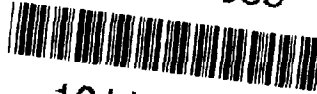


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08-27-1999



101128959

Documents or copy thereof.

To the Honorable Commissioner of Patents and

MD 8-18-99

1. Name of conveying party(ies)
Alan J. Kirby
Additional name(s) of conveying party(ies) attached? [] Yes [X] No

2. Name and address of receiving party(ies)
Name: Massachusetts Institute of Technology
Internal Address:

3. Nature of conveyance:
[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other
Execution Date: August 16, 1999

Street Address: 77 Massachusetts Avenue
City: Cambridge State: MA ZIP: 02139
Additional name(s) & address(es) attached? [] Yes [X] 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: August 16, 1999
A. Patent Application No.(s) 09/376504

B. Patent No.(s)

08/25/1999 ABELMAN 00000053 09376504
04 FEB 1999
Name and address of party to whom correspondence concerning document should be mailed:
Name: James M. Smith
Internal Address:
Hamilton, Brook, Smith & Reynolds, P.C.
Street Address: Two Militia Drive
City: Lexington State: MA ZIP: 02421-4799

Additional numbers attached? [] Yes [X] No
6. Total number of applications and patents involved: [1]
7. Total Fee (37 C.F.R. 3.41)..... \$40.00
[X] Enclosed
[X] Authorized to charge any deficiencies or credit any overpayment to deposit account
[] Authorized to be charged to deposit account
8. Deposit account number:
08-0380
(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.
James M. Smith
Name of Person Signing
Signature
8/17/99
Date

Total number of pages including cover sheet, attachments, and document: [3]

FILED U.S. PTO
09/376504
08/16/99

ASSIGNMENT

WHEREAS, I, Alan J. Kirby, have invented a certain improvement in HYBRID ELECTRONIC/OPTICAL SWITCH SYSTEM, described in an application for Letters Patent of the United States, the specification of which:

is being executed on even date herewith and is about to be filed in the United States Patent Office;

was filed on _____ as Application No. _____;

was patented under U.S. Patent No. _____ on _____.

WHEREAS, Massachusetts Institute of Technology (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 desires to acquire an interest therein in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and 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 me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal the date set forth below.

Inventor's Signature:

Alan J. Kirby

Alan J. Kirby

State/Commonwealth

of New Hampshire

County of Hillsborough

Then personally appeared before me the above-named Alan J. Kirby and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 16 day of August, 1999.

(SEAL)

Mary E. Simpson

Notary Public

Mary E. Simpson

(print name)

My Commission expires 8/26/03

MARY E SIMPSON

My Commission Expires August 26 2003

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