

(No Model.)

W. SHAW.  
BLACKSMITH'S FORGE.

No. 287,180.

Patented Oct. 23, 1883.

Fig. 1.

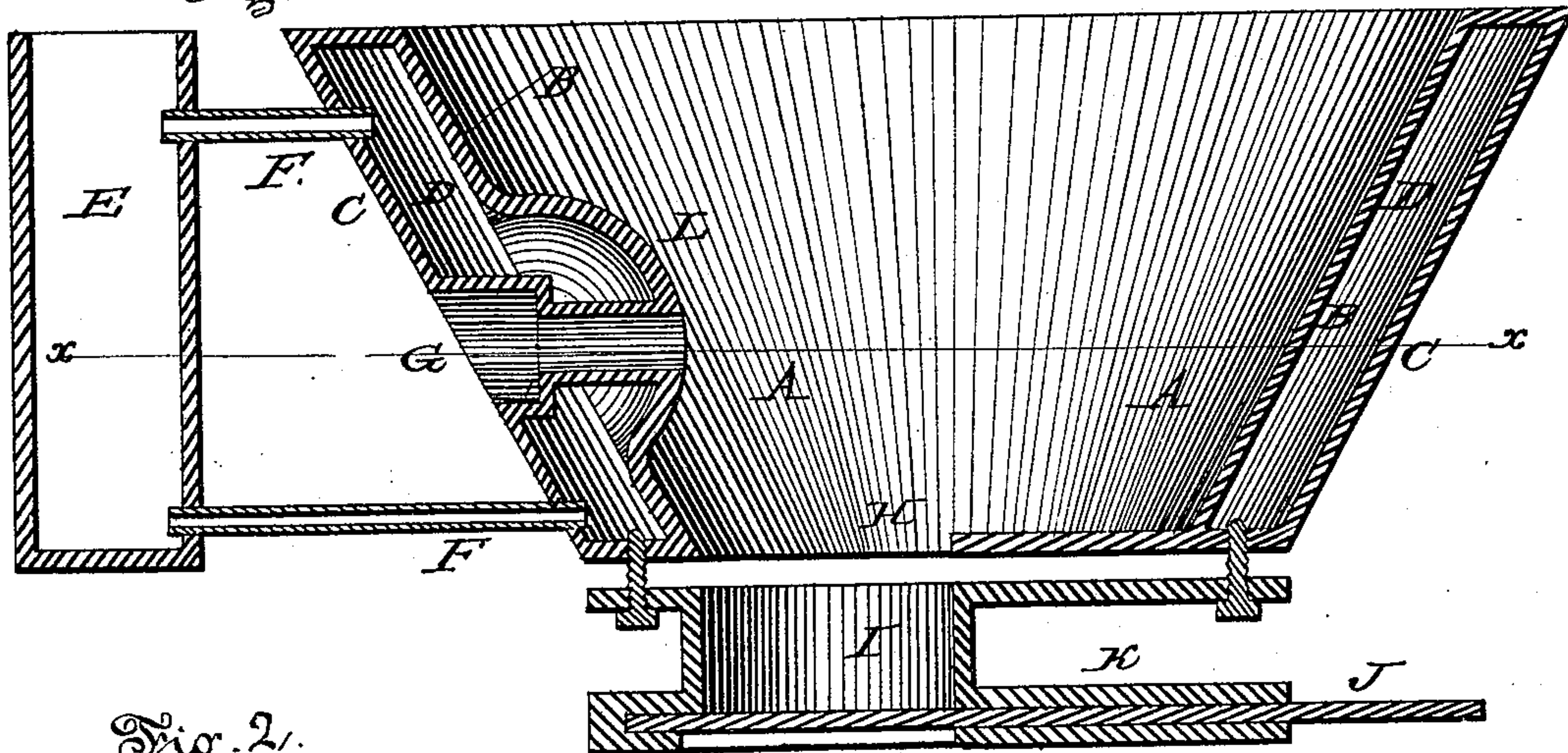


Fig. 2.

