



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

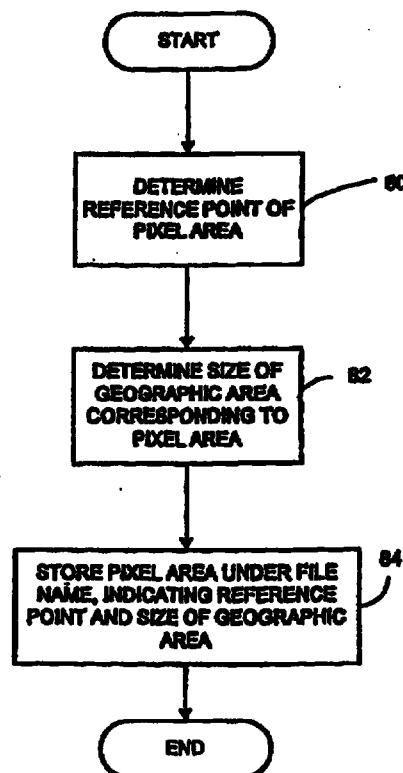
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G06F 3/14, G09G 1/06		A1	(11) International Publication Number: WO 97/49027
			(43) International Publication Date: 24 December 1997 (24.12.97)
(21) International Application Number: PCT/US96/10708		(81) Designated States: AU, BR, CA, CN, CZ, FI, JP, KP, KR, MX, NO, NZ, PL, RU, SD, <u>SG</u> , UA, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(22) International Filing Date: 20 June 1996 (20.06.96)		Published <i>With international search report.</i>	
(71) Applicant: AMES RESEARCH LABORATORIES [US/US]; 3895 Belvedere N.W., Salem, OR 97302 (US).			
(72) Inventors: CURTRIGHT, William, Ames; 3895 Belvedere N.W., Salem, OR 97302 (US). PARKS, Edwin, E.; 886 Fairview Avenue S.E. #27, Salem, OR 97302 (US). ROETHE, Kevin, J.; 270 W. Ipswich, Gladstone, OR 97027 (US). BIEKER, Matthew, T.; 2329 S.E. Beaver Creek Ln, Troutdale, OR 97060 (US).			
(74) Agent: BECKER, Mark, L.; Klarquist, Sparkman, Campbell, Leigh & Winston, One World Trade Center, Suite 1600, 121 S.W. Salmon Street, Portland, OR 97204 (US).			

(54) Title: **METHOD AND APPARATUS FOR GENERATING DIGITAL MAP IMAGES OF A UNIFORM FORMAT**

(57) Abstract

A computer-implemented method of converting printed maps into digitally stored images of a unique format. Bit mapped map images corresponding to a printed map are obtained by scanning or other means. A bit mapped map image is then cropped to select a map image corresponding to a desired geographic area, such as a one degree by one degree area (80). The boundaries of the selected map image are moved to shape the geographic area into a tessellated shape, such as a rectangle. The selected map image is then re-sized to contain a predetermined pixel area (82). The map image, now of a uniform format, is then stored within an identifier of a reference point and size of the geographic area (84) represented by the map image. For example, the identifier (84) may be the name of a computer-readable file containing the map image.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece			TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	NZ	New Zealand		
CM	Cameroon	KR	Republic of Korea	PL	Poland		
CN	China			PT	Portugal		
CU	Cuba	KZ	Kazakhstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EK	Estonia	LR	Liberia	SG	Singapore		