

Title (en)

METHOD AND MACHINE FOR MOULDING AN ALLOY INGOT WITH FINE DENDRITIC STRUCTURE.

Title (de)

VERFAHREN UND VORRICHTUNG ZUM GIESSEN EINES LEGIERUNGSINGOTS MIT FEINEM DENDRITISCHEN GEFÜGE.

Title (fr)

PROCEDE DE MOULAGE D'UN LINGOT D'ALLIAGE A STRUCTURE DENDRITIQUE FINE ET MACHINE DE MOULAGE SUIVANT CE PROCEDE.

Publication

EP 0569511 B1 19950125 (FR)

Application

EP 92905737 A 19920130

Priority

- FR 9200083 W 19920130
- FR 9101059 A 19910130

Abstract (en)

[origin: WO9213662A1] The present invention relates to a method for moulding a metal alloy ingot, characterized in that it comprises the pressure casting of the alloy inside a mould (33) maintained during the whole casting process to a temperature higher than the room temperature and lower than the solidus temperature of the alloy. The present invention also relates to a pressure moulding method of a metal alloy by using said ingot, characterized in that it comprises heating (20) the ingot to bring it to a temperature comprised between the solidus and liquidus temperatures of the alloy and injecting it under pressure in a mould (33a, b). The present invention also relates to a moulding machine allowing to implement such methods.

IPC 1-7

B22D 17/00; **C22C 1/00**

IPC 8 full level

B22D 17/00 (2006.01); **C22C 1/00** (2006.01)

CPC (source: EP)

B22D 17/007 (2013.01); **C22C 1/12** (2023.01)

Citation (examination)

- MEMOIRES ET ETUDES SCIENTIFIQUES DE LA REVUE DE METALLURGIE Vol. 80, No. 7/8, 1983, PARIS pages 355 - 365; C. MILLIERE ET. AL.: "Structure, propriété et mise en forme des alliages brassés à l'état semi-solide (suite)" see page 359, paragraph 1 - page 360, line 14; figure 21, see page 5, paragraph 3
- GIESSEREI Vol. 60, No. 24, DÜSSELDORF pages 773-785; W. RÜEGG: "Jahresübersicht Druckguss (10. Folge)" see page 773, right-hand column, paragraph 4

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Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

WO 9213662 A1 19920820; AT E117606 T1 19950215; AU 1353092 A 19920907; DE 69201301 D1 19950309; EP 0569511 A1 19931118; EP 0569511 B1 19950125; FR 2671992 A1 19920731; FR 2671992 B1 19970801

DOCDB simple family (application)

FR 9200083 W 19920130; AT 92905737 T 19920130; AU 1353092 A 19920130; DE 69201301 T 19920130; EP 92905737 A 19920130; FR 9101059 A 19910130