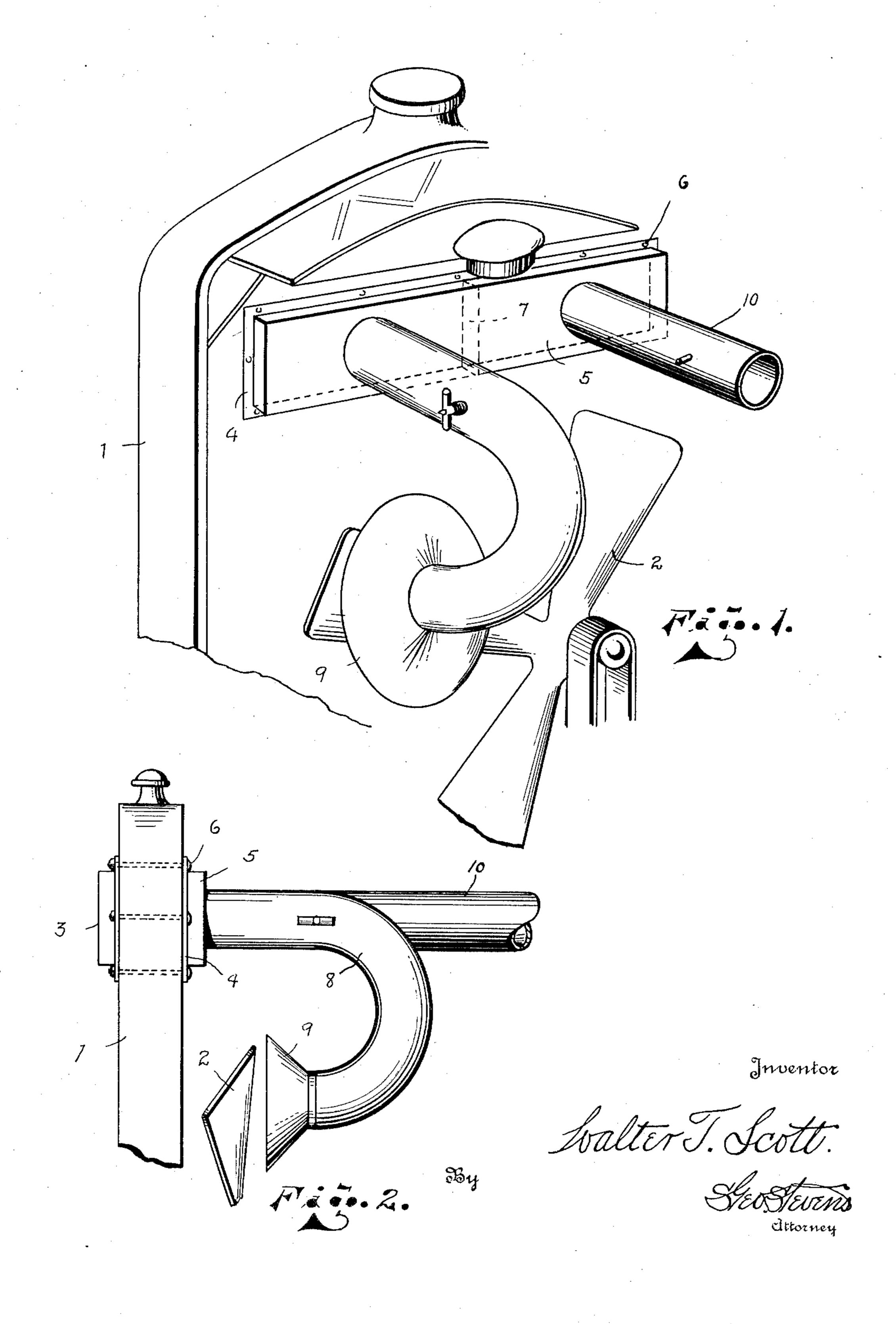
AUTOMOBILE HEATER

Filed Feb. 8, 1929



UNITED STATES PATENT OFFICE

AUTOMOBILE HEATER

Application filed February 8, 1929. Serial No. 338,485.

