

Title (en)

Three-dimensional woven fabric manufacturing method and apparatus

Title (de)

Verfahren und Vorrichtung zur Herstellung eines Dreidimensionalen Gewebes

Title (fr)

Procédé et dispositif pour la fabrication de tissu tridimensionnel

Publication

**EP 1365051 A2 20031126 (EN)**

Application

**EP 03010603 A 20030512**

Priority

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Abstract (en)

The present invention provides a multiaxis three-dimensional woven fabric manufacturing method and apparatus which serves to increase the density of a weave in a three dimensional woven fabric product. A three-dimensional woven fabric manufacturing method according to the present invention is characterized by including a step of forming a 4-axis yarn laminate LB of a desired thickness by using warps X, wefts Y, and a set of bias yarns B1, B2 to laminate a plurality of warp layers, a plurality of weft layers, and a plurality of layers each comprising the set of bias yarn layers, and a vertical yarn stitching step of stitching vertical yarns Z into the 4-axis yarn laminate from one surface of it in its laminating direction, and in that a three-dimensional woven fabric is formed by stitching the vertical yarn to fasten the warps X, wefts Y, and set of bias yarns B1, B2 together (Fig.3).  
<IMAGE>

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