

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

Publication
EP 0097230 B1 19870304 (DE)

Application
EP 83103852 A 19830420

Priority
DE 3222851 A 19820618

Abstract (en)
[origin: EP0097230A2] 1. A fan drive for a cooling installation, in particular for rail vehicles, comprising a hydraulic motor and a regulating valve which in dependence on temperature controls a by-pass through which the flow of pressure fluid operating the motor can be influenced, wherein the regulating valve which is acted upon in the closing direction by a control pressure is controllable in dependence on a pilot control valve actuated by means of an electromechanical control member and the regulating valve and the pilot control valve form a structural unit with the housing of the hydraulic motor, characterized in that the by-pass is formed by a bore (21) in the housing (69) of the hydraulic motor (6) and the regulating valve (13) includes a control piston (25) which is arranged in said bore (21) and which delimits a control chamber (26), and that the pilot control valve (34) is an analog valve which is in the form of a seat valve and which in the opening direction has an operative surface which is acted upon by pressure and a spring (45) acts on the pilot control valve (34) in the closing direction, the spring force of said spring being adjustable, and that the electromagnetic control member is a variable-stroke regulating solenoid (15, 52).

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F04B 49/00; F01P 7/00

IPC 8 full level
F01P 7/00 (2006.01); **F01P 7/04** (2006.01); **F04B 49/00** (2006.01)

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

Citation (examination)
The Hydreco Engineering Happenings, Vol. 1, Nr. 1 May 1973, Kalamazoo, Michigan, U.S.A.

Cited by
EP0369148A3; CN115847210A; EP0142713A3; EP0371260A3; EP2264294A1; GB2204359A; GB2204359B; EP2840284A1; US8429911B2

Designated contracting state (EPC)
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