

PATENT ASSIGNMENT

Electronic Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|---|--------------------------------|----------------|--------------------|------------|------------------------|------------|------------|------------|--------------|------------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Jonathan McFarland</td><td>12/18/2002</td></tr><tr><td>Sampath K.V. Karikalan</td><td>12/18/2002</td></tr><tr><td>Kevin Cote</td><td>12/18/2002</td></tr><tr><td>Wu Chun Chou</td><td>12/17/2002</td></tr></tbody></table> | Name | Execution Date | Jonathan McFarland | 12/18/2002 | Sampath K.V. Karikalan | 12/18/2002 | Kevin Cote | 12/18/2002 | Wu Chun Chou | 12/17/2002 | |
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| Wu Chun Chou | 12/17/2002 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| Name: | Primarion, Inc. | | | | | | | | | | |
| Street Address: | 2507 West Geneva | | | | | | | | | | |
| City: | Tempe | | | | | | | | | | |
| State/Country: | ARIZONA | | | | | | | | | | |
| Postal Code: | 85282 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Patent Number:</td><td>6960031</td></tr></tbody></table> | Property Type | Number | Patent Number: | 6960031 | | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Patent Number: | 6960031 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
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| Correspondent Name: | Daniel J. Noblitt | | | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | 10058.1300 | | | | | | | | | | |
| NAME OF SUBMITTER: | Daniel J. Noblitt | | | | | | | | | | |

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PATENT
REEL: 018552 FRAME: 0709

Total Attachments: 3

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PATENT

REEL: 018552 FRAME: 0710

Express Mail No. EV198641180US

UTILITY PATENT

ASSIGNMENT

WHEREAS, the undersigned inventors (hereinafter "ASSIGNOR") of the addresses indicated below, are the inventors of "APPARATUS AND METHOD OF PACKAGING TWO DIMENSIONAL PHOTONIC ARRAY DEVICES", for which an application for Letters Patent of the United States was filed on December 18, 2002, and assigned Serial Number TBD;

AND WHEREAS, PRIMARION, INC. (hereinafter "ASSIGNEE"), with an office at 2507 West Geneva; Tempe, Arizona 85282, is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the ASSIGNOR's full and exclusive right to the invention as described in the aforesaid application, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue any Letters Patent issuing from or claiming priority to said application to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND HEREBY AGREES to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date written below by ASSIGNOR:

First Named Inventor: Jonathan McFarland

Signature: [Signature] Date: 12/18/07

Residence address: 9607 S. 43rd Street, Phoenix, AZ 85044

Primarion No. 0221


Third Named Inventor: Sampath K.V. Karikalan

Signature: [Signature] Date: 12/18/02

Residence address: 5352 W Geronimo St, Chandler AZ 85226
13820 South 44th St., #1067, Phoenix, AZ 85044

STATE OF Arizona)
County of Maricopa) ss.

On this 18 day of December, 2002, before me, a notary public in and for said county, appeared _____, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)  Notary Public State of Arizona
County
Wendy Kelly McCarthy
Expires February 14, 2005

[Signature]
Wendy Kelly McCarthy / Notary Public

My commission expires:

February 14, 2005


Fourth Named Inventor: Kevin Cote

Signature: [Signature] Date: 12/18/02

Residence address: 1411 E. Horse Shoe Drive, Chandler, AZ, 85249

STATE OF Arizona)
County of Maricopa) ss.

On this 18th day of December, 2002, before me, a notary public in and for said county, appeared _____, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)  Notary Public State of Arizona
County
Wendy Kelly McCarthy
Expires February 14, 2005

[Signature]
Wendy Kelly McCarthy / Notary Public

My commission expires:

February 14, 2005

Fifth Named Inventor: Wu Chun Chou

Signature: *[Signature]* Date: 12/17/02

Residence address: 3540 S. Camellia Pl., Chandler, AZ 85248

STATE OF Arizona)
) ss.
County of Maricopa)

On this 17 day of December, 2002, before me, a notary public in and for said county, appeared _____, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)



Notary Public State of Arizona
County
Wendy Kelly McCarthy
Expires February 14, 2005

[Signature]
Wendy Kelly McCarthy / Notary Public

My commission expires:

February 14, 2005