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Attorney Docket No: 042390.P7475

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Name (1st party) Sean M. Koehl

10-21-99

Name (2nd party) Mario J. Panniccia

10-21-99

Name (3rd party) Dmitri E. Nikonov

10-21-99

Name (4th party) _____

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Area Code and Telephone Number 425-827-8600

Name James Y. Go

Address (line 1) BLAKELY SOKOLOFF TAYLOR & ZAFMAN, LLP

Address (line 2) 12400 Wilshire Blvd.

Address (line 3) 7th Floor

Address (line 4) Los Angeles, California 90025

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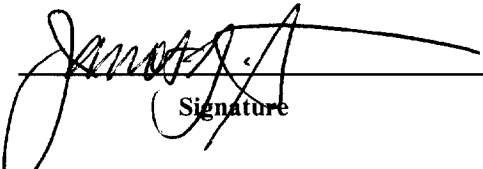
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No.: 042390.P7475 (For Execution Prior To Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, We
the undersigned, Sean M. Koehl, Mario J. Paniccia and 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 METHOD AND
APPARATUS FOR OPTICALLY MODULATING AN OPTICAL BEAM WITH A MULTI-PASS
WAVE-GUIDED OPTICAL MODULATOR

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:

21 October, 19 99
Date

[Signature]
Name: Sean M. Koehl

21 October, 19 99
Date

[Signature]
Name: Mario J. Paniccia

21 October, 19 99
Date

[Signature]
Name: Dmitri E. Nikonov

_____, 19____
Date

Name:

_____, 19____
Date

Name:

_____, 19____
Date

Name:

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

21 October, 19 99
Date

21 October, 19 99
Date

21 October, 19 99
Date

_____, 19____
Date

_____, 19____
Date

_____, 19____
Date

State of: _____}

County of: _____} SS.

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Assignment Document Return Address:

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
12400 Wilshire Blvd., Seventh Floor
Los Angeles, CA 90025-1026
(408) 720-8598

On this _____ day of _____, 19____, 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