

Title (en)

APPARATUS FOR CASTING ARTICLES MADE OF ALUMINUM, ALUMINUM ALLOYS, LIGHT ALLOYS AND THE LIKE

Title (de)

VORRICHTUNG ZUM GIESSEN VON ARTIKELN AUS ALUMINIUM, ALUMINIUMLEGIERUNGEN, LEICHTMETALLLEGIERUNGEN UND DERGLEICHEN

Title (fr)

APPAREIL DE MOULAGE PAR COULEE D'ARTICLES CONSTITUES D'ALUMINIUM, D'ALLIAGES D'ALUMINIUM, D'ALLIAGES LEGERS ET ANALOGUES

Publication

**EP 1687107 B2 20140813 (EN)**

Application

**EP 04797599 A 20041104**

Priority

- EP 2004012473 W 20041104
- IT MI20032186 A 20031112

Abstract (en)

[origin: WO2005049248A2] An apparatus for casting articles made of aluminum, aluminum alloys, light alloys and the like, comprising, on a platen (1), at least one lower die (2) and at least one upper die (3); a duct (4) for introducing liquid metal that approaches from below and is connected to a furnace leads into the lower die (2); the lower die forms a lower impression (10) which, in cooperation with an upper impression (11) of the upper die (3), provides a region for containing a dosed quantity of liquid metal; on the upper die, a flow control element (30) is provided that acts on the connecting port (5) of the feed duct (4), and a compaction plug (20), which forms a portion of the upper impression (11) and can perform a translational motion independently of the flow control element (30) in order to provide the article being cast.

IPC 8 full level

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CPC (source: EP)

**B22D 2/003** (2013.01); **B22D 18/02** (2013.01); **B22D 18/04** (2013.01); **B22D 18/08** (2013.01)

Citation (opposition)

Opponent :

- US 5562147 A 19961008 - BORTOLONI ANDREA [IT]
- JP S5728662 A 19820216 - NIPPON KEIKINZOKU SOUGOU KENKY, et al
- JP S635861 A 19880111 - TOSHIBA MACHINE CO LTD
- JP H01158320 A 19890621 - KOBE STEEL LTD

Cited by

EP3170582A1; US9475119B2

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DOCDB simple family (publication)

**WO 2005049248 A2 20050602**; **WO 2005049248 A3 20051124**; AT E482781 T1 20101015; DE 602004029387 D1 20101111; EP 1687107 A2 20060809; EP 1687107 B1 20100929; EP 1687107 B2 20140813; EP 1687107 B8 20101103; IT MI20032186 A1 20050513

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