

Title (en)
DEVICE FOR SHOOTING A CASTING CORE

Title (de)
VORRICHTUNG ZUM SCHIESSEN EINES GIESSKERNES

Title (fr)
DISPOSITIF POUR INJECTER UN NOYAU

Publication
EP 3595829 B1 20210217 (DE)

Application
EP 18712678 A 20180315

Priority
• DE 102017105478 A 20170315
• IB 2018051730 W 20180315

Abstract (en)
[origin: WO2018167704A1] The present invention relates to a device (1; 100) for shooting a casting core (G) that encloses a free inner chamber (I) at its outer boundaries, wherein the device (1; 100) has a mould cavity (5) that forms the casting core (G), which mould cavity encircles an inner slide (2) that extends along a longitudinal axis (LZ) and is bounded on its external side by an outer slide (3) that encircles the mould cavity (5), wherein the inner width (W) of the mould cavity (5) is determined by the distance between the inner surface (7) of the outer slide (3) allocated to the mould cavity (5) and the outer surface (6) of the inner slide (2). The device (1; 100) according to the invention enables operationally reliable production, including on a large scale, of casting cores (G) that have a basic tube shape but a fine wall structure. This is achieved in that the inner slider segments (2a-2e) can be adjusted between a receiving position, in which they are positioned closer to each other and to the longitudinal axis (LZ) of the inner slide (2) and the inner width (W) of the mould cavity between the inner slide (2) and the outer slide (3) is enlarged, and a shooting position, which is closer to the outer slide (3) and in which the inner width (W) of the mould cavity (5) corresponds to a specification for the casting core (G) to be shot.

IPC 8 full level
B22C 9/10 (2006.01); **B22C 7/06** (2006.01)

CPC (source: EP KR US)
B22C 7/06 (2013.01 - EP KR); **B22C 9/10** (2013.01 - EP KR); **B22C 9/103** (2013.01 - US); **B22C 9/108** (2013.01 - US); **B22C 7/06** (2013.01 - US); **B22C 9/02** (2013.01 - US); **B22C 9/24** (2013.01 - US); **B22C 13/12** (2013.01 - US); **B22D 31/002** (2013.01 - US)

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 2018167704 A1 20180920; CN 110418687 A 20191105; CN 110418687 B 20210212; DE 102017105478 A1 20180920; EP 3595829 A1 20200122; EP 3595829 B1 20210217; ES 2868877 T3 20211022; HU E054481 T2 20210928; JP 2020510539 A 20200409; JP 6825127 B2 20210203; KR 102148442 B1 20200827; KR 20190121855 A 20191028; MX 2019010978 A 20191211; US 10766066 B2 20200908; US 2020114417 A1 20200416; ZA 201906005 B 20220330

DOCDB simple family (application)
IB 2018051730 W 20180315; CN 201880018450 A 20180315; DE 102017105478 A 20170315; EP 18712678 A 20180315; ES 18712678 T 20180315; HU E18712678 A 20180315; JP 2019550143 A 20180315; KR 20197029799 A 20180315; MX 2019010978 A 20180315; US 201816493113 A 20180315; ZA 201906005 A 20190911