

Title (en)
COMPLEX FIBER STRING AND METHOD OF MANUFACTURING THE SAME.

Title (de)
FASERVERBUNDSEIL UND VERFAHREN ZU DESSEN HERSTELLUNG.

Title (fr)
CABLE EN FIBRE COMPLEXE ET PROCEDE DE REALISATION.

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Application
EP 94903071 A 19931227

Priority

- JP 36131892 A 19921228
- JP 3955793 A 19930202
- JP 27007793 A 19931001
- JP 9301894 W 19931227

Abstract (en)
[origin: WO9415015A1] This invention relates to a complex fiber string used as a tension member of a PC structure. The characteristics of the present invention reside in that it provides a complex fiber string having a high mechanical strength and produced by heating a thermosetting resin-impregnated fiber core so as to put the thermosetting resin in a semi-hardened state, subjecting the outer circumferential surface of the fiber core to primary wrapping and secondary wrapping with bundled fiber yarn, intertwining a plurality of fiber cores thus obtained, and then heating the intertwined fiber cores so as to harden the semi-hardened thermosetting resin. Another characteristic of the present invention reside in that the bundled fiber yarn for the primary or secondary wrapping of the fiber core is wound therearound in a spaced manner so as to form helical ridges and grooves on the outer circumferential surface of the fiber core, whereby the bonding strength required by a final product as a tension member with respect to a material to which the tension member is to be applied is improved.

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Citation (search report)

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