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	e (line 1)	CHUAN FANG LIU	٠.	Mark if additional	names of conveying	parties attached Execution Cate Month Day Year	
Name	ا c (line 2) آ	CHORN PANG EIU				10/20/2000	
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Name	(line 1)	CHUAN FANG LIU	g Ping N. Ro	X Man	rk if additional name	If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a	
Name Name	(line 1) [(line 2) [CHUAN FANG LIU	g PingN. Ro		rk if additional name	If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached.	
Name Name	(line 2) [(line 2] [(line 2] [CHUAN FANG LIU	g Ping N. Ro		rk if additional name	If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from	
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Correspond	ent Name and Address	Area Code and Telephone Number	410-465-6678
Name	Morton J. Rosenber	9	
Address (line 1)	Rosenberg Klein &	Lea	
Address (line 2)	3444 Ellicott Cent	er Drive. Suite 105	
Address (line 1)	Ellicott City, MD	21043	
Address (line 4)			
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Pate	ent Application Number(s)	Patent	Number(s)
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Horton	J. Rosenberg	Signature	Date
	of Person Signing	Signature C	

PATENT REEL: 011380 FRAME: 0120 FORM PTO-1619C Expres 08/30/99 OMB 0551-0027

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U.S. Department of Commerce Patent and Trademark Office DATENT

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Name (line 2)		States, an appointment of a domestic representative
Address (line 1)	No. 10-40. Chang Ping N. Rd., Tou Liu City	is attached. (Designation must be a separate document from
Address (line 2)		Assignment.)
Address (line 3)	Yunlin Hsiang Taiwan, R.O.C. City State/Country Zig	Code
Name (line 1)	MEICHUAN WANG	If document to be recorded is an assignment and the receiving party is not
Name (line 2)		domiciled in the United States, an appointment of a domestic representative is
Address (line 1)	No. 10-40, Chang Ping N. Rd., Tou Liu City	attached. (Designation must be a separate document from Assignment.)
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Name (line 1)	XIUJUN LIU	is an assignment and the receiving party is not
Name (line 2)		domiciled in the United States, an appointment
•		of a domestic representative is attached. (Designation
Address (ilne 1)	No. 62, Yung Hsing Rd., Tou Liu City	must be a separate document from
Address (line 2)		Assignment.)
	Yunlin Hsiang Taiwan, R.O.C.	
Address (line 3)	Yunlin Hsiang Taiwan, R.O.C. City State/Country Zip Code	
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REEL: 011380 FRAME: 0122

ASSIGNMENT DEED

This Assignment agreement is applicable to an invention entitled (in	nvention
itle) A METHOD FOR DISPLAYING REASONS OF COMPUTER HARDWAKE FAULTS BY LIGHT EMITTING DIODES	
The PATENT RIGHTS referred to in this agreement are:	
The FAIRNI RIGHTS referred to in this agreement are: Check one) M a Patent Application for this invention, executed by the AS:	GEOMOD (~)
	SIGNOR (S)
concurrently with this Assignment	
U.S. Patent Application Serial No, filed	
U.S. Patent No, issued, issued	
Check One) 🛚 U.S. Patent rights only	harra tha
ight to claim the benefit of the filing date of any U.S. Patent Applicat	
dentified above.	1011
The ASSIGNOR(S) referred to in this agreement is (or are):	
Full name of sole or first inventor) CHUAN FANG LIU (FAMILY NAME: LIU)	
Address) NO.10-40, CHANG PING N. RD., TOU LIU CITY, YUNLIN HSIANG, TAIWAN,	R.O.C.
Full name of second joint inventor, if any)	
Address)	
Full name of third joint inventor, if any)	
Address)	
	
Full name of fourth joint inventor, if any	
Address)	
Full name of fifth joint inventor, if any)	
Address)	
Full name of sixth joint inventor, if any)	
Address)	
Full name of seventh joint inventor, if any)	
Address)	
(Full name of eighth joint inventor, if any)	
Address)	
this agreement is:	
The First ASSIGNEE referred to in this agreement is:	
Name of Assignee CHUAN FANG LIU (FAMILY NAME: LIU)	IANG,
Address of Assignee) NO.10-40, CHANG PING N. RD., 100 HIS SEEL,	
TAIWAN, R.O.C.	
The Second ASSIGNEE referred to in this agreement is:	
The Second ASSIGNEE relefted to In State Will	
(Name of Assignee) GUILAN WU (FAMILY NAME: WU)	SIANG,
(Name of Assignee) GUILAN WU (FAMILY NAME: WU) (Address of Assignee) NO.10-40, CHANG PING N. RD., TOU LIU CITY, YUNLIN HE	
TAIWAN, R.O.C.	
referred to in this agreement is:	
The Third ASSIGNED Telegrated (Name of Assignee) MEICHUAN WANG (FAMILY NAME: WANG) (Name of Assignee) MEICHUAN WANG PING N. RD., TOU LIU CITY, YUNLIN H	CTANC
(Name of Assignee) MEICHOAN WANG (THANG PING N. RD., TOU LIU CITY, YUNLIN H	SIANG,
(Name of Assignee) MEICHUAN WANG (FAMILY NAME: WANG) (Address of Assignee) NO.10-40, CHANG PING N. RD., TOU LIU CITY, YUNLIN H	
TATWAN, R.O.C.	
and account referred to in this agreement is:	
(Name of Assignee) XIUJUN LIU (FAMILY NAME: LIU) (Name of Assignee) XIUJUN LIU (FAMILY NAME: LIU) (Name of Assignee) XIUJUN LIU (FAMILY NAME: LIU)	TATWAN
(Name of Assignee) XIUJUN LIU (FAMILY NAME: LIU) (Address of Assignee) NO.62, YUNG HSING RD., TOU LIU CITY, YUNLIN HSIANCE	3 TATMAIN
(Address of Assignee) NO.02, TORO III	
The Fifth ASSIGNEE referred to in this agreement is:	
(Name of Assignee)(Address of Assignee)	
(Address of Assignment)	

