

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

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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.

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