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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
31 January 2002 (31.01.2002)

PCT

(10) International Publication Number
WO 02/08106 A3

(51) International Patent Classification[7]: B65H 54/28, 54/32

(21) International Application Number: PCT/US01/22744

(22) International Filing Date: 19 July 2001 (19.07.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/220,380 24 July 2000 (24.07.2000) US

(71) Applicant *(for all designated States except US)*: **ADVANCED GLASSFIBER YARNS, LLC** [US/US]; 2556 Wagener Road, Aiken, SC 29801 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **MANN, Douglas, Brian** [US/US]; 3959 Hammonds Ferry, Evans, GA 30809 (US).

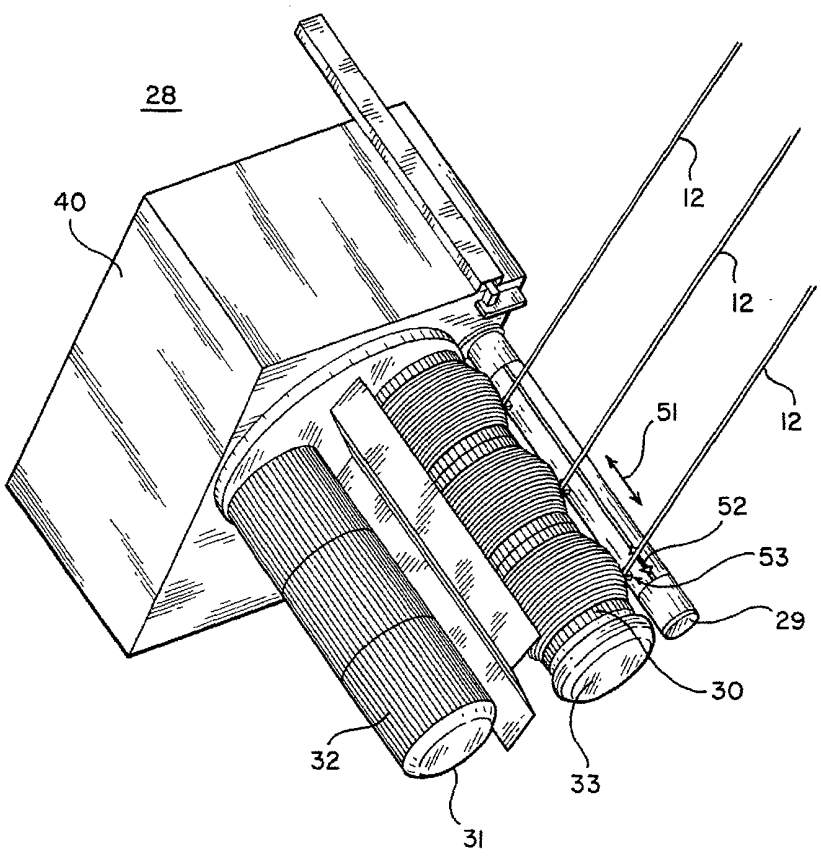
(74) Agents: **KRASNOW, David, M.** et al.; Alston & Bird LLP, Bank of America Plaza, Suite 4000, 101 South Tryon Street, Charlotte, NC 28280-4000 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EC, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR PRODUCING CYLINDRICAL PACKAGES OF GLASS FIBER STRANDS



(57) Abstract: An improved method and apparatus is disclosed for winding cylindrical glass fiber packages using the benefits of precision builders at high speeds to form high quality glass fiber packages wherein the precision builder comprises at least one guide eye able to oscillate at a rate independently from the oscillation rate of the precision builder.

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patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

(88) Date of publication of the international search report:
13 June 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/22744

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65H54/28 B65H54/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B65H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 552 667 A (R.E. SMITH) 5 January 1971 (1971-01-05)	1,4-14, 16-18, 20-23
Y	column 1, line 20 - line 34 column 1, line 62 - line 68 column 2, line 7 - line 13 column 3, line 62 -column 5, line 24 column 7, line 40 - line 52 column 8, line 14 - line 25 --- -/--	2,15

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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"P" document published prior to the international filing date but later than the priority date claimed

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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
4 February 2002	11/02/2002

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	D'Hulster, E

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Form PCT/ISA/210 (second sheet) (July 1992)

INTE· IATIONAL SEARCH REPORT

Information on patent family members

Internat· ·l Application No
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