

Title (en)

INTAKE OR DISCHARGE VALVE FOR A COMBUSTION ENGINE, AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

EIN- ODER AUSLASSVENTIL FÜR EINEN VERBRENNUNGSMOTOR SOWIE VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

SOUPAPE D'ADMISSION OU D'ÉCHAPPEMENT POUR MOTEUR A COMBUSTION INTERNE ET SON PROCÉDE DE RÉALISATION

Publication

EP 2215334 A1 20100811 (DE)

Application

EP 08843581 A 20081017

Priority

- EP 2008008792 W 20081017
- DE 102007052800 A 20071102

Abstract (en)

[origin: WO2009056239A1] Disclosed is an intake or discharge valve (1) for a combustion engine, comprising a valve disk (3) and a valve stem (2) that has a chromium layer (9) as a running surface. In order to increase the service life, a nickel layer (6) is provided between the basic material of the valve stem (2) and the chromium layer (9), and the chromium layer (9) is thicker than the nickel layer (6) that lies thereunder.

IPC 8 full level

F01L 3/04 (2006.01)

CPC (source: EP)

F01L 3/04 (2013.01)

Citation (search report)

See references of WO 2009056239A1

Cited by

DE102019129128A1

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

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007052800 B3 20090507; AT E508255 T1 20110515; DE 502008003457 D1 20110616; DK 2215334 T3 20110718; EP 2215334 A1 20100811; EP 2215334 B1 20110504; WO 2009056239 A1 20090507

DOCDB simple family (application)

DE 102007052800 A 20071102; AT 08843581 T 20081017; DE 502008003457 T 20081017; DK 08843581 T 20081017; EP 08843581 A 20081017; EP 2008008792 W 20081017