

Title (en)

ARTIFICIAL TURF FIBERS COMPRISING POLYMER WASTE AND A COMPENSATORY POLYMER

Title (de)

KUNSTRASENFASERN AUS POLYMERABFÄLLEN UND EINEM KOMPENSIERENDEM POLYMER

Title (fr)

FIBRES DE GAZON ARTIFICIEL COMPRENANT UN DÉCHET DE POLYMÈRE ET UN POLYMÈRE COMPENSATOIRE

Publication

EP 3604675 B1 20231213 (EN)

Application

EP 18186327 A 20180730

Priority

EP 18186327 A 20180730

Abstract (en)

[origin: EP3604675A1] The invention relates to a method of manufacturing an artificial turf fiber (510). The method comprises: creating (302) a polymer mixture (100, 200) comprising molten plastic waste and a molten compensatory polymer (104), the plastic waste comprising one or more aged polymers (106), the compensatory polymer being an unaged polymer, the MFI of the compensatory polymer being at least four times higher than the MFI of the one or more aged polymers; extruding (304) the polymer mixture into a monofilament (406); and fabricating the artificial turf fiber from one or more of the monofilaments.

IPC 8 full level

E01C 13/08 (2006.01); **D01F 6/46** (2006.01); **D01D 5/253** (2006.01); **D01D 5/34** (2006.01); **D01F 8/06** (2006.01)

CPC (source: EP)

D01F 6/46 (2013.01); **E01C 13/08** (2013.01); **D01D 5/253** (2013.01); **D01D 5/34** (2013.01); **D01F 8/06** (2013.01)

Citation (examination)

WO 2017174461 A1 20171012 - POLYTEX SPORTBELÄGE PRODUKTIONS-GMBH [DE]

Cited by

US11945136B2; EP3936297A1; WO2022008637A2

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 validation state (EPC)

MA

DOCDB simple family (publication)

EP 3604675 A1 20200205; EP 3604675 B1 20231213; EP 3604675 C0 20231213

DOCDB simple family (application)

EP 18186327 A 20180730