

Title (en)  
METHOD AND DEVICE FOR MAKING INDUSTRIAL CONTINUOUS FILAMENT YARN BY ENTANGLEMENT, AND POLYESTER CONTINUOUS FILAMENT

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON TECHNISCHEN FILAMENTGARNEN DURCH VERWIRBELN SOWIE EIN POLYESTERFILAMENTGARN

Title (fr)  
PROCEDE ET DISPOSITIF POUR LA FABRICATION DE FILS CONTINUS INDUSTRIELS PAR ENCHEVETREMENT, AINSI QUE FIL CONTINU POLYESTER

Publication  
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Application  
**EP 98934734 A 19980804**

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Abstract (en)  
[origin: WO9907930A1] The invention concerns a method for making industrial continuous filament yarn by entangling a polyester multifilament yarn at high temperature, under yarn traction force less than 140 cN. By means of a tangling cop tube consisting of a body (1) provided with a perforated plate (2) and a deflection plate (3), heat is directly transmitted to the polyester filament and the air passing through the cop tube body (1) is directly transmitted to a metal block (8) with high thermal conductivity directly connected to the deflection plate (3). In the device for implementing said method, the deflection plate (3) is directly connected to a metal block (8) with high thermal conductivity, wherein a bore (7) is provided for housing a heating element. The polyester continuous filament designed for spinning applications, with a yarn count of 500-2000 dtex, has a resistance of at least 70 cN/tex for a breaking elongation less than 24 %, and a knot strength higher than 80 % and a spacing between 2 knots more than 4.0 cm.

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