1. Name of conveying party(ies):
   1. Pi-Yu Chung
   2. Yennun Huang
   3. Chia-Yen Shih
   4. Shalini Yajnik

2. Name and address of describing party(ies)
   Name: Lucent Technologies Inc.
   Internal Address:

   Street Address: 600 Mountain Avenue
   P.O. Box 636
   City: Murray Hill  State: NJ  ZIP: 07974

3. Nature of conveyance:
   ☐ Assignment  ☐ Merger
   ☐ Security Agreement  ☐ Change of Name
   ☐ Other


4. Application number(s) or patent number(s):

   A. Patent Application No(s).

      Serial No.: 09/119,139
      Filed: 7/20/98

   B. Patent No(s).

   Additional numbers attached? ☐ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

   Name: Docket Administrator
   Internal Address: Room 3C-512

   Street Address: 600 Mountain Avenue
   P.O. Box 636
   City: Murray Hill  State: NJ  ZIP: 07974

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 number:

   12-2325

   (Attach duplicate copy of this page if paying by deposit account)

   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.

   Stephen M. Gursky
   Name of Person Signing

   Signature  Sept. 4, 1998

   Total number of pages including cover sheet, attachments, and document: 6

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

PATENT
REEL: 9464 FRAME: 0222
ASSIGNMENT AND AGREEMENT

For value received, we, Pi-Yu Chung, of Berkeley Heights in the County of Union and State of New Jersey, Yennun Huang, of Bridgewater in the County of Somerset and State of New Jersey, Chia-Yen Shih, of Murray Hill in the County of Union and State of New Jersey, and Shalini Yajnik, of Scotch Plains in the County of Union 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 Providing Failure Detection And Recovery With Predetermined Replication Style For Distributed Applications In A Network described in an application for Letters Patent of the United States, Serial No. 09/119139, filed July 20, 1998, 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.

P. Chung

Date: Aug 31, 1998

United States of America

State of New Jersey ss.: New

County of Union

On this 31 day of August, 1998, before me personally came Pi-Yu Chung, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Deborah B. Cornish
Notary Public
Date: 8/20/1998

United States of America   
State of New Jersey    ss.: 
County of Union    

On this 20 day of August, 1998, before me personally came Yennun Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Deborah B. Cornish
Notary Public
Date: 8/20/98

United States of America
State of New Jersey
County of Union

On this 20th day of August, 1998, before me personally came Chia-Yen Shih, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

DEBORAH B. CORNISH
NOTARY PUBLIC OF NEW JERSEY
REGISTERED IN MORRIS COUNTY
MY COMM. EXPIRED JAN. 14, 2003
Date: 8/20/98

United States of America  )
State of  New Jersey  ) ss.:  
County of  Union  )

On this 20th day of  August, 1998, before me personally came Shalini Yajnik, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Deborah B. Cornish
Notary Public

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

RECORDED: 09/04/1998
PATENT
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