

Title (en)

PROCESS FOR REMOVING MOULDING SAND REMAINDERS ON CAST PARTS

Publication

EP 0031440 B1 19831109 (DE)

Application

EP 80107141 A 19801118

Priority

DE 2951130 A 19791219

Abstract (en)

[origin: ES8107069A1] For removing and dissolving sand mold residues from cast parts, particularly sand mold residues containing zirconium oxide and titanium oxide, there have previously been used mechanical and electrochemical processes in salt melts. However, these processes are very expensive, attack the surface of the cast pieces or fail to work with sand mold constituents which are difficult to dissolve. These disadvantages are avoided by inserting the cast parts having adhering sand mold residues into a melt of 55 to 97 weight % of alkali metal hydroxide and 3 to 45 weight % of one or more fluorides of an element of the first to third main group of the periodic system of elements and/or zinc at 400 DEG to 900 DEG C. Preferably the salt melt additionally contains a boron-oxygen and/or a boron-fluorine compound.

IPC 1-7

C23G 1/28; **B22D 31/00**

IPC 8 full level

B22D 29/00 (2006.01); **B22D 31/00** (2006.01); **C23G 1/28** (2006.01)

CPC (source: EP US)

B22D 29/002 (2013.01 - EP US); **B22D 31/002** (2013.01 - EP US); **C23G 1/28** (2013.01 - EP US)

Citation (examination)

- FR 2253845 A1 19750704 - HAERTOL WERK [DD]
- US 2950526 A 19600830 - BUEHLER WILLIAM J, et al
- US 2601864 A 19520701 - HOLDEN ARTEMAS F

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0031440 A1 19810708; **EP 0031440 B1 19831109**; AT E5266 T1 19831115; BR 8008065 A 19810623; CA 1156422 A 19831108; DE 2951130 A1 19810625; DE 2951130 C2 19870716; DK 536880 A 19810620; ES 497147 A0 19811001; ES 8107069 A1 19811001; IE 50281 B1 19860319; IE 802544 L 19810619; JP S5695465 A 19810801; US 4441930 A 19840410; ZA 807942 B 19810930

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