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OMB No. 0651-0027 (exp. 6/30/2008)	United States Patent and Trademark Off					
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	ease record the attached documents or the new address(es) below.					
1. Name of conveying party(les)	2. Name and address of receiving party(les)					
The Regents of the University of California	Name: United States Department of Energy					
Additional name(s) of conveying party(les) attached? Yes / I 3. Nature of conveyance/Execution Date(s): Execution Date(s) May 9, 2016 Assignment	No Street Address: <u>1000 Independence Ave. S.V</u>					
Assignment Merger Security Agreement Change of Name Joint Research Agreement	City: <u>Washington</u>					
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: <u>USA</u> Zip: <u>20585</u>					
A. Patent Application No.(s) Serial No. 15/147,764	s document is being filed together with a new application B. Patent No.(s)					
Additional numbers	atteched? Types INo					
Additional numbers a 5. Name and address to whom correspondence concerning document should be mailed;	atteched? ☐ Yes ✔No 6. Total number of applications and patents involved:_1					
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5. Name and address to whom correspondence concerning document should be mailed; Name: Michael J. Dobbs Internal Address: U. S. Dept. of Energy, IPLD Street Address: 9800 S. Cass Ave	6. Total number of applications and patents involved:_1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed					
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5. Name and address to whom correspondence concerning document should be mailed: Name:Michael J. Dobbs Internal Address:U. S. Dept. of Energy, IPLD Street Address:9800 S. Cass Ave City: Argonne State: IL Zip:60439 Phone Number:630-252-2164	6. Total number of applications and patents involved:_1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed ✓ None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers					
5. Name and address to whom correspondence concerning document should be mailed: Name:Michael J. Dobbs Internal Address:U. S. Dept. of Energy, IPLD Street Address:9800 S. Cass Ave City: Argonne State: IL Zip:60439 Phone Number:630-252-2164 Fax Number: 630-252-2779	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed ✓ None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date					
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PATENT REEL: 039627 FRAME: 0489 •

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CONFIRMATORY LICENSE

Title: Contractor: Contract No: LBNL Docket No:

Scar-Less Multi-Part DNA Assembly Design Automation The Regents of the University of California DE-AC02-05CH11231 DOE Docket No.:

(Div of S-126.426)

Inventor(s): Nathan J. Hillson

EIB-2928-A

US Patent App No.: 15/147,764 Filing Date: May 5, 2016 U.S. Patent No.: Issue Date:

Foreign patent applications filed or intended to be filed at contractor's expense in (countries): (None)

The Contractor certifies that a true copy of the provisions which govern patent rights in "subject inventions" under the above-identified contract is herewith submitted or has been submitted to the U.S. Department of Energy by certification dated October 29, 1996.

WHEREAS, the above-identified contract provides the Contractor with the right to elect to retain title in certain inventions and the Contractor has reported the above-identified invention as a subject invention under the contract, has elected to retain title therein, and has agreed to file a domestic patent application thereon, if not previously filed.

ACCORDINGLY, the Contractor hereby confirms that under the provisions of the above-identified contract governing patent rights, it has granted to the 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. This license applies to the above-identified invention, the above-identified patent application(s), and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

The Government reserves for itself, and is hereby granted by the Contractor, the irrevocable power to inspect and make copies of the file wrapper(s) of the above-identified U.S. patent application and of any related or continuation patent application(s), whether domestic or foreign, for the above-identified invention.

It is understood and agreed that this instrument does not preclude the Government from asserting rights under the provisions of the above-identified contract or any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

Signed on behalf of: The Regents of the University of California, Lawrence Berkeley National Laboratory

A /				
Witnessed: have	Kay Kain	CmcBy	thickly	5/9/16
¢*	(Vignature)	•	(Contractor Official's Signature)	(Date)

Sharon Kay Reineman Legal Analyst, Patent Admin. Asst.

Robin C. Chiang, Ph.D. Patent Attorney

Ernest Orlando Lawrence Berkeley National Laboratory Office of Laboratory Counsel and Innovation & Partnerships Office (IPO) One Cyclotron Road, MS 56A-0120 Berkeley, CA 94720-8127