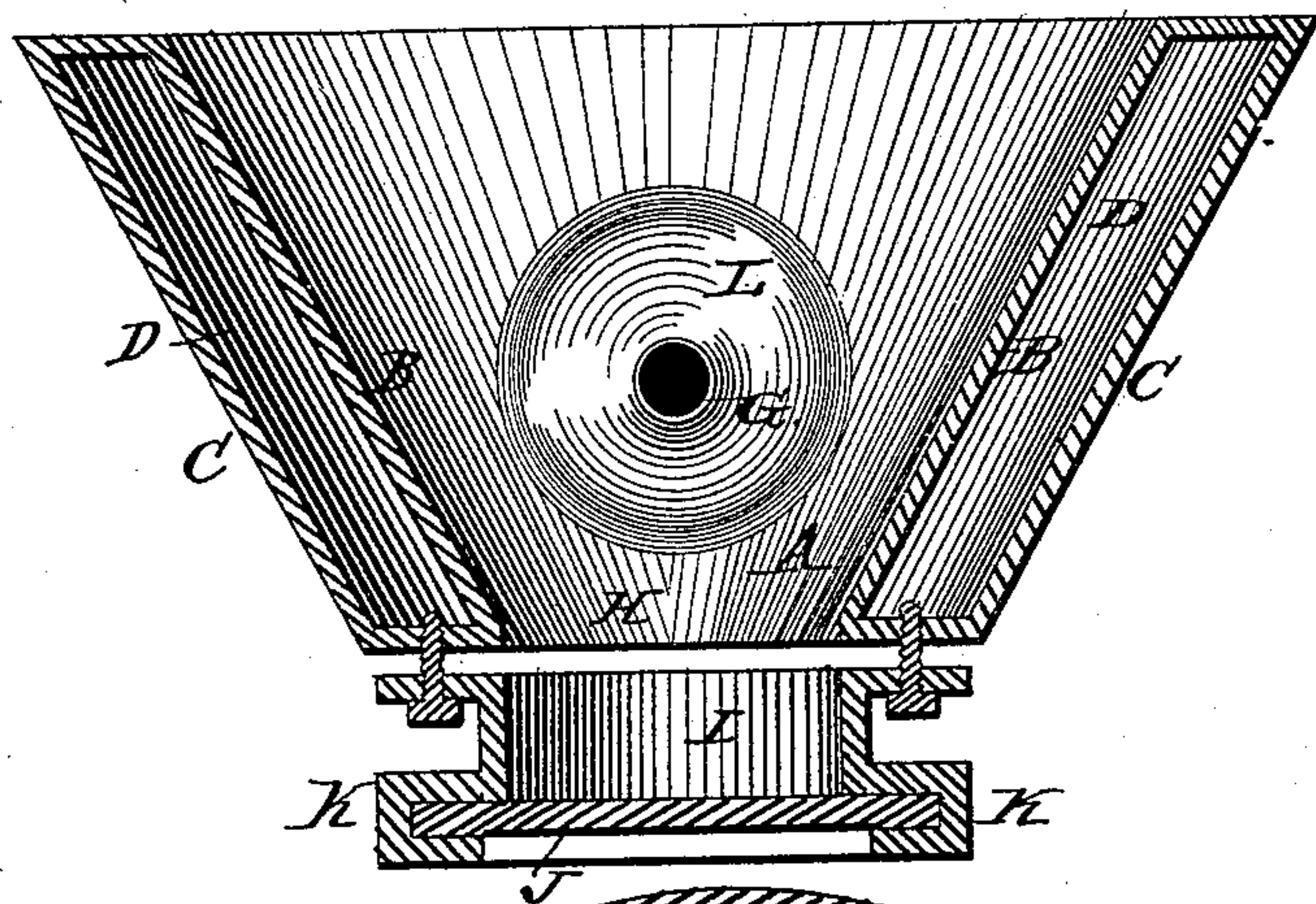
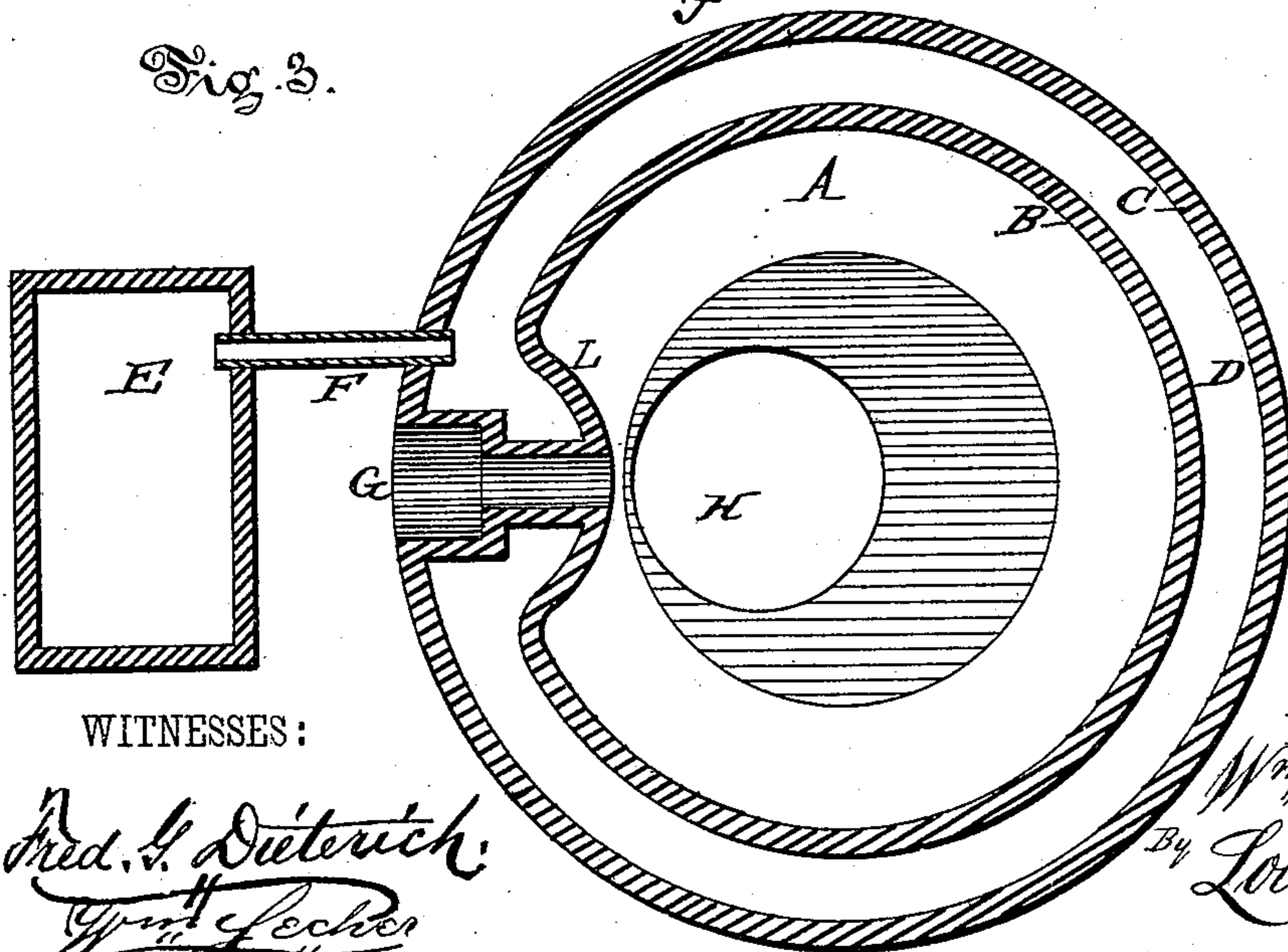


Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM SHAW, OF BAY CITY, MICHIGAN.

## BLACKSMITH'S FORGE.

SPECIFICATION forming part of Letters Patent No. 287,180, dated October 23, 1883.

Application filed March 26, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM SHAW, of Bay City, in the county of Bay and State of Michigan, have invented certain new and useful Improvements in Blacksmiths' Forges; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal vertical sectional view of my improved blacksmith's forge. Fig. 2 is a vertical cross-section, and Fig. 3 is a horizontal section of the same on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to blacksmith's forges; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the fire-pot, which consists of an inner and an outer casing, B and C, forming a water-space, D, between them, which is connected to a water-tank, E, by two or more pipes, F.

The blast-pipe or tuyere G passes through the sides of the casings and opens into the fire-pot near the bottom, which has an opening, H, which extends downward through a wide

tube, I, the lower end of which is closed by a slide, J, sliding in ways K under the end of tube I.

It will be seen by reference to the drawings that the inner casing forms an inward bulge, L, around the inner end of the blast-tube, keeping it cool at the point where it opens into the fire. By this construction the fire-pot is continually kept cool, preventing it from becoming burned out, and it may be cleaned in a moment of time by opening slide J, allowing the coal and cinders to drop out, when the fire-pot may be filled and a fire started again.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The herein-described blacksmith's forge, consisting of the fire-pot A, having inner casing, B, and outer casing, C, forming water-space D, and having bottom opening, H, water-tank E, water-pipes F, blast-tube G, surrounded by bulge L in the inner casing, bottom tube, I, and slide J, sliding in way K, all constructed, combined, and arranged as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

WILLIAM SHAW.

Witnesses:

A. S. PARKE,

W. W. HODGKINS.