

Title (en)

METHOD FOR GRINDING POWDERS, METHOD FOR COATING A MATERIAL, METAL PARTICLES, COATED MATERIAL, AND USES OF THESE

Title (de)

VERFAHREN ZUM MAHLEN VON PULVERN, VERFAHREN ZUM BESCHICHTEN EINES MATERIALS, METALLPARTIKEL, BESCHICHTETES MATERIAL UND VERWENDUNGEN DAVON

Title (fr)

PROCÉDÉ DE BROYAGE DE POUDRES, PROCÉDÉ DE REVÊTEMENT D'UN MATÉRIAU, PARTICULES MÉTALLIQUES, MATÉRIAU REVÊTU ET LEURS UTILISATIONS

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Application

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Abstract (en)

[origin: WO2022123178A1] The invention relates to a method for the cryogenic grinding of at least one powder, comprising the following steps: (a) introducing a cryogenic fluid into an attrition mill comprising attrition means, (b) introducing the powder or powders into the attrition mill, and (c) setting the attrition mill into rotational movement, and wherein - the ratio $VMA / (VMA + VFC)$ of the volume of the attrition means VMA to the sum of the volume of the attrition means VMA and the volume of the cryogenic fluid VFC is comprised between 0.2 and 0.8, and - the rotational speed of the attrition mill, during step (c), is comprised between 100 rpm and 20 000 rpm. The invention also relates to particles of metal or metal alloy, to the use thereof, to a coating method employing them and to the use of such a coated material.

IPC 8 full level

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