

Title (en)
HINGED STOPPER

Title (de)
SCHARNIERSTOPFEN

Title (fr)
BOUCHON ARTICULÉ

Publication
EP 4100335 A4 20240228 (EN)

Application
EP 21751336 A 20210126

Priority
• US 202062971273 P 20200207
• IB 2021050574 W 20210126

Abstract (en)
[origin: WO2021156704A1] The present invention includes a plastic stopper, comprising a closure shell with a top roof and a tamper band to be secured on a bottle neck. The plastic stopper also includes a weakness line with bridges separably linked a bottom edge of the closure shell and a top edge of the tamper band and at least two hinges, the two hinges pivotably link the bottom edge of the closure shell and the top edge of the tamper band. At least one gap is located between the two hinges, the gap having a shape with a middle area. At least one tongue extends outwardly and laterally from the roof, the tongue being located over the middle area of the gap. The stopper includes knurls distributed around a peripheral wall of the closure shell and has the at least one tongue shaped alike one of the knurls.

IPC 8 full level
B65D 55/16 (2006.01); **B65D 41/32** (2006.01)

CPC (source: EP US)
B65D 41/32 (2013.01 - EP); **B65D 41/3428** (2013.01 - US); **B65D 55/16** (2013.01 - EP US); **B65D 2251/023** (2013.01 - EP); **B65D 2251/1008** (2013.01 - EP); **B65D 2401/30** (2020.05 - EP)

Citation (search report)
• [A] US 6481588 B1 20021119 - WAGNER ARMAND [LU]
• [A] WO 2019113681 A1 20190620 - HUSKY INJECTION MOLDING SYSTEMS LTD [CA]
• [A] US 2011297682 A1 20111208 - KWON SI JOONG [KR]
• See also references of WO 2021156704A1

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

DOCDB simple family (publication)
WO 2021156704 A1 20210812; CA 3163971 A1 20210812; EP 4100335 A1 20221214; EP 4100335 A4 20240228; MX 2022008888 A 20220815; US 2023056087 A1 20230223

DOCDB simple family (application)
IB 2021050574 W 20210126; CA 3163971 A 20210126; EP 21751336 A 20210126; MX 2022008888 A 20210126; US 202117797099 A 20210126