

Title (en)
CLOSURE DEVICE FOR CONTAINERS FOR TRANSPORTING RADIOACTIVE SUBSTANCES

Title (de)
VERSCHLUSSEINRICHTUNG FÜR BEHÄLTER ZUM TRANSPORT RADIOAKTIVER STOFFE

Title (fr)
DISPOSITIF DE FERMETURE POUR RÉCIPIENT DESTINÉ AU TRANSPORT DE MATIÈRE RADIOACTIVE

Publication
EP 2814754 B1 20160831 (DE)

Application
EP 13704126 A 20130215

Priority
• DE 102012101300 A 20120217
• EP 2013053036 W 20130215

Abstract (en)
[origin: CA2863744A1] The invention relates to a closure device (10) in particular for containers (110) for transporting radioactive substances, having a first and a second component (12, 14) each with a comb-like portion (20, 22), wherein the comb-like portions, with the closure device locked, has a bolt element (26) passing through them. In order to avoid damage by mechanical impact loading and shearing stress, and to allow sufficient tolerance between the elements which form the closure device without any locking-related disadvantages having to be accepted, it is proposed that the bolt element (26) has a head (30) with at least one accommodating recess (36, 38) running transversally to the longitudinal axis (27) of the bolt element, that at least one of the components has a through-opening (42) which, with the bolt passing through the comb-like portions (20, 22), is aligned with the at least one accommodating recess (36, 38), and that, with the closure device locked, an element (50), which has certain regions extending in the accommodating recess, is fixed in the through-opening.

IPC 8 full level
B65D 45/16 (2006.01); **B65D 45/20** (2006.01); **B65D 55/10** (2006.01); **G21F 5/015** (2006.01); **G21F 5/06** (2006.01)

CPC (source: EP US)
E05C 1/006 (2013.01 - US); **G21F 5/015** (2013.01 - US); **G21F 5/06** (2013.01 - EP US); **G21F 5/12** (2013.01 - EP US);
Y10T 292/1014 (2015.04 - EP US)

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)
DE 102012101300 B3 20130418; BR 112014020046 A2 20170620; BR 112014020046 A8 20170711; BR 112014020046 B1 20210119;
CA 2863744 A1 20130822; CA 2863744 C 20190507; CN 104271460 A 20150107; CN 104271460 B 20170908; EP 2814754 A1 20141224;
EP 2814754 B1 20160831; HK 1203466 A1 20151030; JP 2015514964 A 20150521; JP 6342335 B2 20180613; RU 2014137475 A 20160410;
RU 2586467 C2 20160610; US 2015255182 A1 20150910; US 9704606 B2 20170711; WO 2013120982 A1 20130822

DOCDB simple family (application)
DE 102012101300 A 20120217; BR 112014020046 A 20130215; CA 2863744 A 20130215; CN 201380009703 A 20130215;
EP 13704126 A 20130215; EP 2013053036 W 20130215; HK 15103877 A 20150422; JP 2014557048 A 20130215; RU 2014137475 A 20130215;
US 201314377372 A 20130215