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DUANE A. SATORIUS 8-20-04  
Additional name(s) of conveying party(ies) attached?  Yes  No

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Internal Address: ATTN: OFFICE OF  
GENERAL COUNSEL (IP&T)  
SUITE 6542  
Street Address: 9800 SAVAGE ROAD  
City: FT. MEADE State: MD Zip: 20755-  
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Internal Address: ATTN: OFFICE OF  
GENERAL COUNSEL (IP&T)  
SUITE 6542  
Street Address: 9800 SAVAGE ROAD  
City: FT. MEADE State: MD Zip: 20755-6542

6. Total number of applications and patents involved:   
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10/923176  
082004

PATENT  
REEL: 015725 FRAME: 0169

**ASSIGNMENT**

(Government Employee)

**TITLE:** Photonic Integrated Circuit and Method of Fabricating Same

**INVENTOR:** Duane A. SATORUS

I, the undersigned inventor, in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-identified invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Director, National Security Agency, the entire right, title, and interest throughout the world in and to the above-identified invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

2. Agree to provide any further information within my knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of the interferences and recording of title to patent applications and patents.

INVENTOR: Duane A Satorius

ADDRESS: (City) Fulton (County) Howard  
(State) MD

DATE: Aug. 19, 2004

SIGNATURE: Duane Satorius

State of ) Maryland  
County of ) Baltimore City

On 19 August 2004 (date), known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he or she executed the same as their own free act and deed.

Jill Panson  
(Signature)

(SEAL)

Notary Public of \_\_\_\_\_  
**JILL PANIAN**  
**NOTARY PUBLIC STATE OF MARYLAND**  
**My Commission Expires May 7, 2005**  
My Commission Expires on \_\_\_\_\_

**ASSIGNMENT**

(Government Employee)

**TITLE:**

Photonic Integrated Circuit and Method of Fabricating Same

**INVENTOR:**

DUANE A. SATORUS

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State of ) MARYLAND  
County of ) Baltimore City

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Jill Panian  
(Signature)

(SEAL) Notary Public of \_\_\_\_\_  
**JILL PANIAN**  
**NOTARY PUBLIC STATE OF MARYLAND**  
My Commission Expires May 7, 2005  
My Commission Expires on \_\_\_\_\_