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PATENTED MAR. 29, 1904.

H. B. ROWLAND.
HOOD OR INJECTOR FOR CAR VENTILATORS.

APPLICATION FILED MAR. 19, 1903.

NO MODEL.

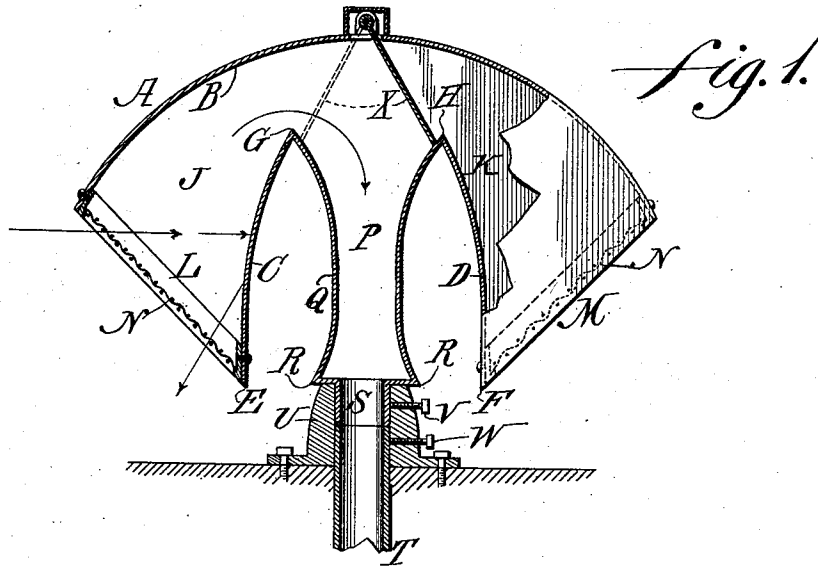
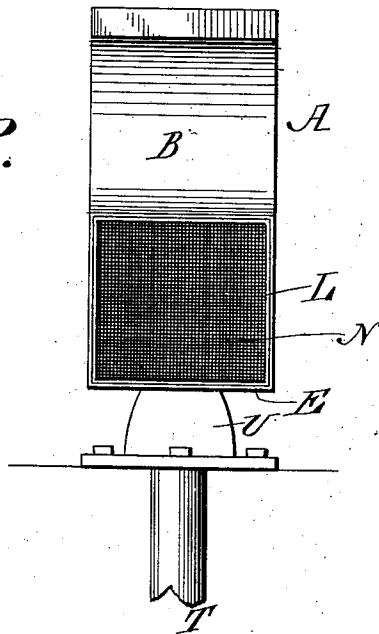


fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

HORACE B. ROWLAND, OF PHILADELPHIA, PENNSYLVANIA.

HOOD OR INJECTOR FOR CAR-VENTILATORS.

SPECIFICATION forming part of Letters Patent No. 756,057, dated March 29, 1904.

Application filed March 19, 1903. Serial No. 148,653. (No model.)

To all whom it may concern:

Be it known that I, HORACE B. ROWLAND, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Hoods or Injectors for Car Ventilation, of which the following is a specification.

My invention consists of an improvement in hoods for the purpose of collecting air and directing the same to a suitable point or place and which is provided with means for properly controlling the passage of the air through said hoods.

It further consists in means for preventing the moisture and particles of dirt from passing through said hoods.

It further consists of novel details of construction, all as will be hereinafter set forth.

Figure 1 represents a vertical sectional view of a hood embodying my invention. Fig. 2 represents an end elevation thereof.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a hood having an upper wall B and the side walls C and D, the lower portions E and F, respectively, of which are below the edges of the upper wall B, while the upper edges G and H of said side walls are situated at a point above the edges of the upper wall B. It will be seen that the said side walls C and D form baffle-plates and serve, with said upper wall B, to form the passages J and K, having the openings L and M, each of which is provided with a screen or mesh N.

P designates a passage communicating with the passages J and K and formed by the wall Q, the lower portion of which is flared and forms a shoulder R, said wall Q terminating in a pipe S, which when in position communicates with a suitable pipe T, which leads to a suitable point or plate. U designates a socket which can be secured in any suitable manner to a suitable support and upon the upper edge of which the shoulder R is adapted to rest. The said hood A may be secured to said socket U by a set-screw V, and the pipe T is secured to said socket U by a set-screw

W, whereby it will be seen that the parts are held in the proper position.

X designates a valve which is suitably pivoted to the hood A and extends downwardly below the upper edge of the wall Q in such a manner that the said valve will contact with the said wall Q in either of its extreme positions, as seen in Fig. 1, so that either the passage J or the passage K will be closed with respect to passage P.

The operation is as follows: If the air is entering the hood through the opening L, it will pass through the screen N, which serves to prevent the passage of dust, &c., and the air strikes the baffle-plate C, so that any moisture or particles of dirt which may have passed the screen N will be separated from the air and the air will pass upwardly and around the upper edge G of the baffle-plate, and the valve assuming the position seen in full lines, Fig. 1, the air will be directed downwardly through the passage P into the pipe T and thence be conducted to a suitable point, it being understood that if the air is passing into the hood through opening M the valve will assume the position seen in dotted line, Fig. 1, and the same operation as previously described will take place.

It will be evident that various changes may be made in the art which may come within the scope of my invention, and I do not, therefore, desire to be limited in every instance to the exact construction as herein shown and described.

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

1. A hood comprising an upper wall and a convex baffle-plate beneath said wall and extending above and below the plane of the lower edge thereof.

2. A hood, comprising a passage, an upper wall covering said passage and having its outer edge extended below the mouth thereof and a convex baffle-plate beneath said wall, connected with said passage and extending above and below the plane of the outer edge of said wall.

3. A hood comprising a substantially ver-

tical passage, an upper wall covering said passage and having its outer edges extended below the mouth thereof, convex baffle-plates beneath said wall, connected with said passage and extending above and below the plane
5 of the outer edge of said wall, side walls connecting said upper walls and said baffle-plates

forming opposite openings into said passage and means for closing either of said openings.

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Witnesses:

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