

Title (en)

PROCESS FOR GRANULATING POWDERS OF THERMOPLASTIC POLYMERS UNDER IMPROVED ECONOMIC CONDITIONS

Title (de)

VERFAHREN ZUM GRANULIEREN VON THERMOPLASTISCHEN POLYMER PULVERN UNTER VERBESSERTEN WIRTSCHAFTLICHEN BEDINGUNGEN

Title (fr)

PROCEDE DE GRANULATION DE POUDRES DE POLYMERES THERMOPLASTIQUES DANS UNE CONJONCTURE ECONOMIQUE AMELIOREE

Publication

**EP 1648671 A1 20060426 (EN)**

Application

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Abstract (en)

[origin: WO2005014253A1] In a process for granulating thermoplastic polymers, in particular thermoplastic polyolefins, the polymer powder prepared in the polymerization reactor is introduced into an extruder, melted and homogenized in the extruder, then pressed through an extrusion die and granulated. According to the invention, an organic solvent or suspension medium is added to the polymer powder in an amount in the range from 0.001 to 20 % by weight, prior to introduction into the extruder. The invention is particularly useful for granulating polyethylene or polypropylene, thereby increasing the polymer throughput at constant energy consumption or decreasing the energy consumption at constant polymer throughput.

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