Title (en)

Process and device for making a nonwoven web by depositing synthetic fibers

Title (de)

Verfahren und Vorrichtung zum Ablegen synthetischer Fasern zu einem Vlies

Title (fr)

Procédé et dispositif de fabrication d'un tissu non tissé par déposition de fibres synthétiques

Publication

EP 1837429 B1 20120111 (DE)

Application

EP 06005679 A 20060320

Priority

EP 06005679 A 20060320

Abstract (en)

[origin: EP1837429A1] The method for laying down synthetic fibers to form a non-woven, comprises removing the fibers from a melt spinning by a conveying fluid, accelerating the fiber into a guiding channel and leaving the conveying fluid and the fibers from the guiding channel as a fiber flow. The fiber flow is separated through a stacking belt guided diagonally to the channel and is directed before striking on the stacking belt, to a side in the direction of the stacking belt in such a way that the fibers strike the stacking belt in an angle of less than 60[deg] and traverse a path of less than 300 mm. The method for laying down synthetic fibers to form a non-woven, comprises removing the fibers from a melt-spinning by a conveying fluid, accelerating the fiber into a guiding channel and leaving the conveying fluid and the fibers from the guiding channel as a fiber flow is separated through a stacking belt guided diagonally to the channel and the fibers from the guiding channel as a fiber flow is separated through a stacking belt guided diagonally to the channel and is directed before striking on the stacking belt, to a side in the direction of the stacking belt in such a way that the fibers strike the conveying fluid and the fibers from the guiding channel as a fiber flow. The fiber flow is separated through a stacking belt guided diagonally to the channel and is directed before striking on the stacking belt, to a side in the direction of the stacking belt in such a way that the fibers strike the stacking belt in an angle of less than 60[deg] and traverse a path of less than 300 mm. The intensity of the deviation of the fiber flow is effected by a guiding plate, which extends itself sideways to the fibers between the guiding channel and the stacking belt, and by an additional air current, which flows in the direction of the stacking belt in a cross section through the fibers and also by a form body, which extends just above the stacking belt. The conveying fluid is injected into the guiding channel with an exc

IPC 8 full level

D04H 3/03 (2012.01); D04H 3/037 (2012.01); D04H 3/16 (2006.01)

CPC (source: EP)

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Citation (examination)

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