

Title (en)

A METHOD AND A FIBRE DISTRIBUTOR FOR AIR-LAYING FIBRES

Title (de)

VERFAHREN UND FASERVERTEILER FÜR TROCKENVLIESBILDUNG

Title (fr)

PROCEDE ET DISTRIBUTEUR DE FIBRES PERMETTANT LA PRODUCTION DE FIBRES PAR PROCEDE AIR-LAID

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004106604A1] A fibre distributor is used for air-laying fibres (4;6) on an endless, air pervious forming wire (9) in a plant for producing non-woven webs. The fibre distributor comprises a forming head (2) with a perforated bottom (7) and rows (14) of rotateable wings (15) situated at a distance above the bottom (7) for during production sweeping supplied fibres (4;6) along the rows (14) of wings (15) in an air stream before they successively leave the forming head (2) through the openings (8) of the perforated bottom (7) for being deposited in a layer (16) on the upper part (17) of the forming wire (2). The fibres (4;6) are, while being swept along in this way, inclined to form nits (20;21). The wings (15) are therefore adapted to rotate with an optimal speed of rotation in an interval where the fibre's (4;6) inclination to form nits (20;21) changes from being lesser to being larger when the rotation speed of the wings (15) grows. By means of the method and the fibre distributor according to the invention it is possible to produce non-woven webs with a minimum of fibre loss in form of nits and at the same time also with an extremely high rate of production.

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