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Patent Details

Patent: US7188600B1

Database: EPO

Depth: 1

Title: CYLINDER DEACTIVATION
INTERNAL COMBUSTION
ENGINE

Priority Date: 23/03/2006

Applicant Name: HONDA MOTOR CO LTD

Classification IPC: No classification-ipc found

Equivalents: US7188600B1, EP1632663A1,
JP2006077587A, US2007039586A1

Abstract

PROBLEM TO BE SOLVED: To provide a cylinder deactivation internal combustion engine capable of eliminating an output level difference when the cylinder number changes, without requiring high responsiveness for operation of a throttle valve. **SOLUTION:** This cylinder deactivation internal combustion engine is constituted so that a part of a plurality of cylinders can rest and is characterized in that the whole cylinders are dividedly constituted into a cylinder group of a plurality of groups, and the independent throttle valve TH is arranged in the respective cylinders, and an ECU 70 being a cylinder number control part is arranged for increasing the group number of the cylinder group operating in response to at least grip opening, and motors 21A and 21B and a throttle valve opening sensor 22 are arranged for putting the throttle valve TH of the cylinder existing in a deactivation state in a fully closing state with respective cylinder groups. **COPYRIGHT:** (C)2006,JPO&NCIPI

Relevance at a glance - Tag cloud of keywords in titles and abstracts of all patents in the network

Tag Cloud

a arranged b bank closed combustion control **cylinder** cylinders driving **engine** force
 fuel group groups hydraulic intake internal means mechanism oil **operation** part provided supply the
 throttle to **valve** valves

Patent Citation Diagram



Statistics

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Sparsity of Graph:0.104

Patent equivalents are now embedded in the network!

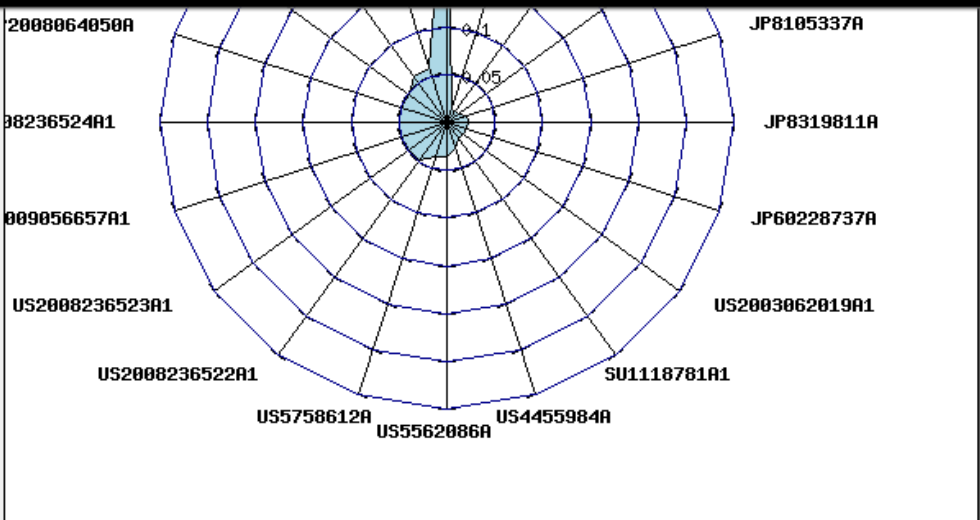
Title :Multi-cylinder engine
Patent Date :04/10/2007
Applicant Name :HONDA MOTOR CO. LTD
Priority Date :04/10/2007
Classification IPC :F02B75/20,F02D17/02,F01L13/00,F02D17/02,F01L13/00,F02D13/06
Abstract : To provide a multi-cylinder engine wherein, even where it is structured such that the path can be simplified to reduce the size and the weight of a cylinder head. A Solving Means on a cylinder head 40 is formed as a cylinder which can be cut off for each of combustion valve, a second intake valve 562, a first exhaust valve 571 and a second exhaust valve on opposite side to a cam chain case are formed as engine valves which can be cut off.
Equivalents :US2004200445A1, JP2004293379A, EP1462622A1, DE602004001701T2

*One invention may have patent applications and grants in different countries.
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Patent Dependency on Network Index (PDNI)

