Form PTO-1595 (Rev. 03-09) OMB No. 0651-0027 (exp. 03/31/2009) U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

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WILLIAM PIERCE EVANS	Name: CADENCE DESIGN SYSTEMS, INC.			
	Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes X No. 3. Nature of conveyance/Execution Date(s): Execution Date(s) 1/4/2010 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other_SEE ATTACHED 4. Application or patent number(s): This A. Patent Application No.(s)	Street Address: _2655 SEELY AVENUE City: _SAN JOSE State: _CALIFORNIA Country: _usa			
Additional numbers at 5. Name and address to whom correspondence concerning document should be mailed:	tached? Yes No 6. Total number of applications and patents involved: 1			
Name: Jun Y. Lee				
Internal Address: Rosepherg, Klein & Lee	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00			
Street Address: 3458 Ellicott Center Drive, Suite 101	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)			
City: Ellicott City	8. Payment Information			
State: MD Zip: 21043	,			
Phone Number: 410-465-6678	Deposit Account Number18-2011			
Fax Number: <u>410-461-3067</u>				
Email Address:	Authorized User Name			
9. Signature: Signature Jun Y. Lee Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:			

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PATENT REEL: 023742 FRAME: 0533

Attachment for Recordation Form Cover Sheet

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MR3529-46

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WILLIAM PIERCE EVANS	Name: CADENCE DESIGN, INC.			
	Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes X No.				
3. Nature of conveyance/Execution Date(s): Execution Date(s)_12/16/2009	Street Address: 2655 SEELY AVENUE			
Assignment Merger				
Security Agreement Change of Name	City: SAN JOSE			
Joint Research Agreement	State: CALIFORNIA			
Government Interest Assignment				
Executive Order 9424, Confirmatory License	Country: USA Zip: 95134			
Other	Additional name(s) & address(es) attached? Yes X No			
A. Patent Application No.(s)	document is being filed together with a new application. B. Patent No.(s) B. Patent No.(s)			
5. Name and address to whom correspondence	6. Total number of applications and patents			
concerning document should be mailed:	involved:			
Name: Jun Y, Lee	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00			
Internal Address: Rosenberg, Klein & Lee				
Street Address: 3458 Ellicott Center Drive, Suite 101	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)			
City: Ellicott City	8. Payment Information			
State: MD Zip: 21043				
Phone Number: 410-465-6678	Deposit Account Number18-2011			
Fax Number: 410-461-3067				
Email Address:	Authorized User Name			
9. Signature:				
Jun Y. Lee Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:			

