

Title (en)
CAP ANGULAR ORIENTATION

Title (de)
KAPPENWINKELAUSRICHTUNG

Title (fr)
ORIENTATION ANGULAIRE DE CAPUCHON

Publication
EP 3647221 A1 20200506 (EN)

Application
EP 18203190 A 20181029

Priority
EP 18203190 A 20181029

Abstract (en)
A cap, arrangement and method for determining the orientation of a cap (34) to be arranged on a neck portion of a package (10) is provided. The arrangement (100) comprises a cap holder (150) configured to hold the cap (34), a drive unit, and a sensor arrangement. The drive unit is configured to rotate the holder (150) around its symmetry axis or rotate the sensor arrangement around the holder (150) such that the relative orientation between the cap (34) and the sensor arrangement changes, wherein the cap is provided with at least one marking (36a, 36b), and wherein the sensor arrangement is configured to detect the at least one marking (36a, 36b) during said rotation, and to determine the orientation of the cap (34) based on the at least one detected marking (36a, 36b).

IPC 8 full level
B65D 41/04 (2006.01); **B67B 3/26** (2006.01)

CPC (source: EP)
B65D 41/0471 (2013.01); **B67B 3/264** (2013.01)

Citation (search report)
• [XAI] DE 102008010085 A1 20090820 - HENKEL AG & CO KGAA [DE]
• [XAI] WO 2016026035 A1 20160225 - HUSKY INJECTION MOLDING [CA]
• [XAI] US 2015033667 A1 20150205 - CIRIO SERGIO [IT]
• [X] US 2005061766 A1 20050324 - JOCHEM DAVID J [US]

Cited by
EP4209447A3; WO2023110541A3

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 3647221 A1 20200506

DOCDB simple family (application)
EP 18203190 A 20181029