

Title (en)

Thermal spraying powder, thermal spraying method, and method for forming thermal spray coating

Title (de)

Pulver zum thermischen Spritzen, Flammspritzverfahren und Verfahren zum Auftragen einer Schicht durch thermischen Spritzen

Title (fr)

Poudre de projection à chaud, procédé de projection à chaud et procédé de formation d'un revêtement appliqué par projection à chaud

Publication

EP 1674589 A2 20060628 (EN)

Application

EP 05027976 A 20051220

Priority

JP 2004370262 A 20041221

Abstract (en)

A thermal spraying powder is characterized in that 90% particle size D90 of the thermal spraying powder is 15 μm or less. The thermal spraying powder is also characterized in that the ratio of the total volume of particles having a particle size of 1 μm or less to the total volume of all particles in the thermal spraying powder is 2% or less. A value obtained by dividing the bulk density of the thermal spraying powder by the theoretical density of material forming the thermal spraying powder is preferably 0.15 or more. The particle size dispersion index of the thermal spraying powder is preferably 0.7 or less. A thermal spray coating that is dense and has a small surface roughness is reliably formed using the thermal spraying powder.

IPC 8 full level

C23C 4/06 (2016.01); **C23C 4/10** (2016.01)

CPC (source: EP KR US)

C23C 4/00 (2013.01 - EP US); **C23C 4/04** (2013.01 - KR); **C23C 4/06** (2013.01 - EP US); **C23C 4/12** (2013.01 - EP US)

Citation (applicant)

JP 2003129212 A 20030508 - FUJIMI INC

Cited by

DE112008001037B4

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