

No. 857,084.

PATENTED JUNE 18, 1907.

L. C. LULL.
MOTOR VEHICLE.
APPLICATION FILED OCT. 24, 1904.

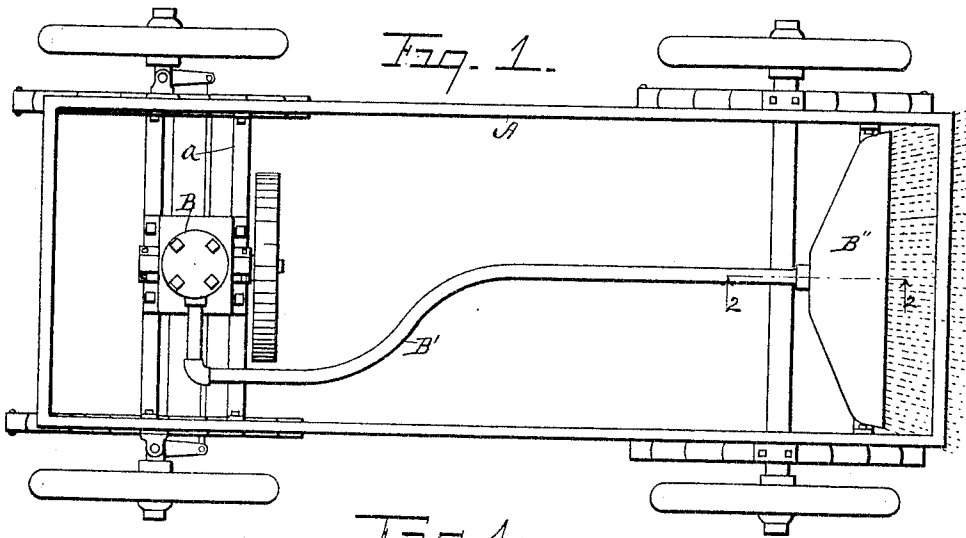


Fig. 1.

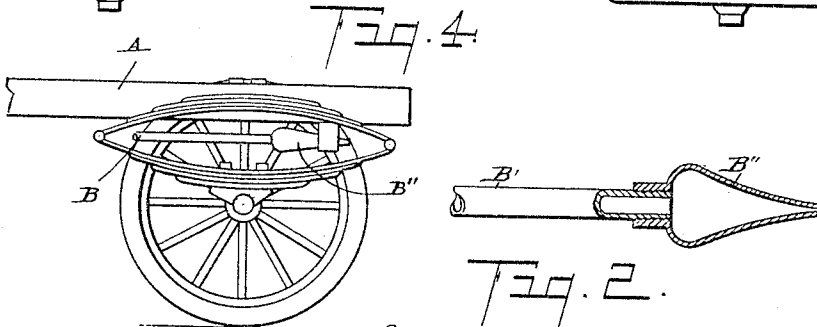


Fig. 2.

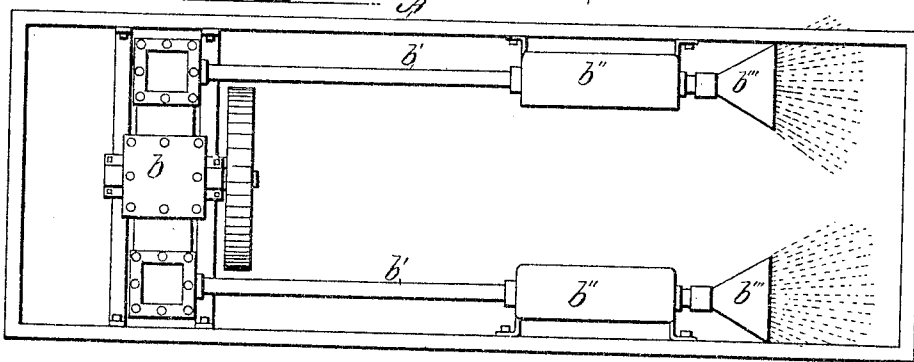


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

LYNN C. LULL, OF KALAMAZOO, MICHIGAN.

MOTOR-VEHICLE.

No. 857,084.

Specification of Letters Patent.

Patented June 18, 1907.

Application filed October 24, 1904. Serial No. 229,766.

To all whom it may concern:

Be it known that I, LYNN C. LULL, a citizen of the United States, residing at the city of Kalamazoo, county of Kalamazoo, State of Michigan, have invented certain new and useful Improvements in Motor-Vehicles, of which the following is a specification.

This invention relates to improvements in motor vehicles.

10 The objects of this invention are, first: To provide an improved motor vehicle in which the dust created by the movement of the vehicle over the road is carried or deflected away from the vehicle. Second: To provide
15 an improved motor vehicle adapted to accomplish the object stated, in which the cylinder exhaust is utilized for the purpose.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in this specification.

