

Title (en)
Conductive hologram films

Title (de)
Leitfähige Hologrammfolien

Title (fr)
Feuilles d'hologrammes conductrices

Publication
EP 1932680 B1 20120613 (DE)

Application
EP 06025632 A 20061212

Priority
EP 06025632 A 20061212

Abstract (en)
[origin: EP1932680A1] Tamper-proof safety element has an optical diffraction effective structure and is applied on the magnetic coating. The optical diffraction active structure is brought into a radiation-hardened varnish layer. The varnish layer is provided with electrostatic effective substances at the surface. The electrostatic effective substances are quaternary ammonium salts, indium tin oxide, metal ions or metal complexes on lithium, silver or copper base. The radiation hardened varnish layer is assembled on base of polyester-,epoxy- or polyurethane systems and contains one or multiple photoinitiators.

IPC 8 full level
B42D 15/10 (2006.01)

CPC (source: EP)
B42D 25/328 (2014.10)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1932680 A1 20080618; EP 1932680 B1 20120613

DOCDB simple family (application)
EP 06025632 A 20061212