Attorney Docket No.: 12264-067

PATENTS ONLY PATENTS O  Please record the attached original document or copy thereof.  Name of Party(ies) conveying an interest: Please record the attached original document or copy thereof.  Please record the attached original document or copy thereof. Please record the attached original document or copy thereof. Please record the attached original document or copy thereof. Please record the attached original document or copy thereof. Please record the attached original document or copy thereof. Please record the attached original document or copy thereof. Please record the attached? Purdue Research Foundation 3000 Kent Avenue West Lafayette, IN 4791)6 Additional name(s) of conveying party(ies) attached? Please record not be interest conveyed: Please convey	ASSIGNMENT RECO	RDATION COVER SHEET
IO THE COMMINISSIONER FOR PATENTS         Please record the attached original document or copy thereof.         I. Name of Party(les) conveying an interest:       2. Name and Address of Party(les) receiving an interest:         Ioseph Paul Robinson       2. Name and Address of Party(les) receiving an interest:         Bartd Grégori       2. Name and Address of Party(les) receiving an interest:         Purdue Research Foundation 3000 Kant Avenue       West Lafayette, IN 479136         Additional name(s) of conveying party(ies) attached?       Additional name(s) and address est attached?         Description of the interest conveyed:       Yes ⊠ No         Additional name(s) of conveying party(ies) attached?       Additional name(s) and address est attached?         Yes ⊠ Assignment       Change of Name       Other:         Execution Date: 8/8/05; 8/8/05; 8/8/05       Additional sheet attached?       Yes ⊠ No         If this document is being filed together with a new application, the execution date of the application is:       Patent Application No.(s)         Name and address of party to whom correspondence concerning document should be mailed:       G. Number of applications and patiants involved: 1         John M, Card, Esc.       BRINKS HOFER GLISON & LIONE P.O. Soft Count No. 23-1925.       Submert of Deposit Account No. 23-1925.         DO NOT USE THIS SPACE       Do NOT USE THIS SPACE	PATENTS ONLY	
Please record the attached original document or copy thereof.         I. Name of Partyties) conveying an interest:         Ioseph Paul Robinson Mattomiel Raiva Statad Grégori (alery Patsekin         Statad Grégori (alery Patsekin         Obscription of the interest conveyed:         Description of the interest conveyed:         Mittomiel Raiva (diffional name(s) of conveying party(ies) attached? Description of the interest conveyed:         Description of the interest conveyed:         Matter Raiva (diffional number(s) or patent number(s). Additional sheet attached?         Yes (Matter Raiva)         Application number(s) or patent number(s). Additional sheet attached?         Yes (Matter Raiva)         Patent Application No.(s)         B. Patent No.(s)         Non         Additional numbers attached?         Yes (Matter Raiva)         Additional numbers attached?         Yes (Matter Raiva)         Base of party to whom correspondence concerning document should be mailed:         John M. Card, Esc.         Box NOT USE THIS SPACE         Do NOT USE THIS SPACE         Statement and signature. To the best of my knowledge and bellet, the foregoing information is true and correct and any attached copy is a true copy of the original document.         Nome and signature. To the best of my knowledge and bellet, the foregoing information is true and correct and any attached co	TO THE COMMISS	IONER FOR PATENTS
2. Name and Address of Pariy(les) concepting an interest:   Barthomiej Rajwa		
Járald Grégori       Product Research Politication         //alery Patsekin       Jobo Kent Avenue         west Lafayette, IN: 479:)6         Additional name(s) of conveying party(ies) attached?         Yes: X: No         Description of the interest convayed:         Security Agreement         Merger         Execution Date: 8/8/05; 8/8	Joseph Paul Robinson	<ol> <li>Name and Address of Party(ies) receiving an interest:</li> </ol>
