

Title (en)

METHOD AND DEVICE FOR OBTAINING AN IRON-BASED AMORPHOUS METAL ALLOY WIRE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON AMORPHEM METALLDRAHT AUF EISENBASIS

Title (fr)

PROCEDE ET DISPOSITIF POUR OBTENIR UN FIL EN ALLIAGE METALLIQUE AMORPHE A BASE DE FER

Publication

EP 0586481 B1 19960821 (FR)

Application

EP 92911285 A 19920522

Priority

- FR 9200458 W 19920522
- FR 9106370 A 19910527

Abstract (en)

[origin: WO9221460A1] Method and device for obtaining an iron-based amorphous metal alloy wire (12) by providing a jet (7) of molten alloy (4) through the orifice (60) of a dye (6), and introducing said jet (7) in a cooling liquid (9) pressed by centrifugal force against the internal wall of a rotary drum. The crucible (2) containing the alloy (4) and the dye (6) are made of different materials and are joined by a seal (25) made from material different from those of the crucible (2) and of the dye (6). Furthermore, means (3) are used to heat the alloys (4) both in the crucible (2) and in the dye (6) and an inert or reducing gas is supplied directly to contact a jet (7) at the outlet of the dye (6). The wire (12) obtained using said method or device may be used, for example, for reinforcing tyre casings.

IPC 1-7

B22D 11/06

IPC 8 full level

B22D 11/06 (2006.01); **B60C 5/08** (2006.01); **C22C 45/02** (2006.01)

CPC (source: EP US)

B22D 11/062 (2013.01 - EP US); **B22D 11/0642** (2013.01 - EP US); **C22C 45/02** (2013.01 - EP US)

Citation (examination)

PATENT ABSTRACTS OF JAPAN vol. 13, no. 411 (M-869)(3759) 11 Septembre 1989;& JP A 01 150449 (KAWASAKI STEEL CORP) 16 June 1989,

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI LU

DOCDB simple family (publication)

WO 9221460 A1 19921210; BR 9206035 A 19940802; CA 2109512 A1 19921128; DE 69213005 D1 19960926; DE 69213005 T2 19961219; EP 0586481 A1 19940316; EP 0586481 B1 19960821; ES 2093260 T3 19961216; FR 2676946 A1 19921204; JP H06508066 A 19940914; RU 2090303 C1 19970920; US 5477910 A 19951226

DOCDB simple family (application)

FR 9200458 W 19920522; BR 9206035 A 19920522; CA 2109512 A 19920522; DE 69213005 T 19920522; EP 92911285 A 19920522; ES 92911285 T 19920522; FR 9106370 A 19910527; JP 51127692 A 19920522; RU 93058433 A 19920522; US 14237493 A 19931123