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Attorney Docket No.: 42P20625

112892 U.S. PTO
117026282

12/29/04

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1. Name of conveying party(ies):

Dmitri E. Nikonov

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:Street Address: 2200 Mission College Blvd.City: Santa Clara State/Province: CA Zip: 95052Country: USAExecution Date(s): 12/29/04Additional name(s) & address(es) attached? ☐ Yes ☒ 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:

December 29, 2004

A. Patent Application No.(s)

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 LLPInternal Address: Jan Little-WashingtonStreet Address: 12400 Wilshire Boulevard, 7th FloorLos Angeles, California 900256. Total number of applications and patents involved: 17. Total Fee (37 CFR 3.41).....\$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account

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PATENT
REEL: 016139 FRAME: 0983

Attorney's Docket

ASSIGNMENT**PATENT**No.: 42P20625

(For Execution Prior To Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I _____

the undersigned, Dmitri E. Nikonov

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 _____

NON-BLOCKING SWITCH HAVING CARBON NANOSTRUCTURES AND

MACH-ZEHNDER INTERFEROMETER

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:

| | |
|--------------------------------------|-----------------------------------------------------|
| <u>Dec 29</u> , 20 <u>04</u> Date | <u>Dmitri E. Nikonov</u> Name: Dmitri E. Nikonov |
| _____, 20____ Date | _____ Name: |
| _____, 20____ Date | _____ Name: |
| _____, 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:

| |
|--------------------------------------|
| <u>Dec 29</u> , 20 <u>04</u> Date |
| _____, 20____ Date |
| _____, 20____ Date |
| _____, 20____ Date |
| _____, 20____ Date |
| _____, 20____ Date |