(No Model.) 2 Sheets—Sheet 1.

R. C. TUCKER.

ROOF LEADER, &c.

No. 581,893. Patented May 4, 1897.

Fig. I.

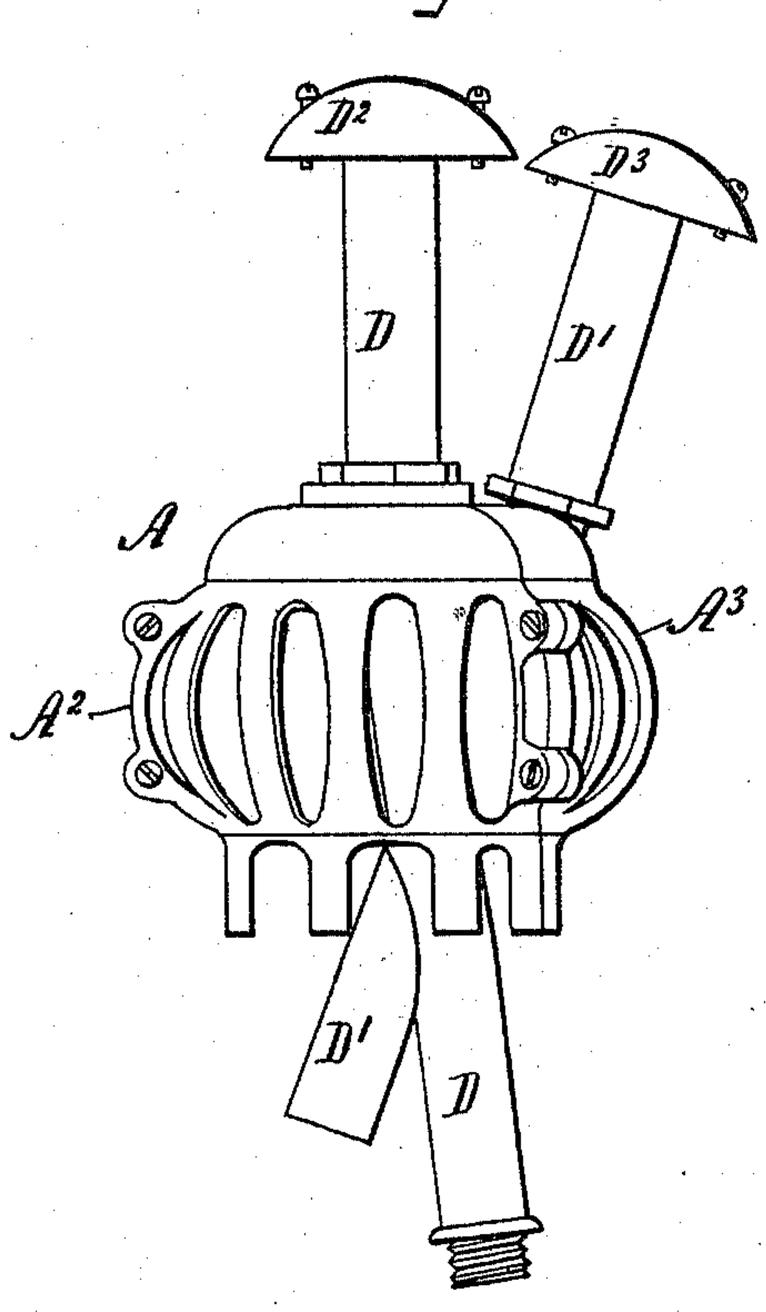
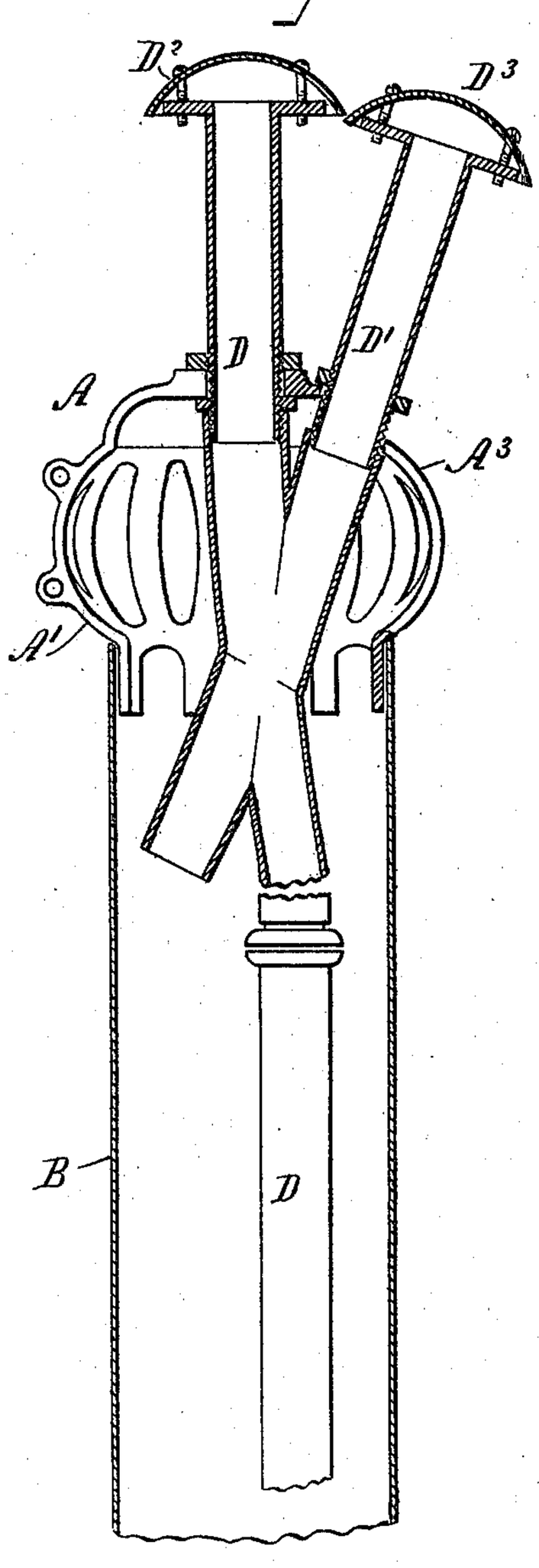


