


FORM PTO-1619A

03-12-2001



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U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**  
  
Our File 18-24 US

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**Submission Type**

☐ New  
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Reel # 010336 Frame # 0178

**Conveyance Type**

☒ Assignment      ☐ Security Agreement  
☐ License              ☐ Change of Name  
☐ Merger              ☐ Other:

**Conveying Party(ies)**

☐ Mark if additional names of conveying parties attached

		Execution Date		
		Month	Day	Year
First Party Name	Jacques Albert	Oct	8	1999
Second Party Name	Francois Bilodeau	Oct	8	1999
Third Party Name	Kenneth O. Hill	Oct	13	1999
Fourth Party Name	Derwyn C. Johnson	Oct	12	1999
Fifth Party Name	Stephen J. Mihailov	Oct	12	1999

**Receiving Party**

☐ Mark if additional names of receiving parties attached

Her Majesty the Queen in Right of Canada as Represented by the Minister of Industry

Ottawa  
City

Ontario, Canada  
State/Country

K2H 8S2  
Zip/Postal Code

**Domestic Representative Name and Address**

Gordon Freedman  
Freedman & Associates  
117 Centrepointhe Drive, Suite 350  
Nepean, Ontario  
K2G 5X3 Canada

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FORM PTO-1619B

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U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT****Correspondent Name and Address****Tel:** (613) 274-7272Gordon Freedman  
Freedman & Associates  
117 Centrepointe Drive, Suite 350  
Nepean, Ontario  
K2G 5X3 Canada**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

3

**Application Number(s) or Patent Number(s)**☐ Mark if additional names of receiving parties attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09/421,234

Patent Number(s)

If this document is being filed together with a **new** Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

**Number of Properties**

Enter total number of properties involved.

1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$40.00

Method of Payment:

Enclosed ☐Deposit Account ☒

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

50-1142

Authorized to charge additional fees:

Yes ☒No ☐**Statement of 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. Charges to desposit account are authorized, as indicated herein.*

Gordon Freedman, Reg. No. 41,553



March 9, 2001

Name of Person Signing

Signature

Date

Form PTO-1596

RECORD

10-29-1999



101186395

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Patents and  
Trademarks Office  
File No: 18-24US

To the Honorable Commissioner of Patent.

and original documents or copy thereof

## 1. Name of conveying Party(ies):

Jacques Albert, Francois Bilodeau, Kenneth O. Hill, Derwyn C. Johnson, Stephen J. Mihailov

Additional name(s) of conveying party(ies) attached? Yes ☒ No

## 2. name and address of receiving party(ies)

Name: Her Majesty the Queen in Right of Canada  
As represented by the Minister of Industry  
through Communications Research Centre

## 3. Nature of Conveyance:

☒ Assignment

Security Agreement

Merger

Change of Name

Street Address: P.O. Box 11490, Station "H"

City: Ottawa

Province: Ontario

Postal Code: K2H 8S2

Country: Canada

Additional name(s) & addresses attached? Yes ☒ NoExecution Date: October 8, 1999, October 13, 1999,  
October 12, 1999

## 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:  
October 8, 1999, October 13, 1999, October 12, 1999

## A. Patent Application No.(s)

## B. Patent No.(s)

Additional numbers attached? Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Neil Teitelbaum and Associates  
Registered Patent and Trademark Agents Limited

Street Address: 834 Colonel By Drive

City: Ottawa

Province: Ontario

Postal Code: K1S 5C4

Country: Canada

## 1. Total number of applications and patents involved 1

## 7. Total fee (37 CFR 3.41) .....\$40.00

☒ Enclosed

Authorized to be charged to deposit account

8. Deposit account number: \_\_\_\_\_  
(attach duplicate copy of this sheet if paying by deposit acct)

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## 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.

Neil Teitelbaum

Name of Person Signing

Signature

October 19, 1999

Date

Total number of pages including cover sheet, attachments and document 6

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Washington D.C. 20231

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PATENT  
REEL: 011380 FRAME: 0643

File No: 18-24 US

**ASSIGNMENT**

Whereas, **Jacques Albert, Francois Bilodeau, Kenneth O. Hill, Derwyn C. Johnson, Stephen J. Mihailov**, citizens of **Canada** respectively, whose full post office addresses are: **33 Moncion, Hull, Quebec, J9A 1K4, Canada; 149 Corkstown Road, Nepean, Ontario, K2H 1B8, Canada; 1 Binning Court, Kanata, Ontario, K2K 1B2, Canada; 43 Stillwater Drive, Nepean, Ontario, K2H 5K3, Canada; and 314 Zephyr Avenue, Ottawa, Ontario, K2B 5Z8, Canada**, respectively, have made an invention as described in the application for Letters Patent in the United States of America entitled.

