

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 November 2002 (21.11.2002)

PCT

(10) International Publication Number
WO 02/093808 A3

(51) International Patent Classification⁷: **H04N 7/173**

(21) International Application Number: PCT/DK02/00313

(22) International Filing Date: 14 May 2002 (14.05.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2001 00762 15 May 2001 (15.05.2001) DK
60/291,330 17 May 2001 (17.05.2001) US

(71) Applicant (for all designated States except US): **NETAD-TACK APS** [DK/DK]; Dronning Olgas Vej 39B, DK-2000 Frederiksberg (DK).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **RIISE, John, George** [DK/DK]; P.G. Ramms Allé 68 st. tv., DK-2000 Frederiksberg (DK).

(74) Agent: **ZACCO DENMARK A/S**; Hans Bekkevolds Allé 7, DK-2900 Hellerup (DK).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), 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 (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, 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).

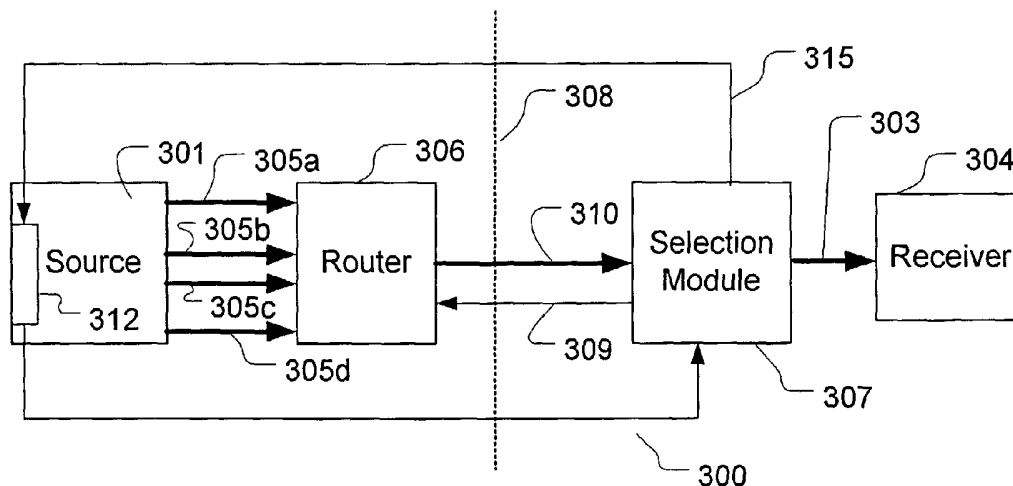
Published:

— with international search report

(88) Date of publication of the international search report:
27 November 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.

(54) Title: METHOD AND SYSTEM FOR TRANSMITTING MULTICAST DATA SIGNALS



(57) Abstract: Disclosed is a method of transmitting customised program data from a program source (301) to a receiver (304). The method comprises the steps of multicasting data signals from one or more program sources via different transmission channels (305a-d) of a communications network, where the data signals comprise respective sequences of program sections; transmitting a first control signal from a control means (312) to a selecting means (302), the first control signal being indicative of a customised sequence of program sections; in response to the first control signal causing the receiver by the selecting means to receive program sections from selected ones of the first and second transmission channels in a predetermined order corresponding to the customised sequence of program sections.



WO 02/093808 A3

INTERNATIONAL SEARCH REPORT

In

onal Application No

PCT/DK 02/00313

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04N7/173

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)
 IPC 7 H04L H04N

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)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 594 350 A (AMERICAN TELEPHONE & TELEGRAPH) 27 April 1994 (1994-04-27) abstract column 1, line 58 -column 2, line 11 column 4, line 4 - line 24 column 5, line 20 - line 53 column 7, line 22 - line 33 column 8, line 54 -column 9, line 28 figure 4	1-27
Y	WO 99 31871 A (SOURCENET CORP) 24 June 1999 (1999-06-24) abstract page 5, line 10 - line 23 page 8, line 5 -page 10, line 11 page 13, line 30 - line 34 figure 1B ----- -/--	1-27



Further documents are listed in the continuation of box C.



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

- *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
- *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
- *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.
- *&* document member of the same patent family

Date of the actual completion of the international search

18 November 2002

Date of mailing of the international search report

26/11/2002

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

Fantini, F

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK 02/00313

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 94 21085 A (SCIENTIFIC ATLANTA) 15 September 1994 (1994-09-15) abstract page 12, line 3 -page 13, line 3 page 15, line 6 - line 24 page 20, line 20 - line 25 figures 6,7 ----	1-27
A	US 5 778 187 A (BUTTERWORTH JAMES F ET AL) 7 July 1998 (1998-07-07) abstract figures 4,5 ----	1-27
A	US 5 978 381 A (PERLMAN STEPHEN G ET AL) 2 November 1999 (1999-11-02) column 10, line 48 -column 11, line 32 column 11, line 47 -column 12, line 33 -----	1-27

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
PCT/DK 02/00313

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0594350	A	27-04-1994	US 5446490 A CA 2106828 A1 DE 69322482 D1 DE 69322482 T2 EP 0594350 A1 JP 3014907 B2 JP 6224864 A	29-08-1995 24-04-1994 21-01-1999 08-07-1999 27-04-1994 28-02-2000 12-08-1994
WO 9931871	A	24-06-1999	CA 2315210 A1 EP 1040645 A2 JP 2002509397 T WO 9931871 A2 US 2002048275 A1	24-06-1999 04-10-2000 26-03-2002 24-06-1999 25-04-2002
WO 9421085	A	15-09-1994	US 5359601 A AU 6359994 A CA 2157670 A1 DE 69420260 D1 DE 69420260 T2 EP 0688490 A1 JP 8507666 T WO 9421085 A1 US 5418782 A	25-10-1994 26-09-1994 15-09-1994 30-09-1999 03-02-2000 27-12-1995 13-08-1996 15-09-1994 23-05-1995
US 5778187	A	07-07-1998	AU 3002097 A EP 0965087 A1 WO 9742582 A1 US 5983005 A US 6119163 A US 6434622 B1	26-11-1997 22-12-1999 13-11-1997 09-11-1999 12-09-2000 13-08-2002
US 5978381	A	02-11-1999	AU 7709998 A EP 0986869 A1 WO 9856128 A1	21-12-1998 22-03-2000 10-12-1998