

Title (en)

METHOD FOR DEGASSING AND SOLIDIFYING ALUMINUM ALLOY POWDER

Title (de)

VERFAHREN ZUM ENTGASEN UND ERSTARREN VON ALUMINIUMLEGIERUNGSPULVER

Title (fr)

PROCEDE POUR DEGAZER ET SOLIDIFIER DES POUDRES D'ALLIAGE D'ALUMINIUM

Publication

EP 0568705 B1 19980513 (EN)

Application

EP 92923997 A 19921120

Priority

- JP 9201527 W 19921120
- JP 4769592 A 19920204
- JP 30787391 A 19911122

Abstract (en)

[origin: WO9309899A1] A method for degassing and solidifying aluminum alloy powder is provided that can eliminate drawbacks inherent in a conventional method by making induction heating available for degassing means during processes of forming and solidifying aluminum powder and aluminum alloy powder. The method comprises the steps of pre-forming aluminum powder, aluminum alloy powder, aluminum composite alloy powder or powder mixtures of these powders and non-ferrous metal particles to a specific resistance of 0.2 Ω (V) cm or lower, removing heat decomposable evaporation components by directly induction heating the pre-formed body in the normal pressure atmosphere so as to raise the temperature thereof to 400 C to 600 C while maintaining a temperature rise gradient over 300 C at 0.4 C/scm or higher, and reducing the hydrogen content to less than 10 ppm.

IPC 1-7

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IPC 8 full level

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