Oescription of the interest conveyed:       Yes ⊠ No       Yes ⊠ No         ☑ Assignment       □ Change of Name       Other:         □ Security Agreement       □ Merger         Execution Date: 8/8/05; 8/8/05; 8/8/05; 8/8/05       Additional sheet attached? □ Yes ⊠ No         If this document is being filed together with a new application, the execution date of the application is:         Patent Application No.(s)       B. Patent No.(s)         Name and address of party to whom correspondence concerning document should be mailed:       6. Number of applications and patients involved: 1         John M. Card, Esc.       Enclosed         BRINKS HOFER GILSON & LIONE       Please charge ary deficier cles in feor or cell at overpayment to Deposit Ac count No. 23-1925.         DO NOT USE THIS SPACE       DO NOT USE THIS SPACE	Gérald Grégori /alery Patsekin	3000 Kent Avenue
LS Assignment       ☐ Change of Name       Other:         ☐ Security Agreement       ☐ Merger         Execution Date: 8/8/05; 8/8/05; 8/8/05         Application number(s) or patent number(s). Additional sheet attached? ☐ Yes ☑ No         If this document is being filed together with a new application, the execution date of the application is:         Patent Application No.(s)       B. Patent No.(s)         Name and address of party to whom       6. Number of applications and patients involved: 1         Correspondence concerning document should be       7. Total fee (37 CFR 3.41)       \$ 40         mailed:       ☐ Enclosed       ☐ Authorized to be charged to Deposit Account         John M. Card, Esq.       ☐ Please charge any deficier cies in fee or credit and overpayment to Deposit Ac count No. 23-1925.         DO NOT USE THIS SPACE       DO NOT USE THIS SPACE	Additional name(s) of conveying party(ies) attached?	Additional name(s) and addresses attached?
Execution Date: 8/8/05; 8/8/05; 8/8/05         Application number(s) or patent number(s). Additional sheet attached? Yes X No         If this document is being filed together with a new application, the execution date of the application is:         Patent Application No.(s)         B. Patent No.(s)         Name and address of party to whom correspondence concerning document should be mailed:         John M. Card, Esg.         BRINKS HOFER GILSON & LIONE P.O. BOX 10395         CHICAGO, IL 60610         DO NOT USE THIS SPACE         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.         bohn M. Card Reg. No. 48,423         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.	Change of Name	Other:
Application number(s) or patent number(s). Additional sheet attached? □ Yes ⊠ No         If this document is being filed together with a new application, the execution date of the application is:         Patent Application No.(s)       B. Patent No.(s)         Name and address of party to whom correspondence concerning document should be mailed:       6. Number of applications and patients involved: 1         John M. Card, Esq.       BRINKS HOFER GILSON & LIONE         P.O. BOX 10395       CHICAGO, IL 60610         CHICAGO, IL 60610       DO NOT USE THIS SPACE    Statement and signature. To the best of my knowledge and bellef, the foregoing information is true and correct and any attached copy is a true copy of the original document.		
If this document is being filed together with a new application, the execution date of the application is:         Patent Application No.(s)         B. Patent No.(s)         Additional numbers attached?         Yes         Name and address of party to whom correspondence concerning document should be mailed:         John M. Card, Esc.         BRINKS HOFER GILSON & LIONE         P.O. BOX 10395         CHICAGO, IL 60610         BO NOT USE THIS SPACE    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.	Execution Date: 8/8/05; 8/8/05; 8/8/05; 8/8/05 Application number(s) or patent number(s). A strike	
Patent Application No.(s)       B. Patent No.(s)         Additional numbers attached? ☐ Yes ☐ No         Name and address of party to whom correspondence concerning document should be mailed:       6. Number of applications and patents involved: 1         7. Total fee (37 CFR 3.41)       \$ 40         ☐ Enclosed       Authorized to be charged to Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610       Please charge any deficier cies in fee or credit an overpayment to Deposit Ac count No. 23-1925.         DO NOT USE THIS SPACE       DO NOT USE THIS SPACE         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.         chin M. Card Reg. No. 48,423 true of Person Signing       August 26, 2005 Date		
