

Title (en)

Device and method for checking the presence of a spacer element in a box

Title (de)

Vorrichtung und Verfahren zum Prüfen der Anwesenheit eines Abstandshalters in einer Verpackung

Title (fr)

Dispositif et procédé pour vérifier la présence d'un élément d'espacement dans un emballage

Publication

**EP 2500287 A1 20120919 (EN)**

Application

**EP 12157851 A 20120302**

Priority

IT MI20110395 A 20110314

Abstract (en)

A device for checking if a box (3), housing therein at least one packaging element (1) comprising at least a conductive portion (1A), also houses at least one spacer element (2) spacing at least a part (1 B) of said packaging element (1) from an inner face (3B) of a base wall (3A) of said box (3), said spacer element (2) and/or said packaging element (1) resting on said inner face (3B), characterised by comprising: - non contact sensor means (6) capable of generating a signal relating to the distance (D5) between said non contact means and said conductive portion (1A), - and means (9) for determining on the basis of said signal whether or not said box houses said spacer element (2).

IPC 8 full level

**B65B 57/10** (2006.01); **B65B 61/20** (2006.01); **G01N 27/90** (2006.01)

CPC (source: EP)

**B65B 57/10** (2013.01); **B65B 61/20** (2013.01); **B65B 9/045** (2013.01)

Citation (applicant)

WO 2009025105 A1 20090226 - NONOGAKI KEIICHI [JP]

Citation (search report)

- [A] EP 0957028 A1 19991117 - MARCHESINI GROUP SPA [IT]
- [A] EP 0465437 A1 19920108 - IMA SPA [IT]
- [A] EP 1561689 A1 20050810 - UHLMANN PAC SYSTEME GMBH & CO [DE]
- [AD] EP 2182346 A1 20100505 - NONOGAKI KEIICHI [JP]

Cited by

JP2015147614A

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

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BA ME

DOCDB simple family (publication)

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