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S- 112,798 / 5 / 6 08 -	22-2008	U.S. Department of Commerce
(Rev. 10/02) AUG 1 8 2008 W		Patent and Trademark Office
REC(
To the Honorable Commissioner for Pate 103	3521022 ₂	inal documents or copy thereof.
Name of conveying party(ies): Anthony K. Burrell,	2. Name and address	
Benjamin J. Davis, David L. Thorn, John C.		
Gordon, R. Thomas Baker, Troy Allen Semelsberger, William Tumas, Himashinie	Name: Los Alamos	National Security, LLC
Vichalya Kaviraj Diyabalanage,		
Roshan P. Shrestha		
Additional name(s) of conveying party(ies) attached?		
3. Nature of Conveyance:	Address:	
Assignment	Los Alamos Natio	onal Security. LLC
☐ Security Agreement ☐ Change of Name ☐ Other	LC/IP, MS A187	,, <u></u>
	Los Alamos, NM	975 <i>4</i> 5
Execution Date: July 14, 2008, July 23, 2008 and	1	address(es) attached
July 28 th , 2008	Yes No	
Application number(s) or patent number(s): If this document is being filed together with a new ap of the application is:	plication, the executio	n date
A. Patent Application No.(s) 12/151,575	B. Patent No.(s)	
Additional numbers att	ached 🗌 Yes 🛛 N	0
5. Name and address of party to whom	6 Total number of a	pplications and patents involved:
correspondence concerning document should be	1	priodite and paterne inverteur
mailed:	7. Total fee (37 CFR	3 41). \$ 40.00
Names Consult Badassalus	Enclosed	3.41): <u>\$ 40.00</u>
Name: Samuel L. Borkowsky Authorized to be charged to deposit account		
Registration No.: 42,346		
Address: Los Alamos National Security, LLC		
LC/IP, MS A187 Los Alamos, NM 87545		
	8. Deposit account n	umber 12-2150
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Statement and signature:To the best of my knowledge and belief, the foregoin	ng information is true a	nd correct and any attached copy
is a true copy of the original document.		
Samuel L. Borkowsky	Bollowsa	August 13, 2008
Name of person signing Signature		Date
Name of person signing	86/81/20	688Tiontalinumabasio9f Ragges: 3
OMB No. 0651-0027 (exp. 6/30/05)	91 FE:88	21 40.00 DA
Fax documents to be recorded with required cover she	et to: (571) 273-014	0
Fax documents to be recorded with required cover she Mail documents to be recorded with required cover she	eet to: Director of the l	USPTO Inment Recordation Services
Mail Gooding	PO Box 1450 Alexandria, VA	

PATENT REEL: 021429 FRAME: 0481

ASSIGNMENT

DOE S-112,798

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR,

- 1. Anthony K. Burrell 2. Benjamin J. Davis 3. David L. Thorn 4. John C. Gordon 5. R. Thomas Baker
- 6. Troy Allen Semelsberger 7. William Tumas 8. Himashinie Vichalya Kaviraj Diyabalanage
- 9. Roshan P. Shrestha

hereby sells, assigns and transfers

administra	ative o	Los Alamos National Security, LLC, a Delaware Corporation, having its statewide ffices located at Los Alamos National Laboratory, LC/IP, Los Alamos, New Mexico 87545, sors, assigns and legal representatives of the ASSIGNEE
the en	tire rig	ght, title and interest
☐ an und	ivided	fifty percent (50%) interest
☐ an und	divide	d percent (%) interest
for the Uni	ited S	tates and its territorial possessions
		reign countries, including all rights to claim priority, in and to any and all improvements sclosed in the invention titled:
Name of I	nvento Bake	BORANES Or(s) Anthony K. Burrell, Benjamin J. Davis, David L. Thorn, John C. Gordon, r, Troy Allen Semelsberger, William Tumas, Himashinie Vichalya Kaviraj Diyabalanage, ha
and which	is fou	and in
(a)	\boxtimes	U.S. application Serial No. <u>12/151,575</u> , filed on <u>05/07/2008</u> .
(b)		U.S. Patent No. , issued .
	in and continues reexa	nd any legal equivalent thereof in a foreign country, including the right to claim priority and, if to, all Letters Patent to be obtained for said invention by the above application or any nuation, division, continuation-in-part, extension or substitute thereof, and any reissue, mination or extension of said Letters Patent and all rights under all International entions for the Protection of Industrial Property;
☐ A char sent sepa		address to which correspondence is to be sent regarding patent maintenance fees is being

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be

made or entered into which would conflict with this assignment;

PATENT REEL: 021429 FRAME: 0482 ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

AND the ASSIGNOR requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, Los Alamos National Security, LLC.

executed this 28 day of July , 2008 23 day of July , 2008 14th day of July 2008 14/4 day of JULY, 2008 28th day of July , 2008 R. Thomas Baker 14 day of July , 2008 23 day of July , 2008 14 day of July , 2008 14th day of July, 2008

Signature of Assignor Sorby K Burrall Troy Allen Semelsberger Himashinie Vichalya Kaviraj Diyabalanage

RECORDED: 08/18/2008