

Title (en)

METHOD FOR PRODUCING RECYCLED PET WOVEN FABRIC AND WOVEN FABRIC MADE FROM RECYCLED PET

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES GEWEBES AUS RECYCELTEM PET UND GEWEBE AUS RECYCELTEM PET

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN TISSU EN PET RECYCLÉ ET TISSU EN PET RECYCLÉ

Publication

EP 3978665 A1 20220406 (EN)

Application

EP 21461521 A 20210308

Priority

EP 21461521 A 20210308

Abstract (en)

The subject-matter of the invention is a method of 100% recycled PET technical fabric production, characterized in that it comprises steps where a warp of yarn obtained from 100% recycled PET filaments is warped with a thickness ranging from 40 to 334, preferably 84 to 334 dtex, and more preferably 84 to 167 dtex; the warp is tied on the loom, preferably using an automatic warp-tying machine; a weft of yarn obtained from 100% recycled PET filaments with a thickness ranging from 58 to 668 dtex, preferably 78 to 501 dtex, and preferably 167 to 334 dtex is threaded on a loom; after loom activation, the fabric pattern is established and weaving is carried out; the finished fabric is wound on a roller; initial quality control and preparation for the washing and dyeing process are carried out; the fabric is washed with heated water at 70°C to 100°C and a pressure of 0-1 bar and dyed at 110°C to 140°C and a pressure of 2.5-3 bar; the washed fabric is subjected to thermal stabilization in order to maintain its physicochemical parameters, and drying; the dried fabric is rolled on rollers and subjected to a final quality control, then the fabric is cut into smaller batches and labeled; wherein the stabilization of the fabric is carried out by annealing the fabric strip at 160°C to 220°C, with a fabric web feed rate from 10 m/min to 30 m/min. The subject-matter of the invention is also a fabric produced by this method.

IPC 8 full level

D03D 1/00 (2006.01); **D03D 15/283** (2021.01); **D03D 15/43** (2021.01); **D06B 3/10** (2006.01)

CPC (source: EP)

D03D 1/00 (2013.01); **D03D 15/283** (2021.01); **D03D 15/43** (2021.01); **D10B 2331/04** (2013.01); **D10B 2503/03** (2013.01)

Citation (applicant)

- PL 227700 B1 20180131 - MICHTA DARIUSZ FIRMA SOFTEX [PL]
- TW 201348540 A 20131201 - LI DE-SHENG [TW]
- TW 201209239 A 20120301 - DA AI TECHNOLOGY CO LTD [TW]
- EP 2415373 A1 20120208 - ABC ITALIA S R L [IT]
- JP 2003193349 A 20030709 - TOYO BOSEKI
- CN 111011950 A 20200417 - WUJIANGCITYKAIYUE TEXTILE CO LTD
- CN 111005130 A 20200414 - WUJIANG KAIYUE TEXTILE CO LTD
- CN 110644109 A 20200103 - DONGJING ARTIFICIAL FUR NINGBO CO LTD
- KR 101606846 B1 20160411
- KR 101437236 B1 20140902

Citation (search report)

- [XA] US 2018286290 A1 20181004 - WEBB ZACHARY [US], et al
- [XAI] CN 111058151 A 20200424 - WUJIANG KAIYUE TEXTILE CO LTD
- [XAI] CN 109680487 B 20210126
- [AD] KR 20150134642 A 20151202 - HAN DU HUM [KR]
- [AD] CN 110644109 A 20200103 - DONGJING ARTIFICIAL FUR NINGBO CO LTD

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3978665 A1 20220406; **EP 3978665 B1 20230809**; **EP 3978665 C0 20230809**; PL 3978665 T3 20240219

DOCDB simple family (application)

EP 21461521 A 20210308; PL 21461521 T 20210308