

Title (en)
SPINNING DEVICE AND METHOD HAVING COOLING BY BLOWING

Title (de)
SPINNVORRICHTUNG UND VERFAHREN MIT KÜHLBEBLASUNG

Title (fr)
DISPOSITIF ET PROCEDE DE FILAGE AVEC SOUFFLERIE DE REFROIDISSEMENT

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Application
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Abstract (en)
[origin: US7364681B2] The present invention relates to an apparatus for producing continuously molded bodies from a molding material, such as a spinning solution containing cellulose, water and tertiary amine oxide. The apparatus (1) comprises a die plate (3) including extrusion orifices (4) through which the molding material is extruded into substantially filament-like continuously molded bodies (5). The continuously molded bodies (5) are passed through an air gap (6) and guided in a precipitation bath (9) by a deflector (10) to a bundling means (12) where they are united into a bundle of fibers. In the air gap, a blowing means (14) is provided for directing a cooling gas stream (15) onto the continuously molded bodies (5) in a direction transverse to the direction of passage (7). To improve the spinning stability and mechanical properties of the continuously molded bodies, it is intended according to the invention that directly with respect to the extrusion orifices (4) a first shielding zone (20) is arranged by which the extrusion orifices are shielded against the action of the cooling gas stream.

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