

Title (en)

OPTIMIZED FLOW TO PREVENT CORE LAYER BREAKTHROUGH

Title (de)

OPTIMISierter STROM ZUR VERHINDERUNG VON KERNSCHICHTDURCHBRUCH

Title (fr)

OPTIMISATION DE L'ECOULEMENT DESTINEE A EMPECHER UNE PERCEE DE LA COUCHE CENTRALE

Publication

**EP 1478501 A1 20041124 (EN)**

Application

**EP 03706008 A 20030131**

Priority

- US 0302867 W 20030131
- US 35359602 P 20020131

Abstract (en)

[origin: WO03064133A1] A method of co-extruding a plurality of plastic material flowing streams into a mold cavity produces a molded product. A flow velocity profile (120) at the end of a nozzle (100) having a throttle pin (110) is provided, including a flow velocity profile (160) near the flow front (140) in an article (130) as the flow front (140) moves at an average velocity. The interior core material (170) is injected along a streamline having a flow velocity greater than an average velocity of the combined streams, but less than the maximum velocity at the zero gradient (150), and the interior stream does not flow along or across a zero-velocity-gradient streamline of the combined streams.

IPC 1-7

**B29C 45/16**

IPC 8 full level

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CPC (source: EP)

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