# (19) World Intellectual Property Organization International Bureau





# (43) International Publication Date 20 June 2002 (20.06.2002)

## **PCT**

# (10) International Publication Number WO 02/047831 A3

(51) International Patent Classification<sup>7</sup>:

- - -

- (21) International Application Number: PCT/US01/48156
- (22) International Filing Date:

11 December 2001 (11.12.2001)

(25) Filing Language:

English

B07C 3/18

(26) Publication Language:

English

(30) Priority Data:

60/254,661

11 December 2000 (11.12.2000) Us

- (71) Applicant: UNITED PARCEL SERVICE OF AMERICA, INC. [US/US]; 55 Glenlake Parkway, N.E., Atlanta, GA 30328 (US).
- (72) Inventors: PEREZ, Juan, R.; 3012 Cedar Ridge Drive, Richardson, TX 75082 (US). ANDERSON, Duane; 10548 Gateridge Road, Cockeysville, MD 21030 (US). POTTEIGER, David; 8111 Buttercup Lane W., Pasadena, MD 21122 (US). BURGESS, Michael; 1004 Campbell Road, Fairlawn, NJ 07410 (US).

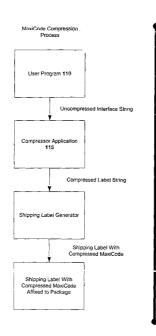
- (74) Agents: GRONHOLM, Gregory, T. et al.; Alston & Bird LLP, Bank of America Plaza, Suite 4000, 101 South Tryon Street, Charlotte, NC 28280-4000 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

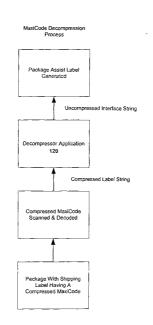
#### **Published:**

with international search report

[Continued on next page]

### (54) Title: SYSTEM FOR PACKAGE LOADING AND METHODS FOR PACKAGE HANDLING





02/047831 A3

(57) Abstract: The present invention provides systems and methods for electronically capturing a destination address of a package and for using the destination address to automate a package pre-load operation. An embodiment of the invention includes a compression system for compressing the destination address as a compressed MaxiCode symbol, a smart shipping label system for generating a shipping labe 1 with a compressed MaxiCode and a pre-load assist system for generating package handling instructions from the electronically-captured destination address.

# WO 02/047831 A3



## (88) Date of publication of the international search report:

4 December 2003

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

Inte: al Application No PCT7US 01/48156

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER B07C3/18			
According to	o International Patent Classification (IPC) or to both national classifica	ation and IPC		
	SEARCHED			
Minimum do	cumentation searched (classification system followed by classification $B07C$	on symbols)		
		· · · · · · · · · · · · · · · · · · ·		
Documentat	tion searched other than minimum documentation to the extent that so	uch documents are included in the fields sea	arched	
Electronic d	ata base consulted during the international search (name of data bas	se and, where practical, search terms used)		
EPO-In	ternal			
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim.No.	
Х	US 5 292 004 A (CESARINI ROGER) 8 March 1994 (1994-03-08)		1-11,15, 16	
Υ	the whole document	12-14		
Υ	US 5 764 774 A (LIU LARRY LINGNAN) 9 June 1998 (1998-06-09)		12-14	
	the whole document			
		ľ		
Furth	X Patent family members are listed in	annex.		
•	tegories of cited documents :  ent defining the general state of the art which is not	"T" later document published after the inter or priority date and not in conflict with t	he application but	
consid "E" earlier c	lered to be of particular relevance document but published on or after the international	cited to understand the principle or the invention  "X" document of particular relevance; the classifications of the classification	, , ,	
which	late ont which may throw doubts on priority claim(s) or is cited to establish the publication date of another	cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention		
	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an inv document is combined with one or mor ments, such combination being obviou	entive step when the e other such docu-	
"P" docume	ent published prior to the international filing date but	in the art.  "&" document member of the same patent for	•	
Date of the	actual completion of the international search	Date of mailing of the international search report		
2 September 2002		0 3. 02. 20	003	
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2		Authorized officer		
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Christer Wendenius		

# INTERNATIONAL SEARCH REPORT

national application No. PCT/US 01/48156

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational 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 Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	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. X	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.:  1-21
Remark	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

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-21

Claims 1-21 directed to a package pre-load system, a method of delivering a package to a destination and a method for loading a package on a delivery vehicle.

2. Claims: 22-23

Claims 22-23 directed to a method of data compression.

# INTERNATIONAL SEARCH REPORT

Inte I Application No
PCI/US 01/48156

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5292004		08-03-1994	FR	2626504 A1	04-08-1989
			AU	3047289 A	25-08-1989
			AU	627165 B2	20-08-1992
			DK	486389 A	03-10-1989
			EP	0327472 A1	09-08-1989
			WO	8907018 A1	10-08-1989
			JP	2503070 T	27-09-1990
			MC	2059 A	04-09-1990
			NO	893910 A	17-11-1989
US 5764774	 А	09-06-1998	NONE		