

Title (en)  
METHOD FOR IDENTIFYING SOILING AND/OR COLOUR FADING IN THE REGION OF COLOUR TRANSITIONS ON DOCUMENTS OF VALUE,  
AND MEANS FOR CARRYING OUT THE METHOD

Title (de)  
VERFAHREN ZUR ERKENNUNG VON VERSCHMUTZUNGEN UND/ODER FARBABNUTZUNGEN IM BEREICH VON FARBÜBERGÄNGEN AUF  
WERTDOKUMENTEN UND MITTEL ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)  
PROCÉDÉ DE DÉTECTION DES ENCRASSEMENTS ET/OU L'USURE DE L'ENCRE DANS LA ZONE DES TRANSITIONS DE COULEUR SUR  
DES DOCUMENTS DE VALEUR ET MOYENS EN VUE DE METTRE EN OEUVRE LE PROCÉDÉ

Publication  
**EP 2095341 B1 20190904 (DE)**

Application  
**EP 07846608 A 20071115**

Priority  
• EP 2007009893 W 20071115  
• DE 102006053788 A 20061115

Abstract (en)  
[origin: WO2008058742A1] In a method for identifying colour transitions which are caused by soiling and/or colour fading in at least one section of a document of value (12) of a prescribed document-of-value type on the basis of processing data, which reproduce colour coordinate values for picture elements in a colour space on the basis of the position of the respective regions corresponding to the picture elements in the section of the document of value (12), and of reference data, which reproduce a colour reference distribution, prescribed for a type of documents of value (12), for colour coordinate values in the colour space on the basis of reference positions on a document of value (12) of the document-of-value type, it is ascertained for each of the picture elements whether the colour coordinate values associated with the picture element in the colour space correspond to the colour reference distribution, the colour reference distribution being provided by at least one prescribed, enclosed reference face in the colour space which is provided by at least one linear path, prescribed for the document-of-value type, and a prescribed distance between the points of the reference face and the at least one linear path. The positions of the picture elements whose colour coordinate values are inside or not outside the reference face are compared with prescribed reference positions on the document of value (12), and the result of the comparison is taken as a basis for establishing whether a colour transition caused by soiling or colour fading is present or absent.

IPC 8 full level  
**G07D 7/12** (2016.01)

CPC (source: EP US)  
**G07D 7/12** (2013.01 - EP US); **G07D 7/187** (2013.01 - EP US)

Citation (examination)  
US 5615760 A 19970401 - VAKS JEFFREY E [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 LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102006053788 A1 20080521**; CN 101583979 A 20091118; CN 101583979 B 20121003; EP 2095341 A1 20090902;  
EP 2095341 B1 20190904; RU 2009122506 A 20101220; RU 2451340 C2 20120520; US 2009245590 A1 20091001; US 8588477 B2 20131119;  
WO 2008058742 A1 20080522

DOCDB simple family (application)  
**DE 102006053788 A 20061115**; CN 200780049925 A 20071115; EP 07846608 A 20071115; EP 2007009893 W 20071115;  
RU 2009122506 A 20071115; US 51521607 A 20071115