

Title (en)
VENTILATOR DRIVE FOR A COOLING PLANT, ESPECIALLY FOR RAIL VEHICLES

Publication
EP 0142713 B1 19880810 (DE)

Application
EP 84112506 A 19841017

Priority
DE 3341795 A 19831119

Abstract (en)
[origin: ES8600467A1] Disclosed is a fan drive, in particular one for cooling installations of rail vehicles. The fan drive comprises a hydraulic motor and a control valve which regulates a bypass as a function of temperature, thus affecting the flow of a pressure medium driving the motor. The control valve comprises a control piston subjected to a control pressure in the direction of closing the bypass, and a counterbalancing pressure in the opposite direction from the source of the pressure medium. The control valve also comprises a control spring which biases the control piston in the direction of closing the valve, and a pilot valve which affects the control pressure. The pilot valve is actuated by an electromechanical servo component. The pilot valve is located in an insert which is arranged within the control piston. A central bore of the control piston is slidably guided on the convex surface of the insert so as to form a seal.

IPC 1-7
F01P 7/04; F04B 49/00; F16K 31/40

IPC 8 full level
F04D 25/04 (2006.01); **F01P 7/04** (2006.01); **F04B 49/00** (2006.01); **F04D 27/00** (2006.01); **F16K 31/40** (2006.01)

CPC (source: EP US)
F01P 7/044 (2013.01 - EP US)

Cited by
US4738330A; GB2191847A; GB2191847B; WO2013135348A1

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EP 0142713 A2 19850529; **EP 0142713 A3 19860910**; **EP 0142713 B1 19880810**; AT E36375 T1 19880815; DE 3341795 A1 19850530; DE 3341795 C2 19860710; DE 3473321 D1 19880915; ES 536409 A0 19851016; ES 8600467 A1 19851016; JP S6111499 A 19860118; US 4570849 A 19860218

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