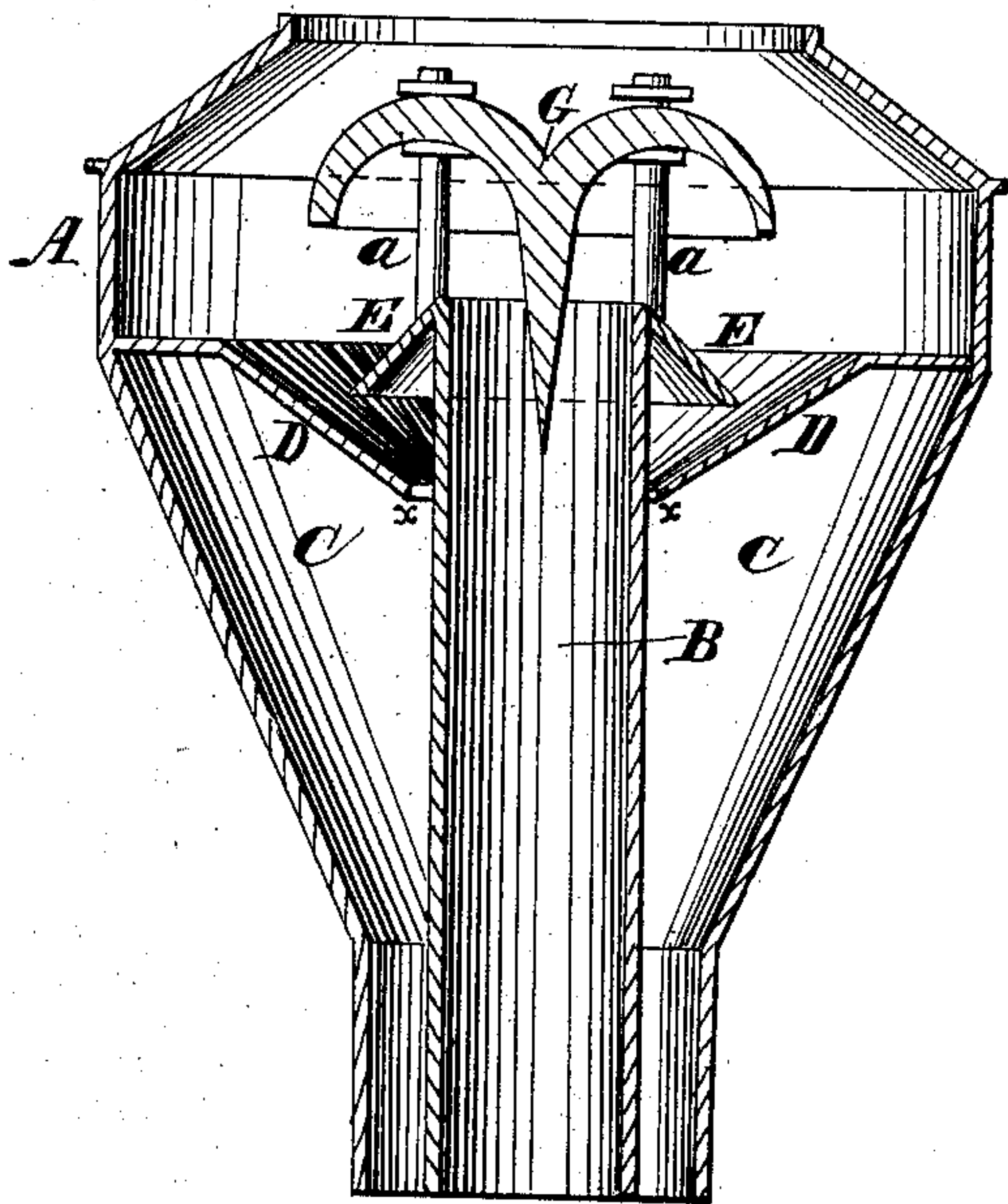


A. Pearsall,
Spark Arrester.
N^o 69,931. *Patented Oct. 15, 1867.*



witnesses:

*Amos
Schmidt*

Inventor:

A. Pearsall

*per
Alexander M. Mason
Att'y*

United States Patent Office.

ANDREW PEARSALL, OF ATLANTA, GEORGIA.

Letters Patent No. 69,931, dated October 15, 1867.

IMPROVEMENT IN SPARK-ARRESTER.

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, ANDREW PEARSALL, of Atlanta, in the county of Fulton, and in the State of Georgia, have invented certain new and useful Improvement in Spark-Arrester; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

In the annexed drawings A represents the usual exterior form of a smoke-stack, which is provided with an inner pipe, B, which extends near to the top of the main stack. This pipe B has a circular flange, E, at its top, which projects down at a suitable angle below the top of said pipe. D represents a flange, secured to the inner side of the main stack A, on a line with the top of the inner pipe B. This flange is straight a short distance in the stack, and is then bent at an angle, so that the inner end thereof will be below the outer end of the flange E, and leaving a small space (see *x x*) between the two flanges, through which the sparks will pass into the spark-chamber C. G represents a circular metallic disk, which has a semicircular groove on its under side, from the centre of which plate projects a cone, whose apex is within the top part of the pipe B. This disk is supported, a short distance above the pipe B, by means of four or more bolts *a a*, so that as the sparks come up they strike the cone, are thrown into the groove, and dropped upon the flange side upon the flange D, down through the opening *x*, and into the spark-chamber.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The arrangement of the pipe B, with its flange E and disk G, as constructed, in combination with pipe A, having flange D, formed as described, to project beneath flange E, having outlet into chamber C, as set forth, and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 27th day of July, 1867.

A. PEARSALL. [SEAL.]

Witnesses:

F. M. ALLEN,
E. T. ALLEN,
L. B. FOLSOM.