

Title (en)
COMPRESSION-END PRESSURE CONTROL DEVICE AND ENGINE SYSTEM

Title (de)
VORRICHTUNG ZUR DRUCKREGELUNG AM KOMPRESSIONSENDE UND MOTORSYSTEM

Title (fr)
DISPOSITIF DE COMMANDE DE PRESSION D'EXTRÉMITÉ DE COMPRESSION ET SYSTÈME DE MOTEUR

Publication
EP 3730769 A4 20210922 (EN)

Application
EP 18890966 A 20181219

Priority
• JP 2017243275 A 20171219
• JP 2018046752 W 20181219

Abstract (en)
[origin: EP3730769A1] A compression-end pressure control device (300) is disclosed for controlling a supply amount of a pressurized working fluid for a variable compression device, the variable compression device that increases a compression ratio of a combustion chamber (R1) by supplying the working fluid to a fluid chamber (R3), the compression-end pressure control device (300) including: a compression ratio-setting device (305) that decreases a compression ratio of the combustion chamber (R1) by controlling the variable compression device in the case where a compression end pressure acquired in the combustion chamber (R1) is higher than a reference range determined in advance; and a variable compression device adjusting device (306) that controls a supply amount of the working fluid based on the compression ratio determined by the compression ratio-setting device (305).

IPC 8 full level
F02D 15/02 (2006.01); **F02B 75/04** (2006.01); **F02D 13/02** (2006.01); **F02D 19/02** (2006.01); **F02D 19/06** (2006.01); **F02D 35/02** (2006.01)

CPC (source: EP KR)
F02B 75/04 (2013.01 - KR); **F02B 75/044** (2013.01 - EP); **F02D 13/0249** (2013.01 - KR); **F02D 13/0284** (2013.01 - EP); **F02D 15/02** (2013.01 - EP KR); **F02D 19/029** (2013.01 - EP); **F02D 19/0647** (2013.01 - EP); **F02D 19/08** (2013.01 - KR); **F02D 35/023** (2013.01 - EP); **F02D 41/0025** (2013.01 - EP); **F02D 41/0027** (2013.01 - EP); **F02D 2200/0611** (2013.01 - EP); **F02D 2200/1015** (2013.01 - EP)

Citation (search report)
• [YA] WO 2015108138 A1 20150723 - IHI CORP [JP]
• [Y] WO 2007138794 A1 20071206 - TOYOTA MOTOR CO LTD [JP], et al
• [A] JP 2010024865 A 20100204 - TOYOTA MOTOR CORP
• [A] EP 3098416 A1 20161130 - IHI CORP [JP]
• [A] JP H02230949 A 19900913 - SUZUKI MOTOR CO
• See references of WO 2019124431A1

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 3730769 A1 20201028; **EP 3730769 A4 20210922**; CN 111465757 A 20200728; CN 111465757 B 20220812; JP 2019108869 A 20190704; JP 6954090 B2 20211027; KR 102371032 B1 20220307; KR 20200065080 A 20200608; WO 2019124431 A1 20190627

DOCDB simple family (application)
EP 18890966 A 20181219; CN 201880081593 A 20181219; JP 2017243275 A 20171219; JP 2018046752 W 20181219; KR 20207014356 A 20181219