

Title (en)

INSPECTION DEVICE HAVING AN INVERSE FILM LENS

Title (de)

INSPEKTIONSVORRICHTUNG MIT INVERSER FOLIENLINSE

Title (fr)

DISPOSITIF D'INSPECTION COMPRENANT UNE LENTILLE PELLICULAIRE INVERSE

Publication

**EP 3111258 A1 20170104 (DE)**

Application

**EP 15706012 A 20150220**

Priority

- DE 102014102450 A 20140225
- EP 2015053656 W 20150220

Abstract (en)

[origin: WO2015128264A1] The invention relates to a light transmission inspection device for detecting structures of a container, like a bottle, having a lighting unit arranged at a first side of a transport path for the container for transilluminating at least one container portion, and having an optical unit arranged on a second side of the transport path for detecting a transmitted light image of the container portion. In order to provide an improved inspection device for detecting structures of a container during the movement thereof on a transport path, according to the invention a lens for the orientation of the light beams emitted by the lighting unit is arranged on the lighting unit.

IPC 8 full level

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CPC (source: EP RU US)

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Citation (examination)

- DE 2617457 A1 19761104 - BALL BROTHERS SERVICE CORP
- DE 102007059732 A1 20090618 - OSRAM OPTO SEMICONDUCTORS GMBH [DE]
- DE 69321925 T2 19990325 - EMHART GLASS MACH INVEST [US]
- See also references of WO 2015128264A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102014102450 A1 20150827**; CN 106104315 A 20161109; CN 106104315 B 20190416; EP 3111258 A1 20170104; RU 2016137826 A 20180329; RU 2016137826 A3 20180329; RU 2649612 C2 20180404; US 2017131216 A1 20170511; WO 2015128264 A1 20150903

DOCDB simple family (application)

**DE 102014102450 A 20140225**; CN 201580010670 A 20150220; EP 15706012 A 20150220; EP 2015053656 W 20150220; RU 2016137826 A 20150220; US 201615245695 A 20160824