PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2650623

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEY	ANCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DATA					
			Execution Date		
MARC HARTRANFT			10/08/2002		
SYED TARIQ SHAFAAT 09/27/2002			09/27/2002		
RECEIVING PARTY D	ΑΤΑ				
Name:	CYPRESS SEM	IICONDUCTOR CORPORATION			
Street Address:	3939 NORTH F	IRST STREET			
City:	SAN JOSE				
State/Country:					
Postal Code:	95134				
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PROPERTY NUMBER	S Total: 1				
Property Type				L.	
		Number		967	
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Total Attachments: 5
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PATENT REEL: 031792 FRAME: 0988

ASSIGNMENT

Assignor:	Brenor Brophy
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Assignee: Address: Cypress Semiconductor Corp. 3939 N. First Street San Jose, California 95134

Title of Invention:

ELECTRO-OPTICAL APPARATUS

U.S. Patent Application:

Application Serial No.: 10/268,200

Filing Date: October 9, 2002

For good and valuable consideration, the receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the full and exclusive right, title and interest in and to the above-identified invention, patent application and patent rights throughout the world, including foreign patent priority rights; said invention, application and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by Assignee, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and covenant that Assignor has full right so to do, and agree that Assignor will communicate to Assignee,

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or its successors and assigns, any facts known to Assignor respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Assignee, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

In the event that the patent application filing date or serial number is not known at the time this document is executed, Assignor hereby grants permission to the attorneys of record in the patent application to fill in the filing date and/or serial number above, and to record this assignment after such information is added.

	Executed at	vinny www.wichning.Teppersonanana.assessmenteration	, this day of
	2003.	Bala	1. 220/03
		Brenor Brophy Assignor	
STATE OF		_) 	
COUNTY OF) \$5.)	

Before me this _____ day of _____, 2003, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Notary Public for My commission expires:

[SEAL]

2

PATENT REEL: 031792 FRAME: 0989

Executed at Atlanta, G	A, this <u>1</u> day of
February. 2003.	Jeff Hall Hall
	Assignor
STATE OF	
COUNTY OF) ss.)
	$\frac{1}{1000}$ February, 2003, personally appeared

the above-named individual, to me known to be the person/who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

3

Notary Public for My commission expires:

[SEAL]

PATENT REEL: 031792 FRAME: 0990

, this 874 day of Executed at 9CT.__, 2002. Marc Hartranft Assignor STATE OF) \$\$. COUNTY OF _____, 2002, personally appeared Before me this _____ day of ____ the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed. Notary Public for My commission expires: [SEAL] Executed at ______, this _____ day of , 2002. Syed Tariq Shafaat Assignor STATE OF) 88. COUNTY OF Before me this _____ day of _____, 2002, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed. Notary Public for My commission expires: [SEAL]

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PATENT REEL: 031792 FRAME: 0991

Executed at	, this	day of
, 2002.		
	Marc Hartranft	
	Assignor	
STATE OF)	
20 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 &) ss.	
COUNTY OF)	
Bofora no this day (ŕ	2002 nersonally anneared
Before me this day of the above-named individual, to me known	to be the person who	is described in and who
executed the foregoing assignment instrum same of his own free will for the purpose t	ient and acknowledge	d to me that he executed the
	Notary Public for	
	My commission en	
[SEAL]		
Executed at Freeland	<u>AShington</u> this_	<u>27</u> day of
September 2002.	Children	ntwit
	Syed Tariq Shafaa Assignor	at [
STATE OF Washington		
•x) ss.	
COUNTY OF Island)	
the above-named individual, to me known executed the foregoing assignment instrum same of his own free will for the purpose	to be the person when nent and acknowledge	
The second se	Juon &	Sneed
Notary Public State of Washington KAREN E. MEAD	Notary Public for	xpires: 4-22- 25
My Appointment Expires Apr 22, 2005	್ಷ. ಸ್ಕ್ರೀ ಸ್ ಇಂಡಿ ಕಾರ್ಯಿನಿ ನೆಗೆ ದಿನ್ ನಿಂದಿ ನಿರ್ದೇಶನ ಹೆಚ್ಚಿ ನಿರ್ದ	n general and a second second
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RECORDED: 12/16/2013