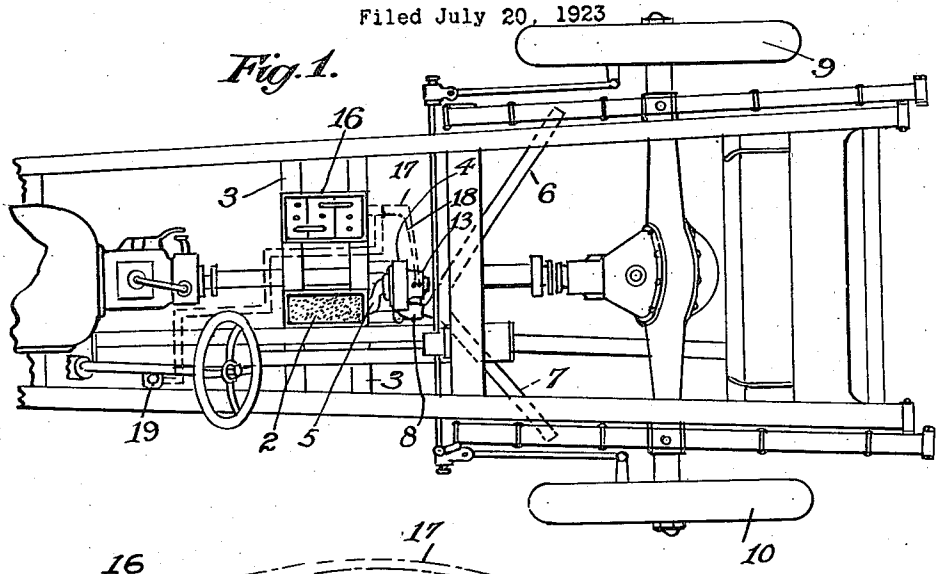
June 10, 1924. 1,497,198

R. T. SHERWIN

SAND BLOWER FOR AUTOMOBILES

Filed July 20, 1923

Fig. 1.



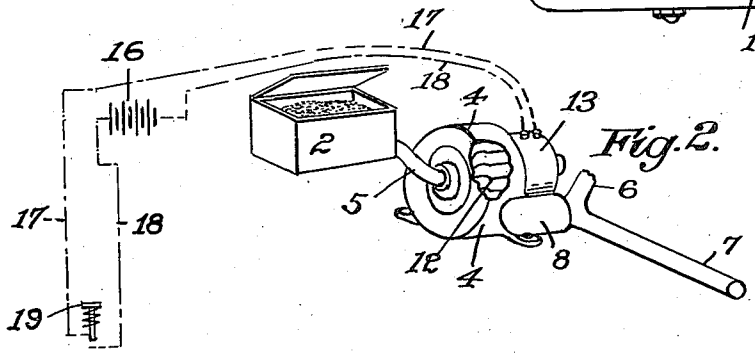
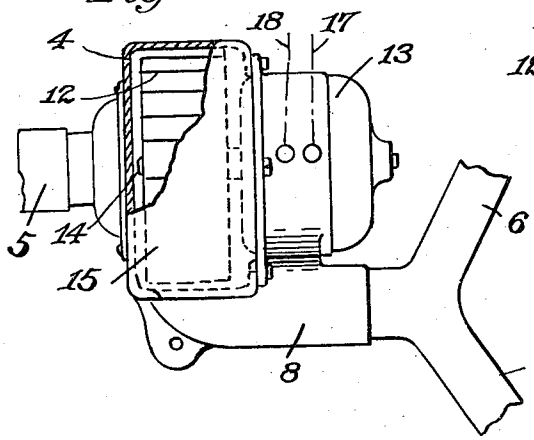


Fig. 2.

Fig. 3.



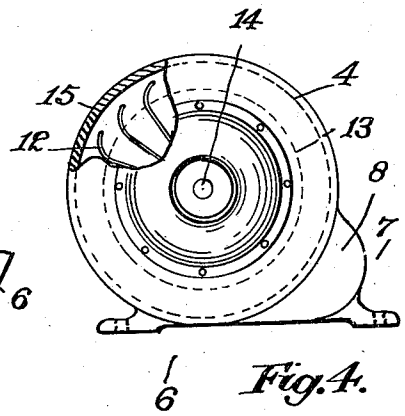


Fig. 4.

