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Commissioner of Patents and Trademarks: Please record the attached

MEO 3-1-99

1. Name of conveying party(ies): Keiji TANAKA; Noboru EDAGAWA; Hidenori TAGA; and Shu YAMAMOTO Additional name(s) of conveying party(ies) attached: No	2. Name and address of receiving party(ies): Name: KDD Corporation Street Address: 3-2, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo, Japan Additional name(s) & address(es) attached? No		
3. Name of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: December 21, 1998; December 24, 1998; December 21, 1998; and December 24, 1998, respectively			
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: <table border="0"> <tr> <td data-bbox="50 1003 743 1171"> A. Patent Application No.(s) 09/206,512 </td> <td data-bbox="743 1003 1611 1171"> B. Patent No.(s) </td> </tr> </table> Additional numbers attached? No		A. Patent Application No.(s) 09/206,512	B. Patent No.(s)
A. Patent Application No.(s) 09/206,512	B. Patent No.(s)		
5. Please return the recorded document and address all correspondence to: CHRISTIE, PARKER & HALE, LLP P.O. Box 7068 Pasadena, CA 91109-7068 Attention: D. Bruce Prout	6. Total number of applications and patents involved..... 1 7. <input checked="" type="checkbox"/> Total fee enclosed (37 CFR 3.41): \$ 40.00 E 8. <input checked="" type="checkbox"/> Any deficiency or overpayment of fees should be charged or credited to Deposit Account No. 03-1728, except for payment of issue fees required under 37 CFR § 1.18. Please show our docket number with any credit or charge to our Deposit Account.		
10. <input type="checkbox"/> Explanatory letter is enclosed.			
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Date: February 19, 1999 By: <u><i>D. Bruce Prout</i></u> Name: D. Bruce Prout 626/795-9900 <i>I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231-9998 on:</i> Date: <u>2-19-99</u> <u><i>Keiji Tanaka</i></u> <i>Sergio F. Chacon, Jr.</i> Total number of pages including cover sheet, attachments, and document: 3			

Return to:
CHRISTIE, PARKER & HALE, LLP
Post Office Box 7068
Pasadena, CA 91109-7068

ASSIGNMENT

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

(1) Keiji TANAKA; Noboru EDAGAWA; Hidenori TAGA; and Shu YAMAMOTO

HEREBY SELL, ASSIGN AND TRANSFER TO

(2) KDD Corporation having a place of business at

(3) 3-2, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo, Japan

(hereinafter called "ASSIGNEE") the entire right, title and interest in and to any and all improvements which are disclosed in the application for United States Letters Patent entitled

(4) OPTICAL AMPLIFYING TRANSMISSION SYSTEM AND OPTICAL AMPLIFIER

which application was:

(a) executed by the undersigned on (5a) _____

(b) filed on (5b) December 07, 1998

and assigned Application No. 09/206,512

including any and all United States Patents which may be granted on said application, and any and all extensions, divisions, reissues, substitutes, renewals or continuations of said application and patents, and the right to all benefits under all international conventions for the protection of industrial property and applications for said improvements.

It is hereby authorized and requested that the Commissioner of Patents issue any and all of said Letters Patent, when granted, to said ASSIGNEE, its assigns or its successors in interest or its designee.

Upon said consideration, it is further agreed that, when requested, without charge to but at the expense of said ASSIGNEE, the undersigned will execute all divisional, continuing, substitute, renewal, and reissue patent applications; execute all rightful other papers; and generally do everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining patent protection as provided herein.

DATE:

December 21, 1998

INVENTORS:

Keiji Tanaka

Keiji TANAKA

December 24, 1998

Noboru Edagawa

Noboru EDAGAWA

December 21, 1998

Hidenori Taga

Hidenori TAGA

December 24, 1998

Shu Yamamoto

Shu YAMAMOTO

WITNESSES:

DMS PAS154756.1.*-12/7/98 9:49 am