PATENT REEL: 011380 FRAME: 0123

Name of Assignee) (Address of Assignee) The Seventh ASSIGNEE referred to in this agreement is: (Name of Assignee) The Eighth ASSIGNEE referred to in this agreement is: (Name of Assignee) (Address of Assignee) The First ASSIGNEE IS: (Check One)	/ Name	The Sixth A	SSIGNEE referred to :	in this agreement is:
The Seventh ASSIGNEE referred to in this agreement is: (Name of Assignee) The Eighth ASSIGNEE referred to in this agreement is: (Name of Assignee) The Eighth ASSIGNEE referred to in this agreement is: (Address of Assignee) The First ASSIGNEE IS: (Check One)	Addre	ess of Assig	nee)	
Name of Assignee) Address of Assignee) The Righth ASSIGNEE referred to in this agreement is: Name of Assignee) Address of Assignee) The First ASSIGNEE IS: (Check One)		<u> </u>		
Name of Assignee) Address of Assignee	Name Addre	of Assignee)	
(Check One)	(Name (Addre	of Assignee)	
The Second ASSIGNEE is: (Check One) an individual a partnership a Corporation of The Third Assignee is: (Check One) an individual a partnership a Corporation of The Fourth Assignee is: (Check One) an individual a partnership a Corporation of The Fifth Assignee is: (Check One) an individual a partnership a Corporation of The Sixth Assignee is: (Check One) an individual a partnership a Corporation of The Sixth Assignee is: (Check One) an individual a partnership a Corporation of The Seventh Assignee is: (Check One) an individual a partnership a Corporation of The Seventh Assignee is: (Check One) an individual a partnership a Corporation of The Seventh Assignee is: (Check One) an individual a partnership a Corporation of (State or Country) The Eighth Assignee is: (Check One) an individual a partnership a Corporation of (State or Country)				
The Second ASSIGNEE is: (Check One)				
The Third Assignee is: (Check One) Assignee is: (Check One) an individual a partnership a Corporation of (State or Country) The Fourth Assignee is: (Check One) an individual a partnership a Corporation of (State or Country) The Fifth Assignee is: (Check One) an individual a partnership a Corporation of (State or Country) The Sixth Assignee is: (Check One) an individual a partnership a Corporation of (State or Country) The Seventh Assignee is: (Check One) an individual a partnership a Corporation of (State or Country) The Seventh Assignee is: (Check One) an individual a partnership a Corporation of (State or Country) The Bighth Assignee is: (Check One) an individual a partnership a partnership a partnership a partnership			□ an individual □ a partnership	.
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(Check One)			☐ an individual ☐ a partnership	(State or Country)
(Check One)		The Sixth A	ssignee is:	
The Seventh Assignee is: (Check One) an individual a partnership a Corporation of (State or Country) (State or Country) The Righth Assignee is: (Check One) an individual a partnership		(Check One)	☐ an individual ☐ a partnership	
The Righth Assignee is: (Check One) an individual a partnership		The Seventh (Check One)	Assignee is: \[\text{an individual} \] \[\text{a partnership} \]	(State or Country)
(Check One) an individual a partnership			•	(State of comment,
		The Eighth (Check One)	□ an individual	

PATENT REEL: 011380 FRAME: 0124 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;

an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS; 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 Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(s) as the ASSIGNEE(s) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(s), their successors and assigns.

Further, the ASSIGNOR(s) agree(s) to communicate to said ASSIGNEE(s), or their representatives, any facts known to the ASSIGNOR(s) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(s), make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE(s), their successors and assigns, to obtain and enforced proper protection for said invention.

CHUAN FANG LIU (FAMILY NAME: LIU)	OCT. 20, 2000
(Signature of sole or first inventor)	(Date)
(Signature of second inventor, if any)	(Date)
(Signature of third inventor, if any)	(Date)
(Signature of fourth inventor, if any)	(Date)
(Signature of fifth inventor, if any)	(Date)
(Signature of sixth inventor, if any)	(Date)
(Signature of seventh inventor, if any)	(Date)
(Signature of eighth inventor, if any)	(Date)

PATENT REEL: 011380 FRAME: 0125

RECORDED: 10/27/2000