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Stephen M. Copley (6/19/2006), William G. Rhoads (7/13/2006), Chris A. Sills (6/19/2006), and Eduard S. Vontsol (6/15/2006) Additional name(s) of conveying party(les) attached?	Name: The Pennsylvania State Research
3. Naturo of conveyance/Execution Date(s):	
Execution Date(s): In parentheses after inventor name	304 Old Main
Security Agreement Joint Research Agreement	City: University Park
Government Interest Assignment	State: Ponnsylvania
Executive Order 9424, Confirmatory Licenso Other	Country: United States of America Zip: 16802_ Additional name(s) & address(cs) Yos X No attached?
Additional numbers attached 5. Name and address to whom correspondence	
concerning document should be malled:	7 Yea X No 6. Total number of applications and 1 patents involved:
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concorning document should be mailed: Namo: Douglas L. Wathen GIFFORD, KRASS, GROH. SPRINKLE, ANDERSON & CITKOWSKI, P.C. Internal Address: Atty. Dkt.: PST-17802/36 Street Address: 2701 Troy Center Drive, Suite 330 Post Office Bex 7021 City: Troy	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40,00 Authorized to be charged by credit card X Authorized to be charged to deposit account Enclosed
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(FAX)17349136007

	Assignment of Rights, Title (Multiple inventor:		Docket No. PST-17802/36
l'his is an A	ssignment of the following rights,	title and interest: (check all that apply):	
8	United States of America rights, title and Interest in the Invention		
×	Foreign rights, title and interest in the invention		
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	Date of Execution;	Date of Filing:	
	United States Patent No(s).		
	Other (specify)		
itle of the l	Invention		
nventors (a	issignors)		
	Name	Address	
Stephen M	Л. Соріву	515 Balmoral Circle, State College, PA 1680	1
William G.	A. Copley Rhoads	515 Balmoral Circle, State College, PA 1680 144 East Side Dr., Bellefonte, PA 16823	1
William G. Chris A. S	A. Copiey Rhoads ills	515 Balmoral Circle, State College, PA 1680 144 East Side Dr., Bellefonte, PA 16823 163 Vilia Crest Dr., State College, PA 16801	
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William G. Chris A. S	A. Copiey Rhoads ills	515 Balmoral Circle, State College, PA 1680 144 East Side Dr., Bellefonte, PA 16823 163 Vilia Crest Dr., State College, PA 16801	
William G. Chris A. S	A. Copiey Rhoads ills	515 Balmoral Circle, State College, PA 1680 144 East Side Dr., Bellefonte, PA 16823 163 Vilia Crest Dr., State College, PA 16801	
William G. Chris A. S	A. Copiey Rhoads ills	515 Balmoral Circle, State College, PA 1680 144 East Side Dr., Bellefonte, PA 16823 163 Vilia Crest Dr., State College, PA 16801	
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William G. Chris A, S Eduard S,	A. Copiey Rhoads ills	515 Balmoral Circle, State College, PA 1680 144 East Side Dr., Bellefonte, PA 16823 163 Vilia Crest Dr., State College, PA 16801	
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Assignment of Rights, Title and Interest in Invention (Multiple inventors; single assignee) P

Docket No. PST-17802/36

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Potent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designec(s) may from time to time require and prepare at its own expense.

Name	() Signature/Date
Stephen M. Copiey	Aterhan M Cateley June 19, 2006
William G. Rhoads	Deretaria the Shandy LULY 13 2006
Chris A. Silis	Christian Set 6-19-06
Eduard S. Ventsel	EVintel 06/15/06

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

RECORDED: 08/07/2006

[Puge 2 of 4]

PATENT REEL: 018074 FRAME: 0627