

Title (en)
SINGLE YARN, SINGLE YARN PRODUCT, AND PREPARATION METHOD THEREFOR

Title (de)
EINZELFADEN, EINZELFADENPRODUKT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
FIL SIMPLE, PRODUIT EN FIL SIMPLE ET PROCÉDÉ DE PRÉPARATION CORRESPONDANT

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Application
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Abstract (en)
[origin: EP3012358A1] The invention relates to a single yarn, a single yarn product and a preparation method thereof, wherein the preparation method of the single yarn comprises: converging or converging and twisting an ultra high molecular weight polyethylene thin film or strip to obtain the single yarn. The single yarn product comprises at least a body prepared from the above-mentioned single yarn. The single yarn obtained by converging or converging and twisting the ultra high molecular weight polyethylene thin films or strips in the invention replaces traditional ultra high molecular weight polyethylene fibers to develop and prepare various products. In addition to the advantages of wear resistance, impact resistance, corrosion resistance, UV resistance and the like which are similar to those of the ultra high molecular weight polyethylene fibers, the single yarn also has the unique advantages of good structural integrity, high strength, high strength utilization ratio, high production efficiency, low processing cost, light weight, small linear density and the like, and therefore the single yarn can replace the traditional ultra high molecular weight polyethylene fibers in the preparation of various products and has a very wide application range.

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Citation (search report)

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- [XI] US 5479952 A 19960102 - ZACHARIADES ANAGNOSTIS E [US], et al
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- [XI] WO 2011154383 A1 20111215 - DSM IP ASSETS BV [NL], et al
- [A] US 8206810 B1 20120626 - HARDING KENNETH C [US], et al
- See also references of WO 2014201652A1

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