

Title (en)  
PULSATION DAMPING SYSTEM

Title (de)  
PULSATIONS DÄMPFUNGSSYSTEM

Title (fr)  
SYSTÈME D'AMMORTISATION DE PULSATION

Publication  
**EP 3791068 B1 20220223 (DE)**

Application  
**EP 19718326 A 20190415**

Priority  
• DE 102018110848 A 20180507  
• DE 102018110847 A 20180507  
• EP 2019059600 W 20190415

Abstract (en)  
[origin: WO2019214905A1] The invention relates to a pulsation damping system (100) for reducing pressure oscillations in inlet-side and/or outlet-side pipes (6, 13) of piston pumps (101, 102), comprising at least one piston pump (101, 102) having a pump chamber (2, 4), wherein the pump chamber (2, 4) is connected to a pump inlet channel (6) via a first fluid connection (6a) and to a pump outlet channel (13) via a second fluid connection (13a) in order to convey a conveyance medium (9). According to the invention, the pump chamber (2, 4) also has at least one damping fluid connection (20a, 29a) using which each pump chamber (2, 4) is fluidically connected to a damping device (103, 104) for damping pressure oscillations.

IPC 8 full level  
**F04B 11/00** (2006.01)

CPC (source: EP US)  
**F04B 11/00** (2013.01 - EP); **F04B 11/0016** (2013.01 - US); **F04B 11/0091** (2013.01 - US); **F04B 43/073** (2013.01 - US);  
**F04B 53/10** (2013.01 - US)

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

DOCDB simple family (publication)  
**WO 2019214905 A1 20191114**; AU 2019266890 A1 20201119; AU 2019266890 B2 20230413; AU 2023204415 A1 20230803;  
AU 2023204415 B2 20240307; BR 112020022574 A2 20210202; CN 112469898 A 20210309; EP 3791068 A1 20210317;  
EP 3791068 B1 20220223; PE 20210092 A1 20210111; US 11994118 B2 20240528; US 2021231113 A1 20210729

DOCDB simple family (application)  
**EP 2019059600 W 20190415**; AU 2019266890 A 20190415; AU 2023204415 A 20230707; BR 112020022574 A 20190415;  
CN 201980031194 A 20190415; EP 19718326 A 20190415; PE 2020001795 A 20190415; US 201917053073 A 20190415