**POLARIZATION INSENSITIVE GRATING IN A PLANAR CHANNEL OPTICAL WAVEGUIDE AND METHOD TO ACHIEVE THE SAME**

filed herewith.

And WHEREAS said invention was made while acting within the scope of our employment as Public Servants, as defined by the Public Servants Inventions Act, being Chapter P-31 of the Revised Statutes of Canada 1970, on behalf of the Ministry of Industry, we do hereby acknowledge and agree that all our rights to the said invention is by that Act vested in **Her Majesty the Queen in Right of Canada, as represented by the Minister of Industry;**

and WHEREAS **HER MAJESTY THE QUEEN IN RIGHT OF CANADA**, as represented by the **Minister of Industry**, having its principal place of business at **Communications Research Centre, P.O. Box 11490, Station H, Ottawa, Ontario, Canada, K2H 8S2** (hereafter Assignee), is desirous of acquiring the entire right, title and interest in and to said application for Letters Patent;

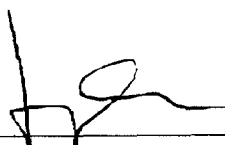
NOW, THEREFORE, in consideration of ONE DOLLAR (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, by these presents

do sell, assign and transfer unto **Her Majesty the Queen in Right of Canada, as represented by the Minister of Industry**, the full and exclusive right, for the territory of the United States Of America, and all other countries, in and to the said invention, and we hereby request the Commissioner of Patents and Trademarks to issue said Letters Patents to said Assignee, for the sole use and behoof of the Assignee, and its legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by ourselves had this assignment and sale not been made.

We hereby authorize and request the Patent and Trademark Office Officials in the United states of America to issue any and all of said Letters Patent, when granted to said Assignee, as the Assignee of our entire right, title and interest in and to the same, for the sole use and enjoyment of said Assignee, its successors and assigns.

Further, we agree to execute all papers and to give such lawful testimony and to perform such other lawful acts as the said Assignee, its successors and assigns may require to enable it or them to procure Letters Patent on said invention or reissues or extensions thereof in the United States of America and/or to hold, enforce or convey said Letters Patent, reissues or extension.

Executed this 8 day of OCTOBER 1999.  
at Nepean, Canada.

  
\_\_\_\_\_  
Jacques ALBERT

**Declaration by Witness**

I, Donna Richardson, whose full post office address is 1665 Richardson  
Kanata, Ont. K2T 1K5 say:

That I was personally present and did see **Jacques ALBERT** who is personally  
known to me duly sign and execute the above Assignment.

Donna Richardson  
Signature of Witness

Executed this 8<sup>th</sup> day of October 1999.  
at Neyrac, Canada.

Francois Biodeau  
**Francois BILODEAU**

**Declaration by Witness**

I, Donna Richardson, whose full post office address is 1665 Richardson  
Kanata, Ont. K2T 1K5 say:

That I was personally present and did see **Francois BILODEAU**, who is personally  
known to me duly sign and execute the above Assignment.

Donna Richardson  
Signature of Witness

Executed this 13 day of October 1999.  
at Neyrac, Canada.

Kenneth O. Hill  
**Kenneth O. HILL**

**Declaration by Witness**

I, Donna Richardson, whose full post office address is 1665 Richardson  
Kanata, Ont K2R 1K5 say:

That I was personally present and did see **Kenneth O. HILL**, who is personally known to me duly sign and execute the above Assignment.

Donna Richardson  
Signature of Witness

Executed this 12th day of October 1999.  
at Nepesin, Canada.

Derwyn C. Johnson  
**Derwyn C. JOHNSON**

**Declaration by Witness**

I, Donna Richardson, whose full post office address is 1665 Richardson  
Kanata, Ont K2R 1K5 say:

That I was personally present and did see **Derwyn C. JOHNSON**, who is personally known to me duly sign and execute the above Assignment.

Donna Richardson  
Signature of Witness

Executed this 12 day of October 1999.  
at Nepesin, Canada.

Stephen J. Mihailov  
**Stephen J. MIHAILOV**

**Declaration by Witness**

I, Donna Richardson, whose full post office address is 1665 Richardson  
Kanata, Ont K2T1C5 say:

That I was personally present and did see **Stephen J. MIHAILOV**, who is  
personally known to me duly sign and execute the above Assignment.

Donna Richardson  
Signature of Witness