Title (en)

## PROCESS FOR MANUFACTURING A WEAR-RESISTANT SINTERED ALLOY

Publication

EP 0263373 B1 19920701 (DE)

Application

EP 87114025 A 19870925

Priority

DE 3633879 A 19861004

Abstract (en)

[origin: EP0263373A2] The process is intended for producing mass components by conventional sintering technology and without additional hardening treatment, which are equivalent to hard castings with respect to their wear properties. They should have a surface hardness of about 50 Rockwell and only slight shrinkage. This is achieved by means of a sintered iron-nickel-copper-molybdenum alloy with added phosphorus, which has a carbon content of at least twice the added phosphorus. Essentially, its composition is as follows: 1.0-5.0% by weight of nickel (Ni) 1.0-3.0% by weight of copper (Cu) 0.3-1.0% by weight of molybdenum (Mo) 0.3-0.6% by weight of phosphorus (P) 1.0-2,5% by weight of carbon (C), remainder: iron (Fe).

IPC 1-7

C22C 33/02

IPC 8 full level

C22C 33/02 (2006.01)

CPC (source: EP US)

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DOCDB simple family (publication)

**EP 0263373 A2 19880413**; **EP 0263373 A3 19890802**; **EP 0263373 B1 19920701**; AT E77846 T1 19920715; DE 3633879 A1 19880414; DE 3633879 C2 19920116; DE 3780114 D1 19920806; ES 2033761 T3 19930401; US 4909843 A 19900320

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