

Title (en)
Powdered high speed tool steel.

Title (de)
Schnellstahlpulver.

Title (fr)
Poudre d'acier rapide.

Publication
EP 0377307 A1 19900711 (EN)

Application
EP 89313418 A 19891221

Priority
JP 33007788 A 19881227

Abstract (en)
Disclosed is a powdered high speed tool steel of good wear resistance and toughness. The powdered high speed tool steel have the alloy composition essentially consisting of 1.2 - 4.5 % of C, up to 3.0 % of Si, up to 3.0 % of Mn, 3.0 - 6.0 % of Cr, 15.0 - 60.0 % of W (up to 30.0 % thereof may be replaced by Mo), 1.0 - 15.0 % of V and up to 20.0 % of Co, and the balance substantially of Fe, and the carbide particles in the steel is relatively large, and those having Heywood diameters 1 micron or more share at least 10 volume % of the whole carbide particles.

IPC 1-7
C22C 33/02; **C22C 38/24**

IPC 8 full level
C22C 33/02 (2006.01); **C22C 38/00** (2006.01); **C22C 38/24** (2006.01); **C22C 38/30** (2006.01)

CPC (source: EP)
C22C 33/0278 (2013.01); **C22C 38/24** (2013.01)

Citation (search report)
• [X] EP 0076326 A1 19830413 - FURUKAWA ELECTRIC CO LTD [JP], et al
• [Y] US 4032302 A 19770628 - NAKAMURA HIDEKI, et al
• [Y] DE 2851100 A1 19800103 - TOYOTA MOTOR CO LTD
• [Y] PATENT ABSTRACTS OF JAPAN, vol. 4, no. 73 (C-012), 28th May 1980; & JP-A-55 038 938 (MITSUBISHI METAL CORP.) 18-03-1980

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