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9.21.98	09-28-1998			RTMENT OF COMMERCE
			Patent and Trademark Office	
To the Honorable Commissioner of Patents	100839822		riginal documents or copy the	
1. Name of conveying party(ies): John Khou		Name and a	ddres are coiving party (ies)	0
Additional name(s) of conveying party(ies) [] Yes [X] No	attached?	<u>City of Ne</u>	w York	iversity in the
3. Nature of conveyance:		Address: <u>11</u>	6 th Street and Broadway	
[X] Assignment[] Merger[] Security Agreement[] Change of Name		City: <u>New York</u> State: <u>NY</u> Zip: <u>10027</u> Additional name(s) and address(es) attached? [] Yes [X] No		
[] Other				
Execution Date: Aug. 19 & 29, 1998				
4. Application number(s) or patent number(s)				
If this document is being filed together with a ne	w application, the execution	on date of the a	application is	
A. Patent Application No.(s) 09/118,417	B.	Patent No.(s)	
L				
Additional n	mbers attached?	[] Yes	[X] No	
5. Name and address of party to whom corresp concerning document should be mailed:	bondence 6.	Total numbe	er of applications and patents in	nvolved: 1
Name: <u>Henry Tang</u>	7.	Total fee (37	7 CFR 3.41):	\$ <u>40.00</u>
BAKER & BOTTS, L.L.P.		[X] Enclos [] Authoriz	ed ed to be charged to deposit acc	count
Address: <u>30 Rockefeller Plaza - 44 Fl.</u>			ount number:	
City: <u>New York</u> State: <u>NY</u> Zip: <u>10112</u>		02-4377 (Attach dupl account)	licate copy of this page if payin	ng by deposit
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9. Statement and signature				
To the best of my knowledge and belief, the original document.	foregoing instrumentation	n is true and co	rrect and any attached copy is	a true copy of the
Henry Tang	Z	enn /1		ptember 17, 1998
Name of Person Signing		Si	gnature 50	Date
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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

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hereby covenant and agree to and with said COLUMBIA, its successors and assigns, that WE have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that WE, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said COLUMBIA, its successors and assigns, may be required or necessary more effectively to secure to and vest in said COLUMBIA, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that I will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, WE, the said JOHN KHOURY and HAI TAO., have hereunto set our hand and seal in New York, New York this 29 day of 406, 1998.

STATE OF Note) :ss.: COUNTY OF UNION

BE IT KNOWN, that on this 29 day of August, 1998, before me personally came JOHN KHOURY, 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 9 day of August 1998.

Notary Public

CAROLE G. WIRTH NOTARY PUBLIC OF NEW JERSEY My Commission Expires Jan. 31, 2000

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HAI TAO

STATE OF $\mathbf{N} \cdot \mathbf{Y}$.) COUNTY OF $\mathbf{N} \cdot \mathbf{Y} \cdot$) :ss:

BE IT KNOWN, that on this $\underline{19}^{n}$ day of $\underline{Ave}_{}$, 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 $\underline{19}^{n}$ day of $\underline{Ave}_{}$, 1998.

Horner &

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

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