

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 December 2006 (28.12.2006)

PCT

(10) International Publication Number
WO 2006/137976 A3

- (51) International Patent Classification:
G06F 9/00 (2006.01) G06F 17/00 (2006.01)
G06F 15/16 (2006.01)
- (21) International Application Number:
PCT/US2006/015968
- (22) International Filing Date: 25 April 2006 (25.04.2006)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/690,214 14 June 2005 (14.06.2005) US
11/315,858 22 December 2005 (22.12.2005) US
- (71) Applicant (for all designated States except US): GENERAL INSTRUMENT CORPORATION [US/US]; 101 Tournament Drive, Horsham, Pennsylvania 19044 (US).

1780 Kettner Blvd., Unit 316, San Diego, California 92101 (US). GRZECZKOWSKI, Richard S., [US/US]; 615 Orangewood Court, Perkasie, Pennsylvania 18944 (US). HARRIMAN, Andrea C., [US/US]; 1453 Bartlett Court, Yardley, Pennsylvania 19067 (US).

(74) Agent: DRISCOLL, Benjamin D.; 101 TOURNA-MENT DRIVE, MD: PA 6/1-3032, Horsham, Pennsylvania 19044 (US).

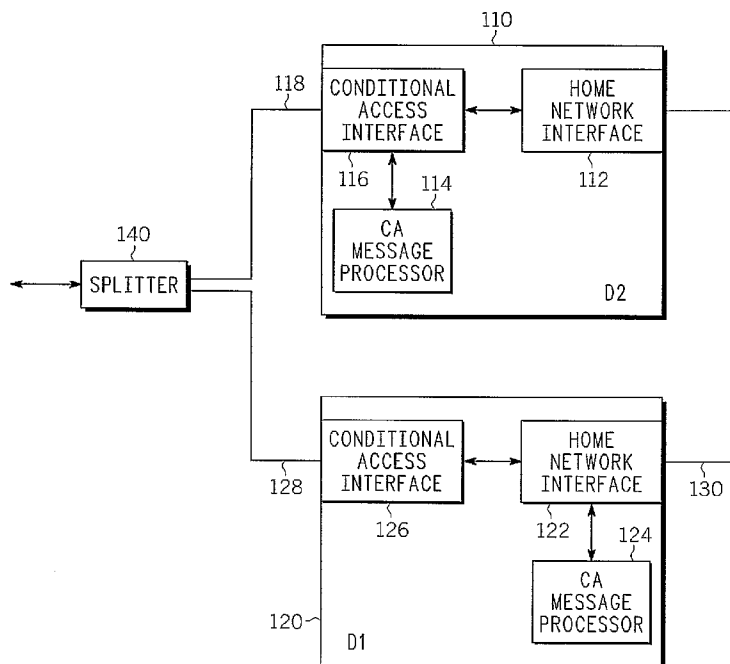
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): STONE, Christopher J., [US/US]; 16 Meridian Circle, Newtown, Pennsylvania 18940 (US). FILOMEO, Leonard G., [US/US];

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR ROUTING SIGNALS INTENDED FOR ONE DEVICE THROUGH ANOTHER DEVICE CONNECTED TO A SHARED ACCESS NETWORK



100

FIG. 1

(57) Abstract: A system (100) and method (200) for delivering conditional access information to a conditional access controlled device (120) incompatible with the conditional access transmission protocol. The conditional access information is delivered through a conditional access controlled device (110) compatible with the conditional access transmission protocol via a home network connection (130) between the conditional access controlled devices and according to a home network transmission protocol with which both conditional access controlled devices are compatible. The device (110) compatible with the conditional access transmission protocol receives the conditional access information on behalf of the device (120) incompatible with the conditional access transmission protocol, reformats the received conditional access information according to the home network transmission protocol, and transmits the reformatted information to the device (120) incompatible with the conditional access transmission protocol according to the home network transmission protocol and via the home network connection (130).

WO 2006/137976 A3



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

(88) Date of publication of the international search report:
14 May 2009

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/15968

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **G06F 9/00,15/16,17/00**

USPC: 726/12
 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. : 726/12

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)
 EAST - US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0021465 (MOORE et al) 21 Feb. 2002 (21.02.2002), paragraphs 10-12, 27, 34, 39, 41	1-18
Y	US 2003/0066075 (BAHN et al) 03 Apr. 2003 (03.04.2003), paragraph 33	1-18
Y	US 2002/0101991A1 (BACON et al) 01 Aug. 2002 (01.08.2002), paragraphs 5, 6	3, 12

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"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)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search: 10 April 2008 (10.04.2008)
 Date of mailing of the international search report: 25 APR 2008

Name and mailing address of the ISA/US:
 Mail Stop PCT, Attn: ISA/US
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 Facsimile No. (571) 273-3201

Authorized officer: *Kambiz Zand*
 Kambiz Zand
 Telephone No. (571) 272-4217