

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 January 2003 (09.01.2003)

PCT

(10) International Publication Number
WO 2003/003258 A3

(51) International Patent Classification⁷: **G06F 17/50**

(21) International Application Number:
PCT/IB2002/002437

(22) International Filing Date: 20 June 2002 (20.06.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/897,817 29 June 2001 (29.06.2001) US

(71) Applicant: **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor: **BUCHANAN, Brent**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agents: **DUIJVESTIJN, Adrianus, J.** et al.; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(81) Designated States (*national*): JP, KR.

(84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

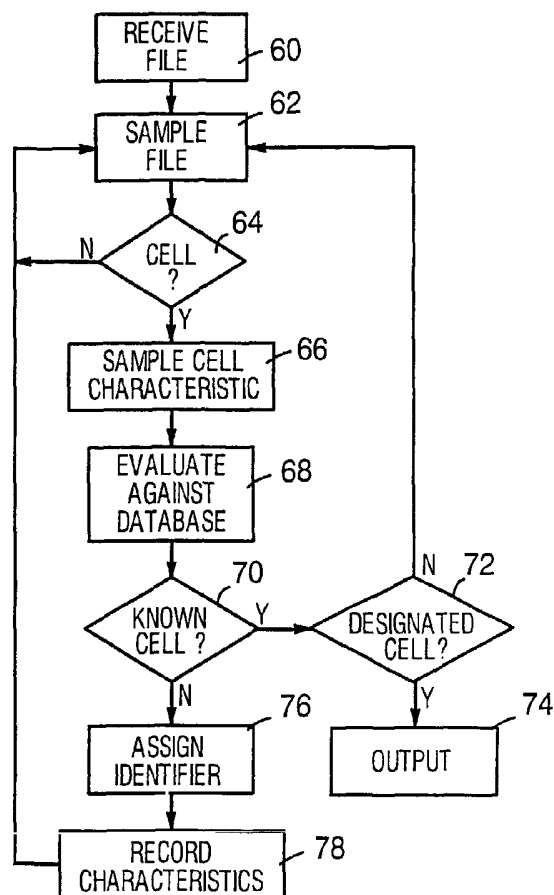
Published:

- 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

(88) Date of publication of the international search report:
31 December 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: **I.C. CELL AND LIBRARY IDENTIFICATION**



(57) **Abstract:** Apparatus, method and program product for evaluating design code of an integrated circuit. A program assigns an identifier to a cell based upon a cell characteristic. The program catalogs the identifier in a database configured to store and recall the identifier and characteristic along with additional properties that pertain to the cell. The program may associate the identifier or characteristic with a cell embedded in the design code.

WO 2003/003258 A3

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/___ 02/02437

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F17/50

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 G06F

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, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 5 764 525 A (GINETTI ARNOLD ET AL) 9 June 1998 (1998-06-09) column 1, line 14 - line 18 column 3, line 10 - line 24 column 5, line 48 - line 60 column 6, line 51 - line 55 column 7, line 1 - line 4 column 9, line 61 - column 10, line 10 column 12, line 21 - line 60 column 13, line 14 - line 17 column 14, line 5 - line 11 column 15, line 1 - line 5 figures 2,6,10 --- -/--	1-4,6,7, 10-12 5,8

☒ 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

28 October 2003

Date of mailing of the international search report

03/11/2003

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

Radev, B

INTERNATIONAL SEARCH REPORT

International Application No

PCT/ 02/02437

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 6 012 833 A (YOSHIKAWA SATORU) 11 January 2000 (2000-01-11)	9
Y	column 2, line 20 - line 35 column 4, line 5 - line 42 column 8, line 1 - line 32 column 9, line 34 - line 46 figures 2,8,14	5,8
A	US 4 651 284 A (HARUNA KOICHI ET AL) 17 March 1987 (1987-03-17)	
A	US 6 115 546 A (CHEVALLIER CHRISTOPHE J ET AL) 5 September 2000 (2000-09-05)	
A	KOSTELIJK T ET AL: "AUTOMATIC VERIFICATION OF LIBRARY-BASED IC DESIGNS" IEEE JOURNAL OF SOLID-STATE CIRCUITS, IEEE INC. NEW YORK, US, vol. 26, no. 3, 1 March 1991 (1991-03-01), pages 394-402, XP000222618 ISSN: 0018-9200	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/ 02/02437

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5764525	A	09-06-1998	US 5426591 A	20-06-1995
US 6012833	A	11-01-2000	JP 10162040 A	19-06-1998
			JP 3313298 B2	12-08-2002
			JP 10241571 A	11-09-1998
			DE 69718134 D1	06-02-2003
			EP 0845810 A1	03-06-1998
			US 6296539 B1	02-10-2001
			US 6344713 B1	05-02-2002
			US 2002017853 A1	14-02-2002
US 4651284	A	17-03-1987	JP 61034671 A	18-02-1986
			JP 1842615 C	12-05-1994
			JP 5050026 B	27-07-1993
			JP 61034672 A	18-02-1986
			JP 1842616 C	12-05-1994
			JP 5050027 B	27-07-1993
			JP 61034673 A	18-02-1986
			JP 1842617 C	12-05-1994
			JP 5052544 B	05-08-1993
			JP 61034674 A	18-02-1986
			JP 1893550 C	26-12-1994
			JP 6023988 B	30-03-1994
			JP 61131068 A	18-06-1986
			JP 61045329 A	05-03-1986
			JP 1886014 C	22-11-1994
			JP 6007387 B	26-01-1994
			JP 61045364 A	05-03-1986
			DE 3580946 D1	31-01-1991
			EP 0169576 A2	29-01-1986
US 6115546	A	05-09-2000	US 5787006 A	28-07-1998