

Title (en)

DEVICE AND METHOD FOR REMOVING AT LEAST ONE COOLING ELEMENT FROM AN AT LEAST PARTIALLY DEMOULDED CAST PART, METHOD FOR INTRODUCING AT LEAST ONE COOLING ELEMENT INTO A MOULD CORE OF A CAST PART MOULD, COOLING ELEMENT AND CAST PART

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ENTNAHME MINDESTENS EINES KÜHLELEMENTES AUS EINEM WENIGSTENS TEILWEISE ENTFORMTEN GUSSTEIL, VERFAHREN ZUR EINBRINGUNG MINDESTENS EINES KÜHLELEMENTES IN EINEN FORMKERN EINER GUSSTEILFORM, KÜHLELEMENT SOWIE GUSSTEIL

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR RETIRER AU MOINS UN ÉLÉMENT DE REFROIDISSEMENT D'UNE PIÈCE MOULÉE AU MOINS PARTIELLEMENT DÉMOULÉE, PROCÉDÉ POUR INTRODUIRE AU MOINS UN ÉLÉMENT DE REFROIDISSEMENT DANS UN NOYAU DE MOULE D'UN MOULE DE COULÉE, ÉLÉMENT DE REFROIDISSEMENT ET PIÈCE MOULÉE

Publication

**EP 3810357 B1 20211215 (DE)**

Application

**EP 20722666 A 20200423**

Priority

- DE 102019110580 A 20190424
- IB 2020053845 W 20200423

Abstract (en)

[origin: WO2020217199A1] The invention relates to a device for removing at least one cooling element (2-2d) from an at least partially demoulded cast part (22), more particularly from a housing (22) for an electric motor cast from a light metal alloy (22), said device having a means (1; 1b) for removing the at least one cooling element (2-2d). The invention also relates to a method for removing at least one cooling element (2-2d) from an at least partially demoulded cast part (22), a method for introducing at least one cooling element (2-2d) into a mould core (26, 35) of a cast part mould (22), a cooling element (2-2d) and a cast part (22).

IPC 8 full level

**B22D 15/00** (2006.01); **B22C 9/22** (2006.01); **B22D 27/04** (2006.01); **B22D 30/00** (2006.01)

CPC (source: EP KR US)

**B22C 9/22** (2013.01 - EP KR US); **B22D 15/00** (2013.01 - EP); **B22D 15/04** (2013.01 - KR US); **B22D 27/04** (2013.01 - EP KR US); **B22D 30/00** (2013.01 - EP KR)

Cited by

WO2023248170A1; LU502349B1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2020217199 A1 20201029; WO 2020217199 A9 20210218**; BR 112021020431 A2 20220308; CA 3137784 A1 20201029; CA 3137784 C 20231107; CN 114096363 A 20220225; CN 114096363 B 20240305; DE 102019110580 A1 20201029; EP 3810357 A1 20210428; EP 3810357 B1 20211215; HU E058311 T2 20220728; JP 2022529902 A 20220627; JP 7421568 B2 20240124; KR 20210154819 A 20211221; MX 2021012757 A 20211118; PL 3810357 T3 20220711; US 2022203434 A1 20220630

DOCDB simple family (application)

**IB 2020053845 W 20200423**; BR 112021020431 A 20200423; CA 3137784 A 20200423; CN 202080030653 A 20200423; DE 102019110580 A 20190424; EP 20722666 A 20200423; HU E20722666 A 20200423; JP 2021559831 A 20200423; KR 20217037126 A 20200423; MX 2021012757 A 20200423; PL 20722666 T 20200423; US 202017605642 A 20200423