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2. Name and address of receiving party(ies)

Name: National Science FoundationInternal Address: Office of the General CounselSuite 1265Street Address: 4201 Wilson BoulevardCity: Arlington State: VA Zip: 22230Additional name(s) & address(es) attached? ☐ Yes ☒ No

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: \_\_\_\_\_

A. Patent Application No.(s) 09/971,442

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Robin Clay FritschInternal Address: Office of the General CounselSuite 1265Street Address: 4201 Wilson BoulevardCity: Arlington State: VA Zip: 222306. Total number of applications and patents involved: ☐7. Total fee (37 CFR 3.41).....\$ 0.00☐ Enclosed☐ Authorized to be charged to deposit account

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PATENT

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**LICENSE TO THE UNITED STATES GOVERNMENT**

Title: GUIDED SELF-ASSEMBLY OF BLOCK COPOLYMER FILMS ON  
INTERFEROMETRICALLY NANOPATTERNED SUBSTRATES  
Inventors: Paul F. Nealey, Juan J. de Pablo, Francesco Cerrina, Harun Solak, XiaoMin  
Yang, Richard D. Peters, Qiang Wang  
Serial #: 09/971442  
Filing Dt: 10/5/2001  
WARF Ref: P01085US

WHEREAS, a patent application has been filed on the above identified invention;  
and

WHEREAS, the invention was made in the course of research supported by the  
National Science Foundation, 9708944; and

WHEREAS, the United States Government is entitled to certain rights in and to said  
invention and application by reason of the terms relating to such support; and

WHEREAS, the Wisconsin Alumni Research Foundation, Madison, Wisconsin,  
hereinafter called the "Licensor" has acquired by assignment from the inventor(s) the entire  
right, title and interest of the inventor(s) to such invention;

**NOW THEREFORE:**

1. The Licensor, in consideration of the premises and other good and valuable consideration, hereby grants and conveys to the United States Government a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world under the aforesaid patent application, and any and all divisions or continuations, and in any and all patents or reissues which may be granted thereon during the full term or terms thereof.
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4. This license shall not limit the rights reserved to the Government under the contract(s), grant(s), or other arrangement(s) under which said invention was made.

Signed this 21<sup>st</sup> day of March, 2002.

WISCONSIN ALUMNI RESEARCH FOUNDATION

By Bryan Z. Renk  
Bryan Z. Renk  
Director of Patents & Licensing

CERTIFICATE

I, Kathy M. Hanneman, certify that I am the Patent Docket Clerk of the Institution named as licensor herein, that Bryan Z. Renk, who signed this license on behalf of the Institution is Director of Patents & Licensing of said Institution; and that said License was duly signed for and in behalf of said Institution by authority of its governing body, and is within the scope of its corporate powers.

By Kathy M. Hanneman  
Kathy M. Hanneman  
Patent Docket Clerk

Accepted for the benefit of the Government this 29<sup>th</sup> day of March, 2002.

DEPARTMENT OF NSF  
By Wanda J. Jacobs