

Title (en)

Drinking device for liquids in a flexible package

Title (de)

Entnahmevorrichtung für Flüssigkeit in einer flexiblen Verpackung

Title (fr)

Élément pour boire d'un emballage flexible

Publication

**EP 1431209 A3 20040630 (DE)**

Application

**EP 04001093 A 19990212**

Priority

- DE 19819574 A 19980430
- EP 99102902 A 19990212

Abstract (en)

[origin: EP0953514A2] The straw has a stem element (2) and a cap element (10) for the top opening of the straw. The straw has a sharp end region (8) for piercing through a foil section of the packaging. The straw is held in place in the opening by means of an annular groove (20) in its upper region.

IPC 1-7

**B65D 77/28**; **A47G 21/18**

IPC 8 full level

**B65D 77/28** (2006.01)

CPC (source: EP US)

**B65D 77/28** (2013.01 - EP US)

Citation (search report)

- [XA] US 5052614 A 19911001 - XUAN JIALUO [US]
- [XA] DE 29710651 U1 19970821 - NESTLE DEUTSCHLAND AG [DE]
- [X] US 5201459 A 19930413 - BETTLE JR GRISCOM [US], et al
- [A] US 2617559 A 19521111 - DER SPEK MARINUS A VAN
- [A] US 5526853 A 19960618 - MCPHEE CHARLES J [US], et al
- [A] US 3438527 A 19690415 - GAMBLIN ELTON BERRY JR

Cited by

EP3685710A1; WO2020151874A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0953514 A2 19991103**; **EP 0953514 A3 20001115**; AT E305421 T1 20051015; DE 19819574 A1 19991104; DE 59912609 D1 20060209; DK 1431209 T3 20051121; EP 1431209 A2 20040623; EP 1431209 A3 20040630; EP 1431209 B1 20050928; ES 2249739 T3 20060401; SI 1431209 T1 20051231; US 2001000579 A1 20010503; US 6202716 B1 20010320; US 6378573 B2 20020430

DOCDB simple family (application)

**EP 99102902 A 19990212**; AT 04001093 T 19990212; DE 19819574 A 19980430; DE 59912609 T 19990212; DK 04001093 T 19990212; EP 04001093 A 19990212; ES 04001093 T 19990212; SI 9930831 T 19990212; US 27568499 A 19990324; US 73158600 A 20001207