

Title (en)

DEVICE AND METHOD FOR CLOSING A CONTAINER BY MEANS OF A SCREW CLOSURE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM VERSCHLIESSEN EINES BEHÄLTERS MIT EINEM SCHRAUBVERSCHLUSS

Title (fr)

DISPOSITIF ET PROCÉDÉ DE FERMETURE D'UN CONTENANT AU MOYEN D'UNE FERMETURE À VIS

Publication

EP 4271648 A1 20231108 (DE)

Application

EP 22700055 A 20220104

Priority

- DE 102021100028 A 20210104
- EP 2022050057 W 20220104

Abstract (en)

[origin: WO2022144459A1] The present invention relates to a device (1) for closing a container (8) by means of a screw closure (11), preferably for closing a beverage container by means of a screw closure (11) in a beverage packaging plant (5), the device comprising: a container holder (3) for holding a container (8) to be closed; and a closing unit (2), which can be moved in an application direction (12) relative to the container holder (3), wherein the closing unit (2) comprises an electric motor (13) for applying a torque (M) in the application direction (12) to a screw closure (11) received by the closing unit (2); and an open-loop/closed-loop control device (4), for open-loop/closed-loop control of the electric motor (13), wherein the open-loop/closed-loop control device (4) is designed to control the electric motor (13) in an open-loop/closed-loop manner such that a plurality of successive torque impulses (P) of a specified level (MP) can be applied to the screw closure (11). The invention also relates to a corresponding method.

IPC 8 full level

B67B 3/20 (2006.01); **B67B 3/26** (2006.01)

CPC (source: EP)

B67B 3/2033 (2013.01); **B67B 3/2093** (2013.01); **B67B 3/26** (2013.01)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102021100028 A1 20220707; CN 116783138 A 20230919; EP 4271648 A1 20231108; WO 2022144459 A1 20220707

DOCDB simple family (application)

DE 102021100028 A 20210104; CN 202280008897 A 20220104; EP 2022050057 W 20220104; EP 22700055 A 20220104