

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)

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Citation (search report)

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

Cited by

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