

Title (en)
INTERNAL COMBUSTION ENGINE AND STRADDLE-TYPE VEHICLE

Title (de)
Verbrennungsmotor und Grätschsitzzfahrzeug

Title (fr)
Moteur à combustion interne et véhicule de type deux-roues à selle

Publication
EP 2881557 A2 20150610 (EN)

Application
EP 14195086 A 20141127

Priority
• JP 2013251687 A 20131205
• JP 2014142616 A 20140710

Abstract (en)
An internal combustion engine (11) includes a first rocker arm (63), a second rocker arm (64) including a side face (74S) facing the first rocker arm (63), an intake valve (41), a solenoid (100) for moving a connecting pin (90) between a non-connecting position and a complete connecting position, and a drive signal supplying unit (120) for supplying a drive signal to the solenoid (100). The drive signal supplying unit (125) starts supplying the drive signal so as to cause a tip end (90T) of the connecting pin (90) to reach the position flush with a side face (74S) of the second rocker arm (64) after relative positions of the first rocker arm (63) and the second rocker arm (64) start to change, and to also cause the connecting pin (90) to reach the complete connecting position between the time when the second rocker arm (64) completes pivoting and the next time when the second rocker arm (64) starts to pivot.

IPC 8 full level
F01L 13/00 (2006.01); **B62K 11/04** (2006.01); **F01L 1/053** (2006.01); **F01L 1/18** (2006.01); **F01L 1/26** (2006.01); **F02B 61/02** (2006.01); **F02B 75/16** (2006.01)

CPC (source: EP)
F01L 1/267 (2013.01); **F01L 13/0036** (2013.01); **F02B 61/02** (2013.01); **F01L 1/181** (2013.01); **F01L 2001/0535** (2013.01); **F01L 2305/00** (2020.05); **F01L 2820/031** (2013.01)

Citation (applicant)
JP 2012077741 A 20120419 - HONDA MOTOR CO LTD

Cited by
IT202200002711A1; DE102017129124A1; WO2023156899A1

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)
EP 2881557 A2 20150610; **EP 2881557 A3 20160309**; **EP 2881557 B1 20170816**; BR 102014030451 A2 20160301;
BR 102014030451 B1 20230207; ES 2639180 T3 20171025; IN 3845MU2014 A 20151009; JP 2015129503 A 20150716;
JP 5883480 B2 20160315; TW 201533312 A 20150901; TW I572772 B 20170301

DOCDB simple family (application)
EP 14195086 A 20141127; BR 102014030451 A 20141204; ES 14195086 T 20141127; IN 3845MU2014 A 20141201;
JP 2014142616 A 20140710; TW 103140856 A 20141125