

Title (en)
PRESSURE BOOSTER

Title (de)
DRUCKVERSTÄRKER

Title (fr)
SURPRESSEUR

Publication
EP 3839265 A4 20220420 (EN)

Application
EP 19849370 A 20190724

Priority
• JP 2018152815 A 20180815
• JP 2019028933 W 20190724

Abstract (en)
[origin: EP3839265A1] A pressure booster (10) in which drive cylinders (14, 16) are arranged at both sides of a boost cylinder (12), and which is equipped with: a pair of pilot valves (72, 74) equipped with knock pins (90) that come into contact with pistons (36, 38) of the drive cylinders at a moving end; and a pair of actuation valves (48, 52) for switching the supply state of a pressure fluid with respect to pressure chambers (24a, 26a) of the drive cylinders. When a piston presses against a knock pin and one or the other pilot valve thus switches to a first position, the state in which the pressure fluid is supplied to the pair of actuation valves is switched and a prescribed fluid pressure acts on the knock pin so as to keep the pilot valve in the first position.

IPC 8 full level
F15B 3/00 (2006.01); **F04B 9/115** (2006.01); **F04B 9/135** (2006.01)

CPC (source: EP KR)
F04B 7/00 (2013.01 - EP); **F04B 9/08** (2013.01 - EP); **F04B 9/115** (2013.01 - KR); **F04B 9/135** (2013.01 - EP KR); **F15B 3/00** (2013.01 - EP KR); **F15B 11/16** (2013.01 - KR); **F15B 13/06** (2013.01 - KR); **F15B 13/042** (2013.01 - EP); **F15B 2211/30505** (2013.01 - EP); **F15B 2211/355** (2013.01 - EP); **F15B 2211/6355** (2013.01 - EP); **F15B 2211/7725** (2013.01 - EP); **F15B 2211/8855** (2013.01 - EP)

Citation (search report)
• [A] WO 2018096739 A1 20180531 - SMC CORP [JP]
• [A] US 2296647 A 19420922 - MCCORMICK JOHN H
• [A] JP S4033392 Y1 19651122
• See also references of WO 2020036046A1

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

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