

Title (en)  
INFLATABLE STRUCTURE WITH OPENING

Publication  
**EP 0043762 B1 19850403 (FR)**

Application  
**EP 81401051 A 19810630**

Priority  
FR 8014913 A 19800704

Abstract (en)  
[origin: EP0043762A1] 1. An inflatable structure having an opening (3) and a substantially hemispherical shape, this structure being constituted of an inflatable wall (2) and of tubes (5) which are equally inflatable and which are disposed along meridians, and comprising a stationary part (2) and a mobile part or curtain (3) for obturating the opening, characterized in that in the stationary part constituted of a spherical summit part (7) or umbrella superposed to a portion of a spherical crown (A-B), the tubes which are substantially cylindrical and constitute beams are attached to the wall through their lower generatrix line along portions of meridians (9) located under the summit part as well as on the crown portion, and are disposed in such a way that the substantially cylindrical and circular tubes (5) which are separated from one another in the lower zone of the structure corresponding to the crown portion, become adjacent to each other and ovalised at the height of a parallel plane (6) situated adjacent to the summit part (7) of the structure and delimiting the contour of said spherical summit part in such a way that said tubes lean against each other for developing radial as well as tangential forces which are transferred into the wall to which they are attached.

IPC 1-7  
**H01Q 1/42**; E04H 15/20; H01Q 1/08

IPC 8 full level  
**E04H 15/20** (2006.01); **H01Q 1/08** (2006.01); **H01Q 1/42** (2006.01)

CPC (source: EP)  
**E04H 15/20** (2013.01); **H01Q 1/081** (2013.01); **H01Q 1/427** (2013.01); **E04H 2015/201** (2013.01); **E04H 2015/204** (2013.01)

Cited by  
US5479743A; EP0421722A3; DE4330224A1; FR2709876A1; GB2368599A; GB2368599B; US10965015B2; WO2019213537A1

Designated contracting state (EPC)  
DE GB IT NL

DOCDB simple family (publication)  
**EP 0043762 A1 19820113**; **EP 0043762 B1 19850403**; DE 3169665 D1 19850509; DK 296581 A 19820105; ES 267751 U 19830401; ES 267751 Y 19831016; FR 2486313 A1 19820108; FR 2486313 B1 19840511; NO 155419 B 19861215; NO 155419 C 19870325; NO 812282 L 19820105; PT 73316 A 19810801; PT 73316 B 19820901

DOCDB simple family (application)  
**EP 81401051 A 19810630**; DE 3169665 T 19810630; DK 296581 A 19810703; ES 267751 U 19810703; FR 8014913 A 19800704; NO 812282 A 19810703; PT 7331681 A 19810703