

Title (en)

Apparatus and method for identification of containers or flasks in containers

Title (de)

Vorrichtung und Verfahren zur Erkennung von Gebinden oder Behältern in Gebinden

Title (fr)

Dispositif et méthode pour l'identification de conteneurs ou de récipients dans des conteneurs

Publication

EP 1645866 A3 20060419 (DE)

Application

EP 05021871 A 20051007

Priority

DE 102004049260 A 20041009

Abstract (en)

[origin: EP1645866A2] The apparatus has an illuminating device and a camera which are so arranged that light from the illumination device is reflected from the containers or parts of the package and can be received by the camera. The apparatus has a second illumination device such that even the diffuse characteristics of the reflected light can be received unaffected by reflections by the camera (8,9). Independent claims also cover a method of identifying containers etc.

IPC 8 full level

G01N 21/90 (2006.01); **B07C 5/12** (2006.01); **B07C 5/34** (2006.01)

CPC (source: EP)

B07C 5/122 (2013.01)

Citation (search report)

- [X] WO 02054051 A2 20020711 - KRONES AG [DE], et al
- [X] WO 9819150 A2 19980507 - KRONSEDER MASCHF KRONES [DE], et al
- [A] EP 0060918 A1 19820929 - SIEMENS AG [DE]
- [A] EP 0431406 A1 19910612 - ELPATRONIC AG [CH]
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11 3 January 2001 (2001-01-03)

Cited by

EP1887345A1; CN106061631A; DE102006034432A1; CN111897178A; CN104949997A; DE102012104223A1; CN108435598A; EP2899535A1; CN104792797A; DE202017105355U1; WO2008015216A1; WO2015074985A1; WO2018050353A1

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

DOCDB simple family (publication)

EP 1645866 A2 20060412; EP 1645866 A3 20060419; EP 1645866 B1 20101208; DE 102004049260 A1 20060413; DE 502005010645 D1 20110120

DOCDB simple family (application)

EP 05021871 A 20051007; DE 102004049260 A 20041009; DE 502005010645 T 20051007