

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
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- JP 3955793 A 19930202
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- JP 9301894 W 19931227

Abstract (en)
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. <IMAGE>

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Cited by
CN102345238A; ES2156498A1; CN102345236A; CN103306150A; CN106812254A; GB2329199A; BE1021747B1; AU2011318673B2; WO2008129116A1; WO9831891A1; WO2015001476A3; US11820709B2

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