

Title (en)  
COATED LIGHTWEIGHT FABRIC, IN PARTICULAR FOR A SPINNAKER

Title (de)  
BESCHICHTETES LEICHTES GEWEBE, INSBESONDERE FÜR EINEN SPINNAKER

Title (fr)  
TISSU LÉGER ENDUIT, NOTAMMENT POUR SPINNAKER

Publication  
**EP 4225978 A1 20230816 (FR)**

Application  
**EP 21786229 A 20211004**

Priority  
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Abstract (en)  
[origin: WO2022073901A1] The invention relates to a fabric for lightweight nautical sails for sailboats and other surface vessels, such as spinnakers, asymmetric spinnakers, and gennakers, the fabric being formed from warp yarns and continuous weft yarns made of polyester and being coated on one or both faces with a crosslinked polymer, characterized in that the polyester is polyethylene terephthalate (PET) having a tenacity of 6 cN/dtex or more, in that the fabric has a density of between 20 and 50 yarns/cm in warp and weft, in that the polymer is a polyether-, polyester- or polycarbonate-based cross-linked polyurethane (PU), and in that said PU is derived from the cross-linking (1) of a one-component polyurethane elastomer having a modulus at 100% elongation of between 1 and 15 MPa, better still between 2 and 15 MPa, in particular between 6 and 15 MPa, according to standard DIN 53504, carried out in a solvent phase, and (2) by a cross-linking agent, with a proportion of dry cross-linking agent relative to dry elastomer of between 20% and 75% by weight, in particular between approximately 30 and approximately 75%. The coated fabric has a bias extension at 20 Lbs of between 10 and 30 1/100 inch.

IPC 8 full level  
**D03D 13/00** (2006.01); **B63H 9/067** (2020.01); **D06M 15/564** (2006.01); **D06M 15/568** (2006.01); **D06M 15/572** (2006.01); **D06N 3/00** (2006.01); **D06N 3/14** (2006.01); **D06M 101/32** (2006.01)

CPC (source: EP KR US)  
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Citation (search report)  
See references of WO 2022073901A1

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