

Title (en)

Painted plastic material part and method for painting such a part

Title (de)

Lackiertes Werkstück aus Plastik und Lackierverfahren für dieses Werkstück

Title (fr)

Pièce peinte en matière plastique et procédé pour peindre une telle pièce

Publication

EP 1985377 A1 20081029 (FR)

Application

EP 08153959 A 20080402

Priority

FR 0754284 A 20070404

Abstract (en)

The process for painting a part (10) of fiber-reinforced plastic material e.g. sheet molding compound, comprises coating a surface (14) of the part with a primer coat (16), coating the primer coat with a lacquer coat (18) for revealing defect, inspecting the lacquer coat for detecting any defects, and coating the lacquer coat with a paint coat (19) providing a final finish to the part if any defect is not detected. If any defect is detected, then the process further comprises repairing an area comprising the defect, and coating the defect area by a second primer coat. The process for painting a part (10) of fiber-reinforced plastic material e.g. sheet molding compound, comprises coating a surface (14) of the part with a primer coat (16), coating the primer coat with a lacquer coat (18) for revealing defect, inspecting the lacquer coat for detecting any defects, and coating the lacquer coat with a paint coat (19) providing a final finish to the part if any defect is not detected. If any defect is detected, then the process further comprises repairing an area comprising the defect, coating the defect area by a second primer coat and then coating the second primer coat of a second lacquer coat, and coating the second lacquer coat for revealing defect with the paint providing a finish to the part. The lacquer coat is either coated with a lacquer finish coat or a base coat and then with a varnish finish. The primer coat is coated with the lacquer coat after a desolvation step of the primer coat and before hardening the primer coat. The primer coat and the lacquer coat are simultaneously hardened at a first hardening temperature (T 1). The part is heated at a second temperature (T 2) to harden the paint coat, where T 2 is greater than T 1. The hardened lacquer coat has a luster of 55-65 units of brightness, and a thickness of 20-30 mm. An independent claim is included for a painted plastic part.

Abstract (fr)

Lors d'un procédé pour apprêter une pièce (10) à peindre en matière à plastique, on revêt une surface (14) de la pièce d'une couche d'un apprêt (16). Puis, on revêt la couche d'apprêt (16) d'une couche d'une laque de révélation de défauts (18) et on inspecte la couche de laque (18) pour y détecter d'éventuels défauts. Par exemple, la laque est une laque polyuréthane. Dans le cas où l'on ne détecte pas d'éventuels défauts, on revêt la couche de laque (18) de révélation de défauts d'une couche de peinture (19) conférant à la pièce (10) son aspect final.

IPC 8 full level

B05D 1/38 (2006.01)

CPC (source: EP)

B05D 5/005 (2013.01); **B05D 7/56** (2013.01)

Citation (search report)

- [X] DE 10156477 A1 20030528 - KLETT & SCHUERHOFF GRAESOLIN L [DE]
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Cited by

CN111601834A

Designated contracting state (EPC)

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Designated extension state (EPC)

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