

Title (en)  
SECURITY SYSTEM, PARTICULARLY FOR VALUABLE DOCUMENTS

Title (de)  
SICHERHEITSSYSTEM, INSBESONDERE FÜR WERTDOKUMENTE

Title (fr)  
SYSTEME DE SECURITE, EN PARTICULIER POUR DOCUMENTS DE VALEUR

Publication  
**EP 1319220 B2 20161102 (DE)**

Application  
**EP 01960674 A 20010817**

Priority  
• DE 10040785 A 20000821  
• EP 0109511 W 20010817

Abstract (en)  
[origin: US8077364B2] The invention relates to a security system especially for security documents, wherein a security element is provided in a carrier plane, that under incident light holographically reconstructs a pattern outside the carrier plane, in which concealed information is stored and having a flat transparent verification element which on flat contact with the security element makes the information stored therein visible. The invention further relates to a security element and a verification element for use in the security system and a security document fitted with the security system. The invention additionally relates to an apparatus and a method for reading out the concealed information which is stored holographically in the pattern reconstructed on the security element under incident light.

IPC 8 full level  
**G07D 7/12** (2016.01); **B42D 15/00** (2006.01); **B42D 25/29** (2014.01); **G07D 7/00** (2016.01); **G07D 7/128** (2016.01); **G07D 7/207** (2016.01)

CPC (source: EP US)  
**B42D 25/29** (2014.10 - EP US); **G07D 7/0032** (2017.05 - EP US); **G07D 7/128** (2013.01 - EP US); **G07D 7/207** (2017.05 - EP US)

Citation (opposition)  
Opponent :  
• GB 2196443 A 19880427 - GEN ELECTRIC PLC  
• US 5999280 A 19991207 - HUANG PAI-PING [TW]  
• US 5396559 A 19950307 - MCGREW STEPHEN P [US]  
• CA 2294755 A1 19990114 - BUNDESDRUCKEREI GMBH [DE]  
• WO 9937488 A1 19990729 - SECURENCY PTY LTD [AU], et al

Cited by  
DE102012108200B4; DE102012108200A1; WO2014037249A1

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

Designated extension state (EPC)  
AL LT LV MK RO SI

DOCDB simple family (publication)  
**WO 0217242 A1 20020228**; AT E367627 T1 20070815; AU 8210201 A 20020304; CZ 2003558 A3 20031112; DE 10040785 A1 20020321; DE 50112744 D1 20070830; EP 1319220 A1 20030618; EP 1319220 B1 20070718; EP 1319220 B2 20161102; RU 2282244 C2 20060820; US 2003169468 A1 20030911; US 2008062485 A1 20080313; US 2010195176 A1 20100805; US 7315407 B2 20080101; US 7724408 B2 20100525; US 8077364 B2 20111213

DOCDB simple family (application)  
**EP 0109511 W 20010817**; AT 01960674 T 20010817; AU 8210201 A 20010817; CZ 2003558 A 20010817; DE 10040785 A 20000821; DE 50112744 T 20010817; EP 01960674 A 20010817; RU 2003107678 A 20010817; US 36225403 A 20030221; US 75548510 A 20100407; US 98354007 A 20071109