Title (en)

METHOD AND DEVICE FOR PRODUCTION OF COMPOSITE NON-WOVEN FIBRE FABRICS BY MEANS OF HYDRODYNAMIC NEEDLING

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON VERBUNDVLIESSTOFFEN MITTELS HYDRODYNAMISCHER VERNADELUNG

Title (fr)

PROCEDE ET DISPOSITIF POUR PRODUIRE DES NON TISSES COMPOSITES PAR ENCHEVETREMENT PAR EAU

Publication

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Application

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Abstract (en)

[origin: WO0153588A2] A conventional method for the production of a composite non-woven fibre from at least one spun non-woven fibre and subsequent application of a wood pulp layer to the above for production of a hygiene product is known. Accordingly, the spunbonded non-woven fibre is hydrodynamically needled, before the application of the pulp layer, in order to increase the fluid dispersion properties. Consequently, the pulp layer can no longer be needled, as the pulp would be washed out through the non-woven fibre. Due to the required abrasion resistance a bonding of the non-woven fibre is, however, necessary. According to the invention, the above problem is resolved, whereby a non-woven fibre is compressed or calendered with compressed air, as a pre-bonding treatment, before coating with the super-absorbent material, then the woodpulp layer is applied and both are bonded with a hydrodynamic water needling, followed by drying. A further calandering can be added. A further pre-bonded, in other words, calendered spunbonded, or card non-woven fibre can be applied to the spunbonded non-woven fibre as support layer, or the reverse.

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