

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE												
CONVEYING PARTY DATA													
<table border="1"><tr><th>Name</th><th>Execution Date</th></tr><tr><td>University of Illinois Urbana-Champaign</td><td>02/17/2010</td></tr></table>	Name	Execution Date	University of Illinois Urbana-Champaign	02/17/2010									
Name	Execution Date												
University of Illinois Urbana-Champaign	02/17/2010												
RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>National Science Foundation</td></tr><tr><td>Street Address:</td><td>4201 Wilson Blvd</td></tr><tr><td>Internal Address:</td><td>Room 1265</td></tr><tr><td>City:</td><td>Arlington</td></tr><tr><td>State/Country:</td><td>VIRGINIA</td></tr><tr><td>Postal Code:</td><td>22230</td></tr></table>	Name:	National Science Foundation	Street Address:	4201 Wilson Blvd	Internal Address:	Room 1265	City:	Arlington	State/Country:	VIRGINIA	Postal Code:	22230	
Name:	National Science Foundation												
Street Address:	4201 Wilson Blvd												
Internal Address:	Room 1265												
City:	Arlington												
State/Country:	VIRGINIA												
Postal Code:	22230												
PROPERTY NUMBERS Total: 1													
<table border="1"><tr><th>Property Type</th><th>Number</th></tr><tr><td>Application Number:</td><td>12598224</td></tr></table>	Property Type	Number	Application Number:	12598224									
Property Type	Number												
Application Number:	12598224												
CORRESPONDENCE DATA													
Fax Number: (703)292-9041 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Email: nsfpatents@nsf.gov													
Correspondent Name: National Science Foundation													
Address Line 1: 4201 Wilson Blvd													
Address Line 2: Room 1265													
Address Line 4: Arlington, VIRGINIA 22230													
NAME OF SUBMITTER:	Robin Clay Fritsch												
Total Attachments: 1 source=16#page1.tif													

501175409

PATENT
REEL: 024381 FRAME: 0416

License to the United States Government

Sign and Fax this to (301) 480-0272

QUANTUM WELL ACTIVE REGION WITH THREE DIMENSIONAL BARRIERS AND FABRICATION

Invention Title: Quantum Nanopore Structure

Inventor(s): Victor C. Elards, James J. Coleman

U.S. Filing/Issue Date: 10/30/2009

Patent or Application Serial No.: 12/598,224

Grant/Contract Number(s): SCS0335082, N00011-05-1-0006

Foreign Applications filed/intended in (countries): _____

The invention identified above is a Subject Invention under **35 U.S.C. 200, et seq.**, and the Standard Patent Rights clause at **37 CFR 401.14, FAR 52.227-11** or **FAR 52.227-12** (if applicable) which are included among the terms of the above identified grant or contract award from the United State Government. This document is confirmatory of:

1. The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and
2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 17th day of February, 20 10.

By Walter K. Knorr
(Name of Grantee/Contractor Official)

Walter K. Knorr
(Signature)

Title _____

For UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN
(Grantee/Contractor Organization)

At 506 S. Wright Street Urbana, IL 61801 US
(Business Address)

PATENT

RECORDED: 05/13/2010

REEL: 024381 FRAME: 0417