

Title (en)

Powder metallurgy apparatus and process using electrostatic die wall lubrication

Title (de)

Verfahren und Werkzeug der Pulvermetallurgie mit elektrostatischer Schmierung der Wände der Pressform

Title (fr)

Procédé et installation de la métallurgie des poudres comprenant une lubrification électrostatique des parois de la matrice

Publication

**EP 0698435 A1 19960228 (EN)**

Application

**EP 95113167 A 19950822**

Priority

- US 29497994 A 19940824
- US 47946495 A 19950607

Abstract (en)

A method of making a metal composite part by compacting a metal powder composition in a die whose wall surfaces have been electrostatically coated with a lubricant, thereby eliminating or reducing a lubricant in the metal powder composition, resulting in a metal composite having greater density and strength. The method further includes providing an electrostatic charge to the metal powder composition. A powder metallurgy apparatus is also provided. <MATH>

IPC 1-7

**B22F 3/02**; B30B 15/00

IPC 8 full level

**B21J 3/00** (2006.01); **B22F 3/02** (2006.01); **B30B 15/00** (2006.01); **C22C 1/04** (2006.01); **C22C 33/02** (2006.01)

CPC (source: EP)

**B21J 3/00** (2013.01); **B22F 3/02** (2013.01); **B30B 15/0011** (2013.01); **B22F 2003/026** (2013.01)

Citation (applicant)

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