25 The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this specification, in which,

30 Figure 1 is a plan view of a structure embodying the features of my invention, the vehicle body, with the exception of the side and end rails being removed to show the arrangement of the parts. Fig. 2 is a detail longitudinal sectional view, taken on a line corresponding to line 2—2 of Fig. 1, looking in the direction of the little arrows at the ends of the section lines, showing the form of the delivery nozzle B". Fig. 3 is a plan view of a
40 modified construction of my invention, showing the same adapted to a double cylinder motor and in connection with mufflers. Fig. 4 is a detail side elevation showing the relation of the delivery nozzles to the vehicle body.

45 In the drawing, similar letters of reference refer to similar parts throughout the several views.

Referring to the drawing, A represents the body frame of a motor vehicle. The motor
50 B is carried by the cross pieces a, the parts being illustrated in conventional form. A delivery pipe B' is connected to the exhaust port of the motor cylinder. This pipe is provided with a fan-shaped delivery nozzle B", which is preferably pear-shaped in cross-section. This delivery nozzle is preferably

about the width of the vehicle body and is arranged to deliver rearwardly beneath the rear end thereof, as appears in Fig. 1. This delivery nozzle is preferably provided with a
60 slot-like delivery opening as is illustrated so that the exhaust is delivered in a thin sheet. This deflects the air current which is caused by the movement of the vehicle, away from the vehicle, and does not permit it to roll up
65 behind the vehicle into the same, as it has a tendency to do.

In the modified construction shown in Fig. 3, a double cylinder motor b is illustrated. Delivery pipes b' are connected to the ex-
70 haust ports of the motor cylinders. These pipes deliver to the mufflers b". The mufflers b" are provided with single delivery openings at the rear. A pair of fan-shaped delivery nozzles b''' are provided for the
75 mufflers. These two nozzles deliver the exhaust substantially in the same manner as the delivery nozzle B" of the structure illustrated in Figs. 1 and 2.

I have illustrated and described my im-
80 proved motor vehicle in the form preferred by me on account of its structural simplicity and economy, and its durability; and because this particular form presents very slight obstruction to the delivery of the exhaust. I
85 am aware, however, that it is capable of being considerably varied without departing from my invention.

Having thus described my invention, what I claim as new and desire to secure by Let-
90 ters Patent, is:—

1. In a motor vehicle, the combination of a suitable body; a motor cylinder; an exhaust port therefor; a delivery pipe connected to said exhaust port; and a fan-
95 shaped delivery nozzle therefor, pear-shaped in cross-section, having a slot-like opening extending substantially across said vehicle body, arranged under said body close to the bottom thereof, said delivery nozzle being
100 directed to deliver rearwardly from beneath said body; for the purpose specified.

2. In a motor vehicle, the combination of a suitable body; a motor cylinder; an exhaust
105 port therefor; a delivery pipe connected to said exhaust port; and a fan-shaped delivery nozzle therefor, having a slot-like opening extending substantially across said vehicle body, arranged under said body close to the
110 bottom thereof, said delivery nozzle being directed to deliver rearwardly from beneath said body; for the purpose specified.

3. In a motor vehicle, the combination of a suitable body; a motor cylinder; an exhaust port therefor; a delivery pipe connected to said exhaust port; and a delivery nozzle 5 extending substantially across said vehicle body, arranged under said body close to the bottom thereof; said delivery nozzle being directed to deliver rearwardly from beneath 10 said body; for the purpose specified.

4. In a motor vehicle, the combination of a suitable body; a motor cylinder; an exhaust port therefor; a delivery pipe connected to said exhaust port; and a delivery 15 nozzle therefor, extending substantially across said vehicle body, arranged under said body close to the bottom thereof; said delivery nozzle being directed to deliver rearwardly from beneath said body; for the 20 purpose specified.

5. In a motor vehicle, the combination of a suitable body; a motor cylinder; an exhaust

port therefor; a delivery pipe connected to said exhaust port, and a delivery nozzle 25 therefor, arranged under said body close to the bottom thereof, said delivery nozzle being directed to deliver rearwardly from beneath said body; for the purpose specified.

6. In a motor vehicle, the combination of a suitable body; a motor cylinder; an exhaust 30 port therefor; a delivery pipe connected to said exhaust port; and a delivery nozzle therefor, arranged under said body close to the bottom thereof, said delivery nozzle being directed to deliver outwardly 35 from beneath said body, for the purpose specified.

In witness whereof, I have hereunto set my hand and seal, in the presence of two witnesses.

LYNN C. LULL.

Witnesses:

JNO. P. COYNE,
MABEL GOCHENOWER.