

Title (en)
PRESSURE INCREASING DEVICE

Title (de)
DRUCKERHÖHUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'AUGMENTATION DE PRESSION

Publication
EP 3156651 B1 20210120 (DE)

Application
EP 15190110 A 20151016

Priority
EP 15190110 A 20151016

Abstract (en)
[origin: US2017107702A1] A pressure boosting device increases pressure of a fluid flowing through a conduit (5) and includes a booster pump (2), a control device (12), controlling the booster pump (2), as well as a pressure sensor (8) arranged at the exit side of the booster pump (2) and connected to the control device. The control device (12) is configured to control the booster pump, in an operating region, in a start-stop operation, a switching off of the booster pump (2) when reaching an upper pressure limit value (P1) and a switching on of the booster pump (2) when reaching a lower pressure limit value (P2). The control device (12) is further configured in a start-stop operation to automatically adapt at least one pressure control parameter (P1, P2) of the control device (12) on the basis of the temporal course of at least one pressure value (P) detected by the pressure sensor.

IPC 8 full level
F04B 49/02 (2006.01); **F04B 49/06** (2006.01)

CPC (source: CN EP RU US)
E03B 5/02 (2013.01 - US); **E03B 7/04** (2013.01 - RU); **E03B 7/09** (2013.01 - CN); **F04B 49/02** (2013.01 - EP US); **F04B 49/06** (2013.01 - EP US); **F04B 49/065** (2013.01 - EP US); **F04D 15/0027** (2013.01 - RU); **F04D 15/0066** (2013.01 - RU); **F04D 27/008** (2013.01 - US); **F04B 2205/04** (2013.01 - EP US); **F04B 2205/05** (2013.01 - EP US); **F04B 2205/06** (2013.01 - EP US)

Cited by
DE102019213530A1; BE1026577B1; BE1026539B1; US11976647B2; WO2020044231A1

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)
EP 3156651 A1 20170419; **EP 3156651 B1 20210120**; CN 106869249 A 20170620; CN 106869249 B 20200619; RU 2016140465 A 20180417; RU 2658719 C2 20180622; US 11326591 B2 20220510; US 2017107702 A1 20170420

DOCDB simple family (application)
EP 15190110 A 20151016; CN 201610902881 A 20161017; RU 2016140465 A 20161014; US 201615293708 A 20161014