

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

DE 3907020 A 19890304

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>

IPC 1-7

**B22D 23/10**

IPC 8 full level

**B22D 23/10** (2006.01); **C22C 1/10** (2006.01)

CPC (source: EP)

**B22D 19/02** (2013.01); **B22D 19/16** (2013.01); **B22D 23/10** (2013.01); **C22C 1/1036** (2013.01)

Citation (search report)

- [A] DE 3515381 A1 19861106 - SCHATZ WERNER
- [AD] EP 0164002 A1 19851211 - KRUPP GMBH [DE]
- [A] VDI-BERICHT, Nr. 670, 1988, Seiten 323-336, Essen, DE; P. PANT et al.: "Neuartige Bauteile für den Einsatz bei extremen Verschleissbeanspruchungen"

Cited by

US8757244B2; GB2289288A; GB2289288B; US8230899B2; US9027374B2; US8789254B2; WO9426942A1; WO9411541A1; US11059089B2; US11059088B2; US9327342B2; US10207312B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0386515 A2 19900912; EP 0386515 A3 19901031**

DOCDB simple family (application)

**EP 90103205 A 19900220**