

Title (en)

Synthetic fiber forming apparatus and an associated process for spinning synthetic fibers

Title (de)

Vorrichtung und Verfahren zum Spinnen von synthetischen Fasern

Title (fr)

Dispositif et procédé pour le filage de fibres synthétiques

Publication

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Application

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Priority

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Abstract (en)

[origin: EP1304401A1] A synthetic fiber forming apparatus is disclosed for the manufacture of a variety of synthetic fibers at an improved rate of efficiency and uniformity. The synthetic fiber forming apparatus includes a distribution plate and a metering plate which is positioned downstream of the distribution plate. The distribution plate contains at least one flow path which is in fluid flow connection with at least one exit hole in the distribution plate. The metering plate contains at least one orifice which is desirably positioned immediately downstream of the distribution plate exit hole, and which is adapted to meter the flow of a flowable material therethrough. The metering plate orifice is desirably smaller than the distribution plate exit hole and preferably a plurality of orifices are in fluid flow connection with a single distribution plate exit hole. The metering plate acts to provide a flowable material at a consistent pressure to the spinneret. A process for manufacturing synthetic fibers at a high rate of consistency and uniformity is also described. <IMAGE>

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