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MR3529-46

	ASSIGNMENT D		
This Assignment SYSTEM	agreement is applicable to an invention entitled	(Invention Tibe) _	CMOS PHASE INTERPOLATION
	HTS referred to in this agreement ere:		
(Check one) 🗀 a Pat	tent Apolication for this invention, executed by the	a ASSIGNOR(a) o	Oncurrently with this Assignment
Bas ∪.s.	Patent Application Serial No. <u>12/640,461</u>		filed 12/17/2009
L 0.8.	Patent No.	issued	
The PATENT RIQ	3HTS assigned under INS agreement are:		
	Patent rights only		
⊠ world	lwide Patent rights. In this case, the assignee of J.S. Patent Application Identified above,	iall have the right	to claim the benefit of the filing date of
The ASSIGNOR/	s) referred to in this surgement is (or ore):		
(Full name of first assignor) William Pierce Evans		
(Address) 9 Frank	lin Tree Ct.		
Catonav	ville. Marvland 21228		
(Full name of second assig	jnor, ri any)		
(Address)			
(F- () () 1 1 1 1 1 1 1 1 1			
(Puli name of mire assigne (Address)	or, if arry)		
(2001085)			
(Full name of fourth assler	or. if any)		
(Address)			
The First ASSIGN	YEE referred to in this agreement is:		
(Name of Assignee) <u>Ud</u>	dence Design Systems, Inc.		
(Address of Assignes)	655 Seely Avenue an Jose, California 95134		
P., SPA becased The Second ASS	iGNEE referred to in this agreement is:		
(Name of Assignes)	TOTAL COUNTY OF THIS AGREEMENT IS.		
(Address of Assignee)			
(* 100°000 0° / 100°00 10°00 <u> </u>		,	
The First ASSIG	NEE is:		
(Check one)	⊒ an Individual		
Ţ	□ a partnership		
	a Corporation of Delaware		·
		(State or Country)
The Second ASS		•	
, , -	an Individual	•	
	a partnership		
L	a Corporation of	(State or Country	Λ
		(State or Country	7)
C	🗓 Additional assignees are being named on se	parately numbered	i sheets attached hereto.
_			
The ASSIGNOR(S), in consideration of \$1.00 paid by each ASSIG	NEE, and other g	ood and valuable consideration, receipt of
which is acknowledged, ha	ive and do hereby assign the following to each A	SSIGNEE; their si	occessors and assigns:
	and exclusive right to the invention;		
au edna	at interest in and to the antire right, title and interes	est in and to the P	ATENT RIGHTS in the Invention, all
Continu	ations, continuations-in-part, divisionals, re-issue	s, and re-examina	tion patents and patent applications; and
ine rign	t to claim priority under 35 U.S.C. 119, based on	any earlier foreign	applications for this invention.
A\$ to all U.S. Pat	ent Applications assigned under this Agreement,	the ASSIGNOR(S) hereby authorize(s) and requests the
Director of Patents and 118	ademarks to Issue all Letters Patent to the ASSIG	inte(s) as the AS	SIGNEE(s) of an equal interest in the
Fusher the ASSI	st, for the sole use and enjoyment of said ASSIG	NEE(8), INGIT SUCC	essors and essigne.
ASSIGNOR/a) respections	GNOR(e) agree(s) to communicate to said ASSII said invention, and teatify in any legal proceeding	SINEE(B), OF MAIR I	opresentatives, any facts known to the
continuation-in-bart, substit	tute, renewal, reexamination and retscue application	ione evecule all r	epere, execute an avisional, communicon,
any and all Letters Patent	to be issued to said ASSIGNEE(s), make all right	ful naths and new	erally de avandhine nacacean or decir.
able to aid said ASSIGNEE	(s), their successors and assigns, to obtain and	enforce proper pro	steption for said invention
9) M (i)	4-J	1	1
La Juliam V	wan	1/4	f. 2016
(Signature o	f sole or first assignor) William Fierce	Evans '	(Date)
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	Lancard Control of the Control of th		
(Signature o	f second assignor, if any)		(Date)
/P:	f third poplares if card		In
(aignature o	f third assignor, if any)		(Date)
(Signature o	f tourth essignor, if any)		(Date)
(Oignachia o			(Date)

MR3529-46

ASSIGNMENT DEED
This Assignment agreement is applicable to an invention entitled (invention Title) CMOS PHASE INTERPOLATION SYSTEM
The PATENT RIGHTS referred to in this agreement are: (Check one) a Patent Application for this Invention, executed by the ASSIGNOR(s) concurrently with this Assignment U.S. Patent Application Serial No. 12/640,461 , filed 12/17/2009 U.S. Patent No
((Character) C.S. Larate (Buff Oth)
worldwide Patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. Patent Application Identified above.
The ASSIGNOR(s) referred to in this agreement is (or are);
(Full name of first assignor) William Pierce Evans (Address) 9 Franklin Tree Ct. Catonsville, Maryland 21228 (Full name of second assignor, if any)
(Address)
(Full name of tourth assignor, if any)
The First ASSIGNEE referred to in this agreement is: (Name of Assignee)
San Jose, California 95134
(Name of Assignee)(Address of Assignee)
The First ASSIGNEE is:
(Check one) □ an Individual □ a partnership
a Corporation of <u>Delaware</u> (State or Country)
The Second ASSIGNEE is:
a partnership
a Corporation of
•
The ASSIGNOR(S), in consideration of \$1.00 paid by each ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, have and do hereby assign the following to each ASSIGNEE; their successors and assigns: the full and exclusive right to the invention;
en equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisionals, re-issues, and re-examination patents and patent applications; and
the right to claim priority under 35 U.S.C. 119, based on any earlier foreign applications for this invention. As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and requests the
Ulfector of Patents and Trecemarks to issue all Letters Patent to the ASSIGNEF(s) as the ASSIGNEF(s) of an Asset interest in the
Further, the ASSIGNOR(s) agree(s) to communicate to said ASSIGNEE(s), their successors and satigns.
ASSIGNOR(s) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause
MINY BITCH BIT LETTERS FERBOLLIO DE ISSUEC LO SAID ASSIGNEE(B). MAKE All Monthly Althe and concernity do comprehens recent and design
9 1/1 (C) I their successors and assigns, to obtain and enforce proper protection for said invention.
(Signature of sole or first assignor) William Pierce Evans (Date)
(Signature of sole of first assignor) William Pierce Evans (Date)
(Signature of second assignor, if any) (Date)
(Signature of third assignor, if any) (Date)
(Signature of fourth assignor, if any) (Date)

PATENT

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