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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 9.15.99	
1. Name of conveying party(ies): Andrew Roman Chraplyvy Additional name(s) of conveying party(ies) attached? □Yes ■No 3. Nature of conveyance: ■ Assignment □ Merger □ Security Agreement □ Change of Name □ Other ■ Execution Date: September 3, 1999 4. Application number(s) or patent number(s): If this document is being filed together with a new application A. Patent Application No.(s) B. Patent No.(s)	2. Name and address of receiving party(ies): Lucent Technologies, Inc., a corporation of the State of Delaware, 600 Mountain Avenue P.O. Box 636 Murray Hill, NJ 07974-0636 Additional name(s) and address(es) attached? □ Yes ■ No O9 396862 , the execution date of the application is: September 3, 1999.
Additional numbers attached? □ Yes ■ No	
5. Name and address of party to whom correspondence concerning document should be mailed: IP Department Schnader Harrison Segal & Lewis 1600 Market Street, 36th Floor Philadelphia, PA 19103	 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$40.00 ☐ Enclosed ☐ Authorized to be charged to deposit account 8. Deposit Account No. 12-2325 (Attach duplicate copy of this page if paying by deposit account)
DO NOT USE THIS SPACE	
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. David A. Sasso Name of Person Signing Signature Total number of pages including cover sheet, attachments and document: 3 9/23/1999 DIGUYEN 00000025 122325 09396662	
01 FC:581 40.00 CH	

PATENT REEL: 010243 FRAME: 0504

ASSIGNMENT AND AGREEMENT

For value received, I, Andrew Roman Chraplyvy of Matawan in the County of Monmouth and State of New Jersey, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **METHOD AND APPARATUS FOR WAVELENGTH-DIVISION MULTIPLEXING** described in an application for Letters Patent of the United States, executed by me of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and I also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. may designate.

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I agree that, when requested, I shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection. Date: 9/3/99United States of Amereica State of / \sqrt{ City of Holmdel. On this <u>day of Leptember</u>, 1999, before me personally came Andrew Roman Chraplyvy, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

RECORDED: 09/15/1999

PATENT REEL: 010243 FRAME: 0506