

Title (en)
Apparatus and method for the recognition of printed images on documents

Title (de)
Verfahren und Vorrichtung zur Erkennung von Druckbildern auf Dokumenten

Title (fr)
Méthode et dispositif pour la reconnaissance d'images imprimées sur documents

Publication
EP 0585724 B1 19991124 (DE)

Application
EP 93113159 A 19930817

Priority
DE 4227613 A 19920820

Abstract (en)
[origin: US5483602A] In order to detect security documents irrespective of their individual graphic designs, a method and apparatus are provided in which the presence of certain structural elements common to a variety of different security documents are analyzed without analyzing the whole printed image or comparing it for identity with the stored printed image. For example, the structural elements may be curved colored lines present in a certain minimum density of a surface, or intertwined line structures known as guilloches. The document to be copied is scanned as in any normal copying operation and the structural elements identified by electronic pattern recognition in order to determine whether copying is to be permitted, without requiring additional detection elements.

IPC 1-7
G07D 7/00; G03G 21/00

IPC 8 full level
G03G 21/00 (2006.01); **G03G 21/04** (2006.01); **G07D 7/20** (2016.01)

CPC (source: EP US)
G03G 21/046 (2013.01 - EP US); **G07D 7/12** (2013.01 - EP US); **G07D 7/206** (2017.05 - EP US)

Cited by
EP1068587A4; DE19530370A1; US6721442B1; WO9513597A3

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 5483602 A 19960109; AT E187003 T1 19991215; DE 4227613 A1 19940224; DE 59309880 D1 19991230; DK 0585724 T3 20000417; EP 0585724 A2 19940309; EP 0585724 A3 19960724; EP 0585724 B1 19991124; ES 2138608 T3 20000116; GR 3032464 T3 20000531; JP 3689436 B2 20050831; JP H06318282 A 19941115; PT 585724 E 20000428; SG 65600 A1 19990622

DOCDB simple family (application)
US 10944693 A 19930820; AT 93113159 T 19930817; DE 4227613 A 19920820; DE 59309880 T 19930817; DK 93113159 T 19930817; EP 93113159 A 19930817; ES 93113159 T 19930817; GR 20000400158 T 20000125; JP 22828893 A 19930820; PT 93113159 T 19930817; SG 1996008644 A 19930817