G. C. BOHN.

VENTILATING HOOD.

APPLICATION FILED JAN. 3, 1912.

1,111,292.

Patented Sept. 22, 1914.

2 SHEETS SHEET 1.

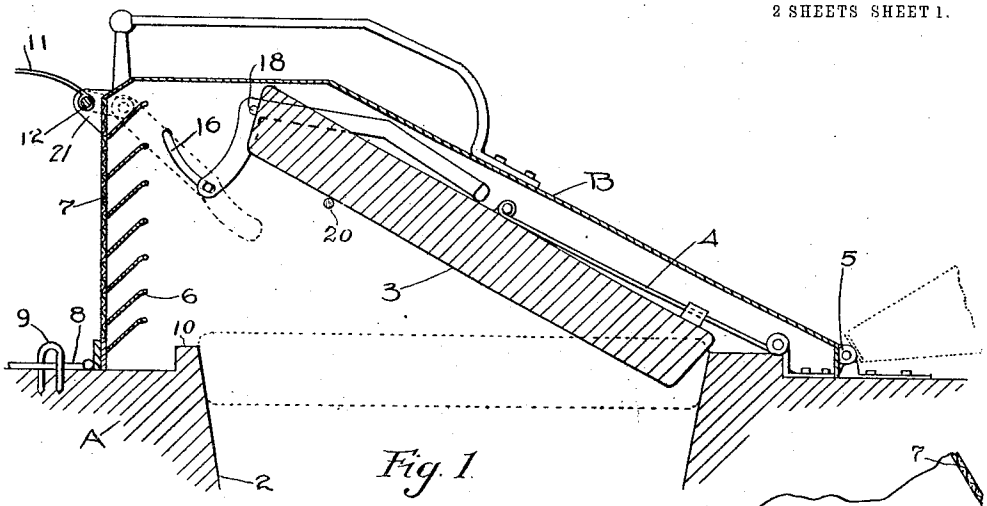


Fig. 1

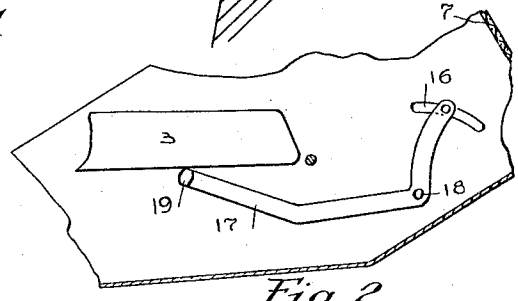


Fig. 2

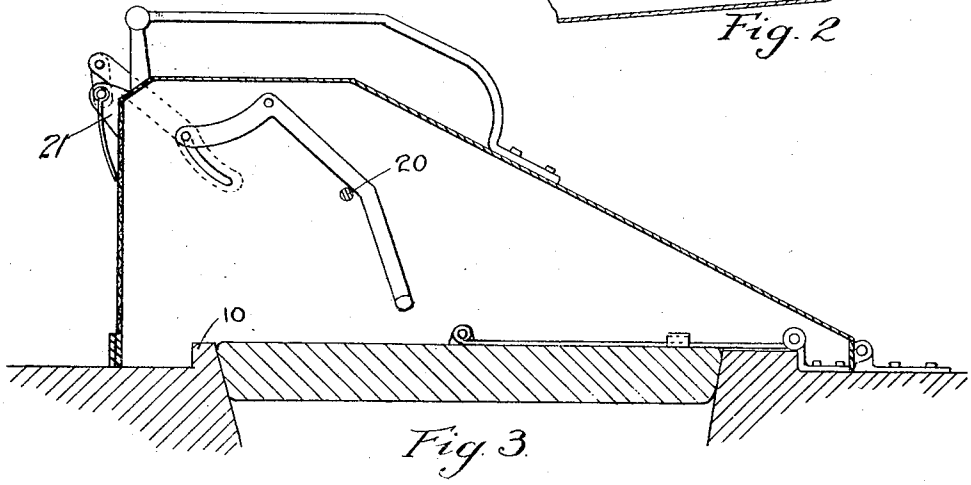


Fig. 3

WITNESSES.

