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9/2/04

102836242

Attorney Docket No.: 42P19682

175499 U.S. PTO
10/933652



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To the Director of the United States Patent and Trademark Office. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
 1. Ansheng Liu 2. Mario J. Paniccia
 3. Haisheng Rong

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

2. Name and address of receiving party(ies):
 Name: Intel Corporation

Internal Address: _____

3. Nature of Conveyance

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date(s): September 1 & 2, 2004

Street Address: 2200 Mission College Blvd.

City: Santa Clara State/Province: CA Zip: 95052
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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: 09/01/04 & 09/02/04

A. Patent Application No.(s)
10933652

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Blakely, Sokoloff, Taylor & Zafman LLP
 Internal Address: James Y. Go
 Street Address: 12400 Wilshire Boulevard, 7th Floor
Los Angeles, California 90025

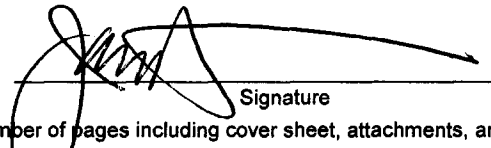
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PATENT
REEL: 015774 FRAME: 0785

Attorney's Docket

ASSIGNMENT

PATENT

No.: 42P19682 (For Execution Prior To Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we,
Ansheng Liu, Mario J. Paniccia, and Haisheng Rong,
hereby sell, assign, and transfer to Intel Corporation
a corporation of Delaware, having a principal place of business at
2200 Mission College Blvd., Santa Clara, California 95052, ("Assignee"),
and its successors, assigns, and legal representatives, the entire right, title, and interest for the
United States and all foreign countries, in and to any and all improvements that are disclosed in
the application for the United States patent that has been executed by the undersigned prior
hereto or concurrently herewith on the dates indicated below and is entitled TWO-PHOTON
ABSORPTION GENERATED CARRIER LIFETIME REDUCTION IN SEMICONDUCTOR
WAVEGUIDE FOR SEMICONDUCTOR BASED RAMAN LASER AND AMPLIFIER,
and in and to said application and all divisional applications, continuation applications, continued
prosecution applications, continuation-in-part applications, substitute applications, renewal
applications, reissue applications, reexaminations, extensions, and all other patent applications
that have been or shall be filed in the United States and all foreign countries on any of said
improvements; and in and to all original patents, reissued patents, reexamination certificates, and
extensions, that have been or shall be issued in the United States and all foreign countries on
said improvements; and in and to all rights of priority resulting from the filing of said United States
application;

agree that said Assignee may apply for and receive a patent or patents for said
improvements in its own name; and that, when requested, without charge to, but at the expense
of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the
intent and purpose of this Assignment, the undersigned will execute all divisional applications,
continuation applications, continued prosecution applications, continuation-in-part applications,
substitute applications, renewal applications, reissue applications, reexaminations, extensions
and all other patent applications on any and all said improvements; execute all rightful oaths,
assignments, powers of attorney, and other papers; communicate to said Assignee, its
successors, assigns, and representatives all facts known to the undersigned relating to said
improvements and the history thereof; and generally assist said Assignee, its successors,
assigns, or representatives in securing and maintaining proper patent protection for said
improvements and for vesting title to said improvements, and all applications for patents and all
patents on said improvements, in said Assignee, its successors, assigns, and legal
representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no
assignment, grant, mortgage, license, or other agreement affecting the rights and property herein
conveyed has been made to others by the undersigned, and that full right to convey the same as
herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

09/01, 2004 Ansheng Liu
 Date Name: Ansheng Liu

09/01, 2004 Mario J. Paniccia
 Date Name: Mario J. Paniccia

09/02, 2004 Haisheng Rong
 Date Name: Haisheng Rong

_____, 20____
 Date Name:

_____, 20____
 Date Name:

_____, 20____
 Date Name:

Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:

09/01, 2004
 Date

09/01, 2004
 Date

09/02, 2004
 Date

_____, 20____
 Date

_____, 20____
 Date

_____, 20____
 Date

State of: _____ }
 County of: _____ }

Assignment Document Return Address:
 SS. BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
 12400 Wilshire Blvd., Seventh Floor
 Los Angeles, CA 90025-1026
 (206) 292-8600

On this ____ day of _____, 20____, before me, _____,
 the undersigned Notary Public, personally appeared _____
 personally known to me proved to me on the basis of satisfactory evidence to be the
 person(s) whose name(s) _____ subscribed to the within instrument, and acknowledged that
 executed it.
 WITNESS my hand and official seal.

 Notary's Signature