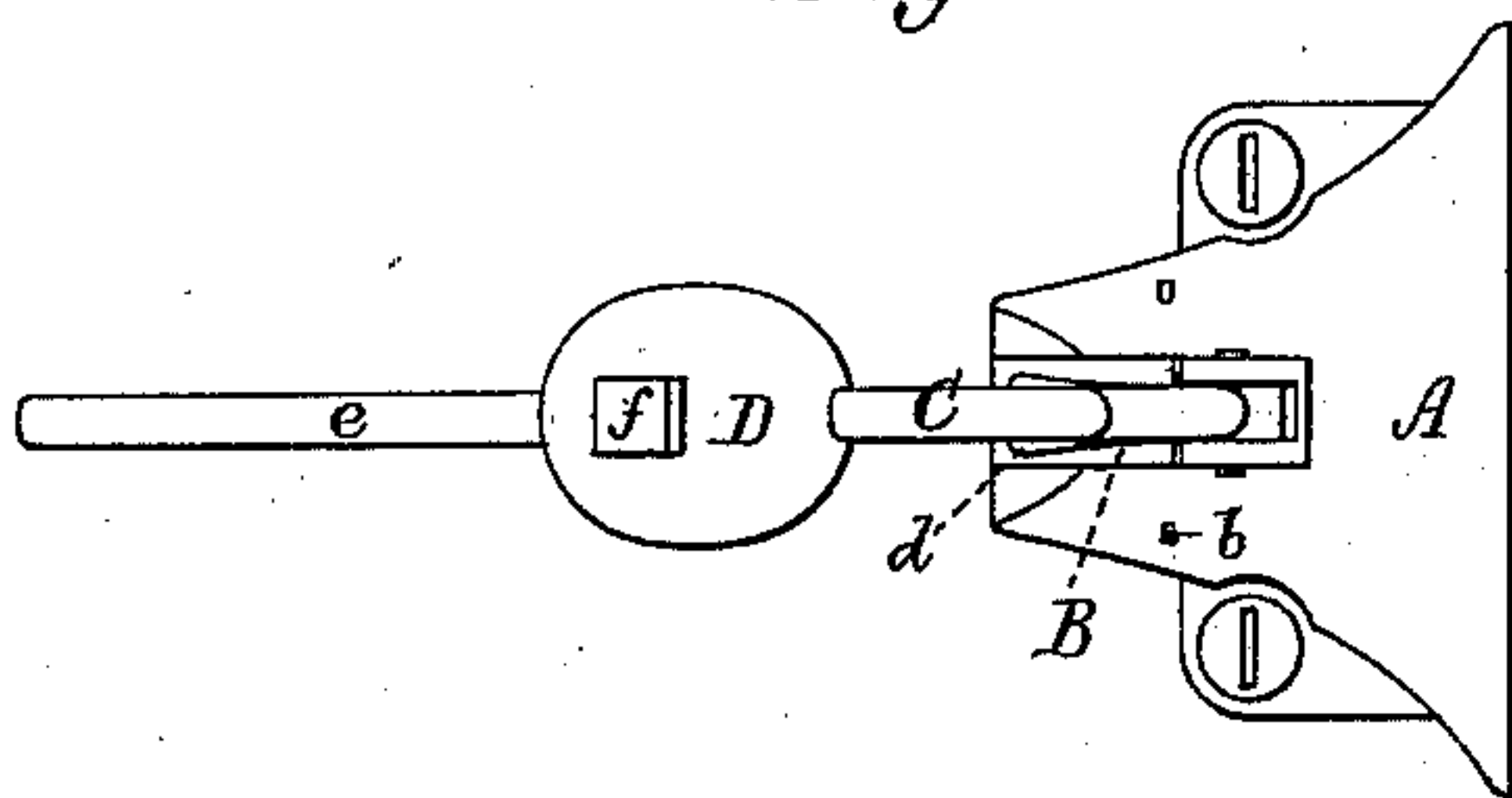


Fig. 3.

