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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

102079544

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Achintya K. Bhowmik and Nagesh K. Vodrahalli

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

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: 95052 Country: USA

4. Application Number(s) or patent number(s): 10/028,570

Additional name(s) & address(es) attached? No

5. Name and address of party to whom correspondence concerning document should be mailed: Charles K. Young, Blakely, Sokoloff, Taylor & Zafman LLP

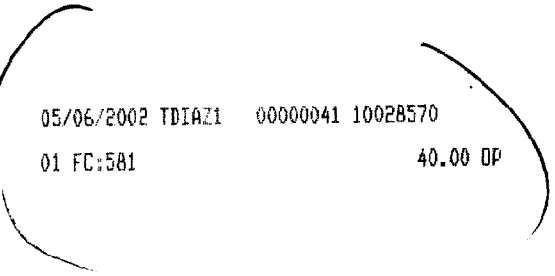
6. Total number of applications and patents involved: 1

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9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document. Charles K. Young, Reg. No. 39,435

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments Washington, D.C. 20231

Atty. Docket No.: 042390.P12640



PATENT REEL: 012848 FRAME: 0854

ASSIGNMENT

(For Execution After Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we
 the undersigned, Achintya K. Bhowmik and Nagesh K. Vodrahalli

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 was filed December 19, 2001 and assigned
 Application No. 10/028,570 and is entitled

**CRYSTAL-CORE FIBER MODE CONVERTER FOR LOW-LOSS POLARIZATION-
 INSENSITIVE PLANAR LIGHTWAVE CIRCUITS**

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.

Date: Apr, 11, 2002

Achintya K. Bhowmik
Name: Achintya K. Bhowmik

Date: Apr 12, 2002

Nagesh K. Vodrahalli
Name: Nagesh K. Vodrahalli

Date: _____, 20__

Name:

Date: _____, 20__

Name:

Date: _____, 20__

Name:

Date: _____, 20__

Name:

State of: _____ }

County of: _____ }

Assignment Document Return Address: *
SS. BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
12400 Wilshire Blvd., Seventh Floor
Los Angeles, California 90025-1026
(408) 720-8598

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