

Title (en)  
Swivelling inspection device

Title (de)  
Schwenkbare Inspektionsvorrichtung

Title (fr)  
Dispositif d'inspection pivotant

Publication  
**EP 2422972 B2 20170823 (DE)**

Application  
**EP 11173908 A 20110714**

Priority  
• DE 102011012807 A 20110302  
• DE 102010036012 A 20100831

Abstract (en)  
[origin: EP2422972A1] The device has a control system (40) consisting of a camera (41), a light source (42) i.e. LED, and a housing (43), where an arc-shaped material (24) is bypassed to the control system by a transport device. The control system is arranged above and/or below the transport device. Camera angle is changed with respect to a surface to be controlled of the material, and/or impact angle (beta) of beams of the light source is changed with respect the material by adjusting the camera and/or the light source and/or the transport device. An independent claim is also included for a folding carton gluing machine comprising an inspection device.

IPC 8 full level  
**B31B 70/74** (2017.01); **G07D 7/12** (2016.01)

CPC (source: EP US)  
**B31B 50/00** (2017.07 - EP); **B31B 50/006** (2017.07 - EP US); **B65H 2301/542** (2013.01 - EP); **B65H 2404/254** (2013.01 - EP); **B65H 2404/2613** (2013.01 - EP); **B65H 2553/42** (2013.01 - EP)

Citation (opposition)  
Opponent :  
• DE 4321179 A1 19950105 - HEIDELBERGER DRUCKMASCH AG [DE]  
• DE 102004021600 A1 20051208 - GRETAG MACBETH AG REGENSDORF [CH], et al  
• DE 102008047265 A1 20100415 - HEIDELBERGER DRUCKMASCH AG [DE]  
• DE 19604241 A1 19960814 - MITSUBISHI HEAVY IND LTD [JP]

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

DOCDB simple family (publication)  
**EP 2422972 A1 20120229**; **EP 2422972 B1 20130911**; **EP 2422972 B2 20170823**; DE 102011012807 A1 20120301

DOCDB simple family (application)  
**EP 11173908 A 20110714**; DE 102011012807 A 20110302