

Title (en)
PRESSURE BOOSTER

Title (de)
DRUCKVERSTÄRKER

Title (fr)
SURPRESSEUR

Publication
EP 3839265 A1 20210623 (EN)

Application
EP 19849370 A 20190724

Priority
• JP 2018152815 A 20180815
• JP 2019028933 W 20190724

Abstract (en)
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)

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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