



(51) International Patent Classification:

H04N 5/44 (2006.01) *H04N 5/46* (2006.01)
G09G 5/18 (2006.01)

Sütlüce Beyoglu, 34445 Istanbul (TR). **ATALAY, Koray**
[TR/TR]; Arçelik Anonim Sirketi, Karaagaç Caddesi No.
2-6, Sütlüce Beyoglu, 34445 Istanbul (TR).

(21) International Application Number:

PCT/IB2008/054336

(22) International Filing Date:

21 October 2008 (21.10.2008)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2007/08440 5 December 2007 (05.12.2007) TR

(71) Applicant (for all designated States except US): **ARCELIK ANONIM SİRKETİ** [TR/TR]; Karaagaç Caddesi
No. 2-6, Sütlüce Beyoglu, 34445 Istanbul (TR).

(72) Inventors; and

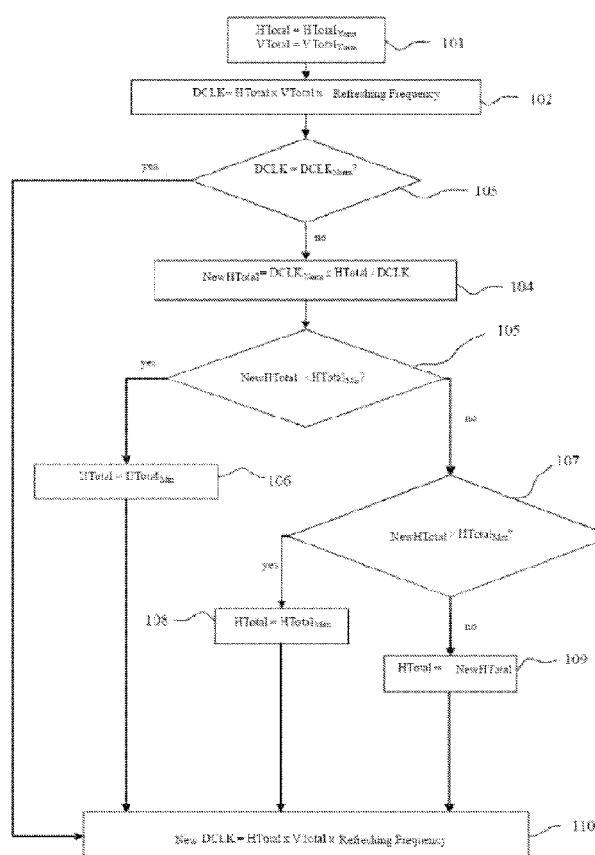
(75) Inventors/Applicants (for US only): **AYDIN, Kaan** [TR/
TR]; Arçelik Anonim Sirketi, Karaagaç Caddesi No. 2-6,

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

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
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, HR, HU, IE, IS, IT, LT, LU, LV,

[Continued on next page]

(54) Title: A RECEIVER AND A CONTROL METHOD



(57) Abstract: The present invention relates to a receiver (1) and a control method wherein DLCK signal is brought to the desired values by automatic adjustment of at least one of the horizontal and vertical pixel numbers (HTotal, VTotal) in the video signal, and thus panels with various resolutions of various manufacturers are easily used.



MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*

Published:

— *with international search report (Art. 21(3))*

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

15 October 2009

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2008/054336

A. CLASSIFICATION OF SUBJECT MATTER
INV. H04N5/44 G09G5/18
ADD. H04N5/46

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)
H04N G09G

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)
EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 118 486 A (REITMEIER GLENN A [US]) 12 September 2000 (2000-09-12) figures 1,2; table 2 column 8, line 6 - line 18 column 9 - column 11	1-7
X	EP 1 001 616 A (SONY CORP [JP]) 17 May 2000 (2000-05-17) cited in the application paragraphs [0004], [0006], [0008]; figures 1,3,4	1-7
X	US 2007/229487 A1 (SLAVENBURG GERRIT A [US] ET AL) 4 October 2007 (2007-10-04) equation 1 paragraphs [0047], [0057], [0058]; table 1 ----- -/--	1-7

☒ 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

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

19 August 2009

Date of mailing of the international search report

27/08/2009

Name and mailing address of the ISA/
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Keck, Wolfram

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2008/054336

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006/023079 A1 (SUGITANI TAKAYUKI [JP]) 2 February 2006 (2006-02-02) paragraphs [0012], [0015], [0042], [0067]; figures 2,4 -----	1-7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2008/054336

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6118486	A	12-09-2000	AU 9585498 A WO 9916243 A1	12-04-1999 01-04-1999
EP 1001616	A	17-05-2000	AU 5940999 A JP 2000152121 A KR 20000035436 A US 6515708 B1	18-05-2000 30-05-2000 26-06-2000 04-02-2003
US 2007229487	A1	04-10-2007	NONE	
US 2006023079	A1	02-02-2006	CN 1728765 A JP 2006047412 A KR 20060048887 A TW 283398 B	01-02-2006 16-02-2006 18-05-2006 01-07-2007