

Title (en)
HYGROSCOPIC FIBRE, AND MANUFACTURING METHOD FOR SAME

Title (de)
HYGROSKOPISCHE FASER UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
FIBRE HYGROSCOPIQUE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 2554721 A4 20131225 (EN)

Application
EP 11762512 A 20110309

Priority
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Abstract (en)
[origin: EP2554721A1] Disclosed is a hygroscopic fiber which is a fiber comprising polyamide 56 resin, and has a #MR of at least 3.0%. Further disclosed is a method for manufacturing a polyamide 56 fiber by a direct spin draw method in which: a polyamide 56 fiber discharged through a spinneret is cooled and solidified by cooling air; a spinning oil is deposited thereon and the fiber is stretched; and the fiber is taken up. The disclosed manufacturing method satisfies the following conditions: (1) The spinneret discharge line rate is between 14m/min and 30m/mm; (2) The product of the take up velocity and the draw ratio is between 3900 and 4500. Thus provided are a high added value hygroscopic fiber which has high moisture absorptivity without losing the strength, chemical resistant, and heat resistant characteristics of polyamides.

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