

Title (en)
PRODUCTION OF SPHEROIDAL METAL PARTICLES

Title (de)
HERSTELLUNG VON RUNDLICHEN METALLPARTIKELN

Title (fr)
PRODUCTION DE PARTICULES MÉTALLIQUES ARRONDIES

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EP 2421997 B1 20150408 (DE)

Application
EP 10745842 A 20100225

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Abstract (en)
[origin: WO2010097079A2] The invention relates to an apparatus for producing spheroidal metal particles having high size and shape uniformity from a melt and to a method for producing spheroidal metal particles from a highly reactive metal melt that have high size and shape uniformity, comprising the following steps: melting the metal starting material under a hermetic seal; transporting the metal melt in a closed granulating tube from the melting furnace to at least one melt outlet; discharging the melt from the melt outlet via a rotary plate in the form of discrete drops to a melt stream which disintegrates into drops by the time it strikes the rotary plate; conducting a shielding gas flow into the region of the melt exiting from the melt outlet, collecting the melt on the rotary plate in the form of discrete melt drop, solidifying the melt drops into granule particles by contact with the colder surface of the rotary plate, and conducting the granule particles off the rotary plate for packaging/further processing.

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