

Title (en)

REINFORCED PRESSURE FLUID STORAGE TANK

Title (de)

VERSTÄRKTER DRUCKFLÜSSIGKEITSSPEICHERTANK

Title (fr)

RESERVOIR DE STOCKAGE DE FLUIDE SOUS PRESSION RENFORCE

Publication

EP 4136382 A1 20230222 (FR)

Application

EP 21725974 A 20210414

Priority

- FR 2003800 A 20200415
- FR 2021050654 W 20210414

Abstract (en)

[origin: WO2021209715A1] The invention relates to a process for manufacturing a pressure fluid storage tank and to a system for carrying out said method comprising the following steps: a) providing a rigid rotating support (10) having a central portion (34) and two opposite rounded end portions (30, 32); b) providing a composite ribbon comprising a thermoplastic polymer material and a fibrous material embedded in the polymer material; c) melting the polymer material of the ribbon and winding the ribbon around the rigid support (10) by making contiguous turns and superposed turns so as to form a composite layer around the rigid support (10). Furthermore, a plurality of discontinuous portions (40) of the ribbon is locally applied to at least one of the two rounded opposite end portions (30, 32).

IPC 8 full level

F17C 1/16 (2006.01)

CPC (source: EP)

F17C 1/16 (2013.01); **F17C 2201/0109** (2013.01); **F17C 2201/056** (2013.01); **F17C 2201/058** (2013.01); **F17C 2203/012** (2013.01); **F17C 2203/0604** (2013.01); **F17C 2203/0609** (2013.01); **F17C 2203/0619** (2013.01); **F17C 2203/0668** (2013.01); **F17C 2203/067** (2013.01); **F17C 2203/0673** (2013.01); **F17C 2205/0305** (2013.01); **F17C 2209/2163** (2013.01); **F17C 2209/234** (2013.01); **F17C 2221/012** (2013.01); **F17C 2223/0123** (2013.01); **F17C 2223/036** (2013.01); **Y02E 60/32** (2013.01)

Citation (search report)

See references of WO 2021209715A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021209715 A1 20211021; EP 4136382 A1 20230222; FR 3109426 A1 20211022; FR 3109426 B1 20220422

DOCDB simple family (application)

FR 2021050654 W 20210414; EP 21725974 A 20210414; FR 2003800 A 20200415