

07-14-2000



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Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other _____

U.S. Government
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Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) Daniel Joseph Christian Herr Execution Date Month Day Year 05/22/2000

Name (line 2) _____

Second Party

Name (line 1) Victor Vladimirovich Zhirnov Execution Date Month Day Year 06/01/2000

Name (line 2) _____

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Semiconductor Research Corporation 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 Assignment.)

Name (line 2) _____

Address (line 1) 1101 Slater Road, Suite 120

Address (line 2) _____

Address (line 3) Durham North Carolina 27703
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Steven B. Phillips

Address (line 1) Moore & Van Allen, PLLC

Address (line 2) 2200 W. Main Street, Suite 800

Address (line 3) Durham, North Carolina 27705

Address (line 4) _____

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Pages Enter the total number of pages of the attached conveyance document including any attachments. #

Application Number(s) or Patent Number(s) Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)			Patent Number(s)		
<input type="text" value="09/510,802"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number PCT PCT

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Number of Properties Enter the total number of properties involved. #

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed Deposit Account


Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes No

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. Charges to deposit account are authorized, as indicated herein.

Steven B. Phillips  June 5, 2000

Name of Person Signing Signature Date

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CONTINUATION
PATENTS ONLY

Conveying Party(ies)

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Enter additional Conveying Parties

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Month Day Year

Name (line 1)

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Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

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Name (line 1)

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 Assignment.)

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State/Country

Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City

State/Country

Zip Code

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Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

ASSIGNMENT

For good and valuable consideration received, including salary or payment for the making of inventions, or employee benefits, we confirm that we have sold and assigned and do hereby sell and assign to:

Semiconductor Research Corporation
1101 Slater Road, Suite 120
Durham, North Carolina 27703 (Assignee),

its successors and assigns, the entire right, title, interest and priority rights in and to all of our inventions, discoveries and improvements disclosed in an application for Letters Patent for:

SUPERMOLECULAR STRUCTURES AND DEVICES MADE FROM SAME

executed by us the 23rd day of February, 2000, and

 about to be filed


 X already filed as USSN 09/510802

in the United States Patent and Trademark Office, together with said application and any divisional, or continuation or reissue application thereof, applications corresponding thereto in whole or in part in all other countries, and all right, title and interest in and to Letters Patent and similar protective rights granted on said applications, as well as the right to claim any applicable priority rights arising from said applications under the terms of any applicable conventions, treaties, statutes or regulations, said applications to be filed and issued in the name of the Assignee or its designee; and we agree to execute such documents as in the judgment of the Assignee may be necessary to obtain any such patents and similar protective rights and vest and maintain the title thereto in the Assignee or its designee; and we further agree that, upon request, but without expense to us, we shall furnish to the Assignee or its designee any data, information, exhibits, memoranda, or other evidence in our possession relating to any of said inventions, discoveries or improvements and shall testify in any ex parte or inter partes legal or administrative proceedings relating to any of said inventions, discoveries, improvements, applications, patents, or similar protective rights; and we

authorize and request issuance of all Letters Patent and similar protective rights that may be granted on any of said applications, to the extent that and in such manner as such issuance shall be requested by the Assignee or its designee.

This document shall be governed, construed and interpreted in all respects in accordance with the laws of the state of North Carolina.

Executed this 22 day of May, 2000.


Daniel Joseph Christian Herr

Date: May 22, 2000

WITNESSED: Juanita R. Couch

Name: Juanita R Couch

Address: 112 Bounty Lane

Durham NC 27713

ASSIGNMENT

For good and valuable consideration received, including salary or payment for the making of inventions, or employee benefits, we confirm that we have sold and assigned and do hereby sell and assign to:

North Carolina State University
1 Holladay Hall
Raleigh, North Carolina 27695 (Assignee),

its successors and assigns, the entire right, title, interest and priority rights in and to all of our inventions, discoveries and improvements disclosed in an application for Letters Patent for:

SUPERMOLECULAR STRUCTURES AND DEVICES MADE FROM SAME

executed by us the 23rd day of February, 2000, and

 about to be filed

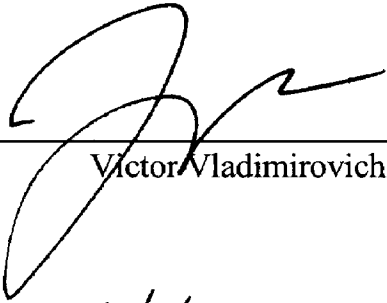
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in the United States Patent and Trademark Office, together with said application and any divisional, or continuation or reissue application thereof, applications corresponding thereto in whole or in part in all other countries, and all right, title and interest in and to Letters Patent and similar protective rights granted on said applications, as well as the right to claim any applicable priority rights arising from said applications under the terms of any applicable conventions, treaties, statutes or regulations, said applications to be filed and issued in the name of the Assignee or its designee; and we agree to execute such documents as in the judgment of the Assignee may be necessary to obtain any such patents and similar protective rights and vest and maintain the title thereto in the Assignee or its designee; and we further agree that, upon request, but without expense to us, we shall furnish to the Assignee or its designee any data, information, exhibits, memoranda, or other evidence in our possession relating to any of said inventions, discoveries or improvements and shall testify in any ex parte or inter partes legal or administrative proceedings relating to any of said inventions, discoveries, improvements, applications, patents, or similar protective rights; and we authorize and request issuance of all Letters Patent and similar protective rights that may be granted

on any of said applications, to the extent that and in such manner as such issuance shall be requested by the Assignee or its designee.

This document shall be governed, construed and interpreted in all respects in accordance with the laws of the state of North Carolina.

Executed this 1 day of June, 2000.



Victor Vladimirovich Zhirnov

Date: 6/1/00

WITNESSED: Juanita R. Couch

Name: Juanita R Couch

Address: 112 Bounty Lane

Durham NC 27713