

FORM PTO-1595

1-31-92

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

10-29-2002



To the Honorable Commissioner of Patents :

original documents or copy thereof.

102264698

1. Name of conveying party(ies): Hiroki Ikeda

Name and address of receiving party(ies):

Shigeki Kitajima

Name: Hitachi America, Ltd.

Shoichi Hanatani

Internal Address : Intellectual Property Group

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

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Street Address : 2000 Sierra Point Parkway

City Brisbane State CA Zip 94005

Execution Date : 10/04/02

Additional name(s) and 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 : 10/04/02

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:

6. Total number of applications and patents involved: 1

Name: David Cunningham

Internal Address : Hitachi America, Ltd.

Legal Group

7. Total Fee (37 CFR 3.41):.....\$

- ☒ Enclosed  
☐ Authorized to be charged to Deposit Account

Street Address : 50 Prospect Avenue

8. Deposit Account Number:

City: Tarrytown State: NY Zip 10591

08-2393

(Attach duplicate copy of this page if paying by deposit account)

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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.

David Cunningham  
 Name of Person Signing

David Cunningham  
 Signature

10/18/02  
 Date

Total number of pages comprising cover sheet: 1

OMB No. 0651-0011 (exp. 4/94)

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EXPRESS MAIL NO.

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PATENT

REEL: 013415 FRAME: 0246

**PATENT ASSIGNMENT**

HAL 219

The undersigned, as an inventor of the invention and/or discovery entitled **OPTICAL PROTECTION SWITCHING USING 2 BY 2 SWITCHING FUNCTIONS** desires to assign to

Hitachi America, Ltd., a corporation organized and existing under the laws of the United States and whose corporate offices are located at  
2000 Sierra Point Parkway  
Brisbane, CA 94005

which, together with its successors and assigns, hereinafter called "Assignee", is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or any part thereof acquired by Assignee.


NOW, THEREFORE, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, I hereby without reservation:

1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said invention and discovery, any and all applications for Letters Patent of the United States of America, any and all other applications for Letters Patent on said invention and discovery in whatever countries, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said invention or discovery or upon said applications, and all Letters Patent and reissues and extensions of Letters Patent granted for said invention and discovery or upon said applications and every priority right that it may be predicated upon or arise from said inventions, said discovery, said applications and said Letters Patent;
2. Authorize Assignee to file patent applications in any or all countries on any or all of said invention and discovery in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;
4. Warrant that I have not knowingly conveyed to others any right in said invention, discovery, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said invention or discovery; and that I have the right to assign the same to Assignee without encumbrance;
5. Bind my heirs and legal representatives, as well as myself, to do, upon Assignee's request and at its expense, but without additional consideration to me or them, all acts reasonable serving to assure that said invention and discovery, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me or my heirs or representatives if this Assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions,

specifications, and others, and all assignments, disclaimers, and law affidavits in the form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said invention and discovery or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures and reduction to practice of said invention and discovery.

The effective date of this instrument is the 4<sup>th</sup> day of October, 2002.

**First Assignor's Name:** Ikeda (last) Hiroki (first) (no middle)  
Citizenship: Japan

Signature:  10/04/2002

**Second Assignor's Name:** Kitajima (last) Shigeki (first) (no middle)  
Citizenship: Japan

Signature: \_\_\_\_\_

**Third Assignor's Name:** Hanatani (last) Shoichi (first) (no middle)  
Citizenship: Japan

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_.

STATE OF \_\_\_\_\_ )  
 ) ss.:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_, before me, the undersigned authority, personally appeared the above-named individuals to me known and each known to me to be the individual who is described in and who executed the foregoing Assignment, and who duly acknowledged to me that he/she executed the same as his/her own voluntary act and deed for the uses and purposes therein specified.

Notary Public h:\\Patent\\Form\\Assign1

**PATENT ASSIGNMENT**

HAL 219

The undersigned, as an inventor of the invention and/or discovery entitled **OPTICAL PROTECTION SWITCHING USING 2 BY 2 SWITCHING FUNCTIONS** desires to assign to

Hitachi America, Ltd., a corporation organized and existing under the laws of the United States and whose corporate offices are located at  
2000 Sierra Point Parkway  
Brisbane, CA 94005

which, together with its successors and assigns, hereinafter called "Assignee", is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or any part thereof acquired by Assignee.

