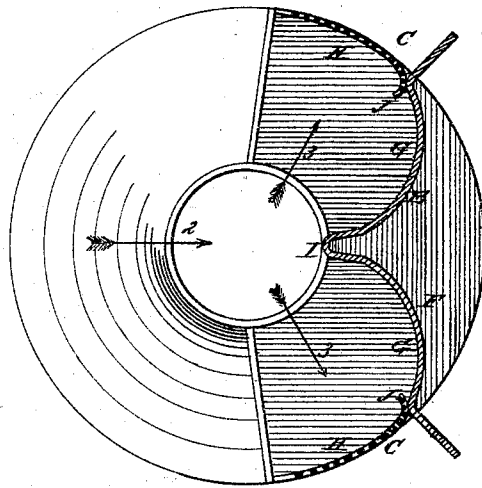
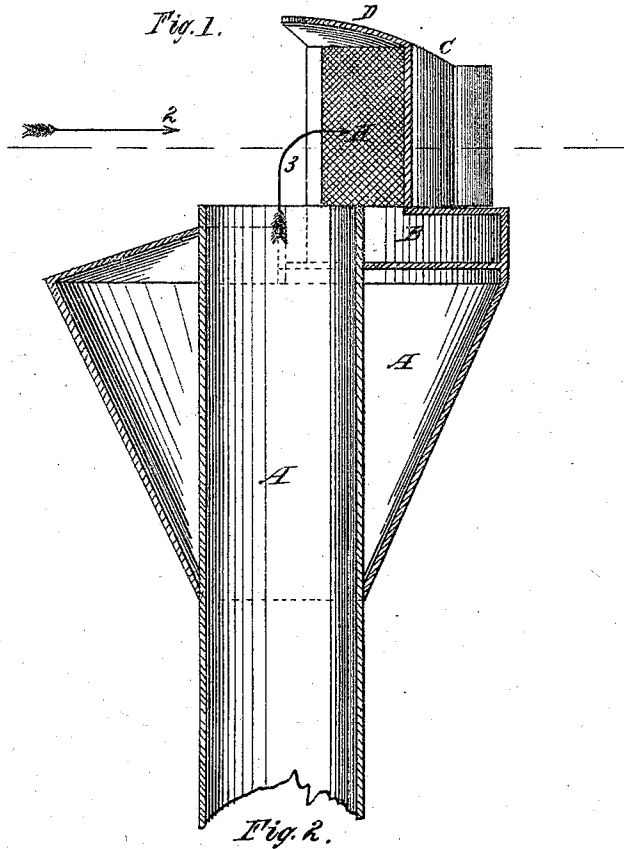


J. GIBBS.

Locomotive Spark-Arresters.

No. 137,134.

Patented March 25, 1873.



Witnesses:
P. C. Dietrich
C. Sedgwick

PER

Inventor:
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UNITED STATES PATENT OFFICE.

JOSEPH GIBBS, OF OPELOUSAS, LOUISIANA.

IMPROVEMENT IN LOCOMOTIVE SPARK-ARRESTERS.

Specification forming part of Letters Patent No. 127,134, dated March 25, 1873.

To all whom it may concern:

Be it known that I, JOSEPH GIBBS, of Opelousas, in the parish of St. Landry and State of Louisiana, have invented a new and useful Improvement in Locomotive Spark-Arresters, of which the following is a specification:

The object of this invention is to provide efficient means for arresting the sparks and dust which escape from the smoke-stacks of locomotive-boilers. The invention consists in an improved mode of constructing, arranging, and applying a hood to the smoke-stack of a locomotive-boiler.

In the accompanying drawing, Figure 1 is a vertical section of the stack and hood. Fig. 2 is a horizontal section of Fig. 1 taken on the line *x x*.

Similar letters of reference indicate corresponding parts.

A represents the smoke-stack. B is a basin or tank. C is the hood attached to the rim of the basin. This hood covers nearly one-half of the top of the smoke-stack, and rises above it two feet, more or less, with a conical top, D. The hood consists of two semicircular recesses, E and F, the backs or walls of which are made partly of sheet metal G, and partly of wire-gauze H. The air strikes the hood when the locomotive is in motion, as indicated by the arrow 2, which will force the smoke and

cinders which rise from the smoke-stack into the hood, as indicated by the arrow 3. The smoke, sparks, and dust will slide to the right and left from the central rib I toward the wire-gauze. The sparks and dust will lodge against the projecting edges J of the gauze and drop by their own gravity into the tank, while the smoke thus purified will find its way through the wire-gauze and escape.

Water is put into the basin or tank B, into which the sparks and dust fall, the sparks being extinguished by the contact. In this manner a railroad train may be relieved of the ever-present nuisance—dust and cinders.

This hood may be so attached to the top of the smoke-stack that it will revolve, and be thereby adapted to the chimneys of stationary boilers.

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

The hood C, composed of the semicircles E and F and conical cover D, on the smoke-stack of a locomotive-boiler, constructed and arranged substantially as shown and described.

JOSEPH GIBBS.

Witnesses:

CHAS. N. EALER,
S. P. CLARK.