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U.S. Department of Commerce U.S. Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks, U.S. Patent and Trademark Office

1. Name of conveying party(ies): Narinder Kapany; Claire Gu; and Meric Ozcan

Additional name(s) of conveying parties attached? Yes No.

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other: _____

Execution Date: Narinder Kapany - July 10, 2001; Claire Gu - July 12, 2001; and Meric Ozcan - July 11, 2001

2. Name and address of receiving party(ies) Name: K2 Optronics, Inc. Internal Address: 580 College Avenue Street Address: _____ City: Palo Alto State: CA ZIP: 94306 Additional names and addresses attached? Yes [X] 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: _____ A. Patent Application No(s): 09/794,231 B. Patent No(s): _____ Additional numbers attached? Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: David N. Slone TOWNSEND AND TOWNSEND AND CREW LLP Two Embarcadero Center, 8th Floor San Francisco, California 94111-3834 (650) 326-2400

6. Total number of applications and patents involved 1 7. Total fee (37 CFR 3.41): -----\$40.00 [] Enclosed [X] Authorized to be charged to deposit account 8. Deposit account number: 20-1430 (Attach duplicate copy of this page if paying by deposit account)

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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 of copy of the original document. David N. Slone Name of Person Signing Atty. Reg. No. 28,572 Signature Date 7/20/01

Total number of pages including cover sheet, attachments and document 2

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

08/03/2001 GT0N11 00000004 201430 09794231 01 FC:581 40.00 CH

PATENT REEL: 012023 FRAME: 0071

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Narinder S. Kapany, of 2190 Greenways Drive, Woodside, CA 94062-1137, Claire Gu, of 68 Pasatiempo Drive, Santa Cruz, CA 95060; and Meric Ozcan, of 870 East El Camino Real #12, Mountain View, CA 94040, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: WAVELENGTH ADD DROP ELEMENT FOR
 CONFIGURABLE ADD DROP MULTIPLEXING

Filing Date: February 26, 2001

Application No.: 09/794,231; and

WHEREAS, K2 Optronics Inc., of 580 College Avenue, Palo Alto, CA 94306, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 10 July, 2001

N. S. Kapany
NARINDER S. KAPANY

Dated: July 12, 2001

Claire Gu
CLAIRE GU

Dated: July 11, 2001

Meric Ozcan
MERIC OZCAN