(Ref: 10:02) US_Patent and Trademach Checo To the theoretic Commissioner of Tracements 102488133 To the theoretic Commissioner of Tracements Please Record the stached original documents or cory thereof. 1. Marine and conveying party(les) 111 (1) Marine and conveying party(les) 111 (2) Sarah L. Fogal 111 Additional name of conveying party(les) allastic 111 (2) Sarah L. Fogal 111 (3) Name of conveying party(les) allastic 111 (4) Groe Bendin (111) (5) Sarah L. Fogal 111 (5) Sarah L. Fogal (111) (6) Groe Bendin (111) (7) June 3, 2003 (111) (111) (111) (111) (111) (111) (111) (111) (111) (111) (111) (111) (111) (111) (111) (111) (111) (111)	Form PTO-1595 RECORDA	07-03-2003
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1. Name of conveying party(ics): (a) Wilsm L Kath (b) Give Blondini (c) Sarah L. Fogal Additional name of conveying party(ics) statute of conveying party(ics) statute of conveyance: (c) Sarah L. Fogal Additional name of conveying party(ics) statute of conveying party(ics) statute of conveyance: (c) Street Address: 633 Clark Street Executive of conveyance: (c) Assignment (c) Change of Name Chtor (c) Unit of Change of Name (c) Street Address: 633 Clark Street Executive Date: (a) and (c) June 12, 2003 (c) Unit of Change of Name (c) Street Address: (s) attached? (c) Yes (c) No 4. Application number(s): (f) this document is being filed together with a new application. the execution date of the application is: (c) Patent Application No. (s) 1. 0/366,303 (c) June 5. 2003 (c) Total fee (37 CFR 3.41)		
(a) William L Kath (b) Groe Blonchin (c) Sarah L Fogal Image: Northwestern University Internal Address: 633 Clark Street Additional name of conveyance:		
(c) Sarah L Pogal Internal Address: 633 Clark Street Additional name of conveying party(ies) att20444 Yes ⊠ No Street Address: 633 Clark Street 3. Nature of conveyance: Street Address: 633 Clark Street △ Assignment Other ○ Other Change of Name ○ Other Street Address: 633 Clark Street ■ Address(es) attached? Yes ⊡ No 4. Application number(s) or patent number(s): Ht is document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) 10/360.303 B. Patent No.(s) 5. Name and address of party to whom correspondence concerning this document should be mailed: R. Total number of application and patents involved: Name_Leonard J. Kalinowski 7. Total fee (37 CFR 3.41)\$ 40.00 ⊠ Enclosed Suite 2100 □ Authorized to be charged to deposit account B. Deposit account number: 18-0882 Internal adjusture: 18-0882 Total number of any attached copy if be origing information is true and correct and any attached copy is as two coord with required cover be thormation to: 18-0882 Street Address: 1000 N. Water Street Internal Alformatic: Internal Alformatic: Total number of apgics including cover	1. Name of conveying party(ies): (a) William L. Kath (b) Gino Biondini	
Additional name of conveying partyles allow Yes X No Evanston, IL 60208 3. Nature of conveyance: Street Address: 633 Clark Street Assignment Change of Name Other Change of Name Other Street Address: 633 Clark Street Execution Date: (a) and (c) June 12, 2003 (b) June 5, 2003 Additional Name(s) & address(es) attached? [ves] No A. Application number(s) or patent number(k): If this document is being field together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) 10/360.303 Change of Name Street Address: 1000 N. Water Street Change of CFR 3.41)	(c) Sarah L. Fogal	
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□ Security Agreement □ Change of Name City: Evension State: ILZip: 60208 □ Other City: Evension State: ILZip: 60208 Execution Date: (a) and (c) June 12, 2003 (b) June 5, 2003 Additional 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) □ B. Patent No.(s) 10/360,303 B. Patent No.(s) 6. Total number of applications and patents involved: Cr. Total fee (37 CFR 3.41)\$ 40,00 Name: Leonard J. Kalinowski T. Total fee (37 CFR 3.41)\$ 40,00 Internal Address: 1000 N, Water Street B. Colsed Suite 2100 □ Authorized to be charged to deposit account Milwaukee State: WI Zip: 53202 (Attach duplicate copy of this page if paying by deposit account) Internal address: 1000 N. Water Street Bendesd June 25_2003 City: Milwaukee State: WI Zip: 53202 (Attach duplicate copy of this page if paying by deposit account) Internal address Internal Address: Loographic Address: Loographic Address: Loographic Address: Loographis document J		Street Address: <u>633 Clark Street</u>
