

Title (en)

Casting Method for super-Alloy and stainless Steel

Title (de)

Giessverfahren für Superlegierung und Edelstahl

Title (fr)

Procédé de moulage de superalliage et d'acier inoxydable

Publication

**EP 2241392 A1 20101020 (EN)**

Application

**EP 10158907 A 20100401**

Priority

US 42478909 A 20090416

Abstract (en)

Embodiments of the present invention include a method for producing a component that includes melting a super-alloy or stainless steel alloy (10) and transferring the melted alloy to a mold (11). The mold is mechanically vibrated while the melted alloy solidifies (12). The component then is removed from the mold (13).

IPC 8 full level

**B22D 27/08** (2006.01)

CPC (source: EP US)

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Citation (applicant)

US 6743305 B2 20040601 - SHORT JOHN WILLIAM [US]

Citation (search report)

- [XYI] US 5101547 A 19920407 - TANAKA SHOJI [JP], et al
- [XI] GB 913291 A 19621219 - MOND NICKEL CO LTD
- [XI] US 3678988 A 19720725 - TIEN JOHN K, et al
- [XI] GB 480554 A 19380224 - DEUTSCHE EDELSTAHLWERKE AG
- [Y] WO 2004033132 A1 20040422 - TECOMET INC [US], et al
- [XY] LEGER M-T ET AL: "AFFINEMENT DU GRAIN DE SOLIDIFICATION PAR VIBRATION MECANIQUE APPLICATION A L'ACIER INOXYDABLE AUSTENITIQUE", FONDERIE, FONDEUR D'AUJOURD'HUI, EDITIONS TECHNIQUES DES INDUSTRIES DE LA FONDERIE, SEVRES, FR, no. 162, 1 February 1997 (1997-02-01), pages 20 - 24,37, XP000690895, ISSN: 0249-3136

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