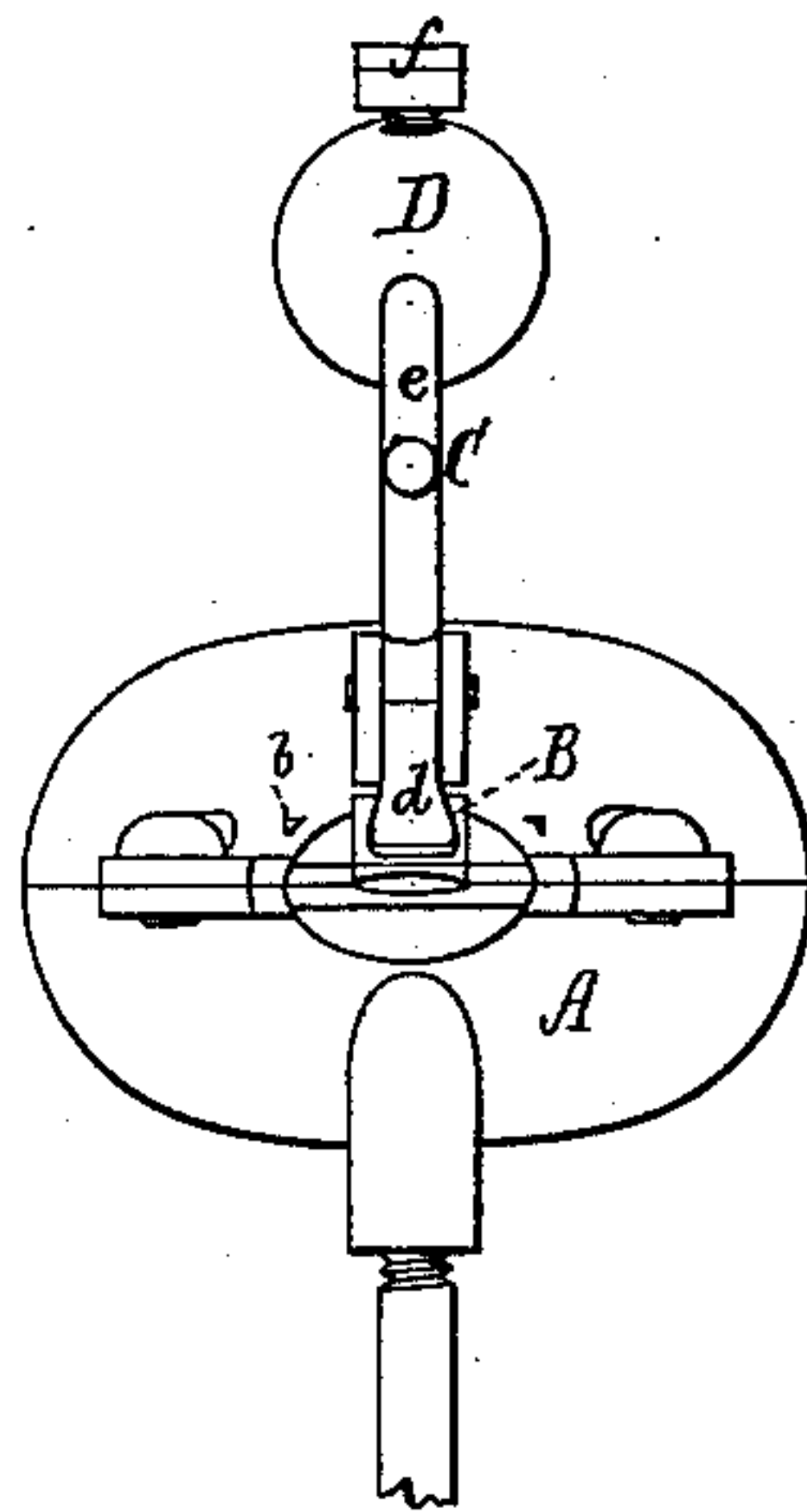


Fig. 2.

