

Title (en)

Method and apparatus for manufacturing artificial grass

Title (de)

Verfahren und Vorrichtung zur Herstellung von Kunstgras

Title (fr)

Procédé et dispositif de fabrication d'une herbe artificielle

Publication

**EP 1728902 A1 20061206 (DE)**

Application

**EP 06113471 A 20060504**

Priority

DE 102005020884 A 20050504

Abstract (en)

In a process to make artificial turf, a feed of polymer strands passes between a pair of heated galettes (11, 12) where it is tautened and texturized prior to release to a chilled galette (14) and wound onto a drum. The texturizing process takes place in a jet chamber (13) immediately prior to the chilled galette. The air jet impinges on the heated polymer strand as it emerges via a guide channel from the chamber. The guide channel has apertures through which cooling air is drawn. The wind-on speed is 100-500 m/min, and the extrusion speed is 5-35% higher than the wind-on speed. The strands are stretched by 5-20% between the two galettes. The polymer is e.g. a polyamide, polypropylene, or linear low-density polyethylene. The polymer strips are 0.5-1.5 mm wide and have a linear density of 250-1200 dtex. also claimed is a suitable artificial turf processing assembly.

IPC 8 full level

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CPC (source: EP)

**D02G 1/12** (2013.01); **D02J 13/005** (2013.01); **E01C 13/08** (2013.01)

Citation (search report)

[X] GB 2199853 A 19880720 - MACKIE & SONS LTD J

Cited by

EP2360300A1; ITBO20100073A1; WO2018166837A1; DE102009037740A1; WO2011020706A1

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