

Title (en)  
Sealing mechanism for a vessel and method of sealing a vessel by means of said sealing mechanism

Title (de)  
Siegelvorrichtung für einen Behälter und Verfahren zum Siegeln eines Behälters mittels derselben

Title (fr)  
Système d'étanchéité pour un conteneur et méthode de scellement d'un conteneur avec ledit système

Publication  
**EP 1477421 A3 20050119 (EN)**

Application  
**EP 04252858 A 20040517**

Priority  
JP 2003136860 A 20030515

Abstract (en)  
[origin: EP1477421A2] A sealing mechanism for a vessel (2; 20) which has an opening portion (3) closable by a cap (1) said cap (1) having a plug portion (4) and a seal plug (5); the plug portion (4) having an end wall (11) for covering the opening portion (3) of said vessel (2), a side wall (12), and a cylindrical wall (15) projecting generally axially from the end wall (11); the side wall (12) having an inner circumferential surface arranged to engage an outer circumferential surface of the opening portion (3) ; the cylindrical wall (15) being positioned inwardly of the side wall (12), and forming a receiving chamber (14), the receiving chamber having an opening (13) at its end remote from the end wall (11); the seal plug (5) being removably attachable to the cylindrical wall so as to close the receiving chamber opening (13), and having an outer circumferential portion (16) arranged, in use, to project beyond the outer circumference of the cylindrical wall (15); wherein the opening portion (3) of said vessel (2; 20) is provided with an inwardly protruding portion (22), which is so dimensioned and arranged that the outer circumferential portion (16) of the seal plug (5) may pass the protruding portion (22) when the cap (1) is applied to the vessel (2; 20), but may not pass the protruding portion (22) when the cap (1) is removed, thereby causing removal of the seal plug (5) from the receiving chamber (14). <IMAGE>

IPC 1-7  
**B65D 51/28**; **B65D 81/32**; **B65D 8/02**

IPC 8 full level  
**B65D 81/32** (2006.01); **B65D 41/34** (2006.01); **B65D 51/28** (2006.01)

CPC (source: EP US)  
**B65D 41/3447** (2013.01 - EP US); **B65D 51/2878** (2013.01 - EP US)

Citation (search report)  
• [X] FR 1562857 A 19690411  
• [A] GB 2371286 A 20020724 - BRACKENS ENTPR [GB]  
• [X] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 03 29 March 1996 (1996-03-29)

Cited by  
EP1582331A1; EP1752381A1; CN103253443A; US8104633B2; WO2017126981A1; WO2007020169A1; EP2292525A1; WO2011026861A1; US9617050B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1477421 A2 20041117**; **EP 1477421 A3 20050119**; JP 2004338751 A 20041202; US 2004226835 A1 20041118

DOCDB simple family (application)  
**EP 04252858 A 20040517**; JP 2003136860 A 20030515; US 82580604 A 20040415