(33182-2030) 03-26-2008 ET U.S. DEPARTMENT OF COMMERCE FORM PTO-1595 Patent and Trademark Office (Rev. 6-93) d original documents or copy thereof. To the Honorable Commissioner 103492144 Iress of receiving party(ies) Name of conveying party(ies) Name: NanoPV Technologies Inc. Anna Selvan John Appadurai Internal Address: Street Address: 1405 Lower Ferry Road Additional name(s) of conveying party(ies) attached? ☐ Yes No Zip: 08618 City: Ewing State: NJ Nature of conveyance: ⊠ No Assignment X Security Agreement Merger Change of Name Other Execution Date: March 14, 2008 Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: March 14, 2008 B. Patent No.(s) Patent Application No.(s) Additional numbers attached?

Yes Total number of applications and Name and address of party to whom correspondence concerning document should be mailed: Gregor N. Neff, Esq. Name: Total fee (37 CFR 3.41)\$40.00 Enclosed Internal Address: Kramer Levin Naftalis & Frankel LLP Authorized to be charged to 1177 Avenue of the Americas Street Address: deposit account #50-0540 City: New York State: New York Zip: 10036 Deposit account number: 50-0540 (Attach duplicate copy of this page if paying by deposit account) Do not use this space Statement and signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. March 17, 2008 Gregor N. Neff Date Signature Name of Person Signing Total number of pages including cover sheet, attachments, and document: 4 Do not detack this portion Mail documents to be recorded with required cover (information to: Commissioner of Patents and Trademarks 5/2008 DBYRNE 00000039 500540 12077272 P.O. Box 1450 01 FC:8021 40.00 DA Alexandria, VA 22313-1450 Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503. RFCSP.P

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PATENT REEL: 020714 FRAME: 0125

KL Ref. No.: 61527-2030

Kramer Levin Naftalis & Frankel LLP File No.: 33182-2030 Serial No.: Filing Date:

ASSIGNMENT

I, Anna Selvan John Appadurai, who resides at: 122 Mountain View Road, Titusville, NJ 08560 has made certain inventions or discovering (or both) set forth in an application for Letters Patent of the United States of America entitled: TRANSPARENT CONDUCTIVE LAYER AND METHOD, which application was executed by me and NanoPV Technologies, Inc., whose address is 1405 Lower Ferry Road, Ewing, NJ 08618, and which, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or any part thereof heretofore acquired by Assignee.

Now, therefore, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservation:

- 1. Assign and convey and confirm in Assignee the 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 and Convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues 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 my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

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KLJ 2645065.1

Kramer Levin Naftalis & Frankel LLP File No.: 33182-2030 Serial No.: Filing Date:

- 3. Authorize and request the Commissioner of Patents 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 I 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 I have good right to assign the same to Assignee without encumbrance;
- Bind my heirs and legal representatives, as well as myself to do, upon Assignee's request and at its expense, but without additional consideration to me 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 me or my heirs or representatives 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 me 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 my control or in the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

The effective date of this instrument is the 14th day of Murch, 2008.

In testimony of which I have fixed my signature.

Anna Selvan John Appadurai

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Kramer Levin Naftalis & Frankel LLP File No.: 33182-2030 Serial No.: Filing Date:

On this day of 2008, before me appeared Anna Selvan John Appadurai, to me known and known to me to be the person described in and who executed the foregoing instrument and he acknowledged the same to be his free act and deed.

Notary Public

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KL Ref. No.: 61527-2030 (33182-2030)

FORM PTO-1595		RM COVER SHEET U.S. DEPARTMENT OF COMMERCE
(Rev. 6-93)		'S ONLY Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.		
I. Name of conveying party(ies)		2. Name and address of receiving party(ies)
Anna Selvan John Appadurai		Name: NanoPV Technologies Inc.
······································		·
		Internal Address:
Additional name(s) of conveying party(ies) attached? ☐ Yes ☑ No		Street Address: 1405 Lower Ferry Road
D 162 2 10		City: Ewing State: NJ Zip: 08618
		City. Bwing State. No Zip. 00010
3. Nature of conveyance:		
	,	Additional name(s) & address(es) attached? ☐ Yes ☒ No
Security Agreement		Additional name(s) to addition(co) and one of the
☐ Merger		·
☐ Change of Name		
Other		
Execution Date: March 14, 2008		
A A 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
4. Application number(s) or patent number(s):		
If this document is being filed together with a new application, the execution date of the application is: March 14, 2008		
A. Patent Application No.(s)		B. Patent No.(s)
Additional numbers attached? ☐ Yes ☒ No		
Name and address of party to whom correspond document should be mailed:	dence concerning	6. Total number of applications and patents involved
Name: Gregor N. Neff, Esq. Internal Address: Kramer Levin Naftalis & Frankel LLP Street Address: 1177 Avenue of the Americas		7. Total fee (37 CFR 3.41)\$40.00
		☐ Enclosed
		Authorized to be charged to deposit account # 50−0540
City: New York State: New York Zip: 1	.0036	
		8. Deposit account number: 50-0540
		(Attach duplicate copy of this page if paying by deposit account)
Do not use this space		
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.		
Gregor N. Neff A G or March 17, 2008		
Name of Person Signing Signature Date		
Author Control of Strain	J	Total number of pages including cover sheet, attachments, and document: 4
Do not detach this portion		
Mail documents to be recorded with required cover sheet information to:		
Commissioner of Patents and Trademarks		
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Alexandria, VA 22313-1450		
Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S.		
Potent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 2023 F, and to discontinuous		
Reduction Project (0651-0011), Washington, D.C. 20503.		

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PATENT REEL: 020714 FRAME: 0129

RECORDED: 03/17/2008