

Title (en)
Casting chamber for a die-casting machine

Title (de)
Giesskammer für Druckgussmaschine

Title (fr)
Chambre de coulée pour machine de coulée sous pression

Publication
EP 2620238 A1 20130731 (DE)

Application
EP 12152720 A 20120126

Priority
EP 12152720 A 20120126

Abstract (en)
The casting chamber comprises a main body (20) made of steel, and a casting plunger (10) movably arranged in the main body, where the main body has a filling opening for molten metal, and an inner side of the main body is partially covered with an inlay (15) of materials containing zirconium dioxide. The inlay is shriveled into the main body. The inlay: is segmented, where the different segments are produced from the same material or from different materials; and comprises a structuring surface. The casting plunger comprises ceramic piston rings. The casting chamber comprises a main body (20) made of steel, and a casting plunger (10) movably arranged in the main body, where the main body has a filling opening for molten metal, and an inner side of the main body is partially covered with an inlay (15) of materials containing zirconium dioxide. The inlay is shriveled into the main body. The inlay: is segmented, where the different segments are produced from the same material or from different materials; and comprises a structuring surface. The casting plunger comprises ceramic piston rings. The piston rings are produced from the same material or from different materials. The casting chamber further comprises a solid lubricant (18). Independent claims are included for: (1) an inlay for a casting chamber; (2) a cold-chamber diecasting machine; and (3) a method for producing a casting chamber.

Abstract (de)
Die vorliegende Erfindung betrifft eine Giesskammer (9) für eine Kaltkammer-Druckgussmaschine (1), umfassend einen Grundkörper (20) aus Stahl oder Gusseisen, vorzugsweise Stahl, und einen im Grundkörper (20) beweglich angeordneten Giesskolben (10), wobei der Grundkörper (20) eine Einfüllöffnung (12) für Metallschmelze (11) aufweist, dadurch gekennzeichnet, dass die Innenseite des Grundkörpers (20) zumindest teilweise mit einem Inlay (15) aus einem oder mehreren Zirkoniumdioxid-haltigen Materialien bedeckt ist. Des weiteren betrifft die vorliegende Erfindung ein Inlay für eine Giesskammer, sowie eine Kaltkammer-Druckgussmaschine mit einer derartigen Giesskammer.

IPC 8 full level
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CPC (source: EP)
B22D 17/08 (2013.01); **B22D 17/2023** (2013.01); **B22D 17/203** (2013.01)

Citation (applicant)
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• [XY] JP S5933128 A 19840222 - HITACHI METALS LTD
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• [Y] EP 0936010 A1 19990818 - DIDIER WERKE AG [DE]
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Designated contracting state (EPC)
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