This invention relates to heating devices In the centermost portion of one of these the heat also is found in the ordinary vehicle.

vention will appear in the following descrip- being of any desired size as practice may 10 tion thereof.

like parts:

applied thereto; and

attachment.

directly opposite the housing 3. The pan- 5 and through the conduit pipe 10. like housings 3 and 5 are provided with out- It is well known that the cooling of the 85 ⁴⁰ The housing 5 differs from the housing 3 ing a portion of such waste energy. in that it is provided with a vertical wall While I have shown a specific embodiindicated at 7 intermediate of the ends ment of the device as herein described, the thereof and which wall may or may not be invention resides in the following claims. in the center as practice may determine, I claim: though I have shown the same at substan- 1. The combination with an automobile 95 purpose of preventing air communication intermediate of the ends of the housing, thus dividing the housing 5 into two substantially equal chambers or compartments.

for automobiles, the principal object being compartments is attached a gooseneck conto provide simple means whereby to utilize duit 8, it extending rearwardly towards the heat liberated in the ordinary radiator of engine of the automobile and downwardly such a vehicle. The power for conducting and away from the engine or towards the 55 fan. Upon the free terminus of the conduit it is provided with a flaring entrance Other objects and advantages of the in- or funnel like member indicated at 9, this determine most convenient. This conduit 60 Referring now to the accompanying draw- is for the purpose of receiving air forced ing forming part of this application, and rearwardly by the blades of the fan as it wherein like reference characters indicate rotates in the ordinary operation of the automobile.

Figure 1 is a perspective view of the inner- Centrally of the compartment at the op- 65 most face of a common automobile radiator posite end of the housing 5 is attached a showing one embodiment of the invention conduit 10 which may lead to any part of the automobile for heating the interior Figure 2 is a side elevation of the upper thereof, for example to the compartment just 20 part of the radiator and heat conducting rearwardly of the instrument board or the 70 tonneau as preferred, and it is to be under-1 represents the radiator through which stood that this conduit as well as the intake air is ordinarily drawn by the blades 2 of conduit are provided with a suitable damper the cooling fan disposed directly therebe- for control of air therethrough. By this in-²⁵ hind. 3 represents a pan-like covering plate stallation it is evident that air forced 75 which is of rectangular form and elongated through the intake 8 will pass directly horizontally, so that it covers the uppermost through the upper portion of the radiator portion of same its entire width, thus form- communicating with the chamber to which ing a continuous circulating chamber inter- the intake pipe is connected, into the cham-³⁰ mediate of the radiator and the outermost ber of the housing 3, and longitudinally of 80 wall of the pan or housing 3. the latter to the opposite end, thence by re-Upon the innermost face of the radiator turn passage through the radiator into the is installed a like pan or housing 5 it being chamber at the opposite end of the housing

standing flanges 4 through which and the circulating water to the engine results in radiator core nut-equipped bolts 6 are considerable waste of heat, and it is conpassed to clamp the said parts together in sidered that in the respect of economy this the positions illustrated in the drawing. invention is particularly efficient in utiliz-

tially that point, this wall being for the engine radiator, and co-operating enginedriven fan back of said radiator, of a housing substantially enclosing an upper portion of the radiator core, said housing having intake and outlet conduits, the former hav- ago ing a receiving head located back of said fan so that air blown from the fan will be forced through said intake conduit into said housing and thence through said outlet conduit.

2. The combination with an automobile engine radiator, and co-operating enginedriven fan back of said radiator, of a housing substantially enclosing an upper portion of the radiator core, said housing having intake and outlet conduits, the former having a receiving head located back of said fan so that air blown from the fan will be forced through said intake conduit into said housing and from thence through said outlet conduit, said housing having a baffle wall located between its intake and outlet conduits.

3. A heater for an automobile having in combination with the radiator of said automobile, a plate secured to the front of said radiator, a casing secured to the rear of said radiator having an open side disposed against the inner side of said radiator, aligned with and substantially co-extensive with said plate, an inlet conduit at one part of said casing, means in the rear of a part of the radiator not covered by said plate or casing for receiving air passing through said radiator, and directing the same into said inlet conduit and an outlet conduit connected to said casing and adapted to deliver air into the body of said automobile.

4. A heater for an automobile having in combination with the radiator and cooling fan of said automobile a plate secured to the front of said radiator, a casing secured to the rear of said radiator opposite said plate and having an open side disposed against said radiator, an inlet conduit secured to said casing, a funnel secured to said conduit and having its open end disposed in the rear of a portion of the radiator not covered by said plate or casing and in the rear of said cooling fan and an outlet conduit for said tasing extending to the body of the automo-

bile for delivering heated air thereto.
In testimony whereof I affix my signature.
WALTER T. SCOTT.

50

55