

Title (en)
FORMING SHAPED FIBER FABRICS

Title (de)
HERSTELLUNG VON PROFILFASER-FLÄCHENGEBILDEN

Title (fr)
FORMATION DE TISSUS DE FIBRES FAÇONNÉES

Publication
EP 1781844 A2 20070509 (EN)

Application
EP 05772081 A 20050718

Priority
• US 2005025268 W 20050718
• US 58832804 P 20040716

Abstract (en)
[origin: US2006012072A1] A fibrous product including a mixture of different shaped fibers is formed utilizing a spin pack assembly including a spinneret with at least two spinneret orifices having different cross-sections. In addition, the formation of the fibrous product is enhanced by controlling the pressure drop upstream from the spinneret orifices, which in turn facilitates effective control of fiber denier. A metering/distribution plate is preferably provided in the spin pack with channels having selected dimensions that control the pressure drop of molten polymer flowing through the spin pack. The metering/distribution plate can be retrofitted into existing systems and easily exchanged with other metering/distribution plates to enhance formation of the fibrous product with different fiber shapes.

IPC 8 full level
D01D 4/06 (2006.01); **D01D 5/08** (2006.01); **D01D 5/098** (2006.01); **D01D 5/34** (2006.01); **D04H 1/56** (2006.01)

CPC (source: EP US)
D01D 4/06 (2013.01 - EP US); **D01D 5/082** (2013.01 - EP US); **D01D 5/0985** (2013.01 - EP US); **D01D 5/24** (2013.01 - EP US);
D01D 5/253 (2013.01 - EP US); **D01D 5/34** (2013.01 - EP US)

Cited by
CN109722751A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
US 2006012072 A1 20060119; EP 1781844 A2 20070509; EP 1781844 A4 20090513; EP 1781844 B1 20170823; WO 2006020109 A2 20060223;
WO 2006020109 A3 20061221

DOCDB simple family (application)
US 18318605 A 20050718; EP 05772081 A 20050718; US 2005025268 W 20050718