

Title (en)

METHOD FOR THE PRODUCTION OF DOUBLE-BENT SHELLS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ZWEIFACH GEKRÜMMTEN SCHALEN

Title (fr)

PROCEDE DE REALISATION DE COQUES A DOUBLE COURBURE

Publication

EP 1706553 B1 20080423 (DE)

Application

EP 05700007 A 20050114

Priority

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Abstract (en)

[origin: WO2005068740A1] The aim of the invention is to be able to produce a shell that is curved twice in a three-dimensional manner without using formwork and without joining together arc-shaped elements. Said aim is achieved by a method that is characterized by the following steps: - a basal area (12) exceeding the area of the double-bent shell (10) is initially measured on a working area (15), preferably a plane; - a subarea of said basal area (12), which corresponds approximately to the difference between the basal area (12) and the area of the shell (10), is coated with at least one soft first material (20) having a low elastic modulus while a remaining subarea of the basal area (12) is coated with at least one second material (22) whose elastic modulus substantially exceeds the elastic modulus of the first material (20) and whose resistance to pressure is greater than that of the first material, at least one subarea coated with the first material (20) being located between two subareas of the basal area (12) that are coated with the second material (21); - a plate (14) having orthotropic properties, such as stiffness, is formed; - the basal area (12) of the plate (14) is then reduced such that the double-bent shell (10) is formed.

IPC 8 full level

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CPC (source: EP)

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Cited by

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