

Title (en)
PLANT FOR PRODUCING NON-WOVEN FABRIC

Title (de)
ANLAGE ZUR HERSTELLUNG VON VLIESTOFFEN

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 (α_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 (α_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)
D01D 5/0985 (2013.01); **D01D 11/00** (2013.01); **D04H 3/033** (2013.01); **D04H 3/14** (2013.01); **D04H 3/16** (2013.01)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 4124685 A1 20230201; EP 4124685 B1 20240131

DOCDB simple family (application)
EP 22187952 A 20220729