

Title (en)
Visual tamper evident security seal

Title (de)
Visuelles manipulationssicheres Sicherheitssiegel

Title (fr)
Sceau de sécurité à dispositif anti-sabotage visuel

Publication
EP 2249328 A1 20101110 (EN)

Application
EP 10380061 A 20100430

Priority
ES 200900833 U 20090504

Abstract (en)
Seal which is made up of a main body (1) with an inner cylindrical cavity which is indented in the perimeter; a rotary element (2) with flaps around is fitted into the cylinder. The main body (1) and the rotary element (2) have six holes (5,6,7,8,11,12) to allow the introduction of a wire through them, in such a way that when the rotary element (2) turns around, it winds the wire onto the rotary element (2) itself and it cannot be unwound unless the main body (1) is broken apart. Therefore the tampering becomes evident. The seal includes several ways to avoid the reconstruction of the broken seal, leaving evidence of the tampering.

IPC 8 full level
G09F 3/03 (2006.01)

CPC (source: EP)
G09F 3/0364 (2013.01)

Citation (search report)

- [AD] ES 1063639 U 20061116 - ROYAL PACK EMBALAJES DE SEGURIDAD [ES]
- [A] US 5402958 A 19950404 - MAHANEY JOHN C [US]
- [A] WO 0186615 A2 20011115 - ITW NEW ZEALAND LTD [NZ], et al

Cited by
CN105654843A; US10186176B2; US8733805B2; WO2014037051A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA ME RS

DOCDB simple family (publication)
EP 2249328 A1 20101110; ES 1070255 U 20090703; ES 1070255 Y 20091026

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EP 10380061 A 20100430; ES 200900833 U 20090504