

Title (en)

Thermal spray powders, their production and their use.

Title (de)

Thermische Spritzpulver, ihre Herstellung und Verwendung.

Title (fr)

Poudres pour pulvérisation thermique, leur production et leur utilisation.

Publication

EP 0487272 A2 19920527 (EN)

Application

EP 91310593 A 19911115

Priority

US 61577190 A 19901119

Abstract (en)

A method of forming a binder-free agglomerated powder, which comprises: placing first and second materials in a drum of a mechanical agglomerator, the drum having a continuous curved inner wall and the mechanical agglomerator having impact means disposed in the drum adjacent the drum inner wall and means for providing relative movement between the impact means and the drum inner wall; processing the first and second materials in the mechanical agglomerator by centrifugally forcing the first and second materials between the impact means and the drum inner wall such that forces of shear and compression cause the first and second materials to agglomerate to form agglomerated particles which are composites of the first and second materials; and classifying the agglomerated particles to form a thermal spray powder fraction. A thermal spray powder, which comprises mechanically agglomerated particles having a first component and a second component, substantially all of the particles ranging in size from about 0.5 μm to about 177 μm and the powder having an average particle size of from about 44 μm to about 150 μm . A method of forming a thermal spray coating, which comprises providing a thermal spray powder fabricated by mechanical agglomeration in a drum having an impact member; and thermal spraying said powder onto a target to form a coating. <IMAGE>

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CPC (source: EP)

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Cited by

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