

PATENT ASSIGNMENT

Electronic Version v07

Stylesheet Version v02

SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	ASSIGNMENT OF ASSIGNOR'S INTEREST				
CONVEYING PARTY DATA					
Name		Execution Date			
Takaaki Koga		2001-02-01			
RECEIVING PARTY DATA					
Name	Street Address	Internal Address	City	State/Country	Postal Code
Massachusetts Institute of Technology	77 Massachusetts Avenue		Cambridge	MASSACHUSETTS	02139
PROPERTY NUMBERS Total: 1					
Property Type		Number			
Application Number		09711160			
CORRESPONDENCE DATA					
FAX NUMBER: 781-401-9966					
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>					
When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.					
CUSTOMER NUMBER: 022494					
NAME OF PERSON SIGNING:		David W. Rouille			
DATE SIGNED:		2003-07-10			
Total Attachments: 4 source=assign 1.tif source=assign 2.tif source=assign 3.tif source=assign 4.tif					

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PATENT
REEL: 013789 FRAME: 0498

ASSIGNMENT

Whereas we, the undersigned, Takaaki Koga, Mildred S. Dresselhaus, Xiangzhong Sun, and Steven B. Cronin, hereby have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled, SUPERLATTICE STRUCTURES HAVING SELECTED CARRIER POCKETS AND RELATED METHODS identified as Attorney Docket No. MIT-063AUS and Client Case No. 8633, which application was executed by us on _____, filed on November 9, 2000 assigned Application No. 09/711,160. In the event that the execution date, filing date and/or Application No. are not entered above at the time I execute this document, and if such information is deemed necessary, I hereby authorize and request my attorneys at Daly, Crowley & Mofford, LLP, 275 Turnpike Street, Suite 101, Canton, MA 02021-2310, to insert above the execution date, filing date and/or Application No. of said application.

Whereas, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, a Massachusetts corporation having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02139, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue, re-examination and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names 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 and Trademarks 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 we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

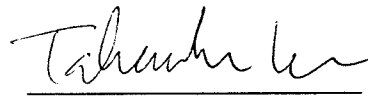
5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment as an instrument under seal on the dates indicated next to our names.

State or Commonwealth of _____

County Aitsugi, Japan

Dated 02/01/2001


Takaaki Koga

On this _____ day of _____, 2000, before me appeared Takaaki Koga, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

Notary Public

[seal]

登簿平成13年第51号

認 証

囑託人 古賀貴亮 は本公証人の面前で別紙書

面に署名した

よつてこれを認証する

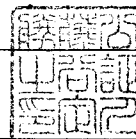
平成13年2月1日 日本職役場において

神奈川県厚木市中町3丁目13番8号

横浜地方法務局所属

公証人

藤谷定勝



公証人役場

Registered No.51

NOTARIAL CERTIFICATE

This is to certify that Takaaki Koga has
affixed signature in my very presence to
the attached document.

Dated this 1 day of February, 2001.

Sadakatsu Fujiya

SADAKATSU FUJIYA

N O T A R Y

3-13-8 NAKACHO, ATSUGI, KANAGAWA,

JAPAN

公 証 人 役 場