

Title (en)

Sheet materials with precise positioning of elements on the front and back side

Title (de)

Folienmaterialien mit präzisen passgenauen Elementen auf Vorder- und Rückseite

Title (fr)

Matériaux en feuilles avec positionner précis des éléments sur face d'avant et face d'arrière

Publication

EP 1712366 A1 20061018 (DE)

Application

EP 05008032 A 20050413

Priority

EP 05008032 A 20050413

Abstract (en)

The film material is fitted with security elements on both sides. with an accurate longitudinal and side register. The film is printed on both sides, in register, with a maximum tolerance of $\pm 100 \mu m$. The security elements have optical, electrically conductive and/or magnetic characteristics.

IPC 8 full level

B41M 3/14 (2006.01); **B42D 15/00** (2006.01)

CPC (source: EP US)

B41M 3/14 (2013.01 - EP US); **B42D 25/00** (2014.10 - EP US); **B42D 25/369** (2014.10 - US); **B42D 25/47** (2014.10 - US); **B42D 2035/02** (2022.01 - EP); **Y10T 428/24364** (2015.01 - EP US); **Y10T 428/24802** (2015.01 - EP US); **Y10T 428/2848** (2015.01 - EP US)

Citation (search report)

- [XD] AT 412273 B 20041227 - HUECK FOLIEN GMBH [AT]
- [A] EP 1352732 A2 20031015 - HUECK FOLIEN GMBH [AT]
- [A] WO 2005028211 A2 20050331 - HUECK FOLIEN GMBH [AT], et al
- [A] WO 2004049268 A1 20040610 - HUECK FOLIEN GMBH [AT], et al
- [AD] DE 19853444 A1 19990624 - GIESECKE & DEVRIENT GMBH [DE]

Cited by

EP2143549A1; EP4202889A1

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

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1712366 A1 20061018; **EP 1712366 B1 20100519**; AT E468230 T1 20100615; DE 502005009596 D1 20100701; ES 2346542 T3 20101018; US 2006251860 A1 20061109; US 2010154668 A1 20100624

DOCDB simple family (application)

EP 05008032 A 20050413; AT 05008032 T 20050413; DE 502005009596 T 20050413; ES 05008032 T 20050413; US 39411506 A 20060331; US 65672410 A 20100216