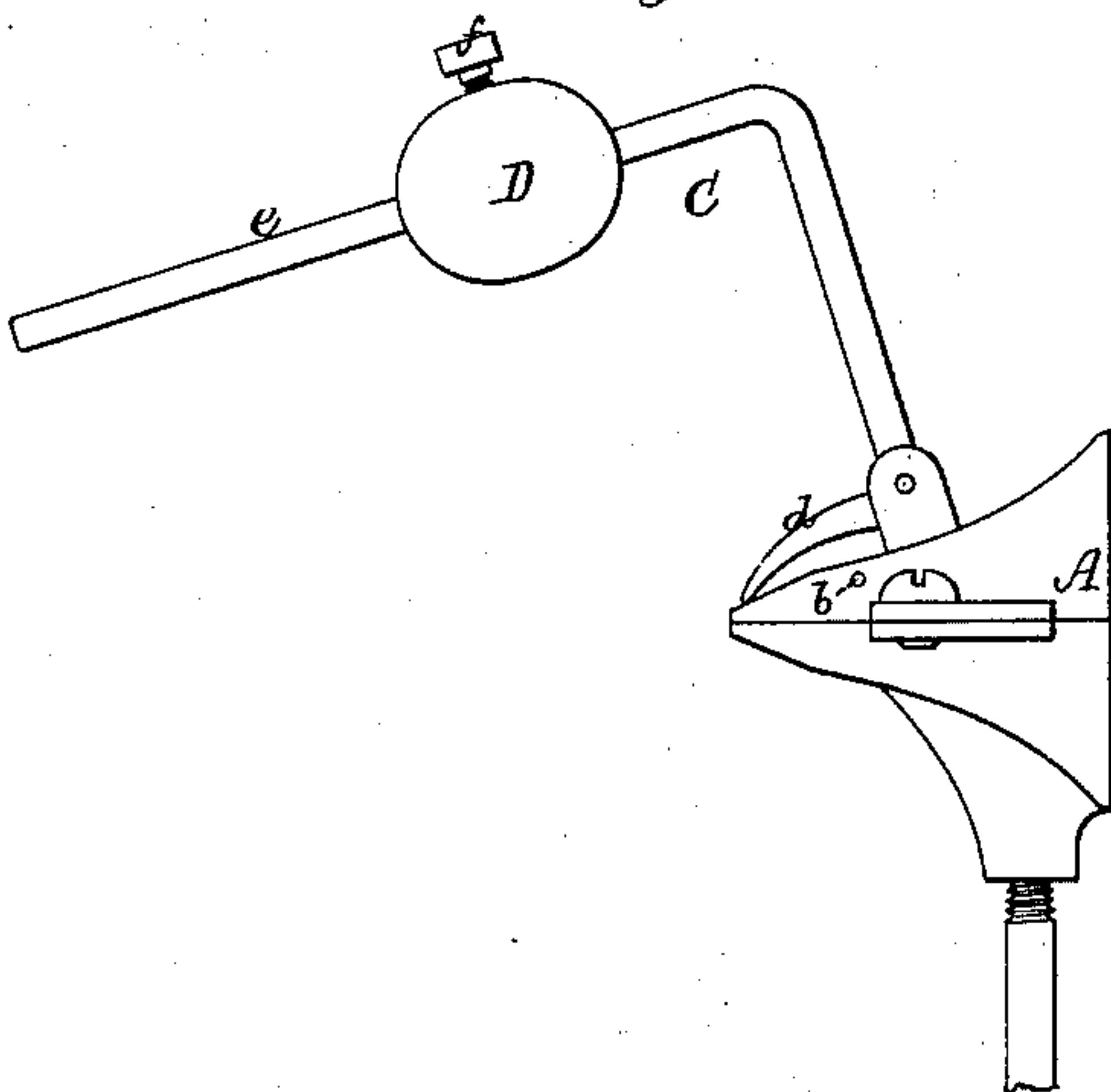
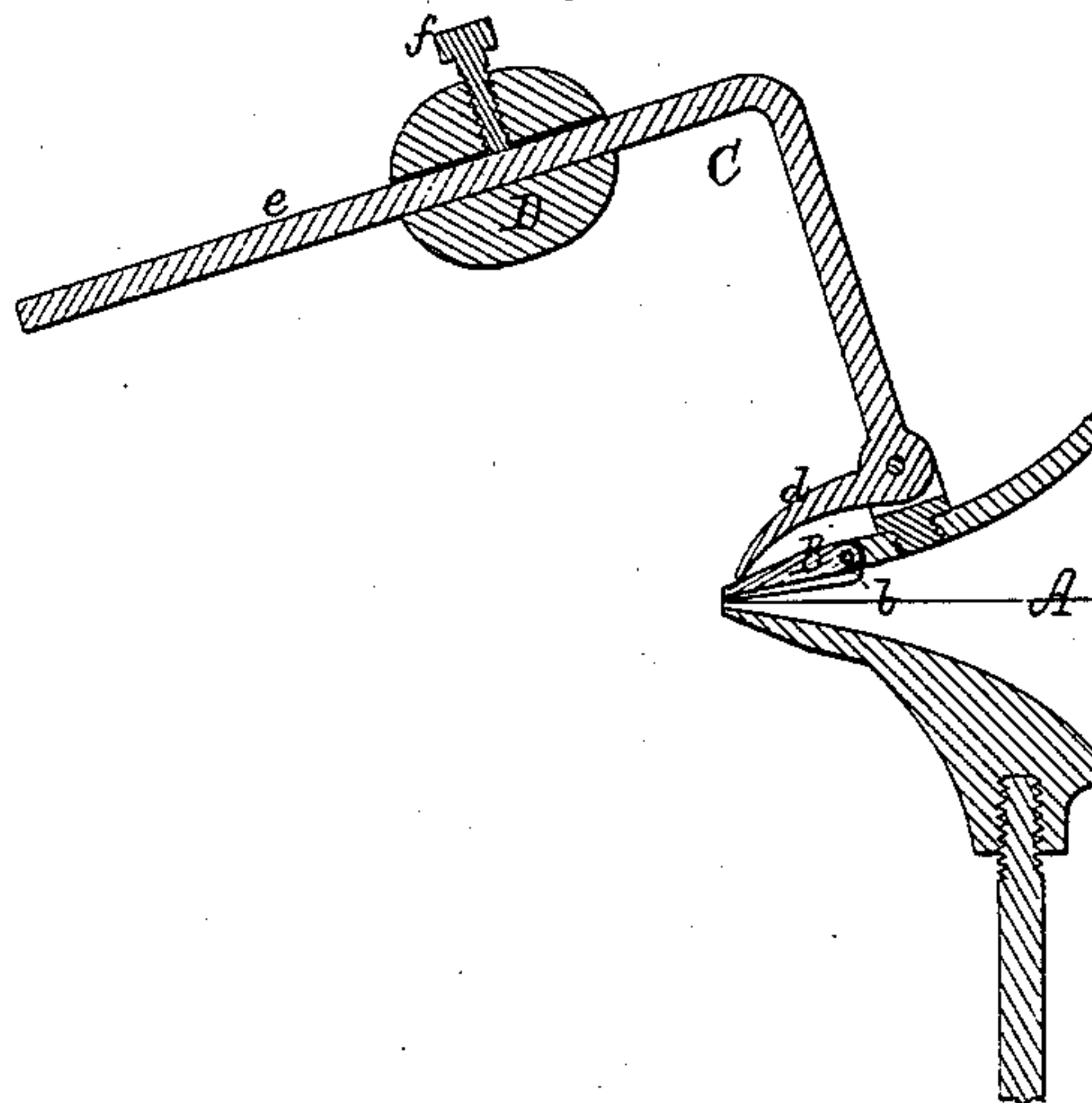


