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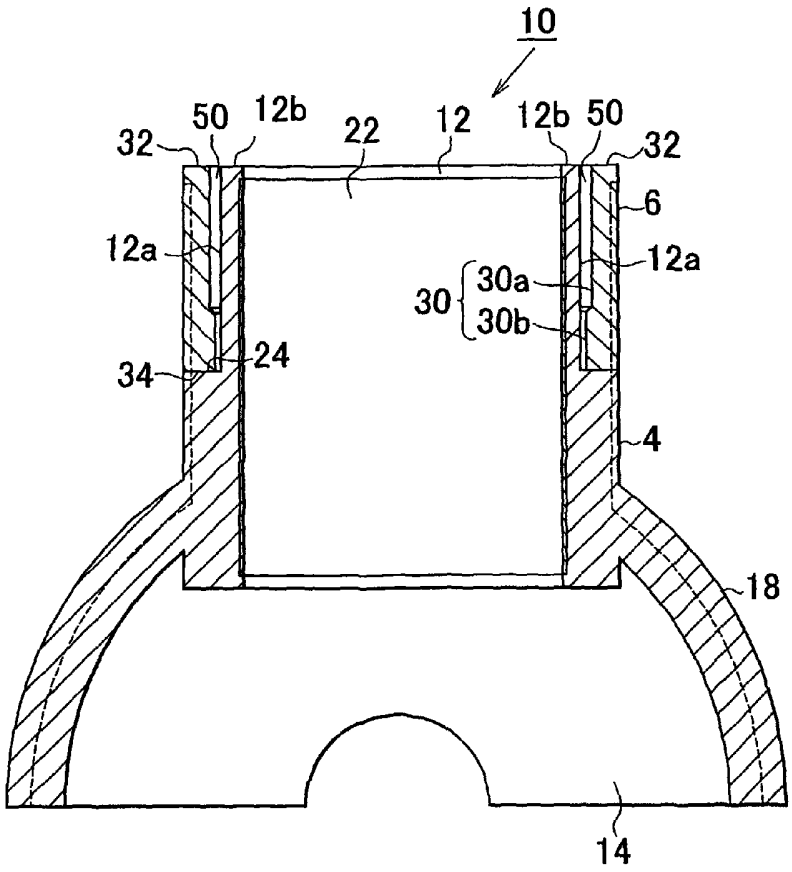
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(54) Title: CYLINDER BLOCK, CYLINDER HEAD, AND ENGINE MAIN BODY



(57) Abstract: A cylinder block (10) is such that a main body cylinder block (4; 404) and an outer cylinder block (6; 406) are molded separately. As a result, the portion of the die which is used to mold a water jacket (50; 450) does not need to be made thin, thereby increasing the life of the die. Further, cylinders (12; 412) are of a simple shape and the pressure in the axial direction of the cylinder (12; 412) is able to be dispersed substantially evenly between the cylinders (12; 412) and the outer cylinder block (6; 406), thus enabling the cylinders (12; 412) to be thin. Accordingly, there is an increased degree of freedom in design of the portion which forms the water jacket (50; 450). The water jacket (50; 450) and the cylinders (12; 412) can therefore both be made sufficiently thin, thereby contributing to a decrease in both the size and weight of the engine.

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 4 930 470 A (FONTICHIARO DOMINIC ET AL) 5 June 1990 (1990-06-05) column 2, line 30 - column 3, line 45; figures	1-7,22 13-21,23
A	US 4 848 292 A (HOLTZBERG MATTHEW) 18 July 1989 (1989-07-18) column 3, line 2 - column 3, line 53; figures	1-26
A	DE 44 08 137 A (BAYERISCHE MOTOREN WERKE AG) 14 September 1995 (1995-09-14) column 1, line 15 - column 1, line 57; figures 1,3,4 column 2, line 2 - column 2, line 61	1,2,5-7, 13,14, 17-19, 21-23

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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