

Title (en)

Method for metallic coating of a casting mould part and aluminized casting mould part produced according to the method

Title (de)

Verfahren zur metallischen Beschichtung eines Gussformteiles und aluminisiertes Gussformteil hergestellt durch das Verfahren

Title (fr)

Procédé de revêtement métallique d'une pièce de formage coulée et pièce de formage coulée fabriquée selon ce procédé

Publication

EP 2312011 A1 20110420 (DE)

Application

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Priority

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Abstract (en)

The method for metallic coating of a mold part, comprises mechanically and chemically cleaning the mold part by blast cleaning before the coating process and immersing the mold part into a melt of an aluminum-containing alloy for coating. After mechanical cleaning, the mold part is directly pretreated with an acid solution before coating process. The melt has a bath temperature of 650-800[deg] C. The immersion time is 2-6 minutes and the thickness of the coating is 50-500 mu m. The mold part before the coating process has a temperature between room temperature and 200[deg] C. The method for metallic coating of a mold part, comprises mechanically and chemically cleaning the mold part by blast cleaning before the coating process and immersing the mold part into a melt of an aluminum-containing alloy for coating. After mechanical cleaning, the mold part is directly pretreated with an acid solution before coating process. The melt has a bath temperature of 650-800[deg] C. The immersion time is 2-6 minutes and the thickness of the coating is 50-500 mu m. The mold part before the coating process has a temperature between room temperature and 200[deg] C and the mold part after the coating process has a temperature between 200[deg] C and the bath temperature. The mold part is subjected to a heat treatment in an oxidizing atmosphere after the coating process and then subjected to anodic oxidation. The mold part is colored after the anodic oxidation.

Abstract (de)

Es wird ein Verfahren zur metallischen Beschichtung eines Gussformteiles vorgeschlagen, wobei das Gussformteil vor dem Beschichtungsvorgang mechanisch und chemisch gereinigt wird und wobei das Gussformteil zur Beschichtung in eine Schmelze einer aluminiumhaltigen Legierung eingetaucht wird.

IPC 8 full level

C23C 2/02 (2006.01); **C23C 2/12** (2006.01); **C23C 2/26** (2006.01); **C23C 2/28** (2006.01)

CPC (source: EP US)

C23C 2/024 (2022.08 - EP US); **C23C 2/12** (2013.01 - EP); **C23C 2/26** (2013.01 - EP US); **C23C 2/261** (2022.08 - EP US); **C23C 2/28** (2013.01 - EP US)

Citation (applicant)

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Citation (search report)

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