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AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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(54) Title: INVISIBLE SEAM LAMINATED ARTICLE AND PROCESS OF MANUFACTURE

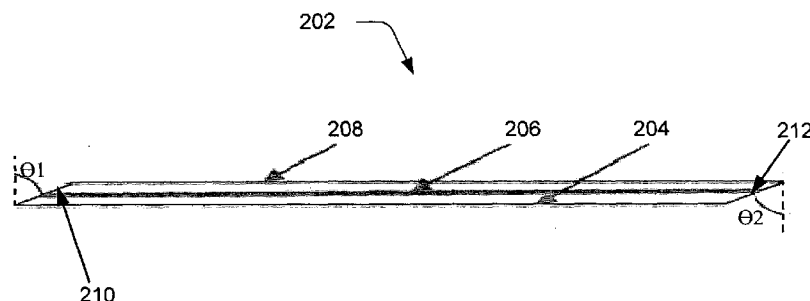


Figure 2a

(57) Abstract: The present disclosure relates to a laminated article with an invisible seam. The laminated article, in accordance with the present disclosure, is a laminate tube or lamitube. The present disclosure also relates to a process for manufacturing of laminated articles with substantially invisible seam.

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/IN12/00391

<p><b>A. CLASSIFICATION OF SUBJECT MATTER</b>                  IPC(8) - B32B 27/08 (2013.01)                  USPC - 138/119; 222/107; 428/35.7                  According to International Patent Classification (IPC) or to both national classification and IPC</p>																							
<p><b>B. FIELDS SEARCHED</b></p> <p>Minimum documentation searched (classification system followed by classification symbols)                  IPC(8) - B32B 27/08, 1/08; B29D 23/20; B65D 35/08 (2013.01)                  USPC - 138/119; 222/107; 428/35.7; 428/36.8</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)                  MciroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); DialogPRO; Google Scholar; Bing; butt, cosmetic*, density, eva, evoh, flow, flow, index, invisible, joint, laminat*, 'ldpe,' 'ldpe,' low, melt, 'mfi,' multilayer, plastic, polyethylene, polymer*, rang*, seam*, tube, vinyl, weld*</p>																							
<p><b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Category*</th> <th style="width:70%;">Citation of document, with indication, where appropriate, of the relevant passages</th> <th style="width:20%;">Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 2010/0243094 A1 (ARZ, J et al.) September 30, 2010; figure 2; paragraphs [0008], [0020], [0023], [0031]-[0034], [0040], [0041], [0060]</td> <td>9, 10</td> </tr> <tr> <td>---</td> <td></td> <td>----</td> </tr> <tr> <td>Y</td> <td></td> <td>1-6, 7/1-7/6, 8/1-8/6</td> </tr> <tr> <td>Y</td> <td>US 5913449 A (BRANCH, MG et al.) June 22, 1999; figures 1, 6; column 2, lines 66-67; columns 3-4</td> <td>1-6, 7/1-7/6, 8/1-8/6</td> </tr> <tr> <td>A</td> <td>US 6110600 A (RAMESH, RK) August 29, 2000; Abstract; figures 1, 5; columns 16-18</td> <td>1-6, 7/1-7/6, 8/1-8/6</td> </tr> <tr> <td>A</td> <td>US 2009/0092792 A1 (THOMASSET, J et al.) April 9, 2009; figure 5; paragraphs [0024], [0031]-[0033]</td> <td>1-6, 7/1-7/6, 8/1-8/6, 10</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 2010/0243094 A1 (ARZ, J et al.) September 30, 2010; figure 2; paragraphs [0008], [0020], [0023], [0031]-[0034], [0040], [0041], [0060]	9, 10	---		----	Y		1-6, 7/1-7/6, 8/1-8/6	Y	US 5913449 A (BRANCH, MG et al.) June 22, 1999; figures 1, 6; column 2, lines 66-67; columns 3-4	1-6, 7/1-7/6, 8/1-8/6	A	US 6110600 A (RAMESH, RK) August 29, 2000; Abstract; figures 1, 5; columns 16-18	1-6, 7/1-7/6, 8/1-8/6	A	US 2009/0092792 A1 (THOMASSET, J et al.) April 9, 2009; figure 5; paragraphs [0024], [0031]-[0033]	1-6, 7/1-7/6, 8/1-8/6, 10
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<p>Date of the actual completion of the international search</p> <p>12 April 2013 (12.04.2013)</p>		<p>Date of mailing of the international search report</p> <p align="center"><b>13 MAY 2013</b></p>																					
<p>Name and mailing address of the ISA/US</p> <p>Mail Stop PCT, Attn: ISA/US, Commissioner for Patents                  P.O. Box 1450, Alexandria, Virginia 22313-1450                  Facsimile No. 571-273-3201</p>		<p>Authorized officer:</p> <p align="center">Shane Thomas</p> <p>PCT Helpdesk: 571-272-4300                  PCT OSP: 571-272-7774</p>																					