

Title (en)

VIBRATION DAMPING DEVICE FOR PUMP

Title (de)

SCHWINGUNGSDÄMPFER FÜR EINE PUMPE

Title (fr)

DISPOSITIF D'AMORTISSEMENT DE VIBRATIONS POUR POMPE

Publication

EP 2960518 A3 20160120 (EN)

Application

EP 15161477 A 20150327

Priority

- JP 2014129380 A 20140624
- JP 2014129381 A 20140624

Abstract (en)

[origin: EP2960518A2] A vibration damping device 26 for a pump 1 includes a liquid flow path 27 which is disposed at an outer peripheral portion of a casing 11 positioned in a suction sump 5 and which accommodates liquid inside itself so that the liquid can flow. The liquid flow path 27 is provided with a liquid flow resistor 36 for suppressing flowing of the liquid in the liquid flow path 27. Flow resistance in combination with an effect of a liquid column dynamic vibration absorber absorbs earthquake vibration energy to thereby suppress vibrations.

IPC 8 full level

F04D 13/08 (2006.01); **F04D 29/52** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)

F04D 13/08 (2013.01); **F04D 29/528** (2013.01); **F04D 29/669** (2013.01)

Citation (search report)

- [XA] JP 2013122238 A 20130620 - TORISHIMA PUMP MFG CO LTD
- [XJ] JP 2003254282 A 20030910 - EBARA CORP
- [XA] JP 2006194100 A 20060727 - TORISHIMA PUMP MFG CO LTD
- [A] JP H11315795 A 19991116 - HITACHI LTD

Cited by

CN108806923A; WO2018114247A1; US10788023B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2960518 A2 20151230; EP 2960518 A3 20160120; EP 2960518 B1 20200205

DOCDB simple family (application)

EP 15161477 A 20150327