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Patent	PDNI	Bibliographic Information
US7188600B1		Title :Multi-cylinder engine Patent Date :04/10/2007 Applicant Name :HONDA MOTOR CO. LTD Priority Date :04/10/2007 Classification IPC :F02B75/20,F02D17/02,F01L13/00,F02D17/02,F01L13/00,F02D13/06 Abstract : To provide a multi-cylinder engine wherein, even where it is structured such that a cam chain case is provided on a side portion of the engine, a working fluid supply path can be simplified to reduce the size and the weight of a cylinder head. <i>Solving Means</i> A multi-cylinder engine wherein at least one of a plurality of engine valves provided on a cylinder head 40 is formed as a cylinder which can be cut off for each of combustion chambers 43 corresponding to cylinder bores 37 is configured such that a first intake valve, a second intake valve 562, a first exhaust valve 571 and a second exhaust valve which are all engine valves in a #1 cylinder and a #2 cylinder that are positioned on the opposite side to a cam chain case are formed as engine valves which can be cut off. Equivalents :US2004200445A1, JP2004293379A, EP1462622A1, DE602004001701T2
US2004237934A1		
US2004200445A1		
US2009056657A1		
US2008236524A1		
US2008236523A1		
US2008236522A1	0.0497	
US2008236520A1	0.0497	
JP2008064050A	0.0497	
US5758612A	0.0377	
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US4455984A	0.029	
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JP8105337A	0.0217	
JP60228737A	0.0217	
US5636609A	0.0145	

