

Title (en)
HARD MATERIAL SINTERED COMPACT WITH A NICKEL- AND COBALT-FREE, NITROGENOUS STEEL AS BINDER OF THE HARD PHASE

Title (de)
HARTSTOFF-SINTERFORMTEIL MIT EINEM NICKEL- UND KOBALTFREIEN, STICKSTOFFHALTIGEN STAHL ALS BINDER DER HARTSTOFFPHASE

Title (fr)
PIECE MOULEE EN SUBSTANCE DURE COMPORTANT UN ACIER EXEMPT DE NICKEL ET DE COBALT ET CONTENANT DE L'AZOTE, SERVANT DE LIANT DE LA PHASE DE SUBSTANCE DURE

Publication
EP 1144702 A1 20011017 (DE)

Application
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Priority
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Abstract (en)
[origin: US6641640B1] Hard sintered moldings having a nickel- and cobalt-free, nitrogen-containing steel as a binder of the hard phase, processes for the powder metallurgical production of these hard sintered moldings, in particular by powder injection molding, and powder injection molding materials for the production of these hard sintered moldings by powder injection molding.

IPC 1-7
C22C 1/05; **C22C 29/06**; **C23C 8/24**

IPC 8 full level
C22C 29/00 (2006.01); **B22F 3/02** (2006.01); **B22F 3/10** (2006.01); **B22F 3/22** (2006.01); **B24D 3/06** (2006.01); **C22C 1/05** (2006.01); **C22C 29/02** (2006.01); **C22C 29/06** (2006.01); **C22C 29/08** (2006.01); **C22C 29/16** (2006.01); **C23C 8/24** (2006.01)

CPC (source: EP KR US)
B22F 3/225 (2013.01 - EP US); **C22C 1/05** (2013.01 - KR); **C22C 29/067** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

C-Set (source: EP US)
1. **B22F 2998/00** + **B22F 3/225**
2. **B22F 2998/10** + **B22F 3/22** + **B22F 3/1021** + **C23C 8/26**
3. **B22F 2999/00** + **C22C 1/051** + **B22F 3/22** + **B22F 3/1021**

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Cited by
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US 6641640 B1 20031104; AU 1860100 A 20000619; CN 1113968 C 20030709; CN 1333839 A 20020130; DE 19855422 A1 20000608; EP 1144702 A1 20011017; IL 143348 A0 20020421; IL 143348 A 20040927; JP 2002531693 A 20020924; KR 100674048 B1 20070125; KR 20010080641 A 20010822; RU 2001118043 A 20031027; TW 509726 B 20021111; WO 0032828 A1 20000608

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