

Title (en)

CONTROL VALVE FOR A DEVICE FOR CHANGING THE CONTROL TIMES OF AN INTERNAL COMBUSTION ENGINE

Title (de)

STEUERVENTIL FÜR EINE VORRICHTUNG ZUR VERÄNDERUNG DER STEUERZEITEN EINER BRENNKRAFTMASCHINE

Title (fr)

SOUPAPE DE DISTRIBUTION DESTINEE A UN DISPOSITIF POUR MODIFIER LES TEMPS DE DISTRIBUTION D'UN MOTEUR A COMBUSTION

Publication

**EP 1924759 B1 20110223 (DE)**

Application

**EP 06762977 A 20060804**

Priority

- EP 2006007710 W 20060804
- DE 102005041393 A 20050901

Abstract (en)

[origin: WO2007025630A1] The invention relates to a control valve (20) for a device (1) for variably setting the control times of gas exchange valves (110, 111) of an internal combustion engine (100). Two working ports (A, B) and one supply port (24) are formed on an outer casing surface of a valve housing (22) of the control valve (20), the working ports (A, B) being arranged directly adjacent, and the supply port (24) adjoins them. Furthermore, there is provision for two pressure medium ducts (40, 41) to be formed on the control piston (30), at least one of the pressure medium ducts (40, 41) being embodied so that it is not rotationally symmetrical with respect to the longitudinal axis (36) of the control piston (30).

IPC 8 full level

**F01L 1/34** (2006.01)

CPC (source: EP KR US)

**F01L 1/34** (2013.01 - EP KR US); **F01L 1/3442** (2013.01 - EP US); **F01L 2001/34426** (2013.01 - EP US); **F01L 2001/3443** (2013.01 - EP US); **F01L 2001/34433** (2013.01 - EP US); **F01L 2001/34483** (2013.01 - EP US); **Y10T 137/86493** (2015.04 - EP US)

Cited by

DE102014209179A1; WO2015139696A1

Designated contracting state (EPC)

DE FR GB HU IT

DOCDB simple family (publication)

**DE 102005041393 A1 20070308**; CN 101253312 A 20080827; CN 101253312 B 20120509; DE 502006008954 D1 20110407; EP 1924759 A1 20080528; EP 1924759 B1 20110223; KR 101292391 B1 20130801; KR 20080040746 A 20080508; US 2008236529 A1 20081002; US 7849825 B2 20101214; WO 2007025630 A1 20070308

DOCDB simple family (application)

**DE 102005041393 A 20050901**; CN 200680032197 A 20060804; DE 502006008954 T 20060804; EP 06762977 A 20060804; EP 2006007710 W 20060804; KR 20087004996 A 20060804; US 6413506 A 20060804