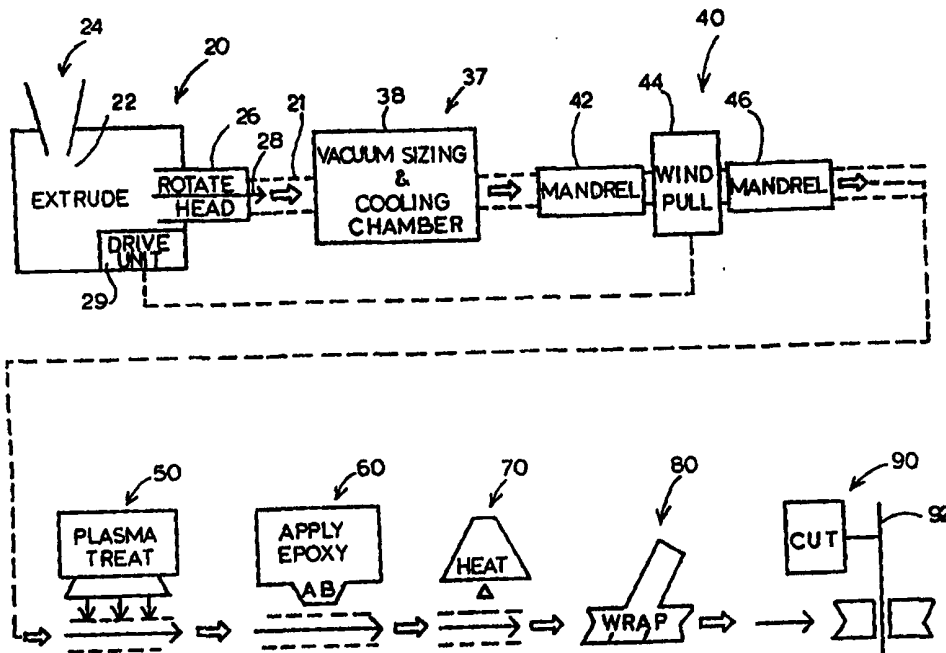




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/US99/02607 (22) International Filing Date: 5 February 1999 (05.02.99) (30) Priority Data: 09/024,971 6 February 1998 (06.02.98) US (71)(72) Applicants and Inventors: TAMS, F., Randy [US/US]; 3957 Glenview Terrace, Reno, NV 89503 (US). TAMS, Kenneth, D. [US/US]; 3923 Regal Drive, Reno, NV 89503 (US). (74) Agents: VAN RYSSELBERGHE, Pierre, C. et al.; Dickinson, McCormack &amp; Heuser, Suite 200, 520 S.W. Yamhill Street, Portland, OR 97204 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, 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, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 30 September 1999 (30.09.99)</p>

(54) Title: METHOD AND APPARATUS FOR MANUFACTURING PAINT ROLLERS



(57) Abstract

A method of manufacturing paint rollers includes the steps of extruding (20) a cylindrical plastic core (28) through a rotating extruder head (26), and securing an absorbent sheet material (80) onto the outer surface of the core in a continuous process.

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INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/02607

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC(6) : B65H 54/64; B29C 47/24; B05C 17/02  
 US CL : 156/244.13, 428; 29/895.211  
 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)  
 U.S. : 156/187, 195, 244.13, 244.17, 244.18, 425, 428, 429, 500; 29/895.211; 264/209.1, 209.2; 425/381, 382.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 none

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,E	US 5,874,032 A (ZDRAHALA et al.) 23 February 1999, col. 4, lines 22-30.	1-44
Y	US 2,502,638 A (BECHT) 04 April 1950, col. 2, line 37- col. 3, line 6.	1-44
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Y	US 5,468,207 A (BOWER et al.) 21 November 1995, Figure 4.	4-7, 11-13, 25, 34, 35
Y	US 4,378,267 A (SAITO) 29 March 1983, col. 2, lines 50-65.	8-10, 24

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Date of the actual completion of the international search 22 JULY 1999	Date of mailing of the international search report <b>02 AUG 1999</b>
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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US99/02607

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	US 4,191,792 A (JANSSEN) 04 March 1980, col. 4, lines 1-10.	17, 18, 37-44
Y	US 5,051,586 A (SABREEN) 24 September 1991, Abstract.	16, 27
Y,P	Promotional Brochure from Enercon Industries Corporation, Dyne-A-Mite(TM) Solves Adhesive Problems, Menomonee Falls, Wisconsin, cited in US 5,759,329, published 02 June 1998.	15
Y	KAPLAN, S. L., et al., Plasma Science, March 1987, 'Gas Plasma Technology and Its Applications', page 4.	16, 27