Fig. 4.



Witnesses.

S. N. Piper
E. B. Pratt

Inventor.

James Monroe Smith.
by R. H. Ledy atty

UNITED STATES PATENT OFFICE.

JAMES MONROE SMITH, OF LONSDALE, RHODE ISLAND.

TRUMPET FOR RAILWAY-HEADS.

SPECIFICATION forming part of Letters Patent No. 257,095, dated April 25, 1882.

Application filed December 8, 1881. (No model.)

To all whom it may concern:

Be it known that I, JAMES MONROE SMITH, of Lonsdale, of the county of Providence, of the State of Rhode Island, have invented a new and useful Improvement in Trumpets for Railway-Heads; and I do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a side elevation, Fig. 3 a rear elevation, and Fig. 4 a longitudinal section, of a trumpet provided with my invention, the nature of which is defined in the claim hereinafter made.

For varying the size of the throat of a railway-head trumpet to accommodate it to slivers of different sizes there has been applied to the throat an adjustable rigid gate. My invention is not of such character nor for such purpose, it being to accommodate the throat of the trumpet to the sliver, as it may become enlarged or contracted by moisture or atmospheric changes. In a moist or damp atmosphere the sliver becomes contracted, and as the atmosphere may become less moist the sliver is enlarged. These changes in it affect its draft on the trumpet, and consequently cause variations in the size of the yarn made from the sliver. With my invention the movable tongue of the trumpet-throat automatically adapts itself to the variations in the sliver, so as to cause it to maintain equality of draft on the trumpet.

In the drawings the trumpet is shown at A, it having at its throat a tongue, B, pivoted at

its rear part to the trumpet, so as to readily move upward and downward within the throat, the pivotal pin being shown at *b*.

To the trumpet there is fulcrumed a bent lever, C, whose shorter arm, *d*, bears downward upon the said tongue, the longer arm, *e*, being bent at a right angle, and having upon it an adjustable or sliding weight, D, provided with a screw, *f*, to fix it in position on the arm. By adjusting this weight on the arm the necessary yielding pressure on the tongue may be obtained, as the sliver may require. A mechanical equivalent for such a lever and weight would be a spring and a screw or means of varying the pressure of such spring on the tongue, such devices being used by me sometimes in the place of the bent lever and its adjustable weight, although I prefer such lever and weight.

On the sliver becoming varied transversely in its size the tongue will yield to the variations and still maintain equality of pressure on the sliver.

What I claim as my invention is—

The improved railway-head trumpet, substantially as described, having to its throat the pivoted tongue, and also having the bent lever and adjustable weight to operate with such tongue, essentially in manner and for the purpose set forth.

JAMES MONROE SMITH.

Witnesses:

R. H. EDDY,
E. B. PRATT.