

Title (en)
LNG storage tank

Title (de)
LNG-Speicherbehälter

Title (fr)
Réservoir de stockage de GNL

Publication
EP 2487400 A1 20120815 (EN)

Application
EP 11154318 A 20110214

Priority
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Abstract (en)
Disclosed is a concrete tank for very large LNG tanks . The invention utilizes membrane technology in concrete structures that deviate from the standard cylindrical constructions. Typical concrete housings of the invention are a parallelepipedic structure, or an annular structure comprising two concentric walls. Both structures can be covered by a gabled or an arched roof, and avoid the size limitations imposed on cylindrical structures as a result of the size limitations inherent to concrete domes. The invention proposes also several ways to improve the available working height of LNG within such concrete structures of a given height.

IPC 8 full level
F17C 3/02 (2006.01)

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Citation (applicant)
US 2005082297 A1 20050421 - DHELLEMMES JACQUES [FR]

Citation (search report)
• [XY] WO 2006003192 A1 20060112 - SHELL INT RESEARCH [NL], et al
• [XI] US 2007194051 A1 20070823 - BAKKEN KARE [NO], et al
• [X] US 2005115248 A1 20050602 - KOEHLER GREGORY J [US], et al
• [X] WO 0248602 A1 20020620 - OVE ARUP PARTNERSHIP LTD [GB], et al
• [X] JP S63135696 A 19880608 - NIPPON KOKAN KK
• [X] US 5285914 A 19940215 - DEL ZOTTO WILLIAM M [US]
• [Y] DE 9313562 U1 19931125 - NOELL LGA GASTECHNIK GMBH [DE]

Cited by
FR3023257A1

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