

Title (en)  
PLANT FOR PRODUCING NON-WOVEN FABRIC

Title (de)  
ANLAGE ZUR HERSTELLUNG VON VLIESSTOFFEN

Title (fr)  
INSTALLATION DE PRODUCTION DE NON-TISSÉS

Publication  
**EP 4124685 B1 20240131 (EN)**

Application  
**EP 22187952 A 20220729**

Priority  
IT 202100020534 A 20210730

Abstract (en)  
[origin: EP4124685A1] Plant for producing non-woven fabric, which comprises a descent path (3) along a vertical axis (Y) between an upper inlet (4) and a lower outlet (5), an extrusion unit (29) in order to introduce filaments for forming non-woven fabric into the descent path (3), a cooling unit (6) in order to cool the filaments, and a stretching unit (7) placed below the cooling unit (6). The stretching unit (7) comprises a stretching duct (70), which is extended with seal continuity between an upper mouth (71), having a specific first transverse section (S1), and a lower mouth (72), having a specific second transverse section (S2). The stretching duct (70) comprises an adjustment section (74) which is extended being narrowed, with a given convergence angle ( $\alpha_1$ ), from the upper mouth (71) to a narrow section (73) having a specific third transverse section (S3). In addition, the stretching duct (70) comprises a diffusion section (75) which is extended being widened from the narrow section (73) to the lower mouth (72) with a specific divergence angle ( $\alpha_2$ ). The plant also comprises ventilator means (8), adapted to generate a flow of gas traversing the stretching duct (70).

IPC 8 full level  
**D04H 3/14** (2012.01); **D01D 5/098** (2006.01); **D01D 13/00** (2006.01); **D04H 3/033** (2012.01); **D04H 3/16** (2006.01)

CPC (source: EP)  
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DOCDB simple family (publication)  
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