PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Shuming NIE	06/21/2004
Robert E. BAILEY	07/07/2004

RECEIVING PARTY DATA

Name:	Advanced Research and Technology Institute, Inc.
Street Address:	351 West 10th Street
City:	Indianapolis
State/Country:	INDIANA
Postal Code:	46202

PROPERTY NUMBERS Total: 1

Property Type	Number
PCT Number:	US0413119

CORRESPONDENCE DATA

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NAME OF SUBMITTER: Salim A. Hasan

Total Attachments: 3

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PATENT REEL: 014917 FRAME: 0462

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Attorney Docket No. 228372

Leydig, Voit & Mayer, Ltd. Two Prudential Plaza Suite 4900 Chicago, Illinois 60601-6780

ASSIGNMENT

WHEREAS, WE, Shuming Nie and Robert E. Bailey, of 1021 Wescott Lane, Atlanta, Georgia 30319 and 1304 Brockton Dr. #B, Signal Mountain, Tennessee 37377, respectively, have invented and own a certain invention entitled:

ALLOYED SEMICONDUCTOR QUANTUM DOTS AND CONCENTRATION-GRADIENT ALLOYED QUANTUM DOTS, SERIES COMPRISINGTHE SAME AND METHODS RELATED THERETO

for which invention we have executed an International Application for a U.S. patent, which was filed on April 28, 2004, under International Application No. PCT/US04/13119, which designates the U.S., and

WHEREAS, Advanced Research and Technology Institute, Inc., of 351 West 10th Street, Indianapolis, Indiana 46202 (hereinafter referred to as Assignee), is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

Now, Therefore, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

WE HEREBY AUTHORIZE the Assignee to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

UPON SAID CONSIDERATION, we convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.

WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making

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application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

In WITNESS WHEREOF, we have hereunder	r set our hands on the dates shown below.
Date June 21, 2004 Shun	ning Nie
STATE OF Georgia)	_
COUNTY OF Detab)SS:	
On this day of Two public in and for said county, appeared Shuming N same person whose name is subscribed to t acknowledged that he/she signed and delivered the for the uses and purposes therein set forth.	he foregoing assignment document and
{SEAL}	y Public
	ommission Expires:
	L. FOYE Notary Public, DeKalb County, Georgia My Commission Expires February 13, 2006

Date Robert E. Bailey

STATE OF COUNTY OF Screens SS:

COUNTY OF Screens SS:

On this Hoday of SS:

Public in and for said county, appeared Robert E. Bailey, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he she signed and delivered the document as higher free and voluntary act for the uses and purposes therein set forth.

(SEAL)

My Commission Expires: A County State S

In re Appln. of Advanced Research and Technology Institute, Inc.

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DEBRA A. SulDER
Commission # 1374315
Actomento County
My Comm. Expites Oct A. 2006