

PATENT ASSIGNMENT

Electronic Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
|---|---------------------------|---------------|---------------------------|---------------------|---------------------|-------------------|--------------|-----------------|-------------|----------------|------------|--------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>ANGELIKI ALEXIOU</td><td>05/24/2007</td></tr><tr><td>FEDERICO BOCCARDI</td><td>05/24/2007</td></tr><tr><td>HOWARD C. HUANG</td><td>05/29/2007</td></tr></tbody></table> | | Name | Execution Date | ANGELIKI ALEXIOU | 05/24/2007 | FEDERICO BOCCARDI | 05/24/2007 | HOWARD C. HUANG | 05/29/2007 | | | | |
| Name | Execution Date | | | | | | | | | | | | |
| ANGELIKI ALEXIOU | 05/24/2007 | | | | | | | | | | | | |
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| HOWARD C. HUANG | 05/29/2007 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>Lucent Technologies, Inc.</td></tr><tr><td>Street Address:</td><td>600 Mountain Avenue</td></tr><tr><td>Internal Address:</td><td>P.O. Box 636</td></tr><tr><td>City:</td><td>Murray Hill</td></tr><tr><td>State/Country:</td><td>NEW JERSEY</td></tr><tr><td>Postal Code:</td><td>07974-0636</td></tr></table> | | Name: | Lucent Technologies, Inc. | Street Address: | 600 Mountain Avenue | Internal Address: | P.O. Box 636 | City: | Murray Hill | State/Country: | NEW JERSEY | Postal Code: | 07974-0636 |
| Name: | Lucent Technologies, Inc. | | | | | | | | | | | | |
| Street Address: | 600 Mountain Avenue | | | | | | | | | | | | |
| Internal Address: | P.O. Box 636 | | | | | | | | | | | | |
| City: | Murray Hill | | | | | | | | | | | | |
| State/Country: | NEW JERSEY | | | | | | | | | | | | |
| Postal Code: | 07974-0636 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11754624</td></tr></tbody></table> | | Property Type | Number | Application Number: | 11754624 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 11754624 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| Fax Number: (713)934-7011 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | | | |
| Phone: 713 934 4052 | | | | | | | | | | | | | |
| Email: kdanas@wmalaw.com | | | | | | | | | | | | | |
| Correspondent Name: Mark W. Sincell | | | | | | | | | | | | | |
| Address Line 1: 10333 Richmond | | | | | | | | | | | | | |
| Address Line 2: Suite 1100 | | | | | | | | | | | | | |
| Address Line 4: Houston, TEXAS 77449 | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 2100.038800 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Mark W. Sincell | | | | | | | | | | | | |

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Total Attachments: 3
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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do(es) hereby:

SELL, ASSIGN AND TRANSFER to LUCENT TECHNOLOGIES INC. (the "Assignee"), a corporation of Delaware, having a place of business at 600 Mountain Avenue, P.O. Box 636, Murray Hill, New Jersey, 07974-0636, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled "**A CLOSED-LOOP MULTIPLE-INPUT-MULTIPLE-OUTPUT SCHEME FOR WIRELESS COMMUNICATION BASED ON HIERARCHICAL FEEDBACK**" such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: _____

Angeliki Alexiou

Date: _____

24 MAY 2007

ANGELIKI ALEXIOU

WITNESSES FOR ANGELIKI ALEXIOU

Kai M

Date: 24/05/07

Lester J

Date: 24.5.07

Signature: Federico Boccardi
FEDERICO BOCCARDI

Date: 24/5/2007

WITNESSES FOR FEDERICO BOCCARDI

Kai M

Date: 24/05/07

Lester J

Date: 24.5.07.

Signature:

Howard C. Huang
HOWARD C. HUANG
HOWARD C. HUANG

Date: MAY 29, 2007

STATE OF

New Jersey

§
§
§

COUNTY OF

Middlesex

BEFORE ME, the undersigned authority, on this 29th day of May, 2007, personally appeared HOWARD C. HUANG, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Joseph P. Tarallo, Jr.
Notary or Consular Officer

[SEAL]

5/29/07

Joseph P. Tarallo, Jr.
Notary Public
of New Jersey
My Commission Expires

6/27/08