

Title (en)

Process for obtaining a continuous metallurgical bond between the linings of the cylinders and the cast which constitutes the crankcase of an internal-combustion engine.

Title (de)

Verfahren für einen kontinuierlichen Metallbund zwischen Zylinderfutter und Kurbelgehäuseguss einer Brennkraftmaschine.

Title (fr)

Procédé pour obtenir une bondage métallurgique continue entre des fourreaux cylindres et un bâtiment-moteur moulé d'un moteur à combustion interne.

Publication

EP 0450722 A1 19911009 (EN)

Application

EP 91200747 A 19910329

Priority

IT 1996890 A 19900406

Abstract (en)

A process for obtaining a continuous metallurgical bond between the linings of the cylinders and the cast which constitutes the crankcase of an internal-combustion engine, which crankcase is made from a material different from the material which constitutes the linings, is disclosed, which process comprises carrying out a surface treatment by depositing a thin metal layer on the external surface of the lining, which metal is different from the metals which constitute the lining and the crankcase cast, and is capable of increasing the wettability of, and the heat transfer coefficient between, the materials which constitute the lining and the cast; and casting around the same lining, positioned inside the mould, the metal or metal alloy from which the crankcase is made.

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IPC 8 full level

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Citation (search report)

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- [A] FR 1340869 A 19631025 - WILLYS MOTORS
- [X] PATENT ABSTRACTS OF JAPAN, vol. 11, no. 54 (M-563)[2501] 19 February 1987; & JP-A-61 215 439 (YANMAR DIESEL ENGINE CO. LTD.) 25 September 1986
- [A] PATENT ABSTRACTS OF JAPAN, vol. 14, no. 113 (M-944)[4056] 02 March 1990; & JP-A-01 313 652 (ISUZU MOTORS LTD.) 19 December 1989
- [A] PATENT ABSTRACTS OF JAPAN, vol. 12, no. 145 (M-693)[2992] 06 May 1988; & JP-A-62 265 453 (HONDA MOTOR CO. LTD.) 18 November 1987

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