



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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.

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

18 March 2004

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/21284

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G03B21/16

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 G03B H02J H02H

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.
Y	PATENT ABSTRACTS OF JAPAN vol. 0133, no. 66 (E-806), 15 August 1989 (1989-08-15) & JP 1 123419 A (NEC CORP), 16 May 1989 (1989-05-16) abstract	1-3, 6-9, 13-17, 19-21
Y	US 5 619 076 A (LAYDEN DAVID L ET AL) 8 April 1997 (1997-04-08) column 4, line 56 - column 5, line 22; figure 1	1-3, 6-9, 13-17, 19-21
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 12, 31 October 1998 (1998-10-31) & JP 10 197952 A (MUSASHI SEIMITSU IND CO LTD), 31 July 1998 (1998-07-31) abstract	1

☐ 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

15 January 2004

Date of mailing of the international search report

23/01/2004

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

Salm, R

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/21284

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 1123419	A	16-05-1989	JP 1812089 C	27-12-1993
			JP 5020890 B	22-03-1993
US 5619076	A	08-04-1997	NONE	
JP 10197952	A	31-07-1998	NONE	