C. HILL.

VENTILATING HOOD SECTION.

APPLICATION FILED FEB. 23, 1918.

1,283,765.

Patented Nov. 5, 1918.

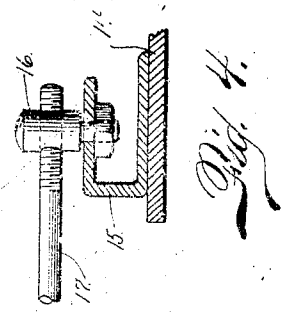


Fig. 4.

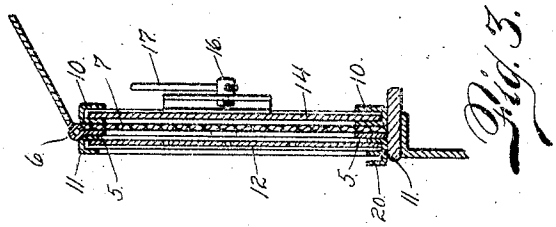


Fig. 5.

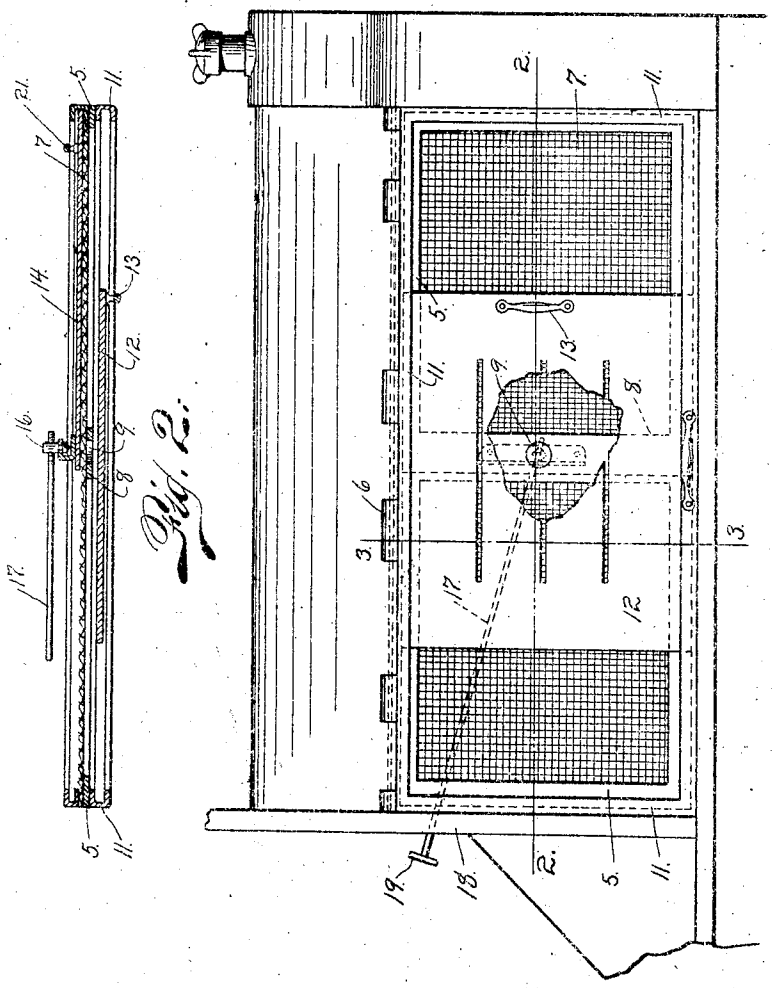


Fig. 2.

Fig. 6.

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UNITED STATES PATENT OFFICE.

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VENTILATING HOOD-SECTION

1,283,765. Specification of Letters Patent. Patented Nov. 5, 1918.

Application filed February 23, 1918. Serial No. 218,870.

To all whom it may concern:

Be it known that I, CHARLES HILL, a citizen of the United States, and a resident of the city and county of Denver, State of Colorado, have invented a certain new and useful Improvement in Ventilating Hood-Sections, of which the following is a full, clear, and exact description.

My invention is an improvement in automobile hoods which are used to inclose the engine and it relates in particular to means for ventilating and cooling the engine space under the hood, the amount of ventilation afforded being controllable to suit conditions. Broadly speaking my device comprises providing the swinging hood panels with open or screened portions which are adapted to be covered or uncovered by sliding door sections. My invention also contemplates furnishing means operable from the driver's seat for controlling the positions of the sliding doors. Further and more particular objects and advantages of my invention will later appear from this specification.

