

Title (en)

METHOD FOR CONTINUOUSLY PRODUCING A WEAR RESISTANT METAL-HARD MATERIAL COMPOSITE BY CENTRIFUGAL CASTING

Publication

EP 0335012 B1 19930512 (DE)

Application

EP 88121821 A 19881229

Priority

DE 3807512 A 19880308

Abstract (en)

[origin: EP0335012A1] In order to produce a wear-resistant hard-metal material composite in a continuous fashion by centrifugal casting (vertical and horizontal centrifugal casting), solid, pulverulent and/or granular, synthetic, metallic and/or non-metallic hard materials are from time to time during the casting process injected into the metal stream flowing into the mould, by means of a conveying device and using an inert conveying gas. As a result of the associated simplicity of parameter control, the armouring of large, rotationally symmetrical components, such as rolls and rollers, against wear using solid synthetic hard materials by casting is for the first time possible in an economical and reproducible manner. By agglomeration of hard materials and metals of different densities with the aid of organic and inorganic binders, it is possible to use even very hard low-density borides, oxides and carbides which dissolve very slowly in molten metals for armouring the outer surface of the casting, namely the surface facing the mould wall. <IMAGE>

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B22D 13/00; **B22D 19/08**

IPC 8 full level

B22D 13/00 (2006.01); **B22D 19/08** (2006.01)

CPC (source: EP)

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Cited by

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