

Title (en)  
VARIABLE-LENGTH CONNECTING ROD FOR AN ENGINE WITH A CONTROLLED COMPRESSION RATIO

Title (de)  
LÄNGENVERÄNDERLICHE PLEUELSTANGE FÜR EINEN MOTOR MIT GEREGLTEM VERDICHTUNGSVERHÄLTNIS

Title (fr)  
BIELLE A LONGUEUR VARIABLE POUR MOTEUR A RAPPORT VOLUMETRIQUE PILOTE

Publication  
**EP 4055256 A1 20220914 (FR)**

Application  
**EP 20817454 A 20201104**

Priority  
• FR 1912336 A 20191104  
• FR 2020051987 W 20201104

Abstract (en)  
[origin: WO2021089940A1] The invention relates to a variable-length connecting rod (10) comprising: - A connecting rod head (102), designed to establish a pivot connection with a crankpin of a crankshaft, - A hydraulic circuit (104) for controlling the length of the connecting rod (10), - A system for controlling (110) the hydraulic circuit. The control system (110) comprising: - At least one linear hydraulic slide (111) arranged within a housing of the connecting rod head (102), - At least a first shoe (113) arranged on a sidewall of the connecting rod head (102), suitable for undergoing a bearing force exerted by a controlling member, the bearing force allowing the slide (111) to be moved, - A return means for bringing the slide (111) back to its resting position in the absence of the bearing force, - At least a second shoe (115) arranged on the sidewall of the connecting rod head (102) and suitable for undergoing the bearing force.

IPC 8 full level  
**F02B 75/04** (2006.01); **F16C 7/06** (2006.01); **F16K 15/04** (2006.01)

CPC (source: EP KR US)  
**F02B 75/045** (2013.01 - EP KR US); **F02D 15/02** (2013.01 - US); **F16C 7/06** (2013.01 - EP KR US); **F16C 9/04** (2013.01 - US); **F16C 23/10** (2013.01 - US); **F16C 2360/22** (2013.01 - US)

Citation (search report)  
See references of WO 2021089940A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**FR 3102814 A1 20210507**; **FR 3102814 B1 20211126**; CN 115298426 A 20221104; EP 4055256 A1 20220914; FR 3102813 A1 20210507; JP 2023500949 A 20230111; KR 20220090575 A 20220629; US 2023042411 A1 20230209; WO 2021089940 A1 20210514

DOCDB simple family (application)  
**FR 1912336 A 20191104**; CN 202080089946 A 20201104; EP 20817454 A 20201104; FR 1912874 A 20191119; FR 2020051987 W 20201104; JP 2022526707 A 20201104; KR 20227018993 A 20201104; US 202017755606 A 20201104