

Title (en)
VARIABLE COMPRESSION-RATIO DEVICE

Title (de)
VORRICHTUNG MIT VARIABLEM VERDICHUNGSVERHÄLTNIS

Title (fr)
DISPOSITIF À TAUX DE COMPRESSION VARIABLE

Publication
EP 4159989 A2 20230405 (EN)

Application
EP 22195501 A 20220914

Priority
• JP 2021161719 A 20210930
• JP 2021166512 A 20211008

Abstract (en)
An object is to provide oil supply to a variable compression-ratio device. A variable compression-ratio device includes: a gear shaft (52) disposed inside a crankshaft (12) of an internal combustion engine (11) coaxially with the crankshaft (12) and configured to be rotationally driven by a power source (32); an input gear (51) connected to the gear shaft (52); an intermediate gear (50) supported by a crank web (16) of the crankshaft (12) and engaged with the input gear (51); an eccentric cam (31) disposed between a crank pin (17) of the crankshaft (12) and a large end (18a) of a connecting rod (18) and engaged with the intermediate gear (50); and a first oil channel (5) configured to supply lubricating oil to the input gear (51).

IPC 8 full level
F02B 75/04 (2006.01)

CPC (source: EP)
F02B 75/048 (2013.01)

Citation (applicant)
• JP 2012036934 A 20120223 - HONDA MOTOR CO LTD
• JP 2009503971 A 20090129

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

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KH MA MD TN

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EP 22195501 A 20220914; BR 102022018468 A 20220915