

Title (en)

A PREHEATING DEVICE FOR PRELIMINARY HEATING THE LIQUID OF THE COOLING CIRCUIT OF A MOTOR-VEHICLE ENGINE

Publication

EP 0032880 A3 19810805 (EN)

Application

EP 81830006 A 19810119

Priority

IT 5285080 U 19800121

Abstract (en)

[origin: EP0032880A2] A preheating device for preliminary heating the liquid of the cooling circuit of a motor-vehicle engine comprising a heater (10) formed by a massive metallic cylindrical body (14) having an axial through cavity (20) adapted to be connected to the cooling circuit of the engine and two axial bores (22) each containing an armored heating resistor (24), an electric pump (12), and an electric feeding circuit (50, 51, 52, 54) for connecting the device to an electrical source disposed outside the motor-vehicle. The electric circuit comprises a switch controlled by a programmable timer (54).

IPC 1-7

F02N 17/06

IPC 8 full level

F02N 19/10 (2010.01)

CPC (source: EP)

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Citation (search report)

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- US 3970247 A 19760720 - KEELING BOYD E, et al
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