C1.15.04 RI 01-15	9-2004 ^{3ET}			
To the Honorable commissioner of Pa				
Desse record the attached original c				
1. Name of conveying party(ies): 1027	23971			
James J. McDonald, II.				
Ronald B. Hulfachor	Name: Fairchild Semiconductor Corporation			
Jim Wunderlich				
Additional name(s) of conveying	Street Address: 82 Running Hill Road			
party(ies) attached?YesX No				
	City: South Portland			
3. Nature of conveyance:	State: Maine Zip: 04106			
X Assignment				
Merger				
Security Agreement				
Change of Name				
Other	Additional name(s) & address(es)			
	Attached?Yes X_No			
Execution Date: April 8, 2004				
4. Application number(s) or patent number(s):	Application, the execution B. Patent No. (s) B. Yes X No			
4. Application number(s) of patent number(s).				
If this document is being filed to gother with a new o	application, the execution			
If this document is being filed together with a new a data of the application is:	application, the execution			
date of the application is:	S v B			
A Detent Annihosticn NIC (a)	B Patent No (s) $\bigcirc 3$			
A. Patent Application No.(s) 10/412, 448	B. Patent No. (s) $\begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array}$			
10/412,440	B. Patent No. (s)			
Additional numbers attached	$\frac{1}{2} \qquad \qquad$			
5. Name and address of party to whom	6. Total number of applications and			
correspondence concerning document should be	patents involved:			
mailed:				
	7. Total fee (37 CFR 3.41)			
Name: Edwin H. Paul	X Enclosed			
Street Address: Cesari and McKenna, LLP	Authorized to be charged to deposit Account			
88 Black Falcon Avenue	8. Deposit account no. 03-1237 (Attach duplicate			
City: Boston State: MA Zip: 02210	copy of this page if paying by deposit account)			
DO NOT U	SE THIS SPACE			
9. Statement and signature.				
To the best of my knowledge and belief, the foregoing informa	tion is true and correct and any attached copy is a true			
copy of the original document.				
Edwin H. Paul, Reg. No. 31,405	11/2 A Designed and			
Name of Person Signing Signature	A. P. Mul April 13, 2004			
Signatu	ré Date Total number of pages comprising cover sheet. 1			
/16/2004 ECDDPER 00000038 10412448	Total number of pages comprising cover sheet: 1			
40.00 GP				

PATENT REEL: 015208 FRAME: 0655

ASSIGNMENT

Whereas We, James J. McDonald, II., whose residence address is 61 Barstow Road, Gorham, ME 04038, Ronald B. Hulfachor, whose residence address is 112 Oakhurst Road, Cape Elizabeth, ME 04107, and Jim Wunderlich, whose residence address is 11 Overlook Lane, Cape Elizabeth, ME 04107, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled PLL FOR CLOCK RECOVERY WITH INITIALIZATION SEQUENCE, identified by Cesari and McKenna File No. 112055-0057U, which application was executed by us on $\underline{Ap_{n/1}}$; and

Whereas Fairchild Semiconductor Corporation, whose address is 82 Running Hill Road, South Portland, ME 04106, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

Now, Therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer, and convey to Assignee our entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents

including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment as an instrument under seal on the dates indicated next to our names.

<u>April | 8 | 03</u> Date

James J. MeDonald, II., Inventor

Date Ronald B. Hulfachor, Inventor

04/08/03 Date

ch, Inventor

Patent and Trademark Office/SB/17 (10-03) Approved for use through 04/30/2003. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Under the Paperwork Reduction Act of 1	95. no persons are required to respond to a col	llection of information unless	it displays a valid OMB of	control number

