

Title (en)

IMPROVEMENTS TO STEEL FOR FORMING TOOLS

Title (de)

VERBESSERTE STÄHLE FÜR FORMGEBUNGSWERKZEUGE

Title (fr)

PERFECTIONNEMENTS APPORTES AUX ACIERS POUR OUTILS DE MISE EN FORME

Publication

**EP 0990055 B1 20020807 (FR)**

Application

**EP 98920603 A 19980409**

Priority

- FR 9800725 W 19980409
- FR 9612339 A 19961004

Abstract (en)

[origin: FR2754275A1] Steel made by powder metallurgy from pre-alloyed powder comprises by weight less than 1%, preferably 0.20-0.40% manganese, less than 1% preferably 0.20-0.40%, silicon, 6.05-6.45% chromium, 2.50-3.50% preferably 2.75-3.25%, molybdenum, 0.80-2% preferably 0.90-1.30% vanadium, less than 0.5% tungsten, less than 0.020% sulphur, less than 0.030% phosphorous, 0.60-1.60% preferably 0.70-1.10% niobium, 2-5% preferably 2.60-3.40% cobalt, 0.050-0.080% nitrogen, less than 0.060% aluminium, 0.75-0.95% preferably 0.78-0.85% carbon and less than 0.50 preferably less than 0.30% nickel, the remainder being iron and impurities.

IPC 1-7

**C22C 33/02**; **C22C 38/30**

IPC 8 full level

**B22F 1/00** (2006.01); **C22C 33/02** (2006.01); **C22C 38/22** (2006.01); **C22C 38/30** (2006.01)

CPC (source: EP)

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