

Title (en)
Method of removing labels

Title (de)
Verfahren zum Entfernen von Etiketten

Title (fr)
Procédé pour enlever des étiquettes

Publication
EP 1803506 A2 20070704 (DE)

Application
EP 06022269 A 20061025

Priority
DE 102005062768 A 20051228

Abstract (en)
The label (3) is removed from its background (2), which is a container. Before and/or during release, it is perforated using ultrasound. This takes place in an alkaline bath, preferably of caustic soda. The ultrasound is at a frequency at or above the upper limit of human hearing. It is at 16-400 kHz, especially at 20 kHz. The energy density used, is in accordance with the interval required for effective action. These variables, i.e. effective energy density and duration, are in inverse proportion. A range of operational conditions is specified. Especially preferred conditions are: frequency 20 kHz, energy density 42 W/cm² and duration 90 s. Alternative conditions of 20 kHz, 85 W/cm² and 45 s are also specified.

Abstract (de)
Es wird ein Verfahren zum Entfernen eines Etiketts (3) von einer Unterlage (2), insbesondere von einem Behälter, beschrieben. Gemäß dem Verfahren wird das Etikett (3) vor und/oder beim Ablösen durch Beaufschlagen mit Schall, insbesondere mit Ultraschall, perforiert.

IPC 8 full level
B08B 9/08 (2006.01); **B08B 3/12** (2006.01); **B08B 9/20** (2006.01); **B29C 63/00** (2006.01)

CPC (source: EP)
B08B 3/12 (2013.01); **B08B 9/083** (2013.01); **B08B 9/20** (2013.01)

Citation (examination)
• JP H05154455 A 19930622 - MITSUBISHI HEAVY IND LTD
• KR 20020086366 A 20021118 - JUN CHUL SOO [KR]

Cited by
EP3666403A1; WO2020119958A1

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

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AL BA HR MK RS

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