Title (en)

METHOD FOR THE PRODUCTION OF DOUBLY SPATIALLY CURVED SHELLS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ZWEIFACH RÄUMLICH GEKRÜMMTEN SCHALEN

Title (fr)

PROCÉDÉ DE FABRICATION DE COQUES DOUBLEMENT INCURVÉES DANS L'ESPACE

Publication

EP 2785933 B1 20160907 (DE)

Application

EP 12791189 A 20121127

Priority

- AT 17702011 A 20111130
- EP 2012073678 W 20121127

Abstract (en)

[origin: WO2013079465A1] The method for the production of a doubly spatially curved shell (1) comprises: placing a first sheet (5) and a second sheet (6) on a base surface (2), which sheets are tightly connected to one another at their edges; placing wedge-shaped pneumatic means (7) on the second sheet (6); inflating the wedge-shaped pneumatic means (7); producing shell segments (8) by laying a reinforcement and introducing a pourable, curing building material (9) between the wedge-shaped pneumatic means (7); arranging at least one flexible tension member (11) in the circumferential direction at the outer edge (4) of the base surface (2); mounting a load on the shell segments (8) along the outer edge (4); curving and raising the shell segments (8) by blowing in air between the first sheet (5) and the second sheet (6) with tensile loading of the tension member (11) in the circumferential direction; filling the joints (12) between the shell segments (8) with a curing casting material (13).

IPC 8 full level

E04G 11/04 (2006.01); **E04B 1/16** (2006.01); E04B 1/32 (2006.01)

CPC (source: EP)

E04B 1/169 (2013.01); **E04G 11/045** (2013.01); E04B 2001/327 (2013.01)

Citation (examination)

US 2812769 A 19571112 - SCHAEFER ERNEST R, et al

Cited by

WO2018058165A1

Designated contracting state (EPC)

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