

Title (en)

SEALED AND THERMALLY INSULATING TANK WITH ANTI-CONVECTIVE FILLING ELEMENT

Title (de)

ABGEDICHTETER UND WÄRMEISOLIERENDER TANK MIT ANTIKONVEKTIVEM FÜLLELEMENT

Title (fr)

CUVE ÉTANCHE ET THERMIQUEMENT ISOLANTE À ÉLÉMENT DE REMPLISSAGE ANTI-CONVECTIF

Publication

EP 3679289 B1 20210901 (FR)

Application

EP 18774093 A 20180903

Priority

- FR 1770930 A 20170904
- FR 2018052149 W 20180903

Abstract (en)

[origin: WO2019043347A1] The invention relates to a sealed and thermally insulating tank for storing a fluid, wherein a tank wall comprises, in series, in the direction of the thickness, a secondary thermal insulation barrier (1), a secondary sealing membrane (4), a primary thermal insulation barrier (5) and a primary sealing membrane (7), in which the secondary sealing membrane (4) is a corrugated metal membrane comprising a series of parallel corrugations (25, 26) forming channels and planar portions located between said corrugations (25, 26), and wherein the anti-convective filling elements (16, 20, 22) are arranged in corrugations (25, 26) of the secondary sealing membrane (4) in order to create a head loss in said channels.

IPC 8 full level

F17C 3/02 (2006.01)

CPC (source: EP KR RU US)

B67D 9/00 (2013.01 - US); **F17C 3/027** (2013.01 - EP KR RU US); **F17C 3/04** (2013.01 - RU); **F17C 6/00** (2013.01 - US); **F17C 9/00** (2013.01 - US); **F17C 2201/0157** (2013.01 - EP KR); **F17C 2201/052** (2013.01 - EP KR US); **F17C 2203/0329** (2013.01 - US); **F17C 2203/0358** (2013.01 - EP KR US); **F17C 2203/0631** (2013.01 - EP KR US); **F17C 2203/0636** (2013.01 - US); **F17C 2205/0355** (2013.01 - US); **F17C 2221/033** (2013.01 - EP KR US); **F17C 2223/0161** (2013.01 - EP KR US); **F17C 2223/033** (2013.01 - EP KR); **F17C 2227/0135** (2013.01 - US); **F17C 2260/033** (2013.01 - EP KR US); **F17C 2270/0107** (2013.01 - EP KR US)

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

DOCDB simple family (publication)

WO 2019043347 A1 20190307; CN 111279116 A 20200612; CN 111279116 B 20211210; EP 3679289 A1 20200715; EP 3679289 B1 20210901; ES 2899247 T3 20220310; FR 3070745 A1 20190308; FR 3070745 B1 20190906; JP 2020532689 A 20201112; JP 7142683 B2 20220927; KR 102558940 B1 20230724; KR 20200050984 A 20200512; RU 2743153 C1 20210215; SG 11202001777R A 20200330; US 2021062972 A1 20210304

DOCDB simple family (application)

FR 2018052149 W 20180903; CN 201880069925 A 20180903; EP 18774093 A 20180903; ES 18774093 T 20180903; FR 1770930 A 20170904; JP 2020512634 A 20180903; KR 20207008842 A 20180903; RU 2020108379 A 20180903; SG 11202001777R A 20180903; US 201816644240 A 20180903