

Title (en)

AN APPARATUS AND A METHOD FOR MANUFACTURING OF A TEXTURED YARN

Title (de)

VORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG EINES TEXTURIERTEN GARNES

Title (fr)

APPAREIL ET PROCÉDÉ DE FABRICATION D'UN FIL TEXTURÉ

Publication

**EP 3779002 A1 20210217 (EN)**

Application

**EP 19191404 A 20190813**

Priority

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Abstract (en)

The invention provides for a gas-dynamic yarn texturing expansion chamber, a texturing apparatus equipped with the gas-dynamic yarn texturing expansion chamber, a textured yarn, a method for yarn texturing, an artificial turf, a method and a system of manufacturing of the artificial turf. The gas-dynamic yarn texturing expansion chamber comprises: an inlet for a fluid flow and a yarn flow; at least a section having a sidewall being porous to provide egress of a portion of the fluid flow from the expansion chamber; and a downstream outlet for the yarn flow and another portion of the fluid flow.

IPC 8 full level

**D01F 6/04** (2006.01); **D02G 1/16** (2006.01); **E01C 13/08** (2006.01)

CPC (source: EP)

**D01F 6/04** (2013.01); **D02G 1/16** (2013.01); **D02G 1/161** (2013.01); **E01C 13/08** (2013.01)

Citation (applicant)

- EP 0282815 A1 19880921 - RIETER AG MASCHF [CH]
- EP 0163039 A1 19851204 - RIETER AG MASCHF [CH]
- EP 17195136 A 20171006
- FRANZ FOURNE: "Synthetic Fibers", 1999, CARL HANSER VERLAG GMBH & CO, article "BCF (Bulked Continuous Filament) Texturizing", pages: 456 - 460

Citation (search report)

- [XA] WO 2019096490 A1 20190523 - POLYTEX SPORTBELAEGE PRODUKTIONS GMBH [DE]
- [A] EP 3467167 A1 20190410 - POLYTEX SPORTBELAEGE PRODUKTIONS GMBH [DE]

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

Designated extension state (EPC)

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