□ Other City: Evansion State: IL 2.p: 60208 Execution Date: (a) and (c) June 12, 2003 Additional 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 A. Patent No.(s) B. Patent No.(s) B. Patent No.(s) 10/360.303 Additional numbers attached? □ Yes ☑ No 5. Name and address of party to whom correspondence concerning this document should be mailed: 6. Total number of applications and patents involved: Name: Leonard J. Kalinowski 7. Total fee (37 CFR 3.41)\$ 40,00 Internal Address: 1000 N. Water Street B. Deposit account number: Suite 2100 □ Authorized to be charged to deposit account Milwaukee State: WI Zip: <u>53202</u> 8. Deposit account number: 18-0882 Ites of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. J. LumaxL: Leonard I. Kalinowski J. LumaxL: J. LumaxL: Name of Person Signing Signature Date Name of Person Signing Signature Date Name of Person Signing Nail documents to be recorded wi		
Execution Date: (a) and (c) June 12, 2003 Additional 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) B. Patent No.(s) 10/360,303 B. Patent No.(s) Additional numbers attached? □ Yes ☑ No 5. Name and address of party to whom correspondence concerning this document should be mailed: 6. Total number of applications and patents involved: Name: Leonard J. Kalinowski 7. Total fee (37 CFR 3.41)\$ 40.00 Internal Address: 1000 N. Water Street 8. Deposit account number: Street Address: 1000 N. Water Street 18-0882 Suite 2100 □ Attach duplicate copy of this page if paying by deposit account! It was a disgnature. It was and correct and any attached Copy is a true copy of the original document. Leonard J. Kalinowski. Statement and signature. J. [Lichowsk: 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. Leonard J. Kalinowski. Name of Person Signing Signature Date Name of Person Signing Signature Date <t< td=""><td>Security Agreement Change of</td><td>Name City: Evanston State: IL Zip: 60208</td></t<>	Security Agreement Change of	Name City: Evanston State: IL Zip: 60208
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10/360,303 Additional numbers attached? Yes Ø No 5. Name and address of party to whom correspondence concerning this document should be mailed: 6. Total number of applications and patents involved: Name: Leonard J. Kalinowski 7. Total fee (37 CFR 3.41)\$ 40.00 Internal Address: 1000 N. Water Street Ø. Enclosed Suite 2100 Ø. Authorized to be charged to deposit account Milwuakee, WI 53202 8. Deposit account number: Street Address: 1000 N. Water Street 18-0882 Suite 2100 (Attach duplicate copy of this page if paying by deposit account) Do Not Use THIS SPACE 9. 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. J. Muna 25, 2003 Leonard J. Kalinowski J. Signature Jate Name of Person Signing Signature Jate Mail documents to be recorded with required cover sheet, attachments, and documents: Date Mail document to be recorded with required cover sheet information to: Commissioner for Patents, Mail Stop Assignment Recordation Services P. O. Box 1450, Alexandria, VA 22313-1450 PATENT		application, the execution date of the application is:
5. Name and address of party to whom correspondence concerning this document should be mailed: 6. Total number of applications and patents involved: Name: Leonard J. Kalinowski 7. Total fee (37 CFR 3.41) \$ 40.00 Internal Address: 1000 N. Water Street Image: Correct and any attached copy is a true copy of the original document. Leonard J. Kalinowski 8. Deposit account number: Milwaukee State: WI Zip: 53202 Street Address: 1000 N. Water Street 18-0882 18-0882		B. Patent No.(s)
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Milwuakee, WI 53202 8. Deposit account number: Street Address: 1000 N. Water Street Suite 2100 18-0882 City: Milwaukee State: WI Zip: 53202 Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. 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. Leonard J. Kalinowski Name of Person Signing Total number of pages including cover sheet, attachments, and documents: Mail documents to be recorded with required cover sheet information to: Cormissioner for Patents, Mail Stop Assignment Recordation Services P. O. Box 1450, Alexandria, VA 22313-1450	Internal Address: 1000 N. Water Street	Enclosed
8. Deposit account number: Street Address: 1000 N. Water Street Suite 2100 18-0882 City: Milwaukee State: WI Zip: 53202 Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. 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. Leonard J. Kalinowski Name of Person Signing Signature Total number of pages including cover sheet, attachments, and documents: Mail documents to be recorded with required cover sheet information to: Commissioner for Patents, Mail Stop Assignment Recordation Services P. O. Box 1450, Alexandria, VA 22313-1450	Suite 2100	Authorized to be charged to deposit account
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	Commissioner for Paten	ts, Mail Stop Assignment Recordation Services
		REEL: 014222 FRAME: 0860

