May 22, 1928. 1,670,776

J. S. LOSEE

AUTOMOBILE HEATER

Filed April 22, 192

Fig. 1

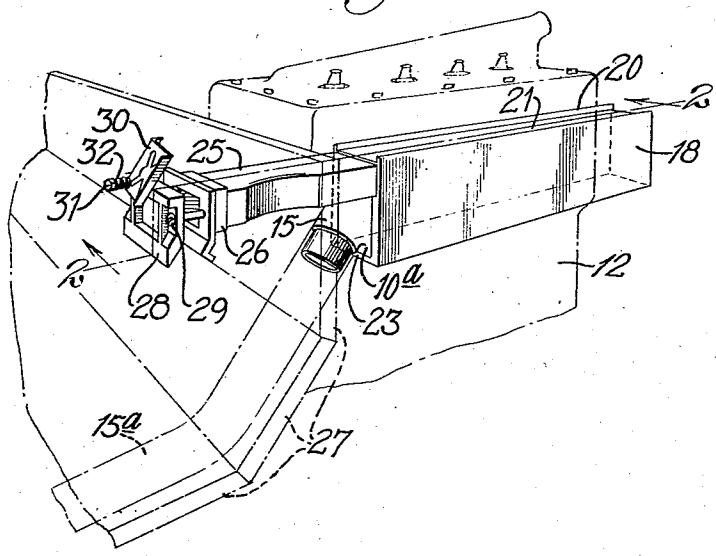


Fig. 2

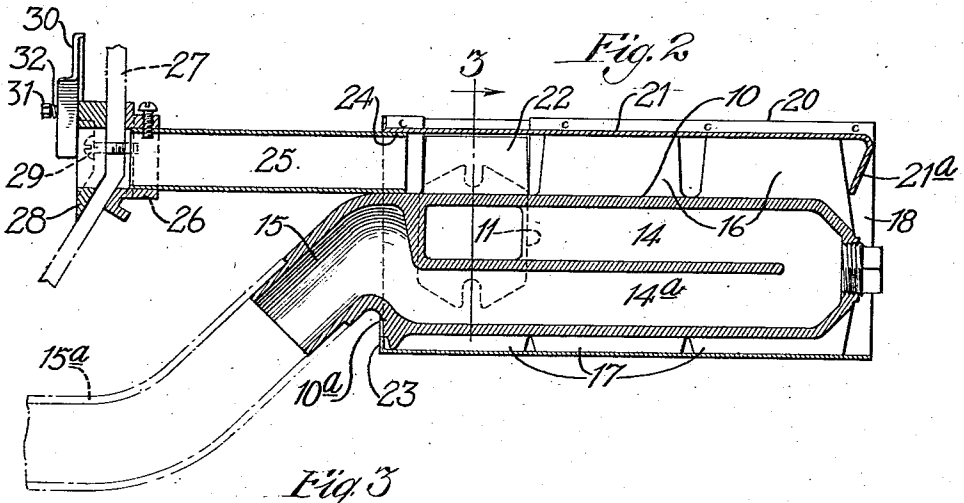
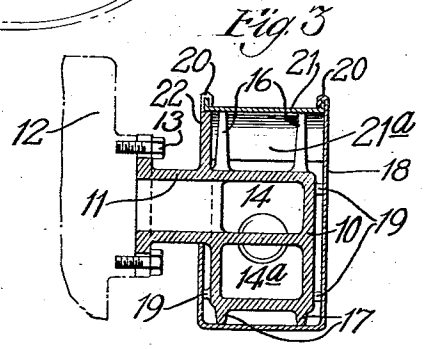


Fig. 3



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UNITED STATES PATENT OFFICE.

JOSEPH S. LOSEE, OF HEBRON, ILLINOIS.

AUTOMOBILE HEATER.

Application filed April 22, 1927. Serial No. 185,714.