NOW, THEREFORE, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, I hereby without reservation:

1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said invention and discovery, any and all applications for Letters Patent of the United States of America, any and all other applications for Letters Patent on said invention and discovery in whatever countries, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said invention or discovery or upon said applications, and all Letters Patent and reissues and extensions of Letters Patent granted for said invention and discovery or upon said applications and every priority right that it may be predicated upon or arise from said inventions, said discovery, said applications and said Letters Patent;
2. Authorize Assignee to file patent applications in any or all countries on any or all of said invention and discovery in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;
4. Warrant that I have not knowingly conveyed to others any right in said invention, discovery, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said invention or discovery; and that I have the right to assign the same to Assignee without encumbrance;
5. Bind my heirs and legal representatives, as well as myself, to do, upon Assignee's request and at its expense, but without additional consideration to me or them, all acts reasonable serving to assure that said invention and discovery, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me or my heirs or representatives if this Assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions,

specifications, and others, and all assignments, disclaimers, and law affidavits in the form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said invention and discovery or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures and reduction to practice of said invention and discovery.

The effective date of this instrument is the 2nd day of October, 2002.

**First Assignor's Name:** Ikeda (last) Hiroki (first) (no middle)  
Citizenship: Japan

Signature: \_\_\_\_\_

**Second Assignor's Name:** Kitajima (last) Shigeki (first) (no middle)  
Citizenship: Japan

Signature: Shigeki Kitajima 10/02/2002

**Third Assignor's Name:** Hanatani (last) Shoichi (first) (no middle)  
Citizenship: Japan

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_.

STATE OF )  
COUNTY OF ) ss.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 200\_\_, before me, the undersigned authority, personally appeared the above-named individuals to me known and each known to me to be the individual who is described in and who executed the foregoing Assignment, and who duly acknowledged to me that he/she executed the same as his/her own voluntary act and deed for the uses and purposes therein specified.

Notary Public h:\Patent\Form\Assign1

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1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said invention and discovery, any and all applications for Letters Patent of the United States of America, any and all other applications for Letters Patent on said invention and discovery in whatever countries, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said invention or discovery or upon said applications, and all Letters Patent and reissues and extensions of Letters Patent granted for said invention and discovery or upon said applications and every priority right that it may be predicated upon or arise from said inventions, said discovery, said applications and said Letters Patent;
2. Authorize Assignee to file patent applications in any or all countries on any or all of said invention and discovery in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;
4. Warrant that I have not knowingly conveyed to others any right in said invention, discovery, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said invention or discovery; and that I have the right to assign the same to Assignee without encumbrance;
5. Bind my heirs and legal representatives, as well as myself, to do, upon Assignee's request and at its expense, but without additional consideration to me or them, all acts reasonable serving to assure that said invention and discovery, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me or my heirs or representatives if this Assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions,

specifications, and others, and all assignments, disclaimers, and law affidavits in the form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said invention and discovery or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures and reduction to practice of said invention and discovery.

The effective date of this instrument is the 3rd day of October, 2002.

**First Assignor's Name:** Ikeda (last) Hiroki (first) (no middle)  
Citizenship: Japan

Signature: \_\_\_\_\_

**Second Assignor's Name:** Kitajima (last) Shigeki (first) (no middle)  
Citizenship: Japan

Signature: \_\_\_\_\_

**Third Assignor's Name:** Hanatani (last) Shoichi (first) (no middle)  
Citizenship: Japan

Signature: [Signature]

Date: 10/03/02

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this \_\_\_\_ day of \_\_\_\_\_, 200\_\_.

STATE OF \_\_\_\_\_ )  
 ) ss.:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_ day of \_\_\_\_\_, 200\_\_, before me, the undersigned authority, personally appeared the above-named individuals to me known and each known to me to be the individual who is described in and who executed the foregoing Assignment, and who duly acknowledged to me that he/she executed the same as his/her own voluntary act and deed for the uses and purposes therein specified.

Notary Public h:\Patent\Form\Assign1