

Title (en)

Device for exchange of mountable components on a rotating container handling machine

Title (de)

Vorrichtung zum Wechseln von an umlaufenden Behälterbehandlungsmaschinen angeordneten Bauteilen

Title (fr)

Dispositif pour échanger des pièces montables sur une machine rotative de traitement de récipients

Publication

**EP 1512663 B1 20060322 (DE)**

Application

**EP 04012538 A 20040527**

Priority

DE 10340365 A 20030902

Abstract (en)

[origin: EP1512663A1] A drinks bottle filling machine feeds bottles through a sequence of processes in which they are cleaned, sterilised, filled and sealed. The filling machine incorporates fittings e.g. filling tubes that are exchanged when switching from one product to another. Each process station e.g. filling station is allocated a number of interchangeable tools e.g. filling heads that are commensurate with the respective automated operation. The re-tooling process is automated and the change simultaneous at each station.

IPC 8 full level

**B65B 59/00** (2006.01); **B67C 3/22** (2006.01); **B67C 3/00** (2006.01)

CPC (source: EP US)

**B67C 3/004** (2013.01 - EP US); **B67C 3/22** (2013.01 - EP US); **B67C 2003/221** (2013.01 - EP US)

Cited by

DE102012111748A1; DE102011120425A1; CN104555859A; EP4177215A1; DE102019135472A1; EP2110359A1; CN117069040A; US10173880B2; WO2021121917A1; WO2016005122A1; WO2008009408A1; EP2409946A2; DE102010027624A1; WO2014086459A1; US9790073B2; WO2013083209A1; US9546083B2; EP2409948B1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**EP 1512663 A1 20050309; EP 1512663 B1 20060322**; DE 10340365 A1 20050324; DE 502004000366 D1 20060511; JP 2005075468 A 20050324; RU 2004126589 A 20060227; RU 2369556 C2 20091010; US 2005086909 A1 20050428; US 8006464 B2 20110830

DOCDB simple family (application)

**EP 04012538 A 20040527**; DE 10340365 A 20030902; DE 502004000366 T 20040527; JP 2004235180 A 20040812; RU 2004126589 A 20040901; US 93181704 A 20040901