

Title (en)  
Pneumatic wall construction

Title (de)  
Pneumatische Wandkonstruktion

Title (fr)  
Construction d'un mur pneumatique

Publication  
**EP 1273743 B1 20070912 (DE)**

Application  
**EP 01116311 A 20010705**

Priority  
• EP 01116311 A 20010705  
• US 91094701 A 20010724

Abstract (en)  
[origin: EP1273743A1] The wall has a two-layer construction formed by three flexible tent fabrics (1-3). The inner layer (5), defined by the inner and middle tent fabric layers (1, 2), is inflatable and forms the main supporting structure of the wall. The outer layer (7), defined by the middle and outer tent fabric layers (2, 3) forms a convection space, through which air from the surroundings can flow in an upwards direction, in order to provide high thermal insulation or, in the event of the space inside the wall being cooled, maintain the increased temperature at the outer tent fabric. Inflatable support hoses between the middle and outer tent fabric layers can act as an alternative support structure and as spacer elements.

IPC 8 full level  
**E04H 15/20** (2006.01)

CPC (source: EP US)  
**E04H 15/20** (2013.01 - EP US); **E04H 2015/201** (2013.01 - EP US); **E04H 2015/202** (2013.01 - EP US); **E04H 2015/206** (2013.01 - EP US)

Cited by  
DE102007028936A1; DE102010011169B4; EP2022906A1; DE102007028936B4; DE102005010683B3; EP1700978A3; DE202018000567U1; DE102010011169A1; US7992348B2; US7770590B2; WO2018072253A1; WO2007062839A1; EP1700978A2; US7774987B2; DE202017004435U1; EP3447214A1

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**EP 1273743 A1 20030108; EP 1273743 B1 20070912**; AT E373155 T1 20070915; US 2003019515 A1 20030130; US 6598613 B2 20030729

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