

Title (en)
Floating working volume

Title (de)
Schwebender Nutzraum

Title (fr)
Volume flottant utile

Publication
EP 0872413 A3 20000412 (DE)

Application
EP 98810136 A 19980219

Priority
CH 63297 A 19970317

Abstract (en)
[origin: EP0872413A2] The balloon (101) is of prolate spheroid shape, like a rugby ball, with its longitudinal axis vertical. The room (102) open to the public is situated at the bottom end of the vertical shape and consists of a small balloon compartment of variable volume, filled with air and kept at above atmospheric pressure. It may have reclining sets (122). The air-filled room acts as a compensating ballonnet if the balloon gains height and the external air pressure drops. The ballonnet is separated from the main helium-filled balloon by a flexible partition (121) which may bulge upwards or downwards to compensate for expansion or contraction of the helium gas.

IPC 1-7
B64B 1/50

IPC 8 full level
E04H 15/22 (2006.01); **G09F 21/10** (2006.01)

CPC (source: EP US)
E04H 15/22 (2013.01 - EP US); **G09F 21/10** (2013.01 - EP US)

Citation (search report)

- [YA] US 3933326 A 19760120 - SCHAUFFLER PETER P
- [Y] US 2707603 A 19550503 - MOORE JR CHARLES B
- [A] DE 3628133 A1 19880225 - SCHEIB ARTUR [DE]
- [A] US 3432122 A 19690311 - FLICKINGER MAYNARD L, et al

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0872413 A2 19981021; **EP 0872413 A3 20000412**; **EP 0872413 B1 20020828**; AT E222870 T1 20020915; DE 59805282 D1 20021002; US 6116538 A 20000912

DOCDB simple family (application)
EP 98810136 A 19980219; AT 98810136 T 19980219; DE 59805282 T 19980219; US 3821598 A 19980311