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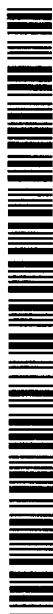
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 01/35664 A3

(54) Title: A HAND-HELD VIDEO VIEWER AND REMOTE CONTROL DEVICE

(57) Abstract: A control device and system for remotely viewing video programming and for monitoring and controlling electronic devices is disclosed. In one embodiment, a control device for monitoring and controlling an electronic device, includes: 1) a base unit having a microcontroller and a data interface coupled to the microcontroller for sending and/or receiving external information, the base unit further including a video interface for receiving video programming signals; and 2) a hand-held remote device in communication with the base unit via a data link, the hand-held remote device further including a display component for displaying at least a portion of the external information received from the data interface, the display component also for rendering video content in the video programming signals received from the video interface.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 00/01776

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04N7/173 H04N5/445 H04N5/44 H04B1/20

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 H04N H04B

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 34599 A (VSIS INC) 8 July 1999 (1999-07-08)	1-7,11, 18,19, 21-23, 33-36, 41,44, 47,48
A,P	page 2, line 13 -page 30 --- WO 99 59334 A (CROY CLEMENS) 18 November 1999 (1999-11-18) page 5, line 8 -page 47 -----	1-7,11, 18,19, 21-23, 33-36, 41,44, 47,48



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

4 April 2001

Date of mailing of the international search report

06.07.01

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 00/01776

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11,18,19,21-23,33-36,41,44,47,48

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-11,18,19,21-23, 33-36,41,44,47 and 48

A remote control able to receive non-video information from various external networks via the base station.

2. Claims: 12-15

A remote control including a smart card performing various transactions.

3. Claim : 16

A remote control performing the functions of a set-top box.

4. Claim : 17

A set top box included in a tv receiver.

5. Claim : 20

A remote control used as a wireless telephone

6. Claims: 24-32 37

A remote control including selection facilities

7. Claims: 38-39

A hand-held device including video decryption facilities before display

8. Claim : 40

A chargeable remote device

9. Claim : 42

A remote control able to learn control codes

10. Claims: 43, 50

A remote control including a personal database

11. Claims: 45-46

A set-top box containing a browsable personal database.

12. Claim : 49

A remote control able to communicate with further remote controls

INTERNATIONAL SEARCH REPORT

Information on patent family members

national Application No

PCT/IB 00/01776

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9934599 A	08-07-1999	US 6097441 A AU 2010599 A EP 1044564 A	01-08-2000 19-07-1999 18-10-2000
WO 9959334 A	18-11-1999	US 6040829 A AU 3530099 A BR 9911767 A EP 1078514 A	21-03-2000 29-11-1999 06-02-2001 28-02-2001