

Title (en)
Device for orienting containers

Title (de)
Vorrichtung zum Ausrichten von Behältern

Title (fr)
Dispositif pour orienter des récipients

Publication
EP 1777163 A1 20070425 (DE)

Application
EP 06022035 A 20061020

Priority
DE 102005050902 A 20051021

Abstract (en)
Device for aligning containers (2) in relation to a geometric container characteristic comprises a first camera system having cameras (8, 9) for determining the outer and peripheral surface of the containers, a further camera system having cameras (10, 11) for aligning each container for further alignment in a region of the peripheral surface which is narrower than the geometric container characteristic and an electronic unit for further alignment based on image data or characteristic values when deviating from the theoretical position. An independent claim is also included for a labeling machine containing the above aligning device. Preferred Features: A peripheral region of each container of more than 180[deg] is determined using the first camera system.

IPC 8 full level
B65C 9/06 (2006.01)

CPC (source: EP US)
B65C 9/067 (2013.01 - EP US)

Citation (search report)
• [X] DE 20203529 U1 20020523 - KHS MASCH & ANLAGENBAU AG [DE]
• [A] WO 2004056658 A1 20040708 - AZIONARIA COSTRUZIONI ACMA SPA [IT], et al
• [DA] EP 1205388 A1 20020515 - KHS MASCH & ANLAGENBAU AG [DE]

Cited by
US8908168B2; US8477185B2; WO2011015899A1; WO2009072157A1; WO2010000422A1; EP2292550A1; EP4122872A1; JP2011505304A; US10138106B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1777163 A1 20070425; EP 1777163 B1 20091230; AT E453574 T1 20100115; CN 101049865 A 20071010; CN 101049865 B 20100728; DE 102005050902 A1 20070503; DE 502006005771 D1 20100211; PL 1777163 T3 20100630; UA 94895 C2 20110625; US 2007095017 A1 20070503; US 7331152 B2 20080219

DOCDB simple family (application)
EP 06022035 A 20061020; AT 06022035 T 20061020; CN 200610064253 A 20061023; DE 102005050902 A 20051021; DE 502006005771 T 20061020; PL 06022035 T 20061020; UA A200611100 A 20061020; US 55161606 A 20061020