

Title (en)  
METHOD AND SYSTEM FOR DETERMINING THE THICKNESS OF A LAYER OF LACQUER

Title (de)  
VERFAHREN UND ANLAGE ZUR BESTIMMUNG DER DICKE EINER LACKSCHICHT

Title (fr)  
PROCEDE ET DISPOSITIF POUR DETERMINER L'EPAISSEUR D'UNE COUCHE DE PEINTURE

Publication  
**EP 1704270 B1 20100623 (DE)**

Application  
**EP 04803525 A 20041204**

Priority  
• EP 2004013813 W 20041204  
• DE 102004003456 A 20040122

Abstract (en)  
[origin: WO2005073436A1] The invention relates to electrophoretic immersion lacquering of objects, e.g. the bodies of automotive vehicles (28), wherein the object which is to be lacquered (28) is immersed into lacquer immersion basin (12) containing a lacquer fluid (14). An electric field is produced by the object (28) in its capacity as an electrode with at least one counter electrode (16, 18). In order to determine the thickness of the lacquer layer applied in said manner, the electric charge flowing through the object (28) during the immersion lacquering process and the surface of the object (28) exposed to the lacquer fluid are determined in order to determine the thickness of the lacquer layer therefrom. The thickness of the lacquer coating can thus be determined during the immersion lacquering process, resulting in fewer rejects.

IPC 8 full level  
**C25D 13/22** (2006.01)

CPC (source: EP US)  
**C25D 13/22** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005073436 A1 20050811**; AT E471999 T1 20100715; DE 102004003456 A1 20050825; DE 102004003456 B4 20060202;  
DE 502004011320 D1 20100805; EP 1704270 A1 20060927; EP 1704270 B1 20100623; PL 1704270 T3 20101130; RU 2006130008 A 20080227;  
RU 2368708 C2 20090927; UA 90466 C2 20100511; US 2008169829 A1 20080717; US 7825671 B2 20101102; ZA 200606571 B 20080108

DOCDB simple family (application)  
**EP 2004013813 W 20041204**; AT 04803525 T 20041204; DE 102004003456 A 20040122; DE 502004011320 T 20041204;  
EP 04803525 A 20041204; PL 04803525 T 20041204; RU 2006130008 A 20041204; UA A200609217 A 20041204; US 58710404 A 20041204;  
ZA 200606571 A 20060807