This invention relates to automobile heaters and is particularly adapted to be used on automobiles of the type of the Chevrolet in which the exhaust emerges from a single opening in the side of the engine.

The invention is fully described in the following specification and shown in the accompanying drawings, in which:

Figure 1 is a phantom perspective showing the heater applied to the engine and dash of a Chevrolet car;

Fig. 2 is an enlarged longitudinal section on the line 2—2 of Fig. 1; and

Fig. 3 is a transverse section on the line 3 of Fig. 2.

The embodiment illustrated comprises a heater made up of a hollow casting 10 having a flanged end 11 by which it is adapted to be secured to the cylinder block 12 by means of bolts 13.

The casting 10 has a passage 14 which extends toward the front end of the automobile, a return passage 14^a and an outlet 15 which is adapted to make connection with the engine exhaust pipe 15^a.

These parts are so made that they replace the exhaust pipe which is supplied as a part of Chevrolet cars. The casting 10 has upper fins 16 and lower fins 17. The whole is surrounded by a sheet metal casing 18. The fins 16 and 17 position the casting with respect to the casing 18 top and bottom, while the bosses 19 perform the same function on the sides. The upper portions of the casing 18 are bent back at 20 and are adapted to receive the channel-shaped cover 21.

The casing 18 is cut away at the side to permit it to be slipped up around the inport 11. This leaves an opening in the side of the casing above this port which is closed by the flange 22.

The two sides and bottom of the casing are turned inwardly to form a flange 23 which fits around the end 10^a of the casting which is formed to fit the lower portion of the casing.

In assembling, the casing 18 is brought up from beneath around the casting 10 after which the cover 21 is slid in from the right-hand end. The end of this cover 21^a is turned downwardly to retain the casting in place and at the same time to partially close the upper part of the casing 18.

This leaves an opening 24 above the exhaust outlet 16 and this is closed by means of a sheet metal tube 25 which extends to the rear end which is secured to the casting 26 which substantially fits the back of the dash 27 of the automobile. The casting 28 fits the inside of the dash and is secured to the casting 21 by means of screws 29 and has a cover plate 30 hinged thereto by means of a bolt 31 and spring 32 thereon. This plate is adapted to swing so as to cover and uncover more or less of the opening in the casting 28.

Thus it will be seen that the forward end of the casing 18 opens near the front end of the cylinder block 12 and adjacent the same which is not shown, so that air from the same passes through the forward end of the casing 18 around the top, bottom and sides of the casting 10 where it receives heated exhaust gases for return through the passages 14 and 15. This heated air eventually passes through the tube 25 and through the port opening 28 to the interior of the automobile. This port opening is controlled by means of the spring pressed plate 30.

Thus it will be seen that I have provided a very simple and efficient device for heating air for Chevrolet cars and one which at the same time is inexpensive and easily installed.

While I have shown and described but a single embodiment of this invention, it is to be understood that it is capable of many modifications. Changes therefore in the construction and arrangement may be made which do not depart from the spirit and scope of the invention as disclosed in the appended claims.

I claim:

1. An automobile heater adapted for attachment to an automobile engine block having a single exhaust opening, said heater having a body having a reverse bend therein, a casing loosely surrounding said body open at its front end and connecting through a tube at the rear with the interior

of an automobile to be heated, said casing comprising a sheet metal member closed on three sides and open on the fourth, the edges on that side of the casing being turned back, and a cover having a flanged edge engaging said turned back edges.

2. An automobile heater adapted for attachment to an automobile engine block having a single exhaust opening, said heater having a hollow body adapted to be connected to an exhaust pipe, a sheet metal casing surrounding said body and enclosing the latter except at the two ends, said casing being cut away to receive a pipe, said body having a plate adapted to fill the upper part of said cut away portion, and a tube fitting between one end of said body and the casing and closing the same at that end.

In testimony whereof I have hereunto set my hand this 16th day of April, 1927.

JOSEPH S. LOSEE.