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2 SHEETS—SHEET 2.

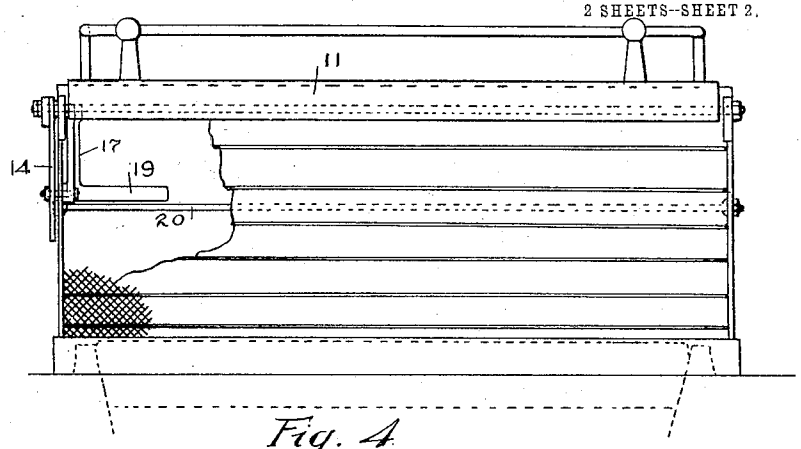


Fig. 4

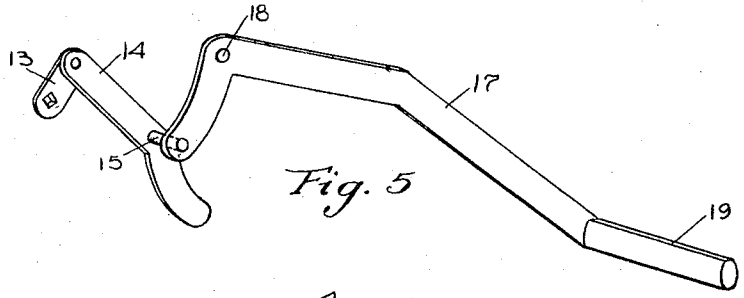


Fig. 5

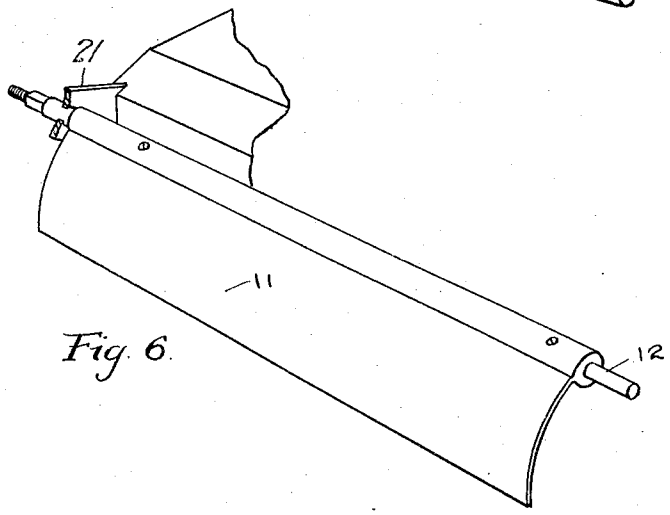


Fig. 6.

WITNESSES

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UNITED STATES PATENT OFFICE.

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VENTILATING-HOOD.

1,111,292. Specification of Letters Patent. Patented Sept. 22, 1914.

Application filed January 3, 1912. Serial No. 669,284.

To all whom it may concern:

Be it known that I, GEBHARD C. BOHN, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Ventilating-Hoods, of which the following is a specification.

My invention relates to improvements in ventilating hoods designed particularly for use in connection with the plug opening of a refrigerator car, and consists essentially in improved means for indicating when the plug is open and for directing the air to the inlet openings of the hood.

