

Title (en)

PROCESS FOR PRODUCING SPHERICAL TITANIUM ALLOY POWDER

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SPHÄRISCHEN TITANLEGIERUNGSPULVERS

Title (fr)

PROCÉDÉ DE FABRICATION DE POUDRE SPHÉRIQUE D'ALLIAGE DE TITANE

Publication

**EP 2022582 A4 20100721 (EN)**

Application

**EP 07739304 A 20070322**

Priority

- JP 2007055861 W 20070322
- JP 2006138730 A 20060518

Abstract (en)

[origin: EP2022582A1] In production of a titanium alloy spherical powder by a gas atomizing method, the difference in alloy composition depending on the product particle size is reduced economically. To achieve this, sponge titanium particles and additive metal element particles are mixed by means of a mixer having a pulverizing function such as a ball mill. The mixed particles are compressed to form a rod-formed raw material for melting. The formed rod-formed raw material for melting is powderized by a gas atomizing method. In the mixing step, the additive metal element particles are pulverized, or ground depending on the kind of particles, and solidly adhered to the surface of the sponge titanium particles, so that uniform mixing is possible.

IPC 8 full level

**B22F 9/08** (2006.01); **C22C 14/00** (2006.01); **C22C 21/00** (2006.01)

CPC (source: EP KR US)

**B22F 9/08** (2013.01 - KR); **B22F 9/082** (2013.01 - EP US); **C22C 1/06** (2013.01 - EP US); **C22C 14/00** (2013.01 - EP KR US); **C22C 21/00** (2013.01 - EP KR US); **C22F 1/183** (2013.01 - EP US); **B22F 2009/043** (2013.01 - EP US)

Citation (search report)

- [AD] JP H0593213 A 19930416 - SUMITOMO SHICHITSUKUSU KK
- [A] US 6010661 A 20000104 - ABE TOSHIHIKO [JP], et al
- See references of WO 2007135806A1

Designated contracting state (EPC)

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