

Title (en)  
CONTAINER, CLOSURE, AND METHODS FOR MANUFACTURE

Title (de)  
BEHÄLTER, VERSCHLUSS UND VERFAHREN ZUR HERSTELLUNG

Title (fr)  
RÉCIPIENT, FERMETURE ET PROCÉDÉS DE FABRICATION

Publication  
**EP 3917853 A4 20220330 (EN)**

Application  
**EP 20866805 A 20200603**

Priority  

- US 201962903245 P 20190920
- US 2020035840 W 20200603
- US 2019067485 W 20191219

Abstract (en)  
[origin: EP4269272A2] The closure cap for a container, the closure cap comprising a base, a flip-top lid and a disk. The base comprises an outer skirt and an inner skirt connected by a planar section, a dome-shaped central portion having an opening disposed therein, the opening being generally aligned with an internal shaft extending from the dome-shaped surface and terminating at a non-planar end surface, and an internal annular attachment skirt depending from the dome-shaped central portion. The inner skirt includes threads disposed on an internal surface of the inner skirt. The flip-top lid comprises an interior projection disposed on an inner surface of the flip top lid, the flip-top lid being moveable between a first position in which the interior projection blocks the opening and a second position where the interior projection is not positioned in the opening. The disk comprises an exterior annular wall, partial annular slots and internal flanges. A mixing chamber is formed by the disk, the dome-shaped central portion, the internal annular attachment skirt and the internal shaft. One or more fluid channels are formed by the non-planar end surface of the internal shaft, the disk and the partial annular slots. The base comprises a first angled tip and/or the disk comprises a second angled tip.

IPC 8 full level  
**B65D 47/08** (2006.01); **B65D 47/04** (2006.01); **B65D 47/32** (2006.01)

CPC (source: EP KR)  
**B65D 47/043** (2013.01 - EP); **B65D 47/0804** (2013.01 - EP KR); **B65D 47/2081** (2013.01 - KR); **B65D 47/32** (2013.01 - EP); **B65D 85/72** (2013.01 - KR)

Citation (search report)  

- [A] WO 2009046553 A1 20090416 - DELTONA INNOVATIONS AG [CH], et al
- [A] WO 0006460 A1 20000210 - SEAQUIST LOEFFLER KUNSTSTOFFWERK GMBH [DE], et al
- [A] WO 0153782 A1 20010726 - CROWN CORK & SEAL TECH CORP [US]
- [A] WO 2009046551 A1 20090416 - DELTONA INNOVATIONS AG [CH], et al
- See references of WO 2021055026A1

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 4269272 A2 20231101**; **EP 4269272 A3 20231206**; EP 3917853 A1 20211208; EP 3917853 A4 20220330; EP 3917853 B1 20231011; WO 2021055026 A1 20210325

DOCDB simple family (application)  
**EP 23192270 A 20200603**; EP 20866805 A 20200603; US 2020035840 W 20200603