

Title (en)
SYSTEM AND METHOD FOR CONNECTING TEXTILE-REINFORCED STRUCTURAL MODULES, AND PRINTER DESCRIPTION FILE

Title (de)
SYSTEM UND VERFAHREN ZUM VERBINDEN VON TEXTILBEWEHRTEN STRUKTURMODULEN UND DRUCKERBESCHREIBUNGSDATEI

Title (fr)
SYSTÈME ET PROCÉDÉ POUR RELIER DES MODULES STRUCTURAUX À RENFORCEMENT TEXTILE, DISPOSITIF ET PROCÉDÉ POUR PRODUIRE UN RENFORCEMENT TEXTILE OU UN MODULE STRUCTURAL À RENFORCEMENT TEXTILE, COMPOSANT EN BÉTON, FICHIER DE DESCRIPTION D'IMPRIMANTE ET FICHIER DE DÉPÔT DE FIL

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Abstract (en)
[origin: CA3156631A1] The invention relates to a system for connecting textile-reinforced structural modules along a connecting edge (76), which has a peripheral groove (74) having yarn loops (4). According to the invention, the system comprises a wedge element (410) and two shell elements (420) having a keyway (422) and is intended for insertion into the two peripheral grooves (74) with the overlapping yarn loops (4), wherein, furthermore, the wedge element (410) is intended to be partially extracted from the two keyways (422), which are arranged opposite one another, such that the shell elements (420) are spread apart by means of a wedge effect and the yarn loops (4) can be pulled together. The invention also relates to an apparatus and to a method for producing a textile reinforcement (10), comprising a yarn (2) arranged within a main frame (100), or for producing a textile-reinforced structural module (72), comprising the textile reinforcement (10) and a curable material, wherein a freely shapeable shaping device (200) is provided, on which the structural module is formed. According to the invention, the textile reinforcement (10) can be formed between yarn-holding devices (130, 180), which can be arranged on flexible frame strips (110). The invention also relates to a concrete component consisting of connected concrete structural modules, and to a printer file and a yarn deposition file.

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