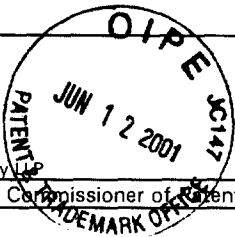


FORM PTO-1595
©2001 Staas & Halsey
To the Honorable Commissioner of Patents and Trademarks



06-19-2001



101753036

U.S. DEPARTMENT
OF COMMERCE

documents or copy thereof.

1. Name of conveying party(ies):
(1) Lawrence A. DENENBERG
(2) Erin M. PANTTAJA
(3) Christopher M. SCHMANDT
2. Name and Address of receiving party(ies):
Comverse Network Systems, Inc.
100 Quannapowitt Parkway
Wakefield, MA 01880
3. Nature of conveyance:
___ Assignment ___ Merger
___ Security Agreement ___ Change of Name
X Other: Correct Notice of Recordation, Reel/Frame 011617/0199
Execution Date(s): February 13, 2001; February 6, 2001; and January 30, 2001
4. Application number(s) or patent number(s):
☐ This document is being filed together with a new application:
(a) The execution date(s) of the application is/are:
(b) The title is:
*** OR ***
☒ This document is being filed after filing of the application:
(a) Patent Application No(s). 09/749,615, filed December 28, 2000; or
(b) Patent No(s). , issued .
5. Name and address of party to whom correspondence concerning document should be mailed:
STAAS & HALSEY LLP
Attention: Richard A. Gollhofer
700 Eleventh Street, N.W., Suite 500
Washington, D.C. 20001
Our Docket: 782.1092
6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Assignment)
☒ Enclosed
☐ Authorized to be charged to deposit account.
8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)
(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.

Richard A. Gollhofer, Reg. No. 31,106

Name of Person Signing

Richard A. Gollhofer
Signature

6/12/01
Date

Total number of pages including cover sheet: 2

06/19/2001 TDAZI 00000004 09749615

01 FC:581

40.00 0P

DO NOT USE THIS SPACE

PATENT
REEL: 011891 FRAME: 0701

FORM PTO-1595
(Rev. 6-93)
S&H 1/99

PTO
MAR 22 2001

F

03-28-2001

101650580

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

3.77 01

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

1. Name of conveying party(ies):
Lawrence A. DENENBERG
Erin M. PANTTAJA
Christopher M. SCHMANDT
2. Name and address of receiving party(ies):

Comverse Network Systems, Inc.
100 Quannapowitt Parkway
Wakefield, MA 01880

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other: _____

Execution Date(s): January 30, 2001; February 6, 2001 and February 13, 2001

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

This document is being filed together with a new application:

- (a) The execution date(s) of the application is/are: *
- (b) The title is: AUTOMATIC DYNAMIC SPEECH RECOGNITION VOCABULARY BASED ON EXTERNAL SOURCES OF INFORMATION
*** OR ***

This document is being filed after filing of the application:

- (a) Patent Application No(s). 09/749,615, filed December 28, 2000; or
- (b) Patent No(s). _____, issued _____.

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

STAAS & HALSEY LLP
Attention: Richard A. Gollhofer
700 Eleventh Street, N.W., Suite 500
Washington, D.C. 20001

Our Docket: 782.1092/RAG

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.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)
(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.

Richard A. Gollhofer, Reg. No. 31,106

Name of Person Signing

Richard A. Gollhofer
Signature

3/22/01
Date

03/27/2001 TDI A21

00000109 09749615

01 FC:581

40.00 DP

Total number of pages including cover sheet: 7

DO NOT USE THIS SPACE

PATENT
REEL: 011891 FRAME: 0702

ASSIGNMENT

(Worldwide Rights)

WHEREAS:*(FULL NAME(S) AND POST OFFICE ADDRESS(ES), including country, OF INVENTOR(S))*

Lawrence A. Denenberg
70 Columbia St
Brookline, MA 02446
USA

Christopher M. Schmandt
4 Longfellow Rd.
Winchester, MA 01890
USA

Erin M. Panttaja
110 Boston Ave.
Somerville, MA 02144
USA

(hereinafter, referred to as ASSIGNOR), has/have invented certain new and useful improvements in an invention entitled

(TITLE OF INVENTION)

***AUTOMATIC DYNAMIC SPEECH RECOGNITION VOCABULARY BASED ON
EXTERNAL SOURCES OF INFORMATION***

(COMPLETE EITHER (a),(b),(c) or (d))

- ☐ (a) for which an application for United States Letters Patent is being executed and filed concurrently herewith
- ☐ (b) for which an application for United States Letters Patent was executed on _____ ;
- ☒ (c) for which an application for United States Letters Patent was filed on 28 December, 2000 Serial No. 09/749,615 ;
- ☐ (d) for which United States Letters Patent No. _____ has issued on _____ ;

NOTE: Any registered attorney of STAAS & HALSEY, LLP, 700 Eleventh Street, N.W. Washington, DC 20001, telephone 202-434-1500, is hereby authorized to insert in (b) - (d) the specified data, when known.

WHEREAS:

Comverse Network Systems, Inc.
100 Quannapowitt Parkway
Wakefield, MA 01880 USA

State of Incorporation: Delaware, USA

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all other countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for valuable consideration furnished by ASSIGNEE to ASSIGNOR, receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all other countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all other countries to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in an other country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any other country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

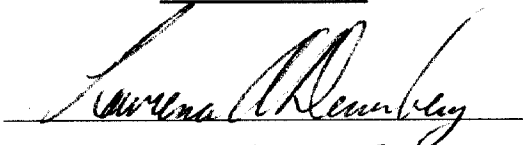
ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in other countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any other country which may be necessary or desirable to carry out the purposes thereof.