Attorney Docket No: <u>7462</u> For: [X] U.S. and/or [X] Foreign Rights For: [X] U.S. Application or [] U.S. Patent By: [X] Inventor(s) or [] Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to each ASSIGNOR identified below of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:	
(inventor(s) or	William L. Kath
· · · · · · · · · · · · · · · · · · ·	(Type or print name(s) of ASSIGNOR(S))
person(s) or entity(ies) who own the invention)	
	2426 Hastings Avenue
	Evanston, IL 60201
	(Address)
	United States
	(Nationality)
(inventor(s) or	Gino Biondini
	(Type or print name(s) of ASSIGNOR(S))
person(s) or entity(ies) who own the invention)	
	1498A West 7th Avenue
_	Columbus, OH 43212
	(Address)
_	Italian
	(Nationality)
(inventor(s) or	Sarah L. Fogal
	(Type or print name(s) of ASSIGNOR(S))
person(s) or entity(ies) who own the invention)	
	38 Whitford Road
_	Nashua, NH 03062
	(Address)
	United States
	(Nationality)

(If assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO add the following)

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Recorded or	1
Reel	
Frame	· · · · · · · · · · · · · · · · · · ·

hereby sells, assigns and transfers to

ASSIGNEE: ASSIGNEE:

Northwestern University (Type or print name of ASSIGNEE) 633 Clark Street (Address) Evanston, IL 60208 United States (Nationality)

(Address)

An individual who is a citizen of (Domicile or Nationality)

and the successors, assigns and legal representatives of the ASSIGNEE (complete one of the following)

[X] the entire right, title and interest

[] an undivided ______ percent (_____%) interest for the United States and its territorial possessions

(check the following box if foreign rights are also to be assigned)

[X] and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

METHOD AND SYSTEM FOR THE CONTROLLED PRODUCTION OF POLARIZATION MODE DISPERSION

(check and complete (a), (b), (c) or (d))

and which is found in

- (a) [] U.S. patent application executed on even date herewith
- (b) [] U.S. patent application executed on _
 - [] To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney, as named in the Declaration and Power of Attorney I executed for this invention on the execution date stated above, to insert below the

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filing date and application number when it becomes known.

- (c) [X] U.S. application serial no. <u>10/360,303</u> filed on <u>02/07/2003</u>
- (d) [] U.S. patent no. _____ issued _____
 - [] A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (e) if foreign application(s) is also being assigned)

(e) [] and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

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;

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.

IN WITNESS WHEREOF, I/We have hereunto set hand the date indicated below.

WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Signature of ASSIGNOR(S)

am L.K

William L. Kath

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RECORDED: 06/27/2003