

Title (en)
Regulated water pump

Title (de)
Regulierte Wasserpumpe

Title (fr)
Pompe à eau régulée

Publication
EP 1830045 B1 20080507 (FR)

Application
EP 07103413 A 20070302

Priority
FR 0650733 A 20060302

Abstract (en)
[origin: EP1830045A1] The pump (1) has a case (2) with a radial flow impeller (3) which is mounted on a drive shaft (4). An outer cage (9``) serving as a pulley drives the shaft in rotation. A coupling device having a compression chamber (25) is arranged between the cage and the shaft according to temperature in a water circuit connected to the pump. A compression unit controls volume of the chamber according to water in the circuit. The unit has a deformable chamber containing a ductile liquid under effect of heat, and a deformable wall (22) separates the heat from the chamber (25).

IPC 8 full level
F01P 5/12 (2006.01); **F01P 7/16** (2006.01); **F04D 13/02** (2006.01)

CPC (source: EP)
F01P 5/12 (2013.01); **F04D 13/021** (2013.01); **F04D 15/0209** (2013.01); **F01P 7/164** (2013.01)

Cited by
US11639720B2; DE102009056368A1; US8512185B2

Designated contracting state (EPC)
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EP 07103413 A 20070302; AT 07103413 T 20070302; DE 602007000014 T 20070302; FR 0650733 A 20060302