

Title (en)

Process and sensor for cavitation detection as well as a device comprising such sensor

Title (de)

Verfahren und Sensor zur Detektion von Kavitationen, sowie Vorrichtung enthaltend einen solchen Sensor

Title (fr)

Procédé et capteur pour la détection de la cavitation ainsi qu'un dispositif comprenant un tel capteur

Publication

EP 0943805 B1 20041215 (DE)

Application

EP 98810237 A 19980319

Priority

EP 98810237 A 19980319

Abstract (en)

[origin: EP0943805A1] The detection method is carried out using a learning sensor (2) for detecting cavitations in a pump chamber (120) due to rotation of an impeller (12). In two intervals (t1, t2) the sensor learns which signals correspond to cavitations and which correspond to non cavitations. Following the termination of the learning operation. The sensor following the learning operation, decides on the basis of specified criteria, whether in the chamber (120) being monitored, a cavitation exists or not exists, and produces a corresponding output signal.

IPC 1-7

F04C 15/04; **F04D 29/66**

IPC 8 full level

F04C 14/28 (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)

F04C 14/28 (2013.01 - EP US); **F04D 29/669** (2013.01 - EP US); **F04C 2270/78** (2013.01 - EP US); **F04C 2270/80** (2013.01 - EP US)

Cited by

EP2014924A1; DE102005019063B3; CN1324418C; CN104066994A; AU2016304021B2; AU2021218183B2; US11939760B2; US10316504B2; WO2009007393A1; US9169838B2; WO2017023421A1; WO2020082285A1; WO2071168A1; WO2013087708A3

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