

Title (en)
CAPPING DEVICE

Title (de)
CAPPING-GERÄT

Title (fr)
DISPOSITIF DE BOUCHAGE

Publication
EP 3932852 A1 20220105 (EN)

Application
EP 21173935 A 20210514

Priority
JP 2020112138 A 20200629

Abstract (en)
Occurrence of "thread overriding" during attachment of a cap to the resin container, which is a phenomenon in which a lower end of a threaded portion of the cap being lowered overrides the first thread and reaches the second thread of a threaded portion of the container, is suppressed. In a case of attaching a cap 8 to a mouth 5C of a container 5 by a capping head 3 while conveying the container 5 at a predetermined operation speed (850 bpm), rotation of a servomotor 12 is started to rotate the cap 8 in a fastening direction in the middle of lowering the capping head 3 (at a point X1), prior to contact between threaded portions of the cap 8 and the container 5. And then, a lower end 8A' of a threaded portion 8A of the cap 8 being lowered while being rotated is brought into contact and smoothly engaged with the threaded portion 5D of the container 5 while rotating, thus enabling suppression of occurrence of "thread overriding". Consequently, prevention of the contamination of an inner face of the cap 8 and the threaded portions 8A, 5D is enabled through suppression of spill of a filling liquid due to impact of the "thread overriding".

IPC 8 full level
B67B 3/20 (2006.01); **B67B 3/26** (2006.01)

CPC (source: EP)
B67B 3/2033 (2013.01); **B67B 3/26** (2013.01)

Citation (applicant)
JP 2002308380 A 20021023 - SHIBUYA KOGYO CO LTD

Citation (search report)
• [XA] JP 2000168892 A 20000620 - SHIBUYA KOGYO CO LTD
• [AD] JP 2002308380 A 20021023 - SHIBUYA KOGYO CO LTD

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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