

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
03 August 2023 (03.08.2023)



(10) International Publication Number
WO 2023/144410 A1

(51) International Patent Classification:

B01D 65/00 (2006.01) **B01D 69/06** (2006.01)
B01D 67/00 (2006.01) **B01D 69/10** (2006.01)

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

(21) International Application Number:

PCT/EP2023/052272

Published:

— with international search report (Art. 21(3))

(22) International Filing Date:

31 January 2023 (31.01.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

22154285.5 31 January 2022 (31.01.2022) EP

(71) Applicant: **BLUE FOOT MEMBRANES NV** [BE/BE];
Gerard Mercatorstraat 31, 3920 Lommel (BE).

(72) Inventors: **AERTS, Peter**; Gerard Mercatorstraat 31,
3920 Lommel (BE). **COLAERS, Maarten**; Gerard Mer-
catorstraat 31, 3920 Lommel (BE). **BRÜSS, Ulrich**; Ger-
ard Mercatorstraat 31, 3920 Lommel (BE). **VAN HOOFF,**
Stephan; Gerard Mercatorstraat 31, 3920 Lommel (BE).

(74) Agent: **BRANTSANDPATENTS BV**; Pauline Van Pot-
telsberghelaan 24, 9051 Ghent (BE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE,
KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU,
LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG,
NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS,
RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, CV,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI,
SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) Title: METHOD FOR THE PRODUCTION OF A MEMBRANE ENVELOPE

(57) Abstract: The current invention relates to a method for the production of a filtration membrane envelope comprising a 3D spacer fabric interposed between two membrane layers cast onto said 3D spacer fabric, wherein said method comprises a casting step, wherein during said casting step a polymer solution is applied to the outer surface of said 3D spacer fabric, wherein said polymer is applied by means of an injection process by means of a casting module and wherein said excess of coating material is removed by a casting head comprising a casting head, wherein prior or during the casting process the variation in thickness, roughness and/or tapering of the fabric is measured and the distance between the 3D fabric and the casting head is adjusted based on said measurement.



WO 2023/144410 A1