In the single sheet of drawings accompanying this application and forming a part hereof—

Figure 1 is a side elevation of the front end of an automobile with my invention applied thereto, the inner door being shown at one extremity of its travel, the outer door being midway, and a portion of the outer door being broken away to show the connections for operating the inner door from the driver's seat;

Fig. 2 is a horizontal section taken on the line 2—2 of Fig. 1;

Fig. 3 is a vertical section taken on the line 3—3 of Fig. 1; and

Fig. 4 is a detail on enlarged scale showing a preferred means of connecting the operating rod to the inner door.

Referring to the drawings, in which like characters of reference designate like parts in the several views, it will be clear that I substitute for the customary swinging hood panel a special panel, hinging it to the remaining parts in the customary manner. In the preferred construction of this panel shown in the drawings it comprises a flat metal frame 5 formed with eyes 6 on its upper edge for hinging and to which frame 5 is secured a screen 7. The frame 5 also comprises a central vertical cross bar 8 in which there is a circular opening 9 which registers with a similar opening in the screen 7. Secured to the frame 5 on the inner side there is a rectangular guide frame 10 which frame is U-shaped in cross section to provide tracks in which the inner door may run. A similar guide frame 11 is located on the outer side of the frame 5.

The outer door 12 is slidably mounted in the guide frame 11 and is provided with a hand grip 13 for operating the same. The inner door 14 is likewise slidably mounted in the ways in the guide frame 10 and this door carries means whereby it may be operated from the driver's seat if desired. These means may conveniently comprise a bracket 15 mounted on the door 14 and carrying swiveled thereto an interiorly threaded socket 16. A rod 17 is threaded at its forward end in said socket 16 and projects at its rear end through the dash 18 and is provided with a head 19 within easy reach of the driver.

The outer guide frame 11 is preferably provided with an extra member 20 extending along its lower edge to furnish an abutment for the customary hood panel clamping devices without danger of compressing the guide frame 11 so as to interfere with the ready movement of the outer sliding door 12. The inner door 14 may also be provided with a handle 21 for its ready manipulation in case the dash operating means should be dispensed with.

The manner of operating my device will be evident from the foregoing. If it is desired to afford the engine space more ventilation this may be accomplished by adjusting the doors so that both are in a forward or rear position or in intermediate positions, as desired. If the weather should become cooler or rainy the hood may be readily closed again by moving the doors to opposite extreme positions.

If it be desired to be able to operate the ventilating means without leaving the driver's seat, this can be accomplished by connecting the inner door to the rod 17 by screwing the latter into the socket 16. A pull or push on the rod 17 will then move the inner door so as to permit the desired ventilation. When it is desired to open the hood the rod 17 should be disconnected, which can be readily done by unscrewing

the same. When it is desired to again connect the rod 17 it may be easily guided to place by the fingers introduced through the opening 9 provided therefor.

Having thus described my invention what I claim and desire to secure by Letters Patent is:

1. In an automobile hood, a swinging panel, and a sliding section in said panel, whereby said section may be moved to control the flow of air through the space under said hood.

2. In an automobile hood, a swinging panel, a guide way formed on said panel, a sliding door mounted in said guide way, and means for operating said door.

3. In an automobile hood, a swinging panel, said panel comprising an open frame and a guide way on each side thereof, and a sliding door mounted in each guide way.

4. In an automobile hood, a swinging panel, said panel comprising a screened open frame with a guide way on each side thereof, and a sliding door mounted in each guide way.

5. In an automobile hood, a swinging panel, said panel comprising an open frame with a guide way on each side thereof, a sliding door mounted in each guide way, and an operating rod connected to the inner door and passing through the dash of said automobile.

6. In an automobile hood, a swinging panel, said panel comprising an open frame with a guide way on each side thereof, a sliding door mounted in each guide way, and an operating rod detachably connected to the inner door and passing through the dash of said automobile.

7. An automobile hood having a sliding section therein, and an operating rod connected to said section and passing through the dash of said automobile, whereby said section may be moved to control the flow of air through the space under said hood.

8. An automobile hood having a swinging panel comprising a screened open frame, and means carried by the frame for controlling the flow of air therethrough into the space under the hood.

9. An automobile hood having an outwardly swinging panel comprising a frame having an opening therein, and means carried by the frame for controlling the flow of air therethrough into the space under said hood.

In testimony whereof I have hereunto affixed my signature.

CHARLES HILL.