

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3883359

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	PATENT RELEASE (REEL:018160/FRAME:0909)
CONVEYING PARTY DATA	
Name	Execution Date
MORGAN STANLEY SENIOR FUNDING, INC., AS ADMINISTRATIVE AGENT	05/20/2016
RECEIVING PARTY DATA	
Name:	NUANCE COMMUNICATIONS, INC., AS GRANTOR
Street Address:	1 WAYSIDE ROAD
City:	BURLINGTON
State/Country:	MASSACHUSETTS
Postal Code:	01803
Name:	ART ADVANCED RECOGNITION TECHNOLOGIES, INC., A DELAWARE CORPORATION, AS GRANTOR
Street Address:	1 WAYSIDE ROAD
City:	BURLINGTON
State/Country:	MASSACHUSETTS
Postal Code:	01803
Name:	SPEECHWORKS INTERNATIONAL, INC., A DELAWARE CORPORATION, AS GRANTOR
Street Address:	1 WAYSIDE ROAD
City:	BURLINGTON
State/Country:	MASSACHUSETTS
Postal Code:	01803
Name:	TELELOGUE, INC., A DELAWARE CORPORATION, AS GRANTOR
Street Address:	517 ROUTE 1 SOUTH
City:	ISELIN
State/Country:	NEW JERSEY
Postal Code:	08830
Name:	DSP, INC., D/B/A DIAMOND EQUIPMENT, A MAINE CORPORATON, AS GRANTOR
Street Address:	1200 MINOT AVENUE
City:	AUBURN
State/