

Title (en)  
TETRAAXIAL WOVEN FABRICS AND TETRAAXIAL WEAVING MACHINE THEREOF

Publication  
**EP 0263392 A3 19910306 (EN)**

Application  
**EP 87114141 A 19870928**

Priority  
JP 23516886 A 19861001

Abstract (en)  
[origin: EP0263392A2] The present invention provides a tetraaxial woven fabric in a novel texture exhibiting isotropic nature superior to that of the triaxial woven fabric and is composed of warp ends, weft ends, and intersecting upper and lower bias yarns running obliquely to the former two under such circumstances as increasing demand for triaxial woven fabrics having isotropic nature in strength and elongation requisite to improvement in strength and reduction of weight of FRP and supply of materials suited to the manufacture of aircrafts and autocars. Further, for the purpose of weaving and tetraaxial fabric as above, the present invention provides a bias yarn feeding device and bias yarn traversing device in a structure that has never been devised before, thereby enabling high speed weaving and production at low cost of a fabric exhibiting high isotropic characteristics in spite of reduced thickness thereof.

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Citation (search report)  
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