

Title (en)

INSPECTION DEVICE FOR INSPECTING FOREIGN MATTER

Title (de)

INSPEKTIONSVORRICHTUNG ZUR FREMDSTOFFINSPEKTION

Title (fr)

DISPOSITIF D'INSPECTION POUR INSPECTION DE CORPS ÉTRANGERS

Publication

EP 2649440 A1 20131016 (DE)

Application

EP 11781446 A 20111108

Priority

- DE 102010053772 A 20101208
- EP 2011005595 W 20111108

Abstract (en)

[origin: WO2012076089A1] The invention relates to a container handling installation (1), in particular a filling machine, in which containers (1), such as bottles or similar and also cans are transported in a transport direction by means of retaining and transport elements (2) and in which respective containers (1) are filled with a product at filling stations. The container handling installation has at least one inspection device (6) for checking bottles or similar containers (1) for unwanted foreign matter, said inspection device (6) being connected to an evaluation unit. The invention is characterised in that the inspection device (6) is designed as an integral component of the retaining and transport element (2) and as a piezo sensor (6). The inspection device (6) can be connected to the container (1) in such a way that the latter can be moved together with the inspection device (6) 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)

B67C 3/007 (2013.01 - EP US); **B67C 3/24** (2013.01 - EP US); **B67D 7/3281** (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 2012076089A1

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 102010053772 A1 20120614; CN 103261882 A 20130821; CN 103261882 B 20150520; EP 2649440 A1 20131016; RU 2529667 C1 20140927; US 2013233437 A1 20130912; US 9266711 B2 20160223; WO 2012076089 A1 20120614

DOCDB simple family (application)

DE 102010053772 A 20101208; CN 201180059333 A 20111108; EP 11781446 A 20111108; EP 2011005595 W 20111108; RU 2013131071 A 20111108; US 201113990565 A 20111108