Additional numbers attached?       Yes       No         Name and address of party to whom correspondence concerning document should be mailed:       6. Number of applications and patients involved: 1         John M. Card, Esq.       Finclosed       Authorized to be charged to Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610       8. Please charge any deficier cies in fee or credit an overpayment to Deposit Ac count No. 23-1925.         DO NOT USE THIS SPACE       DO NOT USE THIS SPACE         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.         ohn M. Card Reg. No. 48,423       Mathage         Date       August 26, 2005	If this document is being filed together with a new appl	lication, the execution date of the application is:
Auther and address of party to whom correspondence concerning document should be mailed:       6. Number of applications and patients involved: 1         Mailed:       7. Total fee (37 CFR 3.41)       \$ 40         John M. Card, Esq.       Enclosed       Authorized to be charged to Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE P.O. BOX 10395       Authorized to be charged to Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE P.O. BOX 10395         CHICAGO, IL 60610       8. ☑ Please charge any deficier cies in fee or credit an overpayment to Deposit Ac count No. 23-1925.         DO NOT USE THIS SPACE         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.         ohn M. Card Reg. No. 48,423         atme of Person Signing	Patent Application No.(s) /101,717	B. Patent No.(s)
mailed:       7. Total fee (37 CFR 3.41)       \$ 40         John M. Card, Esq.       Enclosed       Authorized to be charged to Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610       8. Please charge any deficier cies in fee or credit a overpayment to Deposit Ac count No. 23-1925.         DO NOT USE THIS SPACE       DO NOT USE THIS SPACE         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.         John M. Card Reg. No. 48,423 ame of Person Signing       Signature	name and address of party to whom	<ol><li>Number of applications and patents involved: 1</li></ol>
John M. Card, Esq.       Authorized to be charged to Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610         BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610       No. 23-1925 (BRINKS HOFER GILSON & LION No. 23-1925.         DO NOT USE THIS SPACE       DO NOT USE THIS SPACE         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.         ohn M. Card Reg. No. 48,423 ame of Person Signing       Signature	mailed;	7. Total fee (37 CFR 3.41) \$ <u>40.0</u>
Big Please charge any deficier cies in fee or credit and overpayment to Deposit Ar count No. 23-1925.         DO NOT USE THIS SPACE         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.         ohn M. Card Reg. No. 48,423 ame of Person Signing         Signature		Authorized to be charged to Deposit Account
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.         John M. Card Reg. No. 48,423         ame of Person Signing         Signature		<ol> <li>Please charge any deficier cies in fee or credit any</li> </ol>
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.          ohn M. Card Reg. No. 48,423       August 26, 2005         ame of Person Signing       Signature	DO NOT USE	
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. <u>ohn M. Card Reg. No. 48,423</u> ame of Person Signing <u>August 26, 2005</u> Date		
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.		
ame of Person Signing Signature Date Date	To the best of my knowledge and belief, the foregoing in	formation is true and correct and any attached copy is a
ame of Person Signing Signature Date Date		100
Date		August 26, 2005
1019 DUMDER of Deeper install-fragments in the second		Date

ARINKS BRINKS HOFER GILSON & LIONE HOFER PO Box 10395 GILSON Chicago, IL 60611-5599

## 700206387

## PATENT REEL: 016672 FRAME: 0954

Case No. <u>12264/67</u>

## ASSIGNMENT

WHEREAS, Joseph Paul Robinson, Bartlomiej Rajwa, Gérald Grigori and Valery Patsekin, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled <u>MULTI-SPECTRAL DETECTOR AND ANALYSIS SYSTEM</u>, for a full description of which reference is here made to an application for Letters Patent of the United States filed on <u>April 8, 2005</u> and assigned Application Serial No. <u>11/101./17</u>;

WHEREAS, <u>Purdue University</u>, a not-for-profit organization having a place of business at <u>West Lafayette</u>, Indiana, hereinafter called the "Assignee," desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patent: therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or

## PATENT REEL: 016672 FRAME: 0955

any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

JP R DATE: WITNESSED: DATE: 2005 DATE: 7 20 al 가실 DATE: 2010 WITNESSED: DATE: 2005 DATE: GG. DATE: యాస WITNESSED: DATE: DATE: vΡ 200 DATE: WITNESSED: DATE: DATE:

- 2 -

PATENT REEL: 016672 FRAME: 0956