

Title (en)

Process for producing a compacted powder metal part.

Title (de)

Verfahren zur Herstellung eines Presskörpers aus Metallpulver.

Title (fr)

Procédé de fabrication d'une pièce compactée à partir de poudre métallique.

Publication

**EP 0024217 A1 19810225 (EN)**

Application

**EP 80302885 A 19800820**

Priority

US 6824879 A 19790820

Abstract (en)

A process for producing a powder metal part uses a powder metal composition substantially comprising 1.0 - 2.5% Ni, 0.3 - 0.7% Mo, 0.15 - 0.30% Mn, 0.5 - 1.5% Cu, 0.3 - 0.7% C, and 0.5- 1.0% zinc stearate, the balance being Fe. This is first compacted. The compacted mass is sintered at a temperature in the range about 2000 DEG F to 2150 DEG F for a time in the range about 15 to 30 minutes in a furnace having a dew point ranging from about 20 DEG F to 60 DEG F and under an endothermic atmosphere. The part as sintered has good strength and the product has improved machineability.

IPC 1-7

**C22C 33/02**; **C22C 38/16**; **B22F 3/12**

IPC 8 full level

**B22F 3/10** (2006.01); **C22C 33/02** (2006.01)

CPC (source: EP)

**C22C 33/0264** (2013.01)

Citation (search report)

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