

Title (en)
Method for processing a structured surface

Title (de)
Verfahren zur Bearbeitung einer strukturierten Oberfläche

Title (fr)
Procédé de traitement d'une surface structurée

Publication
EP 2060658 B1 20100714 (DE)

Application
EP 07023647 A 20071206

Priority
DE 102007055053 A 20071116

Abstract (en)
[origin: EP2060658A2] The method for treating a surface of an embossing tool such as a press plate (1) or an endless belt, comprises applying a first mask on the surface for fine structuring, chemically treating the surface provided with the first mask for obtaining a surface structure, applying a second mask on the chemically treated surface for pore structuring, chemically treating the surface provided with the second mask for obtaining the surface structure, applying a third mask on the chemically treated surface, and chemically treating the surface provided with the third mask. The method for treating a surface of an embossing tool such as a press plate (1) or an endless belt, comprises applying a first mask on the surface for fine structuring, chemically treating the surface provided with the first mask for obtaining a surface structure, applying a second mask on the chemically treated surface for pore structuring, chemically treating the surface provided with the second mask for obtaining the surface structure, applying a third mask on the chemically treated surface, chemically treating the surface provided with the third mask, polishing the chemically treated surface, activating the polished surface, cleaning the activated surface, chrome-plating the cleaned surface, applying a fourth mask on the chrome-plated surface, and chrome-plating the surface chrome-plated with the fourth mask. The masks are applied by the digital printing technique. Independent claims are included for: (1) a method for treating a structured surface of an embossing tool; and (2) an embossing tool.

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Cited by
EP3141399A1; US2016193866A1; US2015158330A1; RU2664374C1; EP2123476A3; ITUB20153556A1; EP3088173A1; DE102019106856A1; US10563309B1; EP2497650A1; EP2848424A1; KR20160054506A; AU2014283868B2; RU2656325C2; AU2014320767B2; RU2659953C2; WO2021074065A1; WO2016113290A1; DE102022125369A1; WO2024068228A1; DE102022125371A1; WO2024068230A1; WO2013163971A1; WO2021074063A1; US9138774B2; US9561524B2; WO2024003125A1; DE102018010010A1; WO2020135949A1; WO2020187601A1; US11407250B2; WO2012119586A1; WO2014202041A1; WO2015036070A1; EP3141399B1; EP2123476A2; EP3245076B1

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