

Title (en)

METHOD AND DEVICE FOR PRODUCING A HIGH ORIENTED YARN

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN EINES HOCHORIENTIERTEN FADENS

Title (fr)

PROCEDE ET DISPOSITIF POUR LA PRODUCTION D'UN FIL HAUTEMENT ORIENTE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0028117A1] The invention relates to a method and a spinning device for producing a high oriented yarn (HOY) from a thermoplastic material. The yarn is drawn off from a spinning nozzle at a drawing-off speed of at least 6,500 m/min, the filaments that form the thread being drawn as they solidify so that a high oriented molecular structure is formed in the polymer. Before they solidify, the filaments are supported as they advance in such a way as to relieve the filaments of tensile stress prior to solidification, and in such a way that during solidification, a reduced drawing-off tension is exerted on the filaments for drawing. This ensures that the filaments tolerate the drawing-off tension caused by the high drawing-off speed without being overstressed.

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