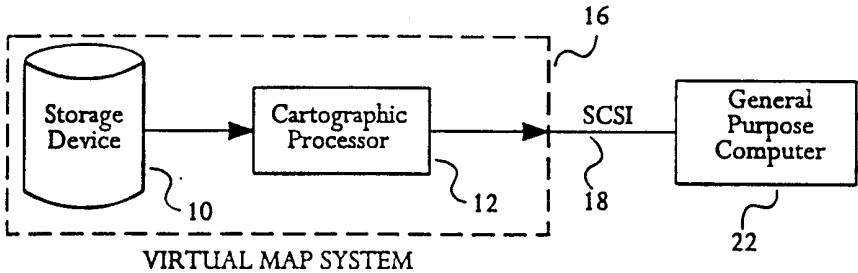


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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/US99/07696 (22) International Filing Date: 8 April 1999 (08.04.99) (30) Priority Data: 09/059,123 13 April 1998 (13.04.98) US (71) Applicant: NORTHROP GRUMMAN CORPORATION [US/US]; 1840 Century Park East, Los Angeles, CA 90067-2199 (US). (72) Inventor: FARMER, Randolph, Gregory; 26431 Birchfield Avenue, Rancho Palos Verdes, CA 90275 (US). (74) Agents: ANDERSON, Terry, J.; Northrop Grumman Corporation, 1840 Century Park East, Los Angeles, CA 90067-2199 (US) et al.		(81) Designated States: AE, 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, 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). Published <i>With international search report.</i> (88) Date of publication of the international search report: 13 April 2000 (13.04.00)
(54) Title: VIRTUAL MAP STORE/CARTOGRAPHIC PROCESSOR  <pre>graph LR subgraph VIRTUAL_MAP_SYSTEM [VIRTUAL MAP SYSTEM] SD[(Storage Device 10)] --> CP[Cartographic Processor 12] end CP -- SCSI 18 --> GPC[General Purpose Computer 22]</pre> (57) Abstract A digital map system has a storage device (10) for storing digital map data and a cartographic processor (12) for generating maps utilizing digital map data from the storage device. The cartographic processor is configured to generate maps in a plurality of different formats.		

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : G06T 17/00

US CL : 345/428, 429, 430

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. : 345/428, 429, 430, 418, 419, 425

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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim
X	US 5,335,181 A (McGUFFIN) 02 August 1994, col.5, line 64 through col.7, line 4.	1-12
A	US 5,325,449 A (BURT et al) 28 June 1994, ALL	1-12
A	US 5,224,181 A (TSUTSUMI) 29 June 1993, ALL	1-12
A	US 5,187,754 A (CURRIN et al) 16 February 1993, ALL	1-12

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 ☐ See patent family annex.

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