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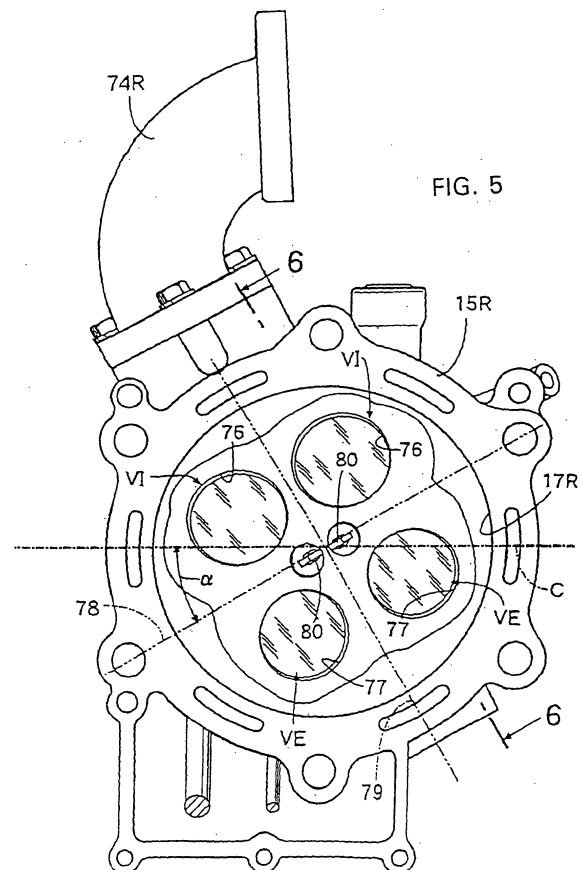
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(54) **Four-cycle engine**

(57) The invention provides a four-cycle engine, in which a pair of intake valve ports openable/closable by respective intake valves and a pair of exhaust valve ports openable/closable by respective exhaust valves are provided in a cylinder head in such a manner as to be positioned on both sides of a first virtual plane containing the axial line of a cylinder bore and passing through an approximately central portion of a combustion chamber, and a pair of ignition plugs are mounted in the cylinder head, characterized by minimizing the degradation of a flame propagation condition even if there occurs accidental fire in either of both the ignition plugs.

A pair of ignition plugs (80), which are disposed substantially symmetrically with respect to a second virtual plane (79) passing through the center of a combustion chamber (17R) and being perpendicular to a first virtual plane (78), are mounted in a cylinder head (15R) in such a manner as to have axial lines extending substantially in parallel to the first virtual plane (78) and to be tilted with a distance therebetween becoming smaller toward the combustion chamber (17R); and end portions, projecting in the combustion chamber (17R), of the ignition plugs (80) are disposed in a region surrounded by intake valve ports (76) and exhaust valve ports (77).





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EUROPEAN SEARCH REPORT

Application Number
EP 01 12 1944

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 30 April 2003	Examiner Clot, P
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	
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ANNEX TO THE EUROPEAN SEARCH REPORT
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