

Title (en)

Method and apparatus for production of platelike metal material

Title (de)

Verfahren und Vorrichtung zur Herstellung von plattenförmigen metallischen Materialien

Title (fr)

Procédé et dispositif pour la fabrication de plaques métalliques

Publication

**EP 1245311 A1 20021002 (EN)**

Application

**EP 02252063 A 20020322**

Priority

JP 2001088378 A 20010326

Abstract (en)

An apparatus for the production of a platelike metal material includes a cooling unit (21) for cooling a molten metal (M1) to form a metal slurry (M2) containing a solid phase, a pair of coarse rollers (37D, 37U) for cooling the metal slurry and, at the same time, rolling it to thereby give rise to a continuous, solidified, platelike metal material (M3), and a cutting mechanism (39) for cutting the continuous, solidified platelike metal material into platelike metal materials (M4) of a stated length. Thus, platelike metal materials containing numerous uniform spherical crystals are obtained.  
<IMAGE>

IPC 1-7

**B22D 11/10**; **B22D 11/06**; **B22D 23/00**

IPC 8 full level

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CPC (source: EP US)

**B22D 11/0622** (2013.01 - EP US); **B22D 11/112** (2013.01 - EP US); **B22D 23/00** (2013.01 - EP US)

Citation (search report)

- [PX] WO 0213993 A1 20020221 - UNIV BRUNEL [GB], et al
- [X] EP 0476843 A1 19920325 - RHEO TECHNOLOGY LTD [JP]
- [X] PATENT ABSTRACTS OF JAPAN vol. 013, no. 458 (M - 880) 17 October 1989 (1989-10-17)
- [X] PATENT ABSTRACTS OF JAPAN vol. 014, no. 103 (M - 0941) 26 February 1990 (1990-02-26)
- [X] PATENT ABSTRACTS OF JAPAN vol. 013, no. 392 (M - 865) 30 August 1989 (1989-08-30)

Cited by

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