

Title (en)
SYSTEM FOR STORING AND/OR TRANSPORTING A LIQUEFIED GAS

Title (de)
LAGERUNGS- UND/ODER TRANSPORTSYSTEM FÜR EIN VERFLÜSSIGTES GAS

Title (fr)
SYSTEME DE STOCKAGE ET/OU DE TRANSPORT POUR UN GAZ LIQUEFIE

Publication
EP 3686309 A1 20200729 (FR)

Application
EP 19305077 A 20190122

Priority
EP 19305077 A 20190122

Abstract (en)
[origin: WO2020152207A1] A storage and/or transport system for a liquefied gas comprises a container (4, 6) which is intended to be in contact with the liquified gas, wherein the container consists substantially of metal sheets which are welded together in a fluid-tight manner, at least one metal sheet being an alloy based on iron/manganese comprising, by weight: $25.0\% \leq \text{Mn} \leq 32.0\%$; $7.0\% \leq \text{Cr} \leq 14.0\%$; $0 \leq \text{Ni} \leq 2.5\%$; $0.05\% \leq \text{N} \leq 0.30\%$; $0.1 \leq \text{Si} \leq 0.5\%$; optionally $0.010\% \leq \text{rare earth metals} \leq 0.14\%$; the remainder being iron and residual elements resulting from the processing operation.

Abstract (fr)
Un système de stockage et/ou de transport pour un gaz liquéfié comporte un contenant (4, 6) destiné à être en contact avec le gaz liquéfié, dans lequel le contenant est essentiellement constitué de tôles métalliques soudées ensemble de manière étanche, au moins une dite tôle métallique étant en un alliage à base de fer-manganèse comprenant, en poids : $25,0\% \leq \text{Mn} \leq 32,0\%$; $7,0\% \leq \text{Cr} \leq 14,0\%$; $0 \leq \text{Ni} \leq 2,5\%$; $0,05\% \leq \text{N} \leq 0,30\%$; $0,1 \leq \text{Si} \leq 0,5\%$; optionnellement $0,010\% \leq \text{terres rares} \leq 0,14\%$ le reste étant du fer et des éléments résiduels résultant de l'élaboration.

IPC 8 full level
C22C 38/00 (2006.01); **C22C 38/02** (2006.01); **C22C 38/38** (2006.01); **C22C 38/58** (2006.01); **F17C 3/02** (2006.01)

CPC (source: EP KR)
B65D 88/02 (2013.01 - KR); **B65D 88/54** (2013.01 - KR); **B65D 90/08** (2013.01 - KR); **C22C 38/001** (2013.01 - EP KR); **C22C 38/004** (2013.01 - EP); **C22C 38/005** (2013.01 - EP); **C22C 38/02** (2013.01 - EP); **C22C 38/38** (2013.01 - EP); **C22C 38/58** (2013.01 - EP KR); **C21D 2211/001** (2013.01 - EP KR); **F17C 2203/0648** (2013.01 - EP KR); **F17C 2270/0107** (2013.01 - EP KR)

Citation (applicant)
• FR 2549575 A1 19850125 - GAZ TRANSPORT [FR]
• WO 2012072906 A1 20120607 - GAZTRANSP ET TECHNIGAZ [FR], et al
• EP 0611217 A1 19940817 - TECHNIGAZ [FR]

Citation (search report)
• [A] WO 2019012236 A1 20190117 - GAZTRANSPORT ET TECHNIGAZ [FR]
• [A] US 2017276295 A1 20170928 - HERRY MICKAEL [FR], et al
• [A] JP 3195232 B2 20010806
• [A] US 2002121318 A1 20020905 - MORITO NOBUYUKI [JP], et al
• [A] HIDEKI TANAKA ET AL: "Suppression of cryogenic intergranular fracture through heat treatments and roles of boron in high manganese non-magnetic steels.", ISIJ INTERNATIONAL, vol. 30, no. 8, 15 August 1990 (1990-08-15), JP, pages 646 - 655, XP055597799, ISSN: 0915-1559, DOI: 10.2355/isijinternational.30.646

Cited by
FR3128272A1; EP4276211A1; FR3135467A1; WO2023066613A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3686309 A1 20200729; CN 113383102 A 20210910; JP 2022518252 A 20220314; KR 20210116491 A 20210927; WO 2020152207 A1 20200730

DOCDB simple family (application)
EP 19305077 A 20190122; CN 202080010290 A 20200122; EP 2020051481 W 20200122; JP 2021542313 A 20200122; KR 20217023080 A 20200122