

Title (en)

Method and device for packaging small products

Title (de)

Verfahren und Vorrichtung zum Verpacken kleinstückiger Artikel

Title (fr)

Procédé et dispositif pour l'emballage de petits articles

Publication

EP 1712472 A1 20061018 (DE)

Application

EP 06003941 A 20060227

Priority

DE 102005017329 A 20050414

Abstract (en)

The article together with its stick, is picked up individually by a first unit (10) and is carried continuously to a second unit (2) to complete at least a part of its packaging. The packaging material is supplied to the first unit (10). On the way between picking up the article and its delivery by the first unit, it is re-orientated by rotation through 90[deg]. Picking up is effected in a rotary movement. Packaging supply precedes accelerated motion of tongs used to fix the packaging to the article. An independent claim is included for corresponding equipment.

IPC 8 full level

B65B 25/00 (2006.01); **B65B 11/34** (2006.01)

CPC (source: EP)

B65B 11/34 (2013.01); **B65B 25/006** (2013.01)

Citation (search report)

- [X] US 5450706 A 19950919 - LATINI LEO [US]
- [X] EP 0064575 A1 19821117 - DERCKX HENRICUS A J M
- [X] EP 0036282 A1 19810923 - WRIGLEY W M JUN CO [US]
- [X] WO 03086871 A1 20031023 - CFS WEERT BV [NL], et al
- [PX] US 2005217218 A1 20051006 - ASMA SEFERINUS J [NL]
- [PX] WO 2006014107 A1 20060209 - CFS WEERT BV [NL], et al
- [PX] WO 2006011793 A1 20060202 - CFS WEERT BV [NL], et al
- [X] US 6539687 B1 20030401 - KEEN BRUCE W [US], et al
- [A] EP 0718192 A1 19960626 - DERCKX HENRICUS A J M [NL]
- [A] WO 2004113172 A1 20041229 - CFS WEERT BV [NL], et al
- [A] EP 1041005 A1 20001004 - CARUGIL S L [ES]
- [A] EP 1283183 A1 20030212 - EUROSICMA SRL [IT]
- [PA] WO 2006014108 A1 20060209 - CFS WEERT BV [NL], et al

Cited by

CN113602569A; CN115593699A; CN102219056A; CN109573146A; CN105346755A; CN111330923A; EP2610183A1; EP3187424A1; WO2007124984A1; WO2009127418A3; EP2108589A1; DE102008018224A1; EP2799349A1; DE102014005959A1; DE102008019605A1; EP2799347A1; DE102013007385A1; EP1847179B2

Designated contracting state (EPC)

CH DE ES GB IT LI NL

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1712472 A1 20061018; EP 1712472 B1 20080903; DE 102005017329 A1 20061019; DE 102005017329 B4 20141016; DE 502006001468 D1 20081016; DE 502006006868 D1 20100610; DE 502006006945 D1 20100624; EP 1939092 A2 20080702; EP 1939092 A3 20080709; EP 1939092 B1 20100512; EP 1939093 A2 20080702; EP 1939093 A3 20080709; EP 1939093 B1 20100428; EP 2210813 A1 20100728; EP 2210813 B1 20121114; EP 2210813 B2 20170308; EP 2218645 A1 20100818; EP 2218645 B1 20181031; ES 2309845 T3 20081216; ES 2340635 T3 20100607; ES 2341190 T3 20100616; ES 2393705 T3 20121227; ES 2393705 T5 20170731; ES 2695033 T3 20181228

DOCDB simple family (application)

EP 06003941 A 20060227; DE 102005017329 A 20050414; DE 502006001468 T 20060227; DE 502006006868 T 20060227; DE 502006006945 T 20060227; EP 08005993 A 20060227; EP 08005994 A 20060227; EP 10004445 A 20060227; EP 10004982 A 20060227; ES 06003941 T 20060227; ES 08005993 T 20060227; ES 08005994 T 20060227; ES 10004445 T 20060227; ES 10004982 T 20060227