

Title (en)
NANOFIBER PRODUCTION DEVICE AND NANOFIBER PRODUCTION METHOD

Title (de)
VORRICHTUNG ZUR NANOFASERHERSTELLUNG UND VERFAHREN ZUR NANOFASERHERSTELLUNG

Title (fr)
DISPOSITIF DE PRODUCTION DE NANOFIBRE ET PROCÉDÉ DE PRODUCTION DE NANOFIBRE

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Abstract (en)
An object of the present invention is to provide an apparatus and method for producing a nanofiber by using a melt blown method improving productivity. A pellet-shaped raw material (resin) fed into a hopper 2 is supplied and melted in a heating cylinder 3 heated by a heater 4, and sent to a front part of the heating cylinder 3 by a screw 5 rotated by a motor 6. The heating cylinder 3 is provided with a head portion 7, and a high-pressure gas is ejected from the gas ejection hole 71 provided at a center of the head portion 7. The molten resin sent to an end of the heating cylinder 3 is discharged from a resin discharge hole 73 having six superfine tubes provided in a downstream side of the resin ejection hole 73 through inside of the head portion 7. The molten resin discharged from the resin discharge hole 73 is elongated and a fiber having nanometer-order diameter can be formed.

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