

Title (en)
CAST-IRON CASTING, METHOD FOR MANUFACTURING CAST-IRON CASTING, AND EQUIPMENT FOR MANUFACTURING CAST-IRON CASTING

Title (de)
GUSSEISENGUSS, VERFAHREN ZUR HERSTELLUNG EINES GUSSEISENGUSSES UND VORRICHTUNG ZUR HERSTELLUNG EINES GUSSEISENGUSSES

Title (fr)
PIÈCE COULÉE EN FONTE, PROCÉDÉ POUR LA FABRICATION DE PIÈCE COULÉE EN FONTE ET ÉQUIPEMENT POUR LA FABRICATION DE PIÈCE COULÉE EN FONTE

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Application
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Abstract (en)
[origin: EP3326733A1] [Problem] The purpose of the present invention is to provide a cast-iron casting, a method for manufacturing a cast-iron casting, and equipment for manufacturing a cast-iron casting, which are capable of performing a plating treatment or an enameling treatment without defects on a surface of the cast-iron casting, regardless of the specifications of the cast-iron casting, without decreasing productivity or increasing manufacturing costs. [Elected Drawing] Fig. 4 [Solution] In the method for manufacturing a cast-iron casting, a mold is molded by decompressing molding sand, and a melt is poured into the mold. The inside of the mold is decompressed until the temperature of a casting formed by the melt falls to or below an A1 transformation point. The equipment for manufacturing a cast-iron casting comprises: at least one mold; a frame feed device that moves the mold; at least one fixed suction device that decompresses the inside of the mold when the mold is stopped; at least one movable suction device that moves while decompressing the inside of the mold instead of the fixed suction device when the mold is moving; and a temperature sensor that measures the product surface temperature of the casting.

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• [YA] JP 2002035918 A 20020205 - SINTOKOGIO LTD
• [YD] JP 2006212669 A 20060817 - SINTOKOGIO LTD
• [A] EP 1731242 A1 20061213 - SINTOKOGIO LTD [JP]
• [A] JP 2012035270 A 20120223 - SINTOKOGIO LTD
• [A] JP 2004143552 A 20040520 - AISAN IND
• See references of WO 2017017863A1

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