

Title (en)

Electroluminescent semiconductor for testing luminescent security features

Title (de)

Elektrolumineszierendes Halbleiterfestkörperelement als Prüfmittel für lumineszierende Sicherheitsmerkmale

Title (fr)

Élément semi-conducteur électroluminescent pour le test de caractéristiques de sécurité luminescentes

Publication

EP 0996099 B1 20060712 (DE)

Application

EP 99120299 A 19991012

Priority

DE 19848858 A 19981023

Abstract (en)

[origin: EP0996099A2] The arrangement has ultraviolet and/or infrared electro-luminescent semiconducting solid state elements e.g. light emitting diodes (2,3) and, optionally, a light element (4) whose radiation lies in the visible band. The elements are mounted together in a housing (5) to produce a focused light beam containing both visible and non-visible components. A spring-loaded push button is operated to activate the combination of elements. An Independent claim is also included for a method of monitoring luminescent security characteristics.

IPC 8 full level

B42D 15/10 (2006.01); **G07D 7/121** (2016.01); **H01L 33/00** (2010.01); **H01L 33/50** (2010.01)

CPC (source: EP US)

G07D 7/1205 (2017.04 - EP US)

Citation (examination)

- DE 29607075 U1 19960704 - SICK OPTIK ELEKTRONIK ERWIN [DE]
- DE 19701513 A1 19980723 - HKR SENSORSYSTEME GMBH [DE]

Cited by

EP1220165A3; US9021953B2; US10180248B2; WO0128006A3; JP2002071568A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0996099 A2 20000426; **EP 0996099 A3 20020306**; **EP 0996099 B1 20060712**; AT E333130 T1 20060815; DE 59913658 D1 20060824; ES 2268822 T3 20070316; JP 2000322621 A 20001124

DOCDB simple family (application)

EP 99120299 A 19991012; AT 99120299 T 19991012; DE 59913658 T 19991012; ES 99120299 T 19991012; JP 29740599 A 19991019