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| | X Assignment Security Agreement | | | |
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| Name (line 1) Akshay Aggarwal | Month Day Year | | | |
| Name (line 2) | | | | |
| Second Party | Execution Date Month Day Year | | | |
| Name (line 1) Kadaba R. Lakshmikumar | 10 02 2000 | | | |
| Name (line 2) | | | | |
| Receiving Party Mark if additional names of receiving parties attached | | | | |
| Name (line 1) Lucent Techno | | | | |
| Name (line 2) a Corporation of Delaware | States, an appointment | | | |
| Address (line 1) 600 Mountain Avenue | of a domestic representative is attached. (Designation must be a | | | |
| Address (line 2) | separate document from Assignment.) | | | |
| Address (line 3) Murray Hill | New Jersey 07974-0636 | | | |
| City State/Country Zip Code Domestic Representative Name and Address Enter for the first Receiving Party only. | | | | |
| None | Litter for the mat receiving rarty only. | | | |
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REEL: 011292 FRAME: 0629

| FORM PTC Expires 06/30/99 OMB 0651-0027 |)-1619B | Page 2 | U.S. Department of Commerce Patent and Trademark Office PATENT |
|-----------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Correspond | ent Name and Address | Area Code and Telephone Numbe | r (972) 480-8800 |
| Name | Glenn W. Boisbrun | | |
| Address (line 1) | Hitt Gaines & Boisbru | n, P.C. | |
| Address (line 2) | P.O. Box 832570 | | |
| Address (line 3) | Richardson, Texas 750 |)83 | |
| Address (line 4) | | | |
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| | Number(s) or Patent Nu | · , | if additional numbers attached |
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| | s being filed together with a <u>new</u> Past named executing inventor. | atent Application, enter the date the patent applic | ation was Month Day Year 10 02 2000 |
| • | peration Treaty (PCT) | РСТ РСТ | PCT |
| <u>only</u> | er PCT application number <u>r if</u> a U.S. Application Numb not been assigned. | | PCT |
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PATENT REEL: 011292 FRAME: 0630

ASSIGNMENT

For value received, We, Akshay Aggarwal, of Blauvelt in the County of Rockland and State of New York, and Kadaba R. Lakshmikumar, of Basking Ridge in the County of Somerset 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 "A DISTORTION PRECOMPENSATOR AND METHOD OF COMPENSATING FOR DISTORTION IN A TRANSMISSION MEDIUM" described in an application for Letters Patent of the United States, executed by us 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 we 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.

We 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.

We 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.

We 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.

We agree that, when requested, we 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.

PATENT REEL: 011292 FRAME: 0631 Akshay Aggarwal Oct 2000

STATE OF Lehigh

On this _______, day of _________, 2000, before me personally came Akshay Aggarwal, to me known to be the individual described herein and who executed the foregoing instrument, and acknowledged execution of the same.

Nøtary Public

My Commission Expires:

Noterial Seal

Janes M. Garger Boarry Public

Allentown, Lehigh County

My Commission Expires Dec. 28, 2000

Member, Pennsylvania Association of Notaries

Radoba R. Latermikumer

Kadaba R. Lakshmikumar

| STATE OF New Jesse | y § |
|--------------------|--------------|
| COUNTY OF Union | - - \$ |

On this ______ day of _______, 2000, before me personally came Kadaba R. Lakshmikumar, to me known to be the individual described herein and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

My Commission Expires:

7/30/03

FRANCES J. LEVINE
Notary Public of New Jersey, USA
Registered in Middlesex County
My Commission Expires July 30, 2003

Lucent Technologies, Inc. 600 Mountain Avenue (Room 3C-512) P.O. Box 636 Murray Hill, New Jersey 07974-0636

RECORDED: 10/06/2000