

Title (en)
METHOD FOR EVALUATING THE MARCH OF PRESSURE IN A COMBUSTION CHAMBER

Title (de)
VERFAHREN ZUR AUSWERTUNG DES BRENNRAUMDRUCKVERLAUFS

Title (fr)
PROCEDE D'EVALUATION DE LA COURBE DE LA PRESSION DANS UNE CHAMBRE DE COMBUSTION

Publication
EP 1034416 B2 20070314 (DE)

Application
EP 98958153 A 19980922

Priority
• DE 9802809 W 19980922
• DE 19741820 A 19970923

Abstract (en)
[origin: DE19741820A1] Combustion chamber pressure variation in each cylinder (10-13) is recorded by sensors (14-17).- DETAILED DESCRIPTION - The pressure is used to determine at least one of the valve control periods, 'exhaust opened', 'exhaust closed', 'inlet opened', 'inlet closed', as a function of crankshaft angle, detected by a further sensor, from which the events characterizing the valve control periods are evaluated. When the expansion line of the pressure curve changes so that the variation of pressure gradient with increasing volume or increasing crankshaft angle changes sign, 'exhaust opened' is inferred

IPC 8 full level
G01L 23/22 (2006.01); **G01L 23/24** (2006.01); **F01L 1/34** (2006.01); **F02D 35/02** (2006.01); **F02D 41/34** (2006.01); **F02D 45/00** (2006.01); **G01L 23/30** (2006.01); **G01M 15/00** (2006.01); **G01M 15/04** (2006.01); **F02D 13/02** (2006.01)

CPC (source: EP US)
F01L 1/34 (2013.01 - EP US); **F02D 35/023** (2013.01 - EP US); **F02D 41/009** (2013.01 - EP US); **F01L 2201/00** (2013.01 - EP US); **F02D 13/0215** (2013.01 - EP US); **F02D 13/0261** (2013.01 - EP US); **F02D 2041/001** (2013.01 - EP US)

Citation (opposition)
Opponent :
DE 4036847 A1 19910523 - MITSUBISHI ELECTRIC CORP [JP]

Cited by
CN107580655A

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
DE 19741820 A1 19990325; **DE 19741820 B4 20090212**; DE 59803230 D1 20020404; EP 1034416 A2 20000913; EP 1034416 B1 20020227; EP 1034416 B2 20070314; JP 2001517786 A 20011009; JP 4392987 B2 20100106; US 2001002587 A1 20010607; US 6276319 B2 20010821; WO 9915872 A2 19990401; WO 9915872 A3 19990603

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