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By his Attorney
Wm. H. Reid

Patented June 10, 1924. 1,497,198

UNITED STATES PATENT OFFICE.

REIDAR T. SHERWIN, OF NEW YORK, N. Y.

SAND BLOWER FOR AUTOMOBILES.

Application filed July 20, 1923. Serial No. 652,840.

To all whom it may concern:

Be it known that I, REIDAR T. SHERWIN, a citizen of the United States, and a resident of Elmhurst, New York city, in the county of Queens and State of New York, have invented certain new and useful Improvements in Sand Blowers for Automobiles, of which the following is a specification.

This invention relates to apparatus for use on automotive vehicles, for the purpose of delivering sand to the ground on the roadway in front of the rear wheels of the vehicle for the purpose of preventing skidding of the car.

The object of the present invention is to provide an apparatus of this character, under the instant control of the operator of the vehicle that will cause the sand blast to be forced on the ground in front of the rear wheels of the vehicle, and which is effected by a blower or fan having suitable operating means under control of the driver of the car.

A further object of the invention is to provide a device of this character in which the sand is carried in a receptacle on the car, and the sand blower actuated by an electric motor, that receives current from the battery on the car, or other source of current, will draw the sand from the receptacle and direct it on the ground in proximity to the tread of the rear wheels, and which electric motor is connected with a switch under instant control of the driver, to stop and start the sand blower.

In the accompanying drawing showing one embodiment of my invention, Figure 1 is a partial plan view of the car chassis.

Fig. 2 shows the blower and sand box and also the electric system.

Fig. 3 shows further enlarged the sand blower and connections.

Fig. 4 is a side elevation, partly broken away to show the fan.

As set forth in the drawing, a car chassis is partly shown with the usual mechanism, and I arrange a receptacle on the frame on a cross member 3. To the rear of this said box, preferably slightly below its level, I arrange a sand blower 4 that has its inlet pipe 5 leading to the sand box 2. From the blower 4, I provide two outlet pipes 6 and 7, that connect with the outlet 8 of the blower, and will serve to eject the sand from their end portions, on the ground in front of the rear wheels 9 and 10, at the tread portion of the wheels.

Suitable means are provided for actuating the fan wheel 12, and as shown an electric motor 13 is mounted on a shaft 14 of the fan, which motor is in the rear of the casing 15 that incloses both the fan and the motor.

Any suitable source of electric current on the car can be employed, and if desired the usual electric battery 16 on the car may have conductors 17 and 18 connecting the battery with the electric motor 4, which circuit includes an electric switch 19 that may normally hold the circuit open, but will close the circuit when operated and cause operation of the sand blower as long as depressed.

It will be understood that a device of this character is comparatively simple in its construction and arrangement and readily assembled on any motor vehicle. By simply closing the switch the supply of sand is instantly placed on the ground in front and at the sides of the rear wheels. When the driver reaches a dangerous condition of road where skidding is likely to happen, the sand is applied before the skidding takes place. Obviously, but a small quantity is needed, and when the switch is released the motor will stop at once, so that the supply of sand is not wasted.

What I claim is:—

1. The combination with a motor vehicle; of a sand blower comprising a sand receptacle, a fan, an inlet pipe leading directly from said receptacle directly into the fan, and a pair of pipes leading from the fan outlet outwardly and downwardly to direct the sand from the blower to the ground at points adjacent the points of contact of the rear wheels of the automobile with the ground, and means for operating the fan.

2. The combination with a motor vehicle; of a sand blower comprising a casing, a

motor at one side of the casing having a shaft projecting into said casing, a blower fan mounted on said shaft in the casing, a sand receptacle, an inlet pipe connecting the receptacle with the casing on the side opposite the motor, a Y-shaped pipe extending from the periphery of the casing to form a branched outlet, the branches of said outlet each terminating adjacent the ground and in front of a respective rear wheel of the automobile.

Signed at New York city, N. Y., this 14 day of July, 1923.

REIDAR T. SHERWIN.