

Title (en)  
IMITATION COTTON-KNITTED FABRIC, TERYLENE FILAMENT AND PRODUCTION METHOD THEREFOR

Title (de)  
AUS BAUMWOLLIMITAT GESTRICKTER STOFF, TERYLENFILEMENT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
TISSU TRICOTÉ EN COTON D'IMITATION, FILAMENT DE TÉRYLÈNE ET PROCÉDÉ DE PRODUCTION ASSOCIÉ

Publication  
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Application  
**EP 15866696 A 20151211**

Priority  
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Abstract (en)  
[origin: EP3231912A1] The present invention discloses a cotton-like knitted fabric, a polyester filament and a production method thereof. The fabric is a weft-knitted fabric obtained by material containing at least above 45% by weight of polyester filaments; the pore area distribution of the fabric is centered on 6000 to 22000  $\mu\text{m}^2$  and has a statistical variability of above 2Å, and the coefficient of variation of the pore area is greater than 40%. The polyester filament is formed from alternately arranged twist regions in a false-twist direction and twist regions in an opposite direction, wherein the twist regions in the false-twist direction have an average length of less than 0.3 cm, a coefficient of variation of length of above 60%, a diameter that is 30% to 70% of the diameter of the twist regions in the opposite direction, and a total length that is 20.0% to 40.0% of the total length of the polyester filaments. The knitted fabric of the present invention feels like real cotton, and is excellent in air permeability, bursting strength, hydroscopic and fast-drying performance, and ultraviolet resistance.

IPC 8 full level  
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Citation (search report)  
• [X] US 6408607 B1 20020625 - NOELLE WOLFGANG [DE]  
• [I] JP H1181071 A 19990326 - TORAY INDUSTRIES  
• [X] JP H08100340 A 19960416 - TORAY INDUSTRIES  
• [A] JP S5739246 A 19820304 - TEIJIN LTD  
• [A] WO 9403661 A1 19940217 - DU PONT [US]  
• [A] US 4634625 A 19870106 - FRANKLIN JOHN S [US]  
• See references of WO 2016091203A1

Cited by  
CN112267201A

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