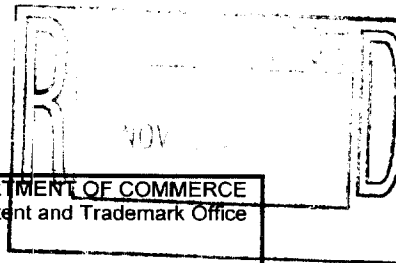


MMA 11.22.99

12-13-1999



FORM PTO-1595 (Rev. 6-93) OMD NO. 0651-0011 exp. 4/94



101220813

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Bae-Sik Chon Trang Ngo
Additional name(s) of conveying party(ies) attached? No Yes

2. Name and address of receiving party(ies): Northern Telecom Limited
Internal Address: World Trade Center of Montreal 8th Floor
Street Address: 380 St. Antoine Street West
City: Montreal State: Quebec Zip: H2Y 3Y4
Country: CANADA
Additional name(s) & address(es) attached? No Yes

3. Nature of Conveyance
Assignment Merger
Security Agreement Change of Name
Other:
Execution Date(s): 4/6/99 and 4/12/99

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:
A. Patent Application No.(s) 09/001,510
B. Patent No.(s)

Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Blakely, Sokoloff, Taylor & Zafman LLP
Internal Address:
Street Address: 12400 Wilshire Boulevard, 7th Floor
City: Los Angeles State: California Zip: 90025

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: 02-2666
(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 believe, the foregoing is true and correct and any attached copy is a true copy of the original document

Paul A. Mendonsa Name of Person Signing
Signature
Date
Total number of pages including cover sheet, attachments, and document: 9

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

Atty Docket No. 03239.P005

12/10/1999 TTOM11 00000190 09001510

01 FC:581

40.00

Assignment

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

METHOD AND APPARATUS FOR CONTROLLING CHARACTERISTICS OF DISTRIBUTED TELEPHONE SETS FORM A CENTRAL TELEPHONE SWITCH

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

WHEREAS, NORTHERN TELECOM LIMITED, a Canadian company having a principal office and place of business at, World Trade Center of Montreal, 380 St. Antoine Street West, 8th floor, Montreal, Quebec H2Y 3Y4, Canada hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

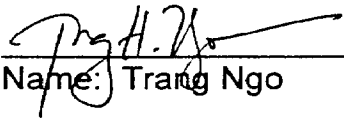
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that was filed December 31, 19 97 and assigned Application No. 09/001,510 and is entitled METHOD AND APPARATUS FOR CONTROLLING CHARACTERISTICS OF DISTRIBUTED TELEPHONE SETS FROM A CENTRAL TELEPHONE SWITCH and all letters Patents that may issue for the said invention, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceeding, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

Each Inventor: Please Sign and Date Below:

Apr 12, 1999 
Date Name: Trang Ngo

_____, 19____
Date Name: Bae-Sik Chon

_____, 19____
Date Name:

_____, 19____
Date Name:

_____, 19____
Date Name:

_____, 19____
Date Name:

Each Inventor:
Please also list the
date that you signed
the accompanying
**DECLARATION AND
POWER OF
ATTORNEY:**

July 6, 1998
Date

July 8, 1998
Date

_____, 19____
Date

_____, 19____
Date

_____, 19____
Date

_____, 19____
Date

Assignment

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

METHOD AND APPARATUS FOR CONTROLLING CHARACTERISTICS OF DISTRIBUTED TELEPHONE SETS FORM A CENTRAL TELEPHONE SWITCH

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

WHEREAS, NORTHERN TELECOM LIMITED, a Canadian company having a principal office and place of business at, World Trade Center of Montreal, 380 St. Antoine Street West, 8th floor, Montreal, Quebec H2Y 3Y4, Canada hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that was filed December 31, 19 97 and assigned Application No. 09/001,510 and is entitled METHOD AND APPARATUS FOR CONTROLLING CHARACTERISTICS OF DISTRIBUTED TELEPHONE SETS FROM A CENTRAL TELEPHONE SWITCH and all letters Patents that may issue for the said invention, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceeding, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

Each Inventor: Please Sign and Date Below:

_____, 19____
Date Name: Trang Ngo

4-6, 1999 _____
Date Name: Bae-Sik Chon

_____, 19____
Date Name:

_____, 19____
Date Name:

_____, 19____
Date Name:

_____, 19____
Date Name:

**Each Inventor:
Please also list the
date that you signed
the accompanying
DECLARATION AND
POWER OF
ATTORNEY:**

July 6, 1998
Date

July 8, 1998
Date

_____, 19____
Date

_____, 19____
Date

_____, 19____
Date

_____, 19____
Date

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Bae-Sik Chon Trang Ngo

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):

Name: **Northern Telecom**

Internal Address: _____

Street Address: **2305 Mission College Blvd.**

City **Santa Clara** State **CA** ZIP **95054**

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: **4/6/99, 4/12/99**

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: _____

A. Patent Application No.(s)

09/001,510

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: **Blakely, Sokoloff, Taylor & Zafman, LLP**

Internal Address: _____

Street Address: **12400 Wilshire Blvd.**

7th Floor

City: **Los Angeles** State: **CA** ZIP: **90025**

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:

02-2666

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

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.

Paul A. Mendonsa, Reg. No. 42,879

Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet, attachments, and document: **7**

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

Attorney Docket No.: **03239.P005**