

Title (en)
METHOD FOR STIFFENING PLATES INTENDED FOR THE CREATION OF SHIP WALLS AND COMPRISING LAMINATED COMPOSITE MATERIALS, AND RESULTING PLATE

Title (de)
VERFAHREN ZUR VERSTEIFUNG VON PLATTEN ZUR HERSTELLUNG VON SCHIFFSWÄNDEN MIT SCHICHTVERBUNDWERKSTOFFEN UND SO HERGESTELLTE PLATTE

Title (fr)
PROCÉDÉ DE RAIDISSAGE DE PLAQUES DESTINÉES À LA RÉALISATION DE PAROIS DE NAVIRES COMPORTANT DES MATÉRIAUX COMPOSITES STRATIFIÉS, PLAQUE OBTENUE

Publication
EP 3400134 A1 20181114 (FR)

Application
EP 17701173 A 20170105

Priority
• FR 1650144 A 20160108
• FR 2017050029 W 20170105

Abstract (en)
[origin: WO2017118819A1] The invention relates to a method for stiffening plates (1) that are intended for the creation of ship walls and comprise laminated composite materials. In said method, firstly, at least one elongate profile member (3a, 3b, 3c) made of laminated composite material and having a transverse cross-section of a predetermined shape over the length thereof is pre-manufactured, the profile member being rigid, and secondly, a panel (2) comprising laminated composite materials at least on the surface of at least one of the two main surfaces thereof is used, and said at least one pre-manufactured profile member (3a, 3b, 3c) is assembled and attached together onto one of the main surfaces of said panel (2). The main surface of the panel receives the profile member comprising laminated composite material. The profile member has a transverse cross-section that comprises three continuous portions: two flanges (7, 7') having substantially straight cross-sections and connected to one another by a web (6) having a substantially straight cross-section. The flanges (7, 7') and the web (6) in transverse cross-section are supported by separate planes, the plane of the web (6) intersecting the two planes, supporting the flanges (7, 7'), at 90°. The profile member can have a U-shaped or H-shaped profile in particular.

IPC 8 full level
B29D 99/00 (2010.01); **B29C 65/00** (2006.01); **B29C 65/48** (2006.01); **B29C 65/60** (2006.01)

CPC (source: EP US)
B29D 99/0014 (2013.01 - EP US); **B63B 3/32** (2013.01 - EP US); **B63B 3/34** (2013.01 - EP US); **B63B 5/24** (2013.01 - EP US); **B29C 65/48** (2013.01 - EP US); **B29C 65/562** (2013.01 - EP US); **B29C 66/112** (2013.01 - EP US); **B29C 66/122** (2013.01 - EP US); **B29C 66/131** (2013.01 - EP US); **B29C 66/524** (2013.01 - EP US); **B29C 66/532** (2013.01 - EP US); **B29C 66/61** (2013.01 - EP US); **B29C 66/71** (2013.01 - EP US); **B29C 66/712** (2013.01 - EP US); **B29C 66/721** (2013.01 - EP US); **B29C 66/7212** (2013.01 - EP US); **B29C 66/72141** (2013.01 - EP US); **B29C 66/73756** (2013.01 - EP US); **B29C 66/73941** (2013.01 - EP US); **B29L 2031/307** (2013.01 - EP US); **B63B 2003/265** (2013.01 - EP US); **B63B 2231/52** (2013.01 - EP US)

Citation (search report)
See references of WO 2017118819A1

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)
WO 2017118819 A1 20170713; EP 3400134 A1 20181114; FR 3046595 A1 20170714; FR 3046595 B1 20210514; US 2019031292 A1 20190131

DOCDB simple family (application)
FR 2017050029 W 20170105; EP 17701173 A 20170105; FR 1650144 A 20160108; US 201716068744 A 20170105