

Title (en)
Pressure vessel

Title (de)
Druckbehälter

Title (fr)
Récipient à pression

Publication
EP 0794131 A1 19970910 (EN)

Application
EP 96301441 A 19960304

Priority
EP 96301441 A 19960304

Abstract (en)
A pressure vessel 10 includes an outer container 12 in combination with an inner bladder 14. Outer container 12 has an interior cavity 16 and an access opening 18 closed by a closure 20. Inner bladder 14 has an interior cavity 22 and an access opening 24 to receive an article sealed by a closure 26. The inner bladder 14 is disposed within the interior cavity 16 of the outer container 12. The pressure vessel 10 is characterized by the outer container 12 being a flexible, air permeable and liquid permeable containment envelope. The closure 20 of the outer container remains sealed and the containment envelope 12 remains dimensionally stable at a maximum intended pressure differential. The inner bladder 14 is flexible, air tight, liquid impervious, and separate from the outer containment envelope 12. The access opening 24 of the inner bladder 14 is sealed by an air impervious closure 26. The inner bladder 14 is disposed within the interior cavity 16 of the containment envelope 12 in an unexpanded state. The inner bladder 14 in a fully expanded condition outside of the containment envelope 12 is larger than the interior cavity 16 of the containment envelope 12. When the inner bladder 14 is positioned within the interior cavity 16 of the containment envelope 12 with internal pressure exceeding external pressure thereby creating a pressure differential, the internal pressure acts upon the inner bladder 14 to place the inner bladder 14 in compression within the interior cavity 16 of the containment envelope 12 while placing the containment envelope 12 in tension. <IMAGE>

IPC 1-7
B65D 75/38; **B65D 81/03**

IPC 8 full level
B65D 75/38 (2006.01); **B65D 81/03** (2006.01)

CPC (source: EP)
B65D 75/38 (2013.01); **B65D 81/03** (2013.01)

Citation (search report)
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EP2189385A1; WO2004045982A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0794131 A1 19970910; **EP 0794131 B1 20010530**; AT E201649 T1 20010615; DE 69613099 D1 20010705; DE 69613099 T2 20011129; DK 0794131 T3 20010917; ES 2158243 T3 20010901

DOCDB simple family (application)
EP 96301441 A 19960304; AT 96301441 T 19960304; DE 69613099 T 19960304; DK 96301441 T 19960304; ES 96301441 T 19960304