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(21) International Application Number: PCT/US97/04114 (22) International Filing Date: 13 March 1997 (13.03.97) ✓ (30) Priority Data: 08/622,312 ✓ 27 March 1996 (27.03.96) ✓ US (71) Applicant: REEMAY INC. [US/US]; 70 Old Hickory Boulevard, P.O. Box 511, Old Hickory, TN 37138-3651 (US). (72) Inventors: BRIGNOLA, Edward, L.; 212 Montchanin Drive, Old Hickory, TN 37138 (US). FLECK, Alvin, A.; 809 Berwick Trail, Madison, TN 37115 (US). LaCROIX, Price, W.; 103 Maureen Drive, Hendersonville, TN 37075 (US). WILLIS, Edward, K.; 1214 Mount Vernon Lane, Mt. Juliet, TN 37122 (US). ZIMMERMAN, Leon, H. (deceased). (74) Agents: DUFFETT, Benton, S., Jr. et al.; Burns, Doane, Swecker & Mathis, L.L.P., P.O. Box 1404, Alexandria, VA 22313-1404 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, <u>SG</u> SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.	
(54) Title: PROCESS OF MAKING SPUN-BONDED WEB ✓ (57) Abstract An improved process and apparatus for the formation of a spun-bonded fibrous web suitable for service in nonwoven end uses. A melt-processable thermoplastic polymeric material is melt-extruded to form a multifilamentary spinline (2), is quenched, and is wrapped about at least two spaced driven draw rolls (14, 16) that are surrounded by a shroud (12) prior to collection to form a web (40), and is bonded to form a spun-bonded nonwoven product. The draw rolls (14, 16) exert a pulling force on the multifilamentary spinline (2) so as to accomplish drawing of the molten multifilamentary spinline (2) prior to complete solidification. The shroud (12) makes possible the self-stringing of the spinline (2) around the draw rolls (14, 16). A pneumatic jet (32) located at the exit end (24) of the shroud (12) assists in the contact of the multifilamentary spinline (2) with the draw rolls (14, 16) in order to facilitate the imposition of a uniform pulling force and expels the multifilamentary spinline (2) in the direction of its length toward a support (38) where it is collected. The formation of a highly uniform spun-bonded nonwoven product is made possible on an expeditious basis. 		