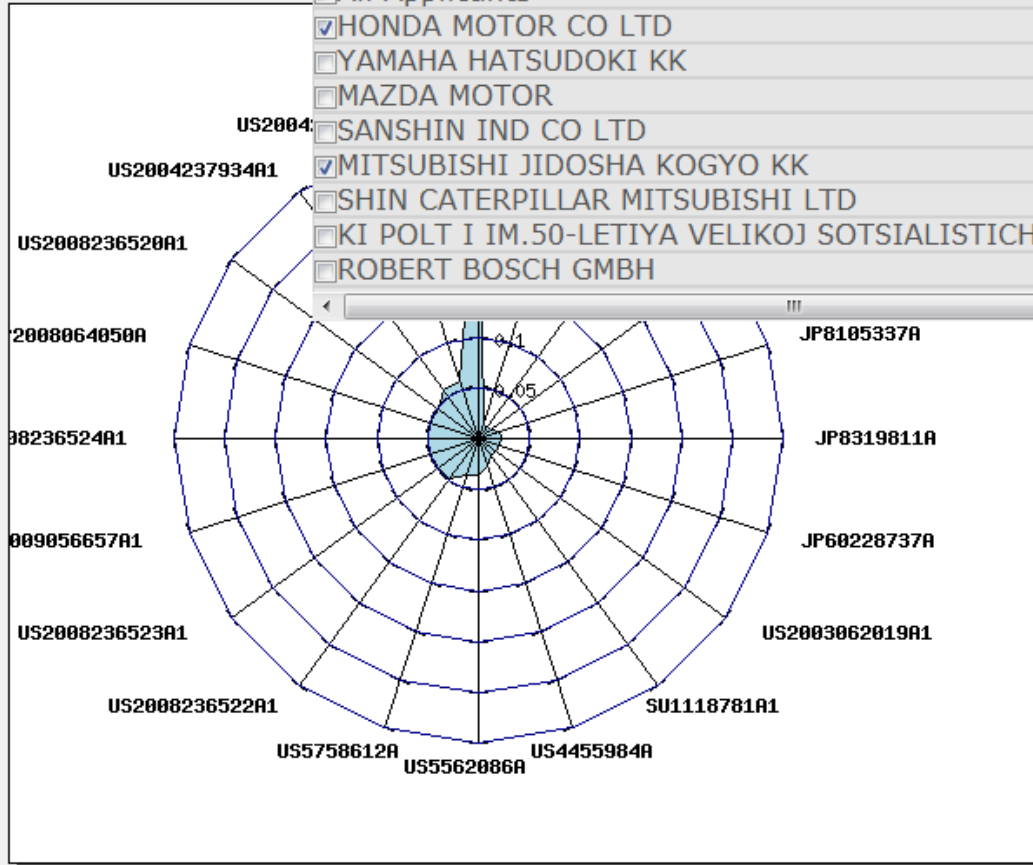
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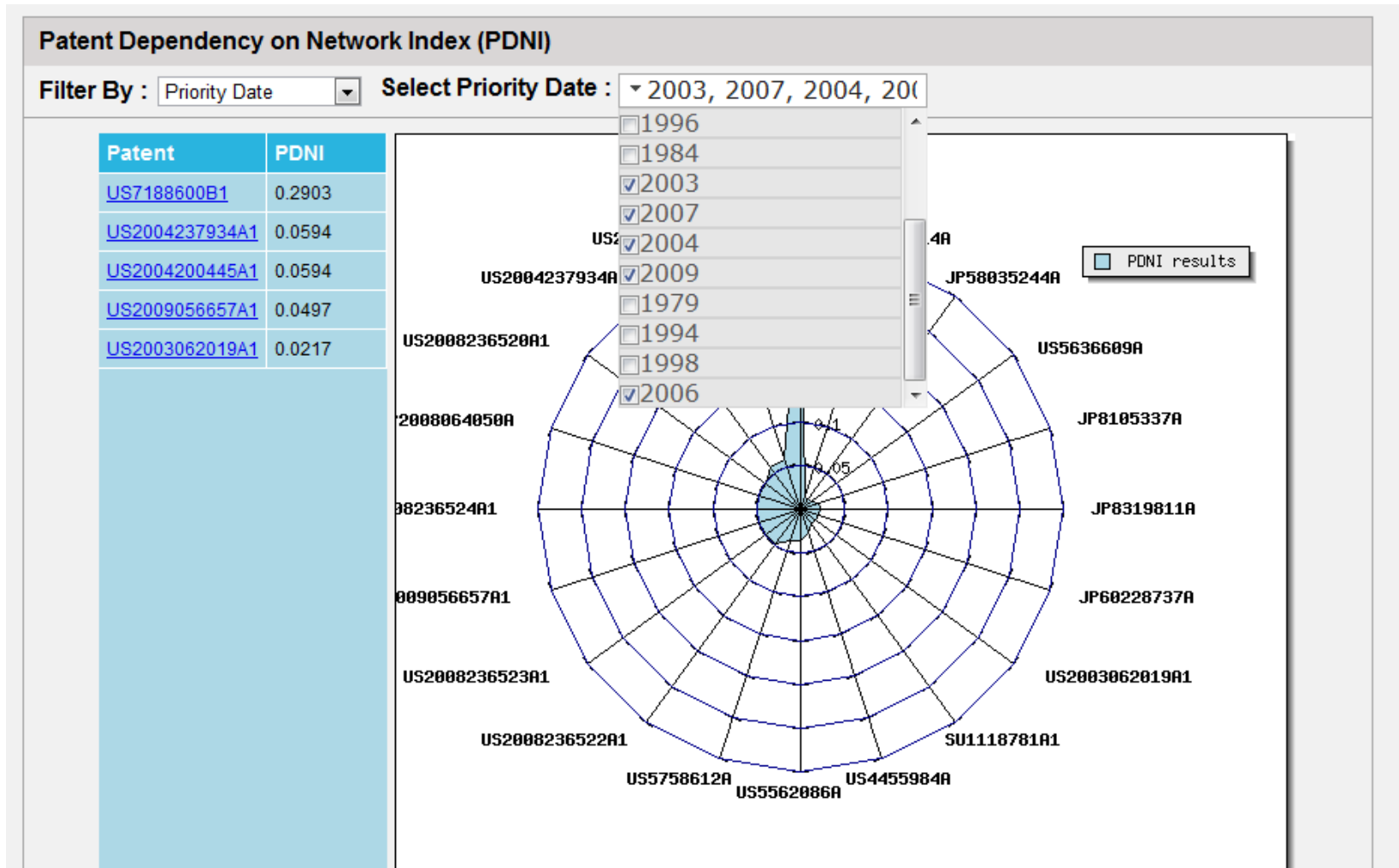
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Patent	PDNI
US7188600B1	0.2903
JP2008064050A	0.0497
JP8105337A	0.0217
US5636609A	0.0145

- All Applicants
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- YAMAHA HATSUDOKI KK
- MAZDA MOTOR
- SANSHIN IND CO LTD
- MITSUBISHI JIDOSHA KOGYO KK
- SHIN CATERPILLAR MITSUBISHI LTD
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