

(No Model.)

C. H. CASSELMANN.
CHIMNEY AND VENTILATOR TOP.

No. 317,973.

Patented May 19, 1885.

Fig. 1.

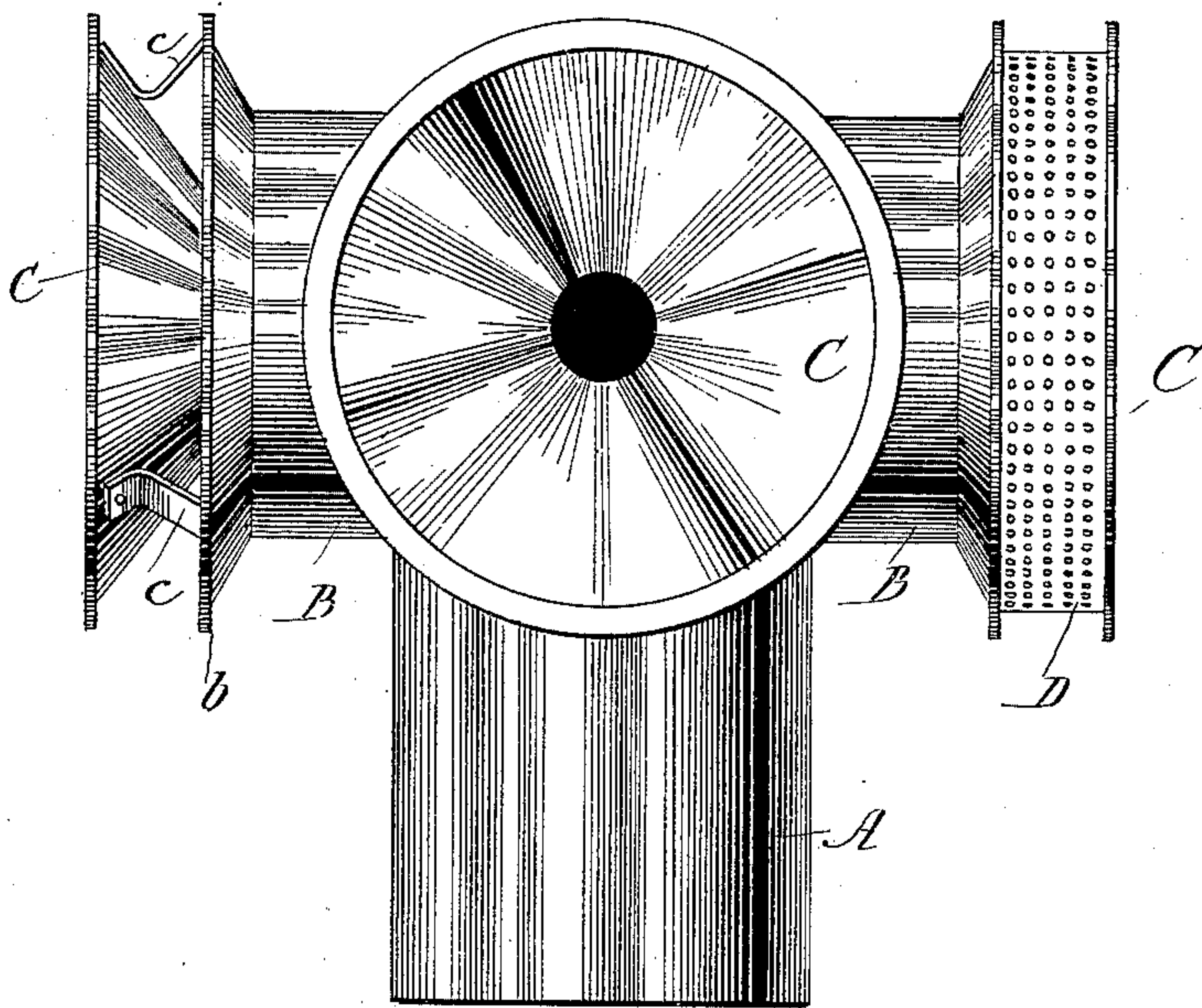
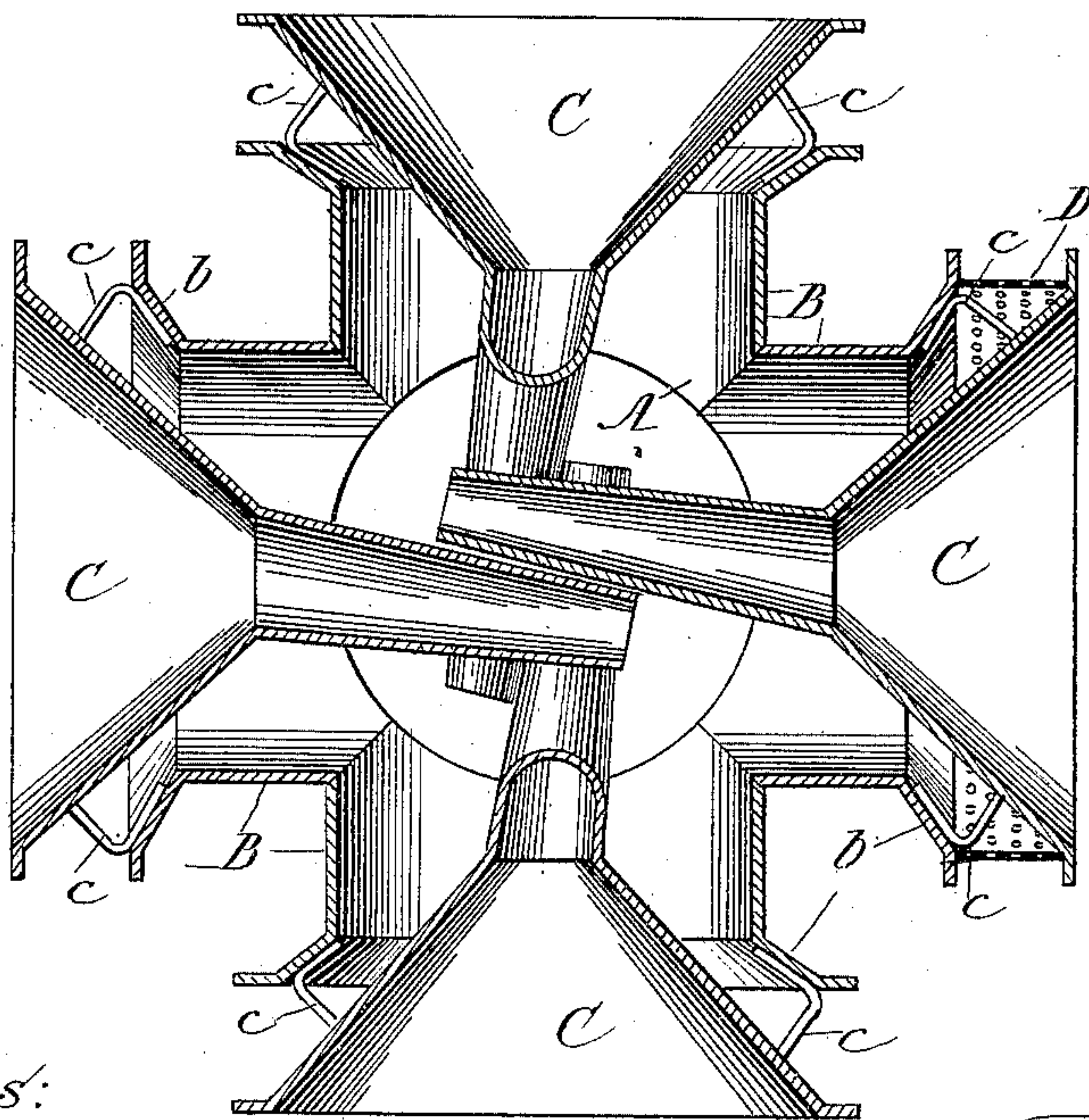