Deposit Account Order Deposit 03-1237 Account Number Deposit Cesari and McKenna, LLP Account Name Decosit Cesari and McKenna, LLP Name Charge any deficiency or Charge fee indicated below Accredit any overpayments Charge fee indicated below, except for the filing fee to the above- entified deposit account. FEE CALCULATION Fee Fee Fee Fee Fee Fee Pee Fee Pee Fee F	3. A Large Fee Code 1051 1052 1053 1812 1053 1812 1053 1812 1251 1251 1254 1255 1254 1255 1401 1402 1403 1451 1451	Filing First I Exam Grouf Attorr DDIT Entit Fee (\$) 130 50 130 2,520 920 1,840 110 410 930 1,450 1,970 320	Date Name iner I D Art D Art Iey D IONA ySma Fee Code 2051 2052 1053 1812 1805 2251 2252 2253 2254 2255 2254 2255 22401 2402	ed Inve Name Unit E CA E CA E CA I FEI (\$) 65 25 130 2,520 920* 1,840*1	April 11, 2003 entor James J. McDonald, II. et al. Not yet assigned 2817 No. 112055-00570 LCULATION (continued) ES Y Fee Description Surcharge - late filing fee or oath Surcharge - late provisional filing fee or cover sheet Non-English Specification For filing a request for <i>ex parte</i> reexamination Requesting publication of SIR prior to Examiner action Extension for reply within first month Extension for reply within fourth month Extension for reply within furth month Extension fo
Effective 01/01/2003. Patent fees are subject to annual revision. Applicant Claims Small Entity Status. See 37 CFR 1.27 OTAL AMOUNT OF PAYMENT (\$) 40 METHOD OF PAYMENT (check all that apply) Check Credit Card Money Other None Deposit Credit Card Money Other None Deposit Account 03-1237 None Number Deposit Cesari and McKenna, ILP Name Account Charge any deficiency or Charge fee indicated below Credit any overpayments Charge fee indicated below, except for the filing fee to the above- entified deposit account. FEE CALCULATION BASIC FILING FEE Fee Fee Fee Fee Fee Fee Fee Fee Paid reg Entity/Small Entity Fee	3. A Large Fee Code 1051 1052 1053 1812 1804 1805 1251 1252 1253 1254 1255 1401 1402 1403 1451	First I Exam Group Attorr DDIT e Entit Fee (\$) 130 2,520 920 1,840 110 410 930 1,450 1,970 320 320	Name iner I Art i PArt i PE IONA FEE Code 2051 2052 1805 1812 1805 2251 2252 2253 2254 2255 2401 2402	ed Inve Name Unit Ocket E CA E CA E CA E CA E CA E CA E CA E CA	entor James J. McDonald, II. et al. Not yet assigned 2817 No. 112055-00570 LCULATION (continued) ES ES
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$a_1 Claims = 1 - 20^{-1} = 1 - 1 + 1 = 1 - 1$	1460		1460		Petitions to the Commissioner
	1807		1807		Processing fee under 37 CFR 1.17(q)
	1806		1806	180	Submission of Information Disclosure Stmt
	8021	40	8021	40	Recording each patent assignment per 40 property (times number of properties)
	1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))
Ode (\$) 02 18 2202 9 Claims in excess of 20	1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))
03 280 2203 140 Multiple dependent claim if not paid	1801		2801		Request for Continued Examination (RCE)
04 84 2204 42 **Reissue independent claims over	1802	900	1802	900	Request for expedited examination of a design application
		r fee (s r fee (s			
SUBTOTAL (2) (\$) 0					Fee Paid SUBTOTAL (3) (\$) 40
SUBMITTED BY					Complete (if applicable)
Name (Print/Type) Edwin H. Paul () Registration		3	1,40	5	Telephone (617) 951-2500
Signature	gent)				
NING: Information on this form may become public. Credit card information shou	ild not	be inc	uded o	n this for	Date April 13, 2004
ction of information is required by 37 CFR 1.17 and 1.27. The information is required to tiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to ta O. Time will vary depending upon the individual case. Any comments on the amount of the individual case.	o obtai ke 12 i	n or reta minutes	to com	nefit by th	he public which is to file (and by the USPTO to processs) an application of the completed application o

REEL: 015208 FRAME: 0658

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re The Application of:)	
James J. McDonald, II. et al.)	
)	
Serial No.: 10/412,448)	Examiner: Not yet assigned
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Filed: April 11, 2003	Ś	
I , to the	Ś	Art Unit: 2817
For: PLL FOR CLOCK RECOVERY	Ś	
WITH INITIALIZATION SE-	Ś	
QUENCE	Ś	
	Ś	
	,	Cesari and McKenna, LLP
		88 Black Falcon Avenue
		Boston, MA 02210
		April 13, 2004
		April 15, 2004

CERTIFICATE OF MAILING

I hereby certify that the following paper is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on April 13, 2004.

nerr Jeneen M. Adamo

X Fee Transmittal Letter

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