

Title (en)

APPARATUS FOR THE CONTINUOUS EXTRUSION OF ELECTRICALLY CONDUCTIVE GRANULAR MATERIALS, PREFERABLY METAL POWDER

Publication

EP 0013747 B1 19840222 (DE)

Application

EP 79105276 A 19791219

Priority

DE 2903510 A 19790130

Abstract (en)

[origin: US4380473A] A process for the continuous extrusion of electrically conductive granulated materials, preferably powder metallurgy materials, wherein the material is introduced into a duct of a die and is compressed and moved along the duct to and through a nozzle on the die by a punch movable in the duct, the material being sintered by heating it with electrical current passed therethrough via electrical connections made with the punch and nozzle.

IPC 1-7

B22F 3/20; **B30B 11/26**

IPC 8 full level

B21C 23/04 (2006.01); **B22F 3/105** (2006.01); **B22F 3/14** (2006.01); **B22F 3/20** (2006.01); **B22F 5/12** (2006.01); **B30B 11/26** (2006.01)

CPC (source: EP US)

B22F 3/20 (2013.01 - EP US); **B30B 11/26** (2013.01 - EP US)

Citation (examination)

US 3760137 A 19730918 - SHIMOJO T, et al

Cited by

CN106964778A; CN117849888A

Designated contracting state (EPC)

AT FR GB IT

DOCDB simple family (publication)

EP 0013747 A1 19800806; **EP 0013747 B1 19840222**; AT E6348 T1 19840315; CS 222170 B2 19830527; DD 160099 A5 19830504; DE 2903510 B1 19800807; DE 2903510 C2 19810625; JP S55131105 A 19801011; JP S5834523 B2 19830727; SE 7910582 L 19800731; SU 1050552 A3 19831023; US 4380473 A 19830419; US 4420294 A 19831213; ZA 8091 B 19801231

DOCDB simple family (application)

EP 79105276 A 19791219; AT 79105276 T 19791219; CS 881679 A 19791214; DD 21857980 A 19800122; DE 2903510 A 19790130; JP 767480 A 19800125; SE 7910582 A 19791221; SU 2863758 A 19800104; US 11508280 A 19800124; US 32353781 A 19811120; ZA 8091 A 19800107