To this end the invention consists in the features of construction, combination, and arrangement of parts hereinafter described and claimed.

In the accompanying drawings forming part of this specification, Figure 1 is a vertical section through the hood and plug and the adjacent portion of the car, with the plug open; Fig. 2 is a detail view, broken away, of a hood in open position; Fig. 3 is a vertical section through the hood and plug and adjacent portion of the car with the plug closed. Fig. 4 is a front view of the hood partly broken away; Fig. 5 is a detail view of lever arms forming part of my invention; and Fig. 6 is a detail view of an indicating reflector forming part of my invention.

In the drawings A represents the roof of the car formed with the ordinary opening 2 through which the ice can be fed into the ice chamber. The opening 2 is closed by a suitable plug 3. As shown in the drawings the plug has hinge connection at one end with the car roof by means of a hinge 4. Covering the ice opening is a hood B having hinge connection 5 at one end with the car roof. The front end of the hood has a closure of wire screening 7 and inside the screening 7 are parallel baffle plates 6 sloping upwardly. The hood is adapted to be secured at its free end to the roof of the car as by means of a latch 8 coöperating with a staple 9 secured to the car roof. The ice opening is preferably surrounded by an upwardly extending flange 10 outside of which the hood is positioned.

In order to indicate from outside the hood whether the plug is open or closed I provide an indicator 11 carried by pintles 12 journaled in the supports 2 extending forwardly from the upper end of the hood, one end of said indicator being connected by a link 13 with one end of an arm 14, the arm 14 being formed at its rear end with a pin 15 extending through a downwardly curved slot 16 in the adjacent side wall of the hood. A bent lever arm 17 has fulcrum support 18 inside the side wall of the hood, the front end of said lever arm being connected with the pin 15 and the rear end 19 of said arm being turned inwardly above the plug. The indicator 10 is, as shown, in the form of a curved plate extending across the top of the front of the hood so as to constitute a deflector when in the position shown in Fig. 1.

When the plug is in closed position the lever arm 17 will drop and rest upon the rod 20 extending transversely of the hood as indicated in Fig. 2. As the lever arm drops to this position it will, through the medium of the arm 14 and link 13, turn the indicator 10 into the depending position shown. When the hood is turned into open position against the roof of the car and the plug turned back upon its hinge it will drop upon the inwardly turned free end of the lever arm 17 as indicated in Fig. 2 and will, by reason of its weight, turn the lever arm upon its fulcrum to allow the free end of the plug to pass the rod 20. When the hood is then closed the free end of the plug will stand above the rod as shown in Fig. 1. In this position of the plug the bent arm will be held turned upon its fulcrum as shown in Fig. 1 to hold the indicator in extended position. It will thus be evident that with the plug in open position the indicator will constitute a prominent signal to train employees that the plug is open as well as deflecting the air to the inlet openings in the hood. In order to close the plug the hood may be turned back upon its hinges to release the plug from the rod.

I claim as my invention:

1. In combination with a refrigerator car formed with an opening in its roof, a plug movably fitted to said opening, a ventilating hood covering said opening, a combination deflector plate and indicator pivotally mounted outside the front wall of said hood, and means actuatable from said plug when the same is carried into open position to turn said plate for the purpose set forth.

2. In combination with a refrigerator car having an opening in its roof at one end, a hood covering said opening and having inlet ports in its front wall, a plug fitted to said

opening, a deflecting indicator pivotally supported in front of said hood above said ports, and means controlled from the plug when the same is turned in open position to actuate said deflecting indicator for the purpose set forth.

3. In combination with a refrigerator car having an opening in its roof toward one end, a hood covering the same movably supported upon the car roof, a plug fitted to said opening and having hinge connection with said car roof, an indicator movably supported outside the front wall of said hood, and actuating arms connected with said indicator and extending inwardly above said plug but unconnected therewith for the purpose set forth.

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

GEBHARD C. BOHN.

Witnesses:
H. S. JOHNSON,
H. SWANSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."