

Title (en)
Thrust-balancing device

Title (de)
Achsschubausgleich

Title (fr)
Equilibrage de poussée axiale

Publication
EP 0952352 A3 20010530 (EN)

Application
EP 99107770 A 19990419

Priority
JP 10972098 A 19980420

Abstract (en)

[origin: EP0952352A2] A flow channel and pressure equalizing sections introduce a fluid having substantially no angular momentum into a thrust balance chamber of a thrust balance device. The introduction of this fluid reduces the angular momentum of the fluid in the thrust balance chamber, facilitating the discharge of fluid out of the thrust balance chamber through a variable orifice. The thrust balance chamber exerts a variable pressure onto a rear surface of an impeller of a centrifugal pump. This pressure prevents significant displacement of the impeller during pump operation. The result is a centrifugal pump having good thrust balance properties regardless of flow rate and impeller speed. <IMAGE>

IPC 1-7
F04D 29/04

IPC 8 full level
F04D 29/04 (2006.01); **F04D 29/22** (2006.01)

CPC (source: EP KR)
F04D 29/0416 (2013.01 - EP); **F04D 29/2266** (2013.01 - EP); **F04D 29/66** (2013.01 - KR)

Citation (search report)

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DOCDB simple family (publication)

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