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

CONRAD HEINRICH CASSELMANN, OF EFFINGHAM, ILLINOIS.

CHIMNEY AND VENTILATOR TOP.

SPECIFICATION forming part of Letters Patent No. 317,973, dated May 19, 1885.

Application filed January 31, 1885. (No model.)

To all whom it may concern:

Be it known that I, CONRAD HEINRICH CASSELMANN, a citizen of the United States of America, residing at Effingham, in the county of Effingham and State of Illinois, have invented certain new and useful Improvements in Chimney and Ventilator Tops, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain improvements in chimney-tops.

The object of the invention is to so construct a chimney-top as to more perfectly regulate the draft, to prevent the collection of soot in the chimney, and, when the device is used in connection with a movable engine, to provide a suitable spark-arrester.

To the accomplishment of the above, the invention consists in placing in the top of the chimney or stack a pipe provided with a series of flaring branches or nozzles, into each of which is inserted a funnel-shaped pipe, the inner ends of these pipes occupying a position over the vertical branch of the pipe and being suitably bent to prevent them contacting with each other. These funnel-shaped pipes protrude a short distance out beyond the outer ends of the main-pipe branches and are supported upon suitable lugs, the spaces between the branch pipes and the funnel-shaped pipes being covered by suitable wire-cloth when the device is used in connection with the stack of a movable engine.

Reference will be made to the accompanying drawings, in which Figure 1 is an elevation of the device, and Fig. 2 a sectional plan thereof.

Like letters refer to like parts in both views.

In the drawings, A represents a pipe which is adapted to be inserted into the top of a chimney or smoke-stack.

Secured to the upper end of pipe A, and opening into it, are a series of branch pipes or nozzles, B, there being four of such pipes shown, but any desired number may be used. Each branch B is preferably provided at its outer end with a flaring collar, b, and into each of such branches there is inserted a funnel-

shaped pipe, C. The flaring or outer end of each pipe C protrudes a short distance out beyond its branch B, and is supported in such branch B by a suitable number of lugs or supports, c, as shown clearly in both figures. The contracted or stem-like portion of each pipe C is carried inwardly to the space formed by the branches B above pipe A. Each of such stem-like parts is slightly bent, as shown clearly in Fig. 2, to prevent the pipes entering different branches B from contacting.

When the device is to be used in connection with the smoke-stack of a movable engine, the space formed between the outer end of each branch B and the corresponding pipe C may be covered by a wire screen, D, as shown in the drawings, this arrangement effectually covering the points at which the sparks would be most liable to escape.

By the arrangement of the parts as described, it will be seen that the draft entering the chimney is perfectly controlled, and while a strong draft is provided, the chimney or stack is thoroughly protected from any sudden gusts of wind.

What I claim is—

1. A chimney-top consisting of a pipe to be inserted into the chimney, a series of branches communicating therewith, and a funnel-shaped pipe supported in each branch, as set forth.

2. A chimney-top consisting of a pipe to be inserted into the chimney, a series of branches communicating therewith, and a funnel-shaped pipe supported in each branch, the contracted ends of the funnel-shaped pipes bent, as described and shown.

3. A chimney-top consisting of a pipe to be inserted into the chimney, a series of branches communicating therewith, and a funnel-shaped pipe supported in each branch, the branches and funnel-shaped pipes being separated by wire screens, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CONRAD HEINRICH CASSELMANN.

Witnesses:

SAMUEL CAMPBELL,
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