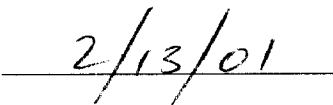
IN WITNESS THEREOF, I/We have hereunto set hand and signed on the date indicated below.

SIGNATURE(S)

(The signature(s) must correspond with the name(s) of the inventor(s) above.)

INVENTOR(S)**DATE SIGNED****WITNESS(ES)**


Lawrence A. Denenberg


2/13/01

(Print name)

ASSIGNMENT

(Worldwide Rights)

WHEREAS:*(FULL NAME(S) AND POST OFFICE ADDRESS(ES), including country, OF INVENTOR(S))*

Lawrence A. Denenberg
70 Columbia St
Brookline, MA 02446
USA

Christopher M. Schmandt
4 Longfellow Rd.
Winchester, MA 01890
USA

Erin M. Panttaja
110 Boston Ave.
Somerville, MA 02144
USA

(hereinafter, referred to as ASSIGNOR), has/have invented certain new and useful improvements in an invention entitled

(TITLE OF INVENTION)

***AUTOMATIC DYNAMIC SPEECH RECOGNITION VOCABULARY BASED ON
EXTERNAL SOURCES OF INFORMATION***

(COMPLETE EITHER (a),(b),(c) or (d))

- ☐ (a) for which an application for United States Letters Patent is being executed and filed concurrently herewith
- ☐ (b) for which an application for United States Letters Patent was executed on _____ ;
- ☒ (c) for which an application for United States Letters Patent was filed on 28 December, 2000 Serial No. 09/749,615 ;
- ☐ (d) for which United States Letters Patent No. _____ has issued on _____ ;

NOTE: Any registered attorney of STAAS & HALSEY, LLP, 700 Eleventh Street, N.W. Washington, DC 20001, telephone 202-434-1500, is hereby authorized to insert in (b) - (d) the specified data, when known.

WHEREAS:

*Comverse Network Systems, Inc.
100 Quannapowitt Parkway
Wakefield, MA 01880 USA*

State of Incorporation: Delaware, USA

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all other countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for valuable consideration furnished by ASSIGNEE to ASSIGNOR, receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all other countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all other countries to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in an other country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any other country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

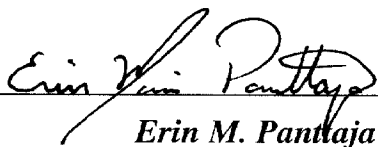
ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in other countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any other country which may be necessary or desirable to carry out the purposes thereof.

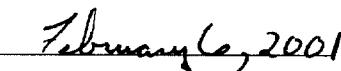
IN WITNESS THEREOF, I/We have hereunto set hand and signed on the date indicated below.


SIGNATURE(S)

(The signature(s) must correspond with the name(s) of the inventor(s) above.)

INVENTOR(S)DATE SIGNEDWITNESS(ES)


Erin M. Pantaja


February 6, 2001


P de Villiers
(Print name)

ASSIGNMENT

(Worldwide Rights)

WHEREAS:*(FULL NAME(S) AND POST OFFICE ADDRESS(ES), including country, OF INVENTOR(S))*

Lawrence A. Denenberg
70 Columbia St
Brookline, MA 02446
USA

Christopher M. Schmandt
4 Longfellow Rd.
Winchester, MA 01890
USA

Erin M. Pantaja
110 Boston Ave.
Somerville, MA 02144
USA

(hereinafter, referred to as ASSIGNOR), has/have invented certain new and useful improvements in an invention entitled

(TITLE OF INVENTION)

***AUTOMATIC DYNAMIC SPEECH RECOGNITION VOCABULARY BASED ON
EXTERNAL SOURCES OF INFORMATION***

(COMPLETE EITHER (a), (b), (c) or (d))

- ☐ (a) for which an application for United States Letters Patent is being executed and filed concurrently herewith
- ☐ (b) for which an application for United States Letters Patent was executed on _____ ;
- ☒ (c) for which an application for United States Letters Patent was filed on 28 December, 2000 Serial No. 09/749,615 ;
- ☐ (d) for which United States Letters Patent No. _____ has issued on _____ ;

NOTE: Any registered attorney of STAAS & HALSEY, LLP, 700 Eleventh Street, N.W. Washington, DC 20001, telephone 202-434-1500, is hereby authorized to insert in (b) - (d) the specified data, when known.

WHEREAS:

Comverse Network Systems, Inc.
100 Quannapowitt Parkway
Wakefield, MA 01880 USA

State of Incorporation: Delaware, USA

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all other countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for valuable consideration furnished by ASSIGNEE to ASSIGNOR, receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all other countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all other countries to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in an other country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patents of the United States and any official of any other country whose duty it is to issue patents or legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in other countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any other country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS THEREOF, I/We have hereunto set hand and signed on the date indicated below.

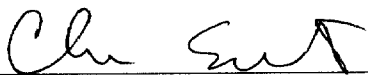
SIGNATURE(S)

(The signature(s) must correspond with the name(s) of the inventor(s) above.)

INVENTOR(S)

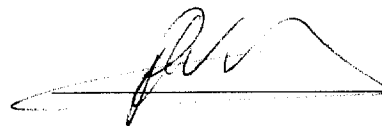
DATE SIGNED

WITNESS(ES)



Christopher M. Schmandt

30 Jun 2001



P de Villiers
(Print name)