

Title (en)
METHOD FOR MANUFACTURING A FREESTANDING BODY FOR THERMAL INSULATION OF A VESSEL FOR STORING A FLUID AND
FREESTANDING BODY PRODUCED THEREBY

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES FREISTEHENDEN KÖRPERS ZUR WÄRMEISOLIERUNG EINES BEHÄLTERS ZUR LAGERUNG
EINER FLÜSSIGKEIT UND SO HERGESTELLTER FREISTEHENDER KÖRPER

Title (fr)
PROCEDE DE FABRICATION D'UNE CAISSE AUTOPORTEUSE POUR L'ISOLATION THERMIQUE D'UNE CUVE DE STOCKAGE D'UN FLUIDE
ET CAISSE AUTOPORTEUSE AINSI REALISEE

Publication
EP 3004719 B1 20200311 (FR)

Application
EP 14734867 A 20140602

Priority
• FR 1355268 A 20130607
• FR 2014051295 W 20140602

Abstract (en)
[origin: WO2014195614A2] The invention relates to a method for manufacturing a freestanding body intended for thermal insulation of a vessel, with moisture barrier, for storing a fluid, said method comprising: providing a plurality of supporting webs (14) made of a composite material comprising a thermoplastic matrix reinforced by fibres; providing a bottom panel (10) and a cover panel (11); inserting the supporting webs (14) between the bottom panel (10) and the cover panel (11), such that the bottom panel (10) and the cover panel (11) are separated in the thickness direction of the body and that the supporting webs (14) extend vertically in the thickness direction; attaching the supporting webs (14) to the bottom panel (10) and to the cover panel (11); filling a plurality of compartments (15) arranged between the supporting webs (14) with a heat-insulating filler; wherein the bottom panel (10) and the cover panel (11) each comprise at least one thermoplastic element (21, 22) for attaching the supporting webs (14); and wherein the supporting webs (14) are attached to the bottom panel and to the cover panel by a thermoplastic welding operation performed at the interface areas (25) between the supporting webs (14) and the thermoplastic elements (21, 22) of the bottom panel (10) and the cover panel (11). The invention also relates to a body manufactured thereby, and to a sealed, thermally insulating vessel comprising a thermal-insulation barrier including a plurality of bodies such as mentioned above.

IPC 8 full level
F17C 3/02 (2006.01); **B63B 3/68** (2006.01); **B63B 25/16** (2006.01); **F17C 3/04** (2006.01)

CPC (source: EP)
F17C 3/027 (2013.01); **F17C 2201/0157** (2013.01); **F17C 2201/052** (2013.01); **F17C 2203/0325** (2013.01); **F17C 2203/0329** (2013.01); **F17C 2203/0333** (2013.01); **F17C 2203/0341** (2013.01); **F17C 2203/035** (2013.01); **F17C 2203/0354** (2013.01); **F17C 2203/0358** (2013.01); **F17C 2203/0631** (2013.01); **F17C 2203/0651** (2013.01); **F17C 2209/225** (2013.01); **F17C 2209/227** (2013.01); **F17C 2209/228** (2013.01); **F17C 2209/238** (2013.01); **F17C 2221/033** (2013.01); **F17C 2223/0161** (2013.01); **F17C 2223/033** (2013.01); **F17C 2260/013** (2013.01); **F17C 2270/0107** (2013.01); **F17C 2270/0113** (2013.01); **F17C 2270/0123** (2013.01)

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 2014195614 A2 20141211; **WO 2014195614 A3 20151210**; AU 2014276646 A1 20151224; AU 2014276646 B2 20180607;
CN 105263826 A 20160120; CN 105263826 B 20180213; EP 3004719 A2 20160413; EP 3004719 B1 20200311; ES 2785383 T3 20201006;
FR 3006661 A1 20141212; FR 3006661 B1 20180202; JP 2016524679 A 20160818; JP 6336051 B2 20180606; KR 102263150 B1 20210609;
KR 20160016866 A 20160215

DOCDB simple family (application)
FR 2014051295 W 20140602; AU 2014276646 A 20140602; CN 201480032331 A 20140602; EP 14734867 A 20140602;
ES 14734867 T 20140602; FR 1355268 A 20130607; JP 2016517654 A 20140602; KR 20157035843 A 20140602