

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