

Title (en)

Method and device for printing containers

Title (de)

Vorrichtung und Verfahren zum Bedrucken von Behältern

Title (fr)

Dispositif et procédé destinés à l'impression de récipients

Publication

EP 2479037 B2 20210106 (DE)

Application

EP 11195344 A 20111222

Priority

DE 102011009391 A 20110125

Abstract (en)

[origin: EP2479037A1] The printing area (D) of to-be-printed containers (20) associated with base modules (29), is pressurized. The base modules are synchronously conveyed along with containers through a transport device (11). The base modules are accommodated corresponding to initial and end positions (AP,EP) on transport device. The containers are printed during synchronous movement of base modules between initial and positions of transport device. The base modules are transported opposite to transport direction (B) of transport device, and containers are transported along transport direction. An independent claim is included for circulating treatment module for printing on container.

IPC 8 full level

B41J 3/407 (2006.01); **B41J 3/54** (2006.01); **B41J 11/00** (2006.01)

CPC (source: EP US)

B41J 3/4073 (2013.01 - EP US); **B41J 3/40733** (2020.08 - EP US); **B41J 3/543** (2013.01 - EP); **B41J 11/0015** (2013.01 - EP); **B41J 11/00214** (2021.01 - EP US); **B41J 11/0024** (2021.01 - EP US)

Citation (opposition)

Opponent :

- WO 2009018893 A1 20090212 - KHS AG [DE], et al
- DE 102006001223 A1 20070712 - KHS AG [DE]
- DE 102009014663 A1 20101007 - KHS AG [DE]
- EP 1435296 A1 20040707 - TECNO EUROPA SRL [IT]
- DE 69811683 T2 20031204 - PROCTER & GAMBLE [US]
- GB 2134045 A 19840808 - HOFFMANN CYKLOP
- WO 2008064248 A2 20080529 - PLASTIPAK PACKAGING INC [US], et al
- WO 2004009360 A1 20040129 - SEALED AIR LTD [GB], et al
- US 2006144261 A1 20060706 - UPTERGROVE RONALD L [US]
- US 6769357 B1 20040803 - FINAN JOSEPH [US]
- EP 0209896 A2 19870128 - SCHMALBACH LUBECA [DE]

Cited by

FR3057490A1; CN107107626A; ITMI20131318A1; EP2832548A1; WO2019042624A1

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)

EP 2479037 A1 20120725; **EP 2479037 B1 20170830**; **EP 2479037 B2 20210106**; CN 102615956 A 20120801; CN 102615956 B 20150422; DE 102011009391 A1 20120726

DOCDB simple family (application)

EP 11195344 A 20111222; CN 201210020905 A 20120130; DE 102011009391 A 20110125