G. W. PRESCOTT.

Cone, &c., for Locomotive Smoke-Stack.

No. 210,468. Patented Dec. 3, 1878.

Fig. 1.

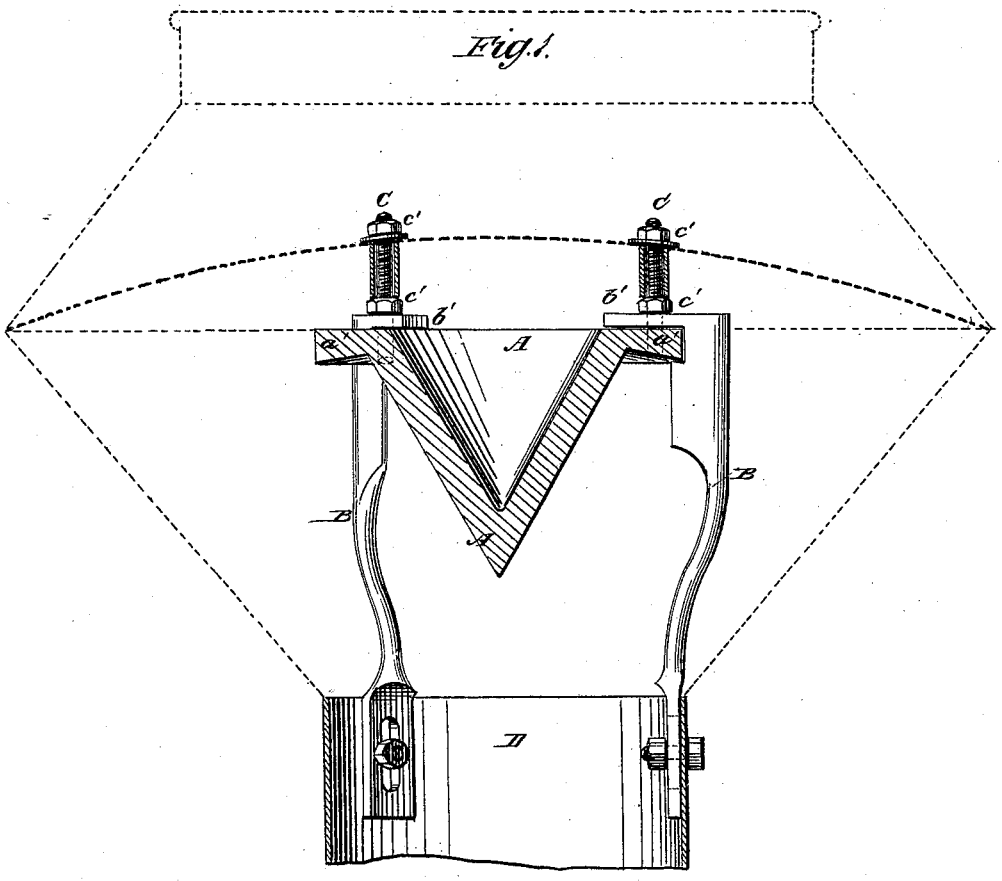
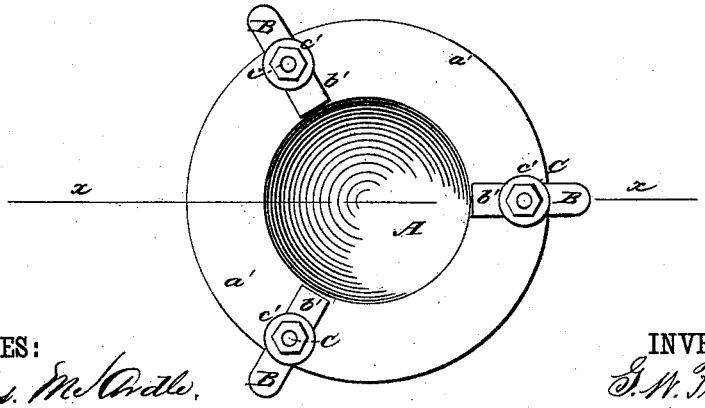


Fig. 2.



WITNESSES:

Francis McArdle,

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INVENTOR:

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UNITED STATES PATENT OFFICE.

GEORGE W. PRESCOTT, OF BATTLE CREEK, MICHIGAN.

IMPROVEMENT IN CONES, &c., FOR LOCOMOTIVE SMOKE-STACKS.

Specification forming part of Letters Patent No. **210,468**, dated December 3, 1878; application filed October 11, 1878.

To all whom it may concern:

Be it known that I, GEORGE WASHINGTON PRESCOTT, of Battle Creek, in the county of Calhoun and State of Michigan, have invented a new and useful Improvement in Cones and Fastenings for Locomotive Smoke-Stacks, of which the following is a specification:

Figure 1 is a vertical section of my improved cone, taken through the line *x x*, Fig. 2. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved cone and fastenings for the smoke-stacks of locomotive and portable engines, which shall be so constructed as to break up the cinders and prevent them from cutting the netting and smoke-stack, which will not impede the exhaust, and will not be cut by the cinders.

The invention consists in the cone, made with a flange around its base and having its point and flange chilled, the fastenings, having their upper parts made V-shaped, and the bolts, in combination with each other, to adapt them to be attached to the body of a smoke-stack, as hereinafter fully described.

A represents the cone, which is made of cast-iron, and is suspended, apex downward, directly over the top of the body of the smoke-stack. The cone A has an outwardly-projecting flange, *a'*, formed around its base, which is inserted in notches formed in the inner sides of the upper parts of the fastenings B. The fastenings B have inwardly-projecting arms *b'* formed upon their upper ends, through which and through the flange *a'* are passed the bolts C, by which the cone A is secured in place. The bolts C project upward, and are supplied with washers and nuts *c'*, for securing them in place and for securing the netting to them.

The lower ends of the fastenings B are bolted or otherwise secured to the upper part of the body D of the smoke-stack. The lower parts of the fastenings B are slightly curved outward and upward, and are made round. The upper parts of the fastenings B are made V-shaped, and are arranged with their angles or edges inward, so as to present but little obstruction to the cinders or exhaust, and so as to prevent them from being cut by the cinders.

The fastenings B are made of wrought-iron, case-hardened, or of steel, and the cone A is made of cast-iron, and its point and flange are chilled.

With this construction the cone and fastenings will be very durable, as they will be capable of resisting the action of the cinders for a long time.

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

In a spark-arrester, the cone A, secured by fastenings B, attached adjustably to inside of stack and outside of cone, turned over the flange of cone, and fastened by bolts C, the latter passing upwardly through flange and secured on top by nuts, all constructed and arranged as specified.

GEORGE WASHINGTON PRESCOTT.

Witnesses:

HENRY TUNNELL,

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