

Title (en)
VALVE DRIVE FOR GAS EXCHANGE VALVES OF AN INTERNAL COMBUSTION ENGINE, COMPRISING A MOVABLE CAM SUPPORT AND A TWIN WORM GEAR

Title (de)
VENTILTRIEB FÜR GASWECHSELVENTILE EINER BRENNKRAFTMASCHINE MIT VERSCHIEBBAREM NOCKENTRÄGER UND DOPPELSCHNECKENTRIEB

Title (fr)
MÉCANISME DE DISTRIBUTION POUR DES SOUPAPES D'ÉCHANGE DES GAZ D'UN MOTEUR À COMBUSTION INTERNE, DOTÉ D'UN PORTE-CAME MOBILE ET D'UN ENGRENAGE À DEUX VIS

Publication
EP 2132418 A1 20091216 (DE)

Application
EP 08716104 A 20080228

Priority
• EP 2008001576 W 20080228
• DE 102007010149 A 20070302

Abstract (en)
[origin: US2010269769A1] A valve drive assembly cooperable with gas exchange valves of an internal combustion engine having a cam shaft and at least one came support rotatably fixed and axially displaceable on the cam shaft and having at least two cam profiles selectively engageable with a roller provided on a follower engageable with a valve comprising a cam support having a cylindrical surface disposed coaxially with a cam shaft, provided with a pair of oppositely inclined, spiral grooves; and means selectively insertable into the grooves, coacting with side walls of such grooves as the cam shaft rotates to effect axial displacement of the cam support.

IPC 8 full level
F01L 13/00 (2006.01); **F01L 1/047** (2006.01)

CPC (source: EP US)
F01L 1/047 (2013.01 - EP US); **F01L 13/0036** (2013.01 - EP US); **F01L 1/185** (2013.01 - EP US); **F01L 1/2405** (2013.01 - EP US); **F01L 2001/0476** (2013.01 - EP US); **F01L 2013/0052** (2013.01 - EP US); **F01L 2305/00** (2020.05 - EP US)

Citation (search report)
See references of WO 2008107111A1

Cited by
US12071869B2; DE102013100632A1; DE102021100183A1; US12031460B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2010269769 A1 20101028; US 8365692 B2 20130205; AT E517234 T1 20110815; CN 101605967 A 20091216; CN 101605967 B 20120704; DE 102007010149 A1 20080904; EP 2132418 A1 20091216; EP 2132418 B1 20110720; JP 2010520395 A 20100610; JP 5404427 B2 20140129; WO 2008107111 A1 20080912

DOCDB simple family (application)
US 52966308 A 20080228; AT 08716104 T 20080228; CN 200880002400 A 20080228; DE 102007010149 A 20070302; EP 08716104 A 20080228; EP 2008001576 W 20080228; JP 2009551135 A 20080228