J. Keniston,

Spark Arrester,

No. 23,252 Patented Mar. 15, 1859.

Fig: 1

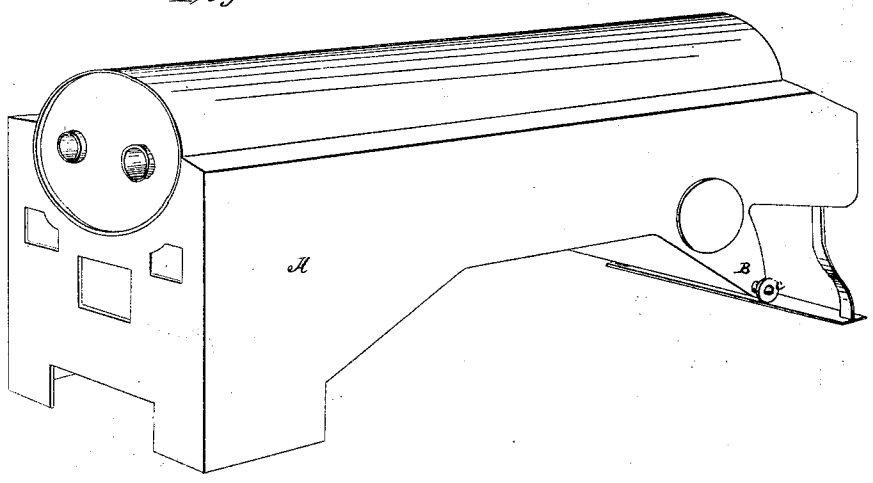
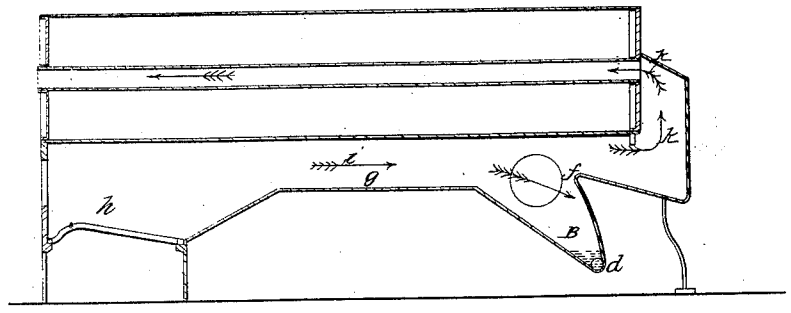


Fig: 2



Witnesses:
H. S. Hollifton
Charles L. Fisher

Inventor:
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UNITED STATES PATENT OFFICE.

JAMES KENISTON, OF CINCINNATI, OHIO.

SPARK-EXTINGUISHER.

Specification of Letters Patent No. 23,252, dated March 15, 1859.

To all whom it may concern:

Be it known that I, JAMES KENISTON, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Spark-Extinguishers; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings and letters of reference, made to form part of this specification.

My invention relates to certain improvements in the construction and arrangement of a tank beneath the furnaces of boilers, in such manner as to receive the sparks and cinders from the furnace, and to extinguish and discharge the same, by means of a current of water, passing through the tank, which is described specified and represented as follows.

Figure 1, is a perspective view, representing a boiler furnace provided, with the extinguisher. Fig. 2, is a longitudinal sectional elevation of the same.

(A) is, an ordinary boiler furnace, provided near its rear end, with a tank (B), constructed of the form, clearly shown in Fig. 2, extending transversely across the furnace (A). This tank, (B), is provided at one end with a pipe (*c*) for the admission of water as shown in, Fig. 1, and at the other end with an aperture (*d*) for the discharge of water, together with, extinguished sparks and cinders that may be precipitated to the bottom of the tank; a constant stream or current of water may thus be, produced, which will not only extinguish the sparks and cinders, but will immediately discharge the same through the aperture (*d*).

It will be observed that the point (*f*) of the tank is somewhat higher, than the plane (*g*) of the furnace, so that the sparks and cinders passing from the fire box (*h*) along the furnace, in the direction of the arrow (*i*) will, necessarily, be precipitated into the tank (B), and its contained water while the purified smoke passes off in the direction of arrows (*k*, *k*,). The tank may not always be confined to a position so near the rear end of the furnace, as that represented, but I prefer the position, herein described.

The supply of water for the use of the tank may be taken from the pumps which supply the boiler.

What I claim as my invention and desire to secure by Letters Patent is—

A tank arranged beneath the boilers of furnaces in such manner as to receive, the sparks and cinders therefrom, and extinguish, and discharge them by means of a current of water passing through the tank substantially as described for the purposes set forth.

In testimony of which invention I have hereunto set my hand.

JAMES KENISTON.

Witnesses:

H. E. CLIFTON,

CHARLES L. FISHER.