

Title (en)

VEHICLE HEATING APPLIANCE WITH COOLED FUEL PUMP

Title (de)

FAHRZEUGHEIZGERÄT MIT BRENNSTOFFPUMPENKÜHLUNG

Title (fr)

APPAREIL DE CHAUFFAGE DE VEHICULE A REFROIDISSEMENT DE LA POMPE DE CARBURANT

Publication

EP 0737294 A1 19961016 (DE)

Application

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Priority

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Abstract (en)

[origin: US5702055A] PCT No. PCT/EP94/04308 Sec. 371 Date May 29, 1996 Sec. 102(e) Date May 29, 1996 PCT Filed Dec. 27, 1994 PCT Pub. No. WO95/18341 PCT Pub. Date Jul. 6, 1995 In a vehicle heating appliance, a burner is supplied with combustion air by a combustion air fan and with fuel by a fuel dosing pump. The heat generated by the burner in a combustion chamber is absorbed by a liquid or gaseous heat transfer medium through a heat exchanger that surrounds the combustion chamber and is transferred to the areas to be heated. In order to avoid malfunctions of the fuel dosing pump caused by steam bubbles produced by overheating, the fuel dosing pump must be kept cool. To ensure an efficient cooling of the fuel dosing pump, the fuel dosing pump is mounted in a compact manner in a suction channel (8) of the combustion air fan (1). When the vehicle heating appliance is in operation, combustion air flows past the outer surface of the fuel dosing pump (14) and cools the pump before being led to the inlet side of the combustion air fan (1, 4).

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US 5702055 A 19971230; CA 2178005 A1 19950706; CN 1139480 A 19970101; CZ 190696 A3 19961016; DE 4345057 A1 19950706; DE 4345057 C2 19960404; DE 4345057 C3 19980723; EP 0737294 A1 19961016; WO 9518341 A1 19950706

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