

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 February 2006 (23.02.2006)

PCT

(10) International Publication Number
WO 2006/020895 A3

(51) International Patent Classification:

G06F 17/50 (2006.01) G06F 9/44 (2006.01)
G06F 9/455 (2006.01)

(21) International Application Number:

PCT/US2005/028791

(22) International Filing Date: 12 August 2005 (12.08.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/601,303 13 August 2004 (13.08.2004) US
11/201,627 10 August 2005 (10.08.2005) US

(71) Applicant (for all designated States except US): **CY-
PRESS SEMICONDUCTOR CORPORATION**
[US/US]; 3901 North First Street, San Jose, CA
95134-1599 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **OGAMI, Kenneth**
[US/US]; 14232 93rd Avenue NE, Bothell, WA 98011

(US). **ANDERSON, Douglas** [US/US]; 18427 Olympic
View Drive NE, Edmonds, WA 98020 (US). **PEARSON,
Jon** [US/US]; 13513 42nd Avenue West, Mukilteo, WA
98275 (US).

(74) Agents: **MALLIE, Michael, J.** et al.; Blakely, Sokoloff,
Taylor & Zafman LLP, 12400 Wilshire Boulevard, 7th
Floor, Los Angeles, CA 90025 (US).

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

[Continued on next page]

(54) Title: A METHOD AND AN APPARATUS TO DESIGN A PROCESSING SYSTEM USING A GRAPHICAL USER INTERFACE

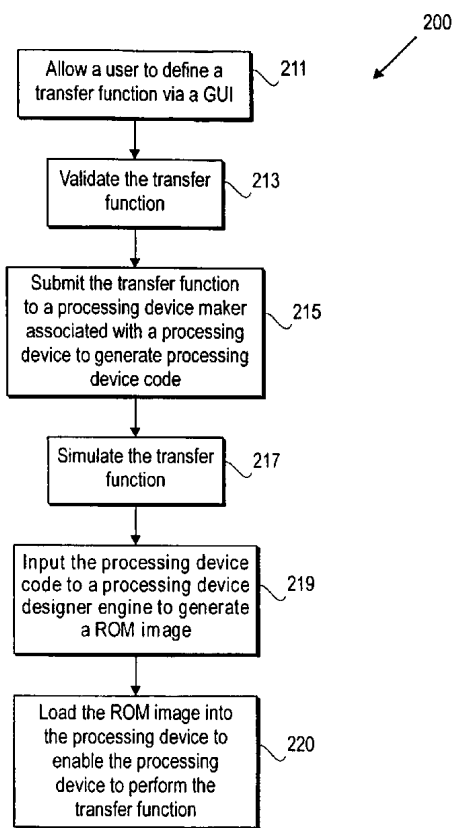


FIG. 2A

(57) Abstract: A method and an apparatus to design a processing system using a graphical user interface (GUI) are described. The method includes allowing a user to define a transfer function via a GUI. The method may further include submitting the transfer function to a processing device maker associated with a processing device. The processing device maker may generate processing device code without intervention by the user. Furthermore, the processing device may execute the processing device code to perform the transfer function defined.

WO 2006/020895 A3



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, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

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

16 April 2009

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/28791

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: G06F 17/50(2006.01),9/455(2006.01),9/44(2006.01)

USPC: 716/1,11;717/107
 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)
 U.S. : 716/1,11,16;717/106,107,110,136;713/1,100

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 practicable, search terms used)
 USPAT, US-PGPUB, USOCR, FPRS, EPO, JPO, DERWENT, IBM_TDB, IEEE Xplore, ACM Digital Library

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	NOUTA, R., LINCKLAEN ARRIENS, H.J. 'Design and FPGA-implementation of wave digital bandpass filters with arbitrary amplitude transfer characteristics.' In: ProRISC 2003. Veldhoven: STW, 2003, p.127-131	1, 2, 5, 6, 8-12, 14-16, 19, 20 ----- 3-4, 7, 13, 17, 18 3-4, 13, 17, 18
Y	US 20030028772 A1 (ALLISON, M. S. et al.) February 6, 2003, paragraphs [0022], [0023]	3-4, 13, 17, 18
Y	US 6107769 A (SAYLOR, M. J.) August 22, 2000, column 2, lines 33 to 43	7
A, P	US 20040221238 A1 (CIFRA, C. et al.) November 4, 2004	
A, E	US 7086014 B1 (BARTZ, M. et al.) August 1, 2006	
A, E	US 7150002 B1 (ANDERSON, D. et al.) December 12, 2006	

Further documents are listed in the continuation of Box C.

See patent family annex.

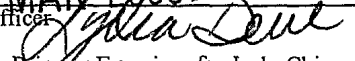
* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"&"	document member of the same patent family
"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		

Date of the actual completion of the international search
 21 November 2007 (21.11.2007)

Date of mailing of the international search report

31 MAR 2008

Name and mailing address of the ISA/US
 Mail Stop PCT, Attn: ISA/US
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 Facsimile No. (571) 273-3201

Authorized officer

 /Vuthe Siek/, Primary Examiner for Jack Chiang
 Telephone No. (571) 272-1950