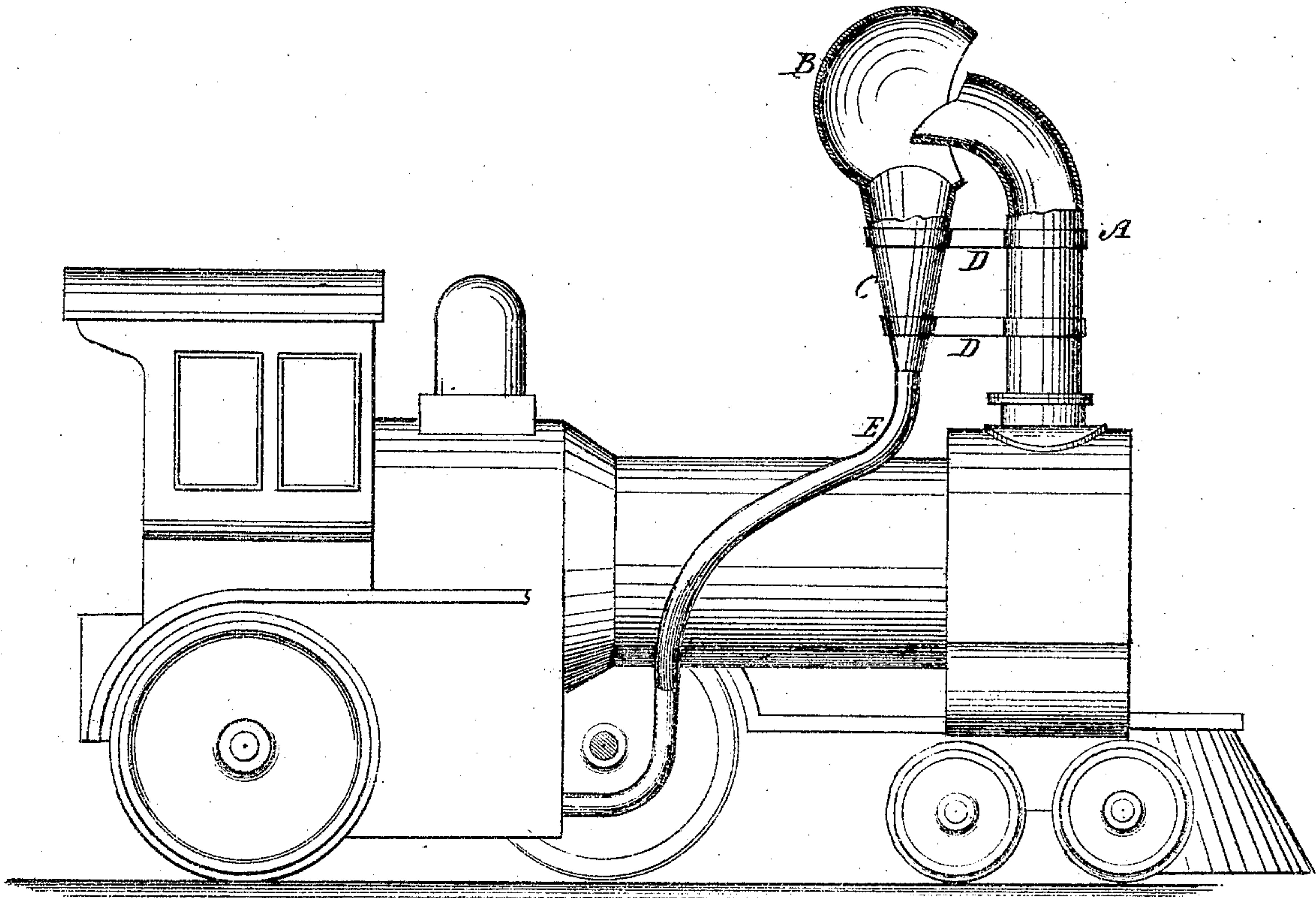


[72.]

No. 118,711.

Patented Sep. 5, 1871.

M.A. Glynn's Spark Arrester.



Witnesses:

Chas. Field.
Wm. C. Smith.

Inventor:

M. A. Glynn.

PER

Munn & Co.

Attorneys.

UNITED STATES PATENT OFFICE.

MICHAEL A. GLYNN, OF MATANZAS, CUBA.

IMPROVEMENT IN SPARK-ARRESTERS.

Specification forming part of Letters Patent No. 118,711, dated September 5, 1871.

To all whom it may concern:

Be it known that I, MICHAEL A. GLYNN, of Matanzas, in the Island of Cuba, have invented a new and useful Improvement in Spark-Arrester; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

My invention consists in an improvement in globular spark-arresters, as hereinafter fully described and subsequently pointed out in the claim.

The accompanying drawing is a side elevation of a locomotive with my improvement attached.

Similar letters of reference indicate corresponding parts.

A is the chimney of the locomotive. B is the spark-receiver, which is of globular form, and placed in relation to the chimney so that the sparks will be discharged therein, while there will be a sufficient opening between the top or discharge end of the chimney and the receiver for the discharge of the smoke and uncondensed steam into the open air.

In this example of my invention the top of the chimney is curved, so as to discharge the sparks laterally; but I do not confine myself to that particular feature, as the same, or a similar result, may be produced with a receiver curving over the chimney. I, however, prefer the present arrangement.

The receiver B is placed on the top of the funnel C, and the receiver is secured to the chimney by the bands or clamps D, or is held in the proper position in any suitable manner. To the bottom of the funnel C is attached the tube or cinder-flue E, by which the sparks and cinders are conducted into the ash-pit, or into any other receptacle, which receptacle may contain water for extinguishing the sparks. Where the spark-arrester is applied to the smoke-stack of a steam-boat the sparks may be discharged directly into the water.

The diameter of the receiver and of the funnel and flue will be in proportion to that of the chimney or smoke-stack.

By this improvement all the sparks may be arrested by the receiver, and will fall therefrom by their own gravity and be discharged as above stated, thus preventing damage from fires caused by sparks from the locomotive, as well as the great annoyance of cinders on railroad trains and steam-vessels.

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

The arrangement of a globular spark-arrester, B, with the curved chimney A, as and for the purpose specified.

MICHAEL A. GLYNN.

Witnesses:

HENRY C. HALL,
F. A. DRINKWATER.