



(88) Date of publication of the international search report:
29 August 2002

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.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/26303

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L27/26

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

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)

PAJ, WPI Data, EPO-Internal, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 479 447 A (CHOW, CIOFFI) 26 December 1995 (1995-12-26) column 11, line 20 - line 29 column 11, line 40 - line 41 ----	1-4, 43, 44
X	US 5 400 322 A (HUNT, CHOW) 21 March 1995 (1995-03-21) column 3, line 29 - line 43 column 6, line 9 - line 14 column 8, line 14 - line 25 column 9, line 18 - line 22 ----	1-4, 43, 44
X	US 5 521 906 A (GRUBE ET AL.) 28 May 1996 (1996-05-28) column 1, line 51 - line 55 column 2, line 4 - line 9 column 3, line 7 - line 11 column 4, line 32 - line 36 ----- -/--	1-4, 43, 44

☒ 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.
- *Z* document member of the same patent family

Date of the actual completion of the international search

20 June 2002

Date of mailing of the international search report

28/06/2002

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 01/26303

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 736 229 A (SAMSUNG) 3 January 1997 (1997-01-03) page 3, line 25 - line 26 figure 2 -----	1-4, 43, 44
X	EP 0 918 422 A (MOTOROLA) 26 May 1999 (1999-05-26) column 2, line 29 - line 36 column 4, line 1 - line 15 column 5, line 2 - line 4 column 6, line 35 - line 37 column 6, line 43 - line 46 -----	1-4, 43, 45

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/26303

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.: 5-42, 45-50
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:
see FURTHER INFORMATION sheet PCT/ISA/210
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.:

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

Continuation of Box I.2

Claims Nos.: 5-42, 45-50

In view of the large number, and also of the wording, of the claims, it is difficult, if not impossible, to determine the subject matter for which protection is sought. Thus, the application fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.1(a) PCT). The lack of compliance is such that a meaningful search is not possible. Consequently, the search has been carried out for those parts of the application which do appear to be clear (and concise), namely claims 1-4 and 43-44.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 01/26303

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5479447	A	26-12-1995	NONE	
US 5400322	A	21-03-1995	NONE	
US 5521906	A	28-05-1996	NONE	
FR 2736229	A	03-01-1997	FR 2736229 A1 GB 2303032 A ,B IL 118723 A JP 2891673 B2 JP 9051328 A US 5903608 A	03-01-1997 05-02-1997 28-10-1999 17-05-1999 18-02-1997 11-05-1999
EP 0918422	A	26-05-1999	US 6122247 A EP 0918422 A2	19-09-2000 26-05-1999