

Title (en)

Method of filling a can and can for use therein.

Title (de)

Verfahren zum Füllen von Blechdosen und Blechdose dafür.

Title (fr)

Procédé de remplissage de boîtes et boîte utilisée par le procédé.

Publication

EP 0521642 A1 19930107 (EN)

Application

EP 92305702 A 19920622

Priority

GB 9114503 A 19910704

Abstract (en)

A method of filling a can with a non-carbonated product comprises in sequence the steps of (a) filling an open topped can with the product to leave a headspace; (b) blowing a permanent gas into the headspace to substantially fill the headspace and displace water vapour from the headspace; (c) seaming a can end onto the can to close the can; and (d) deforming the can end or can bottom from a first stable shape to a second stable shape so reducing the headspace volume and increase the headspace pressure to a level such that in anticipated conditions of processing, transit and storage the internal pressure remains above 1 atmosphere. The benefits arising are that cans having a thin side wall are supported against abuse or collapse and the cans remain in their desired shape. <IMAGE>

IPC 1-7

B65B 31/00; **B65D 79/00**

IPC 8 full level

B67C 3/00 (2006.01); **B65B 31/00** (2006.01); **B65D 79/00** (2006.01)

CPC (source: EP US)

B65B 31/00 (2013.01 - EP); **B65D 79/0081** (2020.05 - EP US); **B65D 79/0087** (2020.05 - EP US)

Citation (search report)

- [A] GB 2124597 A 19840222 - VAUX BREWERIES PLC
- [AD] GB 2089191 A 19820623 - TOYO SEIKAN KAISHA LTD
- [A] GB 2134496 A 19840815 - ASAHI BREWERIES LTD, et al
- [AD] GB 1235060 A 19710609 - CARNAUD & FORGES [FR]
- [AD] US 4836398 A 19890606 - LEFTAULT JR CHARLES J [US], et al

Cited by

US5804237A; ITVR20100064A1; CN102837850A; EP1641691A4; EP1500593A3; US9707711B2; US6666933B2; US10118331B2; WO2011120905A1; WO2005040006A1; WO2008058579A1; US9993959B2; US10501225B2; EP2161207A1; US11897656B2; US9764873B2; US9969517B2; US10035690B2; US10189596B2; US11731823B2; US11993443B2; US10214407B2; US10836552B2; US11377287B2; US8177092B2; US9802730B2; US9878816B2; US10315796B2; US10661939B2; US7717282B2; US8047389B2; US9688427B2; US10246238B2; US9624018B2; US10273072B2; US10351325B2; US11377286B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL PT SE

DOCDB simple family (publication)

EP 0521642 A1 19930107; **EP 0521642 B1 19961227**; AT E146737 T1 19970115; AU 1852292 A 19930107; AU 649847 B2 19940602; DE 69216160 D1 19970206; DE 69216160 T2 19970507; ES 2095407 T3 19970216; GB 9114503 D0 19910821; JP H05193694 A 19930803; MY 108295 A 19960930; NZ 243374 A 19940427; SG 47745 A1 19980417

DOCDB simple family (application)

EP 92305702 A 19920622; AT 92305702 T 19920622; AU 1852292 A 19920625; DE 69216160 T 19920622; ES 92305702 T 19920622; GB 9114503 A 19910704; JP 17863892 A 19920706; MY PI19921092 A 19920630; NZ 24337492 A 19920630; SG 1996004143 A 19920622