

Title (en)

COOLING SYSTEM FOR THE VALVE SEATS IN THE CYLINDER HEAD OF AN INTERNAL-COMBUSTION ENGINE

Publication

EP 0356641 A3 19900523 (DE)

Application

EP 89111053 A 19890619

Priority

DE 3829339 A 19880830

Abstract (en)

[origin: JPH02104908A] PURPOSE: To effectively use an existing lubricating oil circulating path to realize maximum heat transmission and uniform cooling by, in an annular passage surrounding a valve seat ring, making a supply duct and a discharge duct approach to each other to form an opening. CONSTITUTION: In a cylinder head 1, a valve seat ring 5 is arranged in each air exhaust passage 4, and the valve seat ring 5 is surrounded by an annular passage 6. Further, the annular passage 6 comprises a supply duct 7 and a discharge duct 8, which approach to each other to hold a projection 16 and are bored in openings 9 and 10. Therefore, lubricating oil supplied from the supply duct 7 is exhausted from the discharge duct 8 after the lubricating oil circulates in the annular passage 6. As a consequence, the valve seat ring 5 can be uniformly cooled by the lubrication oil as a coolant.

IPC 1-7

F02F 1/40

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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- [A] FR 1012328 A 19520708 - SULZER AG
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CN102135048A; DE102014012807A1

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DE 3829339 C1 19891214; DE 58902410 D1 19921112; EP 0356641 A2 19900307; EP 0356641 A3 19900523; EP 0356641 B1 19921007; JP H02104908 A 19900417; US 4941436 A 19900717

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