

Title (en)
COMPACTING DEVICE

Title (de)
KOMPAKTIERVORRICHTUNG

Title (fr)
DISPOSITIF DE COMPACTAGE

Publication
EP 2349661 A1 20110803 (DE)

Application
EP 09771676 A 20091022

Priority
• DE 2009001480 W 20091022
• DE 102008057137 A 20081113

Abstract (en)
[origin: CA2743390A1] The invention relates to a compacting device (1) for compacting empty containers, in particular beverage bottles or cans of plastic or tinplate, comprising at least one rotatable roller (1a, 1b), which is designed for compressing and perforating empty containers, wherein the roller (1a, 1b) has a basic roller body (2a, 2b) and at least one pin element (3) protruding from the basic roller body (2a, 2b), wherein the pin element (3) is formed as a hollow pin, at least the end face of the hollow pin that is facing away from the basic roller body (2a, 2b) being open.

IPC 8 full level
B26F 1/24 (2006.01); **B30B 9/32** (2006.01)

CPC (source: EP US)
B26F 1/24 (2013.01 - EP US); **B30B 9/325** (2013.01 - EP US); **B26F 2210/11** (2013.01 - EP US); **B30B 9/301** (2013.01 - EP); **Y10S 100/902** (2013.01 - EP US)

Citation (search report)
See references of WO 2010054615A1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102008057137 A1 20100520; **DE 102008057137 B4 20110120**; AU 2009316109 A1 20100520; AU 2009316109 B2 20150910; CA 2743390 A1 20100520; CN 102300685 A 20111228; CN 102300685 B 20150729; DE 202008017890 U1 20100923; DK 2349661 T3 20130121; EP 2349661 A1 20110803; EP 2349661 B1 20121003; ES 2405256 T3 20130530; JP 2012508652 A 20120412; JP 5592390 B2 20140917; PL 2349661 T3 20130531; US 2012017782 A1 20120126; US 8910567 B2 20141216; WO 2010054615 A1 20100520

DOCDB simple family (application)
DE 102008057137 A 20081113; AU 2009316109 A 20091022; CA 2743390 A 20091022; CN 200980154838 A 20091022; DE 2009001480 W 20091022; DE 202008017890 U 20081113; DK 09771676 T 20091022; EP 09771676 A 20091022; ES 09771676 T 20091022; JP 2011537838 A 20091022; PL 09771676 T 20091022; US 200913128807 A 20091022