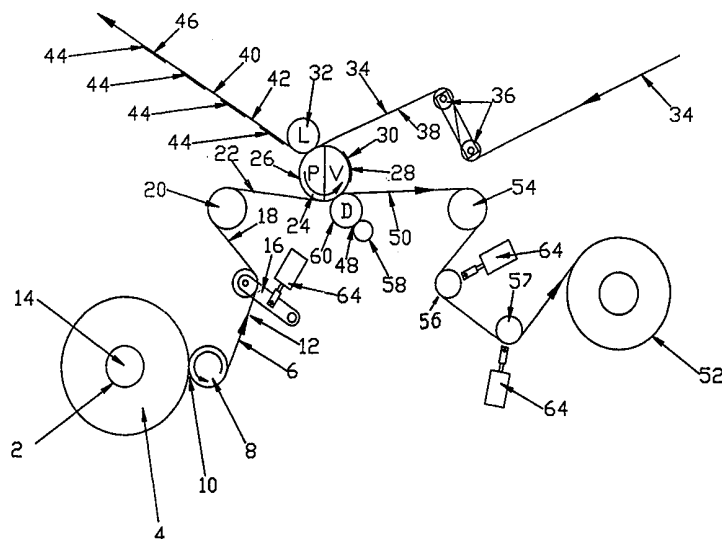




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>7</sup> : <b>B65C 9/18</b></p>	<p><b>A3</b></p>	<p>(11) International Publication Number: <b>WO 00/07883</b></p> <p>(43) International Publication Date: 17 February 2000 (17.02.00)</p>					
<p>(21) International Application Number: PCT/US99/17745</p> <p>(22) International Filing Date: 5 August 1999 (05.08.99)</p> <p>(30) Priority Data:</p> <table border="0"> <tr> <td>09/129,723</td> <td>5 August 1998 (05.08.98)</td> <td>US</td> </tr> <tr> <td>09/243,498</td> <td>3 February 1999 (03.02.99)</td> <td>US</td> </tr> </table> <p>(71) Applicant: ADVANCED LABEL SYSTEMS, INC. [US/US]; 228c Exchange Street South, St. Paul, MN 55102 (US).</p> <p>(72) Inventors: MAJKRZAK, Gerald, A.; 496 Oak Creek Drive South, Vadnais Heights, MN 55127 (US). DALE, Stanford; 14500 Rocksborough Road, Minnetonka, MN 55345 (US).</p> <p>(74) Agent: VIKSNINS, Ann, S.; Schwegman, Lundberg, Woessner &amp; Kluth, P.O. Box 2938, Minneapolis, MN 55402 (US).</p>	09/129,723	5 August 1998 (05.08.98)	US	09/243,498	3 February 1999 (03.02.99)	US	<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, 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, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, 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></p> <p>(88) Date of publication of the international search report: 8 June 2000 (08.06.00)</p>
09/129,723	5 August 1998 (05.08.98)	US					
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(54) Title: APPARATUS AND METHOD FOR APPLYING LINERLESS LABELS



## (57) Abstract

A method, module and apparatus useful in the application of linerless labels to surfaces of elements is provided in a methodology so that conventional lined label applicators can be used with linerless labels. The module for adapting apparatus which strips liners from a label and applies labels to a substrate, the module enabling the apparatus to apply linerless labels, the module comprising: a source of linerless label sheet, a source of liner sheet, a roll for guiding the linerless label sheet after removal from the source of linerless label, a die cutter and an anvil roller defining an area through which linerless label sheet may move between said die cutter and anvil roller, a laminator roller adjacent to the anvil roller defining an area between the anvil roller and the laminator roller through which both liner sheet and cut-out linerless labels from the linerless label sheet may move between the anvil roller and the laminator roller to form a temporary support of the liner for said cut-out linerless label.

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INTERNATIONAL SEARCH REPORT

Int. Application No  
PCT/US 99/17745

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 B65C9/18		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 B65C		
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)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 802 140 A (PROCTER & GAMBLE) 22 October 1997 (1997-10-22)  column 2, line 58 -column 3, line 41; figure 1	1-8, 11-13, 16, 18, 20, 21, 30
A	DE 295 01 739 U (SUED BOEHL DANIEL GARTHE GMBH) 16 March 1995 (1995-03-16) page 1, line 13 - line 20 page 2, line 4 - line 8; figure 1	2
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A	EP 0 281 064 A (WADDINGTON JOHN PLC) 7 September 1988 (1988-09-07)	
	-/-	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.		
<input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents :		
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		
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Date of the actual completion of the international search  26 November 1999		Date of mailing of the international search report  23.02.00
Name and mailing address of the ISA 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		Authorized officer  Müller, C

INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 99/17745

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 17745

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

please see additional sheet!

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-8, 11-21, 30

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

1. Claims: 1-8, 11-21, 30

A module cutting out labels and bonding them onto a web

2. Claims: 9, 10

A source of linerless labels bonded to a liner-material having a low adhesion surface

3. Claims: 22-29

An apparatus and a method for paying out labels

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/17745

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