

Title (en)

PROCESS FOR PRODUCING A METALLIC COMPOSITE BODY HAVING A REGION OF HIGH WEAR RESISTANCE AND APPARATUS FOR CARRYING OUT THE PROCESS

Publication

EP 0386515 A3 19901031 (DE)

Application

EP 90103205 A 19900220

Priority

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Abstract (en)

[origin: EP0386515A2] Particularly in the field of comminution technology, components are required in which the wear-resistant zone covered with sintered material particles would have to run parallel to the axis of solidification of the composite body to be produced. For this purpose, a production process using electroslag remelting and proceeding with addition of sintered material particles is proposed, wherein a solid metallic insertion body (2) is introduced into the mould (1) before the start of the electroslag remelting in such a way that the block (3) filling the remaining cross-section of the mould represents, together with the insertion body, a part of the composite body to form a slag-free joining zone (4). The continuously added sintered material particles (9) are thus incorporated in such a way that, in the block (3) at least one zone of high wear resistance extending over the entire height thereof in the longitudinal direction of the mould and at least over a part of the cross-section thereof is produced. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- [AD] EP 0164002 A1 19851211 - KRUPP GMBH [DE]
- [A] VDI-BERICHTE, Nr. 670, 1988, Seiten 323-336, Essen, DE; P. PANT et al.: "Neuartige Bauteile für den Einsatz bei extremen Verschleissbeanspruchungen"

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