

Title (en)
INSPECTION DEVICE FOR INSPECTING FOREIGN MATTER

Title (de)
INSPEKTIONSVORRICHTUNG ZUR FREMDSTOFFINSPEKTION

Title (fr)
DISPOSITIF D'INSPECTION POUR DÉTECTER LA PRÉSENCE D'ÉVENTUELS CORPS ÉTRANGERS

Publication
EP 2649441 A1 20131016 (DE)

Application
EP 11787603 A 20111105

Priority
• DE 102010053771 A 20101208
• EP 2011005576 W 20111105

Abstract (en)
[origin: WO2012076088A1] The invention relates to a container handling installation (1), in which containers (7), such as bottles or similar and also cans are transported in a transport direction by means of transport elements, said transport elements having centring and/or holding elements (3, 4) for clamping the respective container (7) and the container handling installation (1) has at least one inspection device (8) for checking bottles or similar containers (7) for unwanted foreign matter, said inspection device (8) being connected to an evaluation unit (18). The invention is characterised in that the inspection device (8) is designed as an integral component of the transport element and/or the centring and/or holding element (3, 4) thereof and as a piezo sensor (8) and in that said device is provided with an excitation element which induces each container (7) to be inspected to move in a direction of movement and which cancels and/or reverses said movement. The inspection device (8) can be connected to the container (7) in such a way that the latter can be moved together with the inspection device (8) in the respective direction of movement and in the transport direction.

IPC 8 full level
G01N 29/04 (2006.01); **G01N 29/22** (2006.01)

CPC (source: EP US)
B65G 19/02 (2013.01 - US); **G01N 29/046** (2013.01 - EP US); **G01N 29/225** (2013.01 - EP US); **G01N 2291/2695** (2013.01 - EP US)

Citation (search report)
See references of WO 2012076088A1

Citation (examination)
DE 102004051961 B4 20080626 - KRONES AG [DE]

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)
DE 102010053771 A1 20120614; BR 112013011478 A2 20160809; CN 103282771 A 20130904; CN 103282771 B 20160406; EP 2649441 A1 20131016; JP 2014505635 A 20140306; JP 6026426 B2 20161116; RU 2529585 C1 20140927; US 2013248321 A1 20130926; US 9233797 B2 20160112; WO 2012076088 A1 20120614

DOCDB simple family (application)
DE 102010053771 A 20101208; BR 112013011478 A 20111105; CN 201180058956 A 20111105; EP 11787603 A 20111105; EP 2011005576 W 20111105; JP 2013542385 A 20111105; RU 2013131076 A 20111105; US 201113991957 A 20111105