

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
22 February 2024 (22.02.2024)



(10) International Publication Number
WO 2024/037987 A1

(51) International Patent Classification:

D04H 1/56 (2006.01) *D04H 3/11* (2012.01)
D01D 5/08 (2006.01) *D04H 3/12* (2006.01)
D04H 3/007 (2012.01) *D04H 3/14* (2012.01)
D04H 3/033 (2012.01) *D04H 3/16* (2006.01)
D04H 3/105 (2012.01)

(21) International Application Number:

PCT/EP2023/072322

(22) International Filing Date:

11 August 2023 (11.08.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

22190330.5 13 August 2022 (13.08.2022) EP

(71) Applicant: **AQUAPAK IP LIMITED** [GB/GB]; Hollymoor Point, Hollymoor Way, Rubery, Birmingham West Midlands B31 5HE (GB).

(72) Inventors: **WILLIAMS, John**; Corndon View, Chirbury Shropshire SY15 6UD (GB). **GRIFFITHS, Sian**; Awel-fryn, Llewelyn Avenue, Glan Conwy, Conwy LL28 5LU (GB). **ASHWORTH, Robert**; 2 Ashdown Close, Colwyn Bay, Conwy LL28 5YX (GB). **EATON, Jack**; 34 Chelwood Grove, Leeds LS8 2AX (GB).

(74) Agent: **HEPWORTH BROWNE**; 15 St Pauls Street, Leeds LS1 2JG (GB).

(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,

(54) Title: EXTRUDED POLYVINYL ALCOHOL FIBRES AND FIBROUS PRODUCTS

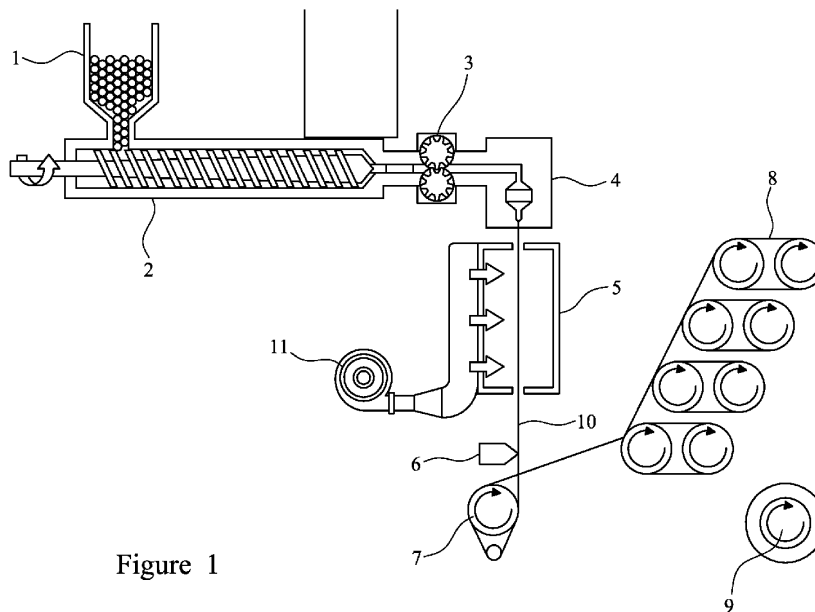


Figure 1

(57) Abstract: A method of manufacture of a nonwoven product comprising polyvinyl alcohol fibres, the method comprising the steps of: providing a polyvinyl alcohol composition comprising homopolymeric polyvinyl alcohol having a degree of hydrolysis of 88% to 98% or greater; and a molecular weight in the range from 22,000 to 38,000; a plasticiser selected from the group consisting of: diglycerol, triglycerol, fructose, ribose, xylose, D-mannitol, triacetin, pentaerythritol, dipentaerythritol, methyl pentanediol, 1,2-propanediol, 1,4-butanediol, 2-hydroxy-1,3-propanediol, 3-methyl-1,3-butanediol, 3,3-dimethyl-1,2-butanediol, polyethylene glycol 300, polyethylene glycol 400, alkoxylated polyethylene glycol, caprolactam, tricyclic trimethylolpropane formal, rosin esters, erucamide, and mixtures thereof; and a stabilizer selected from the group consisting of: sodium stearate, potassium oleate, sodium benzoate, calcium stearate, stearic acid, dimethyl pentane diol, propionic acid and mixtures thereof; melting the composition at a temperature from 190°C to 250°C;

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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, MU, 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, SC, 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).

Published:

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

extruding the melted composition to form an extrudate; forming the extrudate into molten fibres; drawing the molten fibres to form individual molten fibres or bundles of molten fibres; and allowing the molten fibres to solidify to form solid fibres or bundles of solid fibres.