

Title (en)

PROCESS FOR PREPARING ARTICLES BY POWDER METALLURGY, ESPECIALLY ELONGATED ARTICLES SUCH AS RODS, SECTIONS, TUBES OR SUCH

Publication

EP 0327064 A3 19891220 (DE)

Application

EP 89101731 A 19890201

Priority

- SE 8800365 A 19880205
- SE 8800366 A 19880205

Abstract (en)

[origin: EP0327064A2] In a process for producing powder-metallurgical articles, especially elongate articles such as rods, sections, tubes or the like, powder of metal and/or metal alloys of high hardness, especially tool steel powder or high-speed steel powder, is filled into a thin-walled capsule, the capsule is then sealed air-tight, heated and isostatically pressed to produce a blank which is then hot-formed, especially extruded, to give the end product. In a first alternative, the capsule sealed air-tight is first heated to a temperature of more than 1000 DEG C. After the capsule has been fully heated through, it is held for a prolonged period at an elevated temperature. The capsule is then slowly cooled for cold-isostatic pressing before the final forming. Alternatively, the capsule is first cold-isostatically pressed after the air-tight sealing. The pressed blank is then heated to a temperature of more than 1000 DEG C. After the pressed blank has been fully heated through, it is held for a prolonged period at an elevated temperature and is then, either immediately or after prior cooling, hot-formed, especially extruded.

IPC 1-7

B22F 3/12

IPC 8 full level

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CPC (source: EP KR US)

B22F 3/1208 (2013.01 - EP US); **B22F 3/20** (2013.01 - EP US); **B22F 5/00** (2013.01 - KR)

Citation (search report)

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- [Y] GB 1590953 A 19810610 - POWDREX LTD
- [A] EP 0165409 A1 19851227 - KLOSTER SPEEDSTEEL AB [SE]
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EP0814172A1; WO9748829A1

Designated contracting state (EPC)

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

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