Fig. II.



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(No Model.)

2 Sheets—Sheet 2.

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Fig. III.

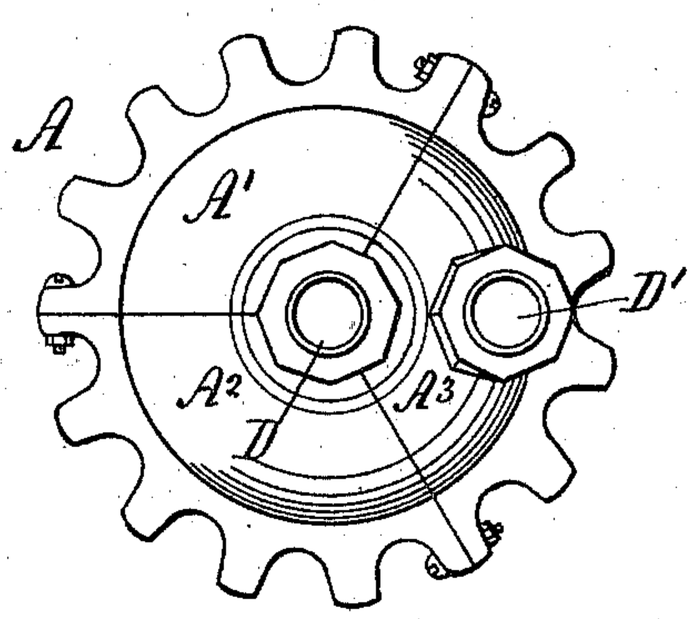


Fig. V.

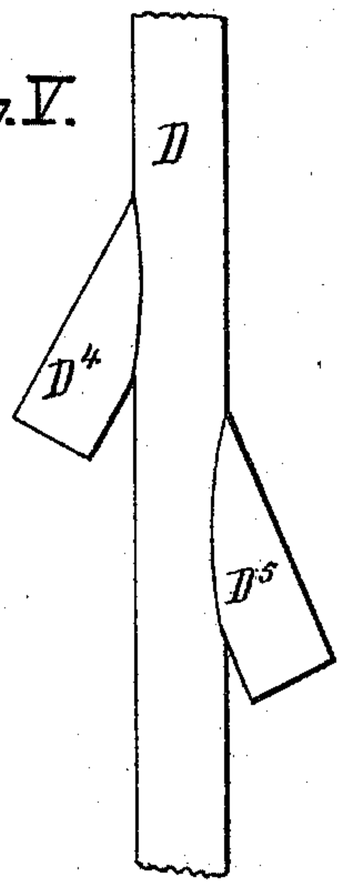
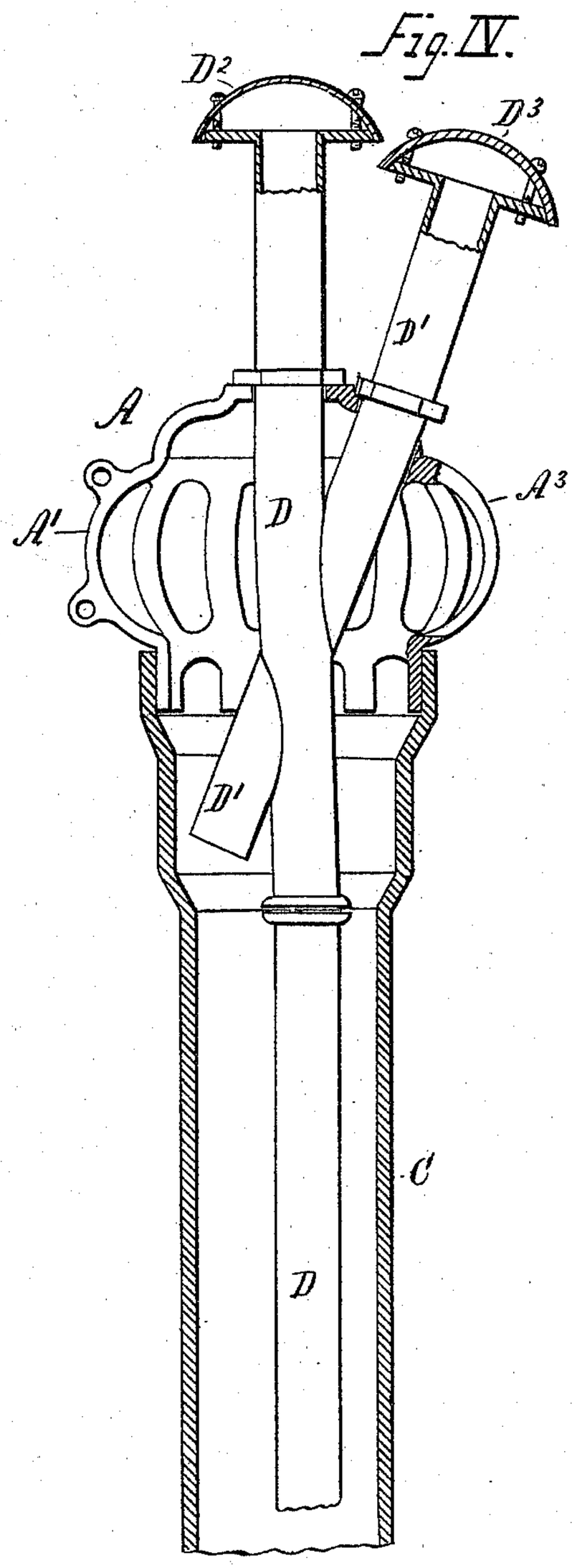


Fig. IV.



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UNITED STATES PATENT OFFICE.

ROBERT C. TUCKER, OF NEW YORK, N. Y.

ROOF-LEADER, &c.

SPECIFICATION forming part of Letters Patent No. 581,893, dated May 4, 1897.

Application filed January 21, 1896. Serial No. 576,315. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. TUCKER, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Roof-Leaders, &c., of which the following is a specification.

My invention relates especially to that class of roof-leaders for which Letters Patent of the United States were granted to me on the 19th day of November, 1895, No. 550,032; and the novel features of my present structure are particularly directed to the construction of the strainer-cage at the entrance of the leader in conjunction with the ventilating-tube and a cross-sectional part thereof for increasing the draft, as will be hereinafter more fully described.

In the accompanying drawings, Figure I represents a side view of the strainer-cage and ventilating-tubes connected thereto detached. Fig. II represents a vertical central section thereof as it appears when applied to a roof-leader pipe. Fig. III represents a plan or top view of the strainer-cage, omitting the caps of the ventilating-tube and its branch. Fig. IV represents a side view of the cage and tubes as applied to what is known as a "back air-pipe." Fig. V represents a modification of the ventilating-tube.

Similar letters of reference represent similar parts.

The letter A represents the strainer-cage, which is formed of cast metal, as iron, and in sections, in this example three in number, which are marked, respectively, A' A^2 A^3. The cage is of substantially the usual form, and its lower part is fitted into the upper end of the leader-pipe B (shown in Fig. II) or the back air-pipe C, (shown in Fig. IV,) it being understood that my invention is equally applicable to either of the pipes named.

Extending through the strainer-cage A is the ventilating-tube D, which has near its upper end a cross-sectional part D′, extending from the inside of the leader-pipe or the back air-pipe to the outside thereof independently of the main ventilating-tube, as clearly shown, both the main tube D and its branch part D′ being provid d with a cap D^2 or D^3 at its outer upper end.

In carrying out my invention I connect to the lower inner end of the ventilating-tube D a hose to extend centrally downward through the leader-pipe to the house-sewer. A hose connection is also similarly made in the back air-pipe to extend to any other desired part of the building, as will readily suggest itself to a skilled plumber.

The effect of the cross-sectional part or branch D′ of the main ventilating-tube D is to materially increase the draft through the pipe to which my invention may be applied, and in order to further increase such draft I may use additional branches D^4 D^5, as indicated in Fig. V.

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

1. A strainer-cage for a roof water-leader or other similar pipe, formed of cast metal in vertically-divided sections, substantially as and for the purpose herein described.

2. A strainer-cage for a roof water-leader or other similar pipe, formed of cast metal in vertically-divided sections, in combination with a ventilating-tube extending through and supported by said cage, substantially as and for the purpose herein described.

3. A ventilating-tube for a roof-leader or other similar pipe formed at its upper end with an inclined cross-sectional part which extends from the inside of the leader or other pipe to the outside thereof independently of the main ventilating-tube, substantially as and for the purpose herein described.

4. The combination with a strainer-cage formed of cast metal in horizontally-divided sections, of the ventilating-tube which is formed at its upper end with an inclined cross-sectional part to extend from the inside of the leader or other pipe to the outside thereof independently of the main ventilating-tube, said ventilating-tube and its cross-sectional part being arranged to extend through and being supported by the cage, substantially as and for the purpose herein described.

ROBERT C. TUCKER.

Witnesses:
CHAS. WAHLERS,
THOS. H. RONAYNE.