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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office



To the Honorable Commissioner of Patents:

100839822

original documents or copy thereof.

1. Name of conveying party(ies): John Khoury and Hai Tao

Additional name(s) of conveying party(ies) attached?
[] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other _____

2. Name and address of receiving party(ies)

Name: The Trustees of Columbia University in the City of New YorkAddress: 116th Street and BroadwayCity: New York State: NY Zip: 10027Additional name(s) and address(es) attached?
[] Yes [X] NoExecution Date: Aug. 19 & 29, 1998

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 _____

A. Patent Application No.(s)

09/118,417

B. Patent No.(s)

Additional numbers attached?

[] Yes

[X] No

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

Name: Henry TangBAKER & BOTTS, L.L.P.Address: 30 Rockefeller Plaza - 44 Fl.City: New York State: NY Zip: 10112

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):

\$ 40.00

[X] Enclosed

[] Authorized to be charged to deposit account

8. Deposit account number:

02-4377

(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 instrumentation is true and correct and any attached copy is a true copy of the original document.*Henry Tang

Name of Person Signing

Signature

September 17, 1998

Date

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

4

ASSIGNMENT

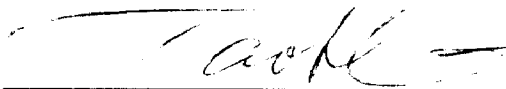
WHEREAS, WE, JOHN KHOURY and HAI TAO, citizens of the United States and The People's Republic of China, respectively, both residing in New Jersey, whose post office addresses are 36 Jane Road, New Providence, New Jersey 07974 and 116B Donor Avenue, Elmwood Park, New Jersey 07407, respectively, have made an invention entitled "A FREQUENCY TRANSLATING SIGMA-DELTA MODULATOR" as set forth and described in the application for Letters Patent of the United States, Serial No. 09/118,417, filed July 17, 1998; and

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK (hereinafter "COLUMBIA"), having its principal place of business at 116th Street and Broadway, New York, New York 10027, is desirous of acquiring the whole right, title and interest in and to said application for Letters Patent, and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said JOHN KHOURY and HAI TAO, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said COLUMBIA, and other valuable considerations unto us moving from said COLUMBIA, at or before the ensealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said COLUMBIA, its successors and assigns, the entire right, title and interest in and to the said invention entitled "A FREQUENCY TRANSLATING SIGMA-DELTA MODULATOR", as set forth and described in application for Letters Patent, Serial No. 09/118,417, filed July 17, 1998, and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said JOHN KHOURY and HAI TAO, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said COLUMBIA, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COLUMBIA, its successors and assigns;

AND WE, the said JOHN KHOURY and HAI TAO., for the considerations aforesaid, do


HAI TAO

STATE OF N.Y.)
) :ss:
COUNTY OF N.Y.)

BE IT KNOWN, that on this 19th day of Aug, 1998, before me personally came HAI TAO, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned. SUBSCRIBED AND SWORN before me, the undersigned authority, by on this 19th day of Aug, 1998.


Notary Public

FLORENCE J. GRANT
Notary Public, State of New York
No. 31-4666482
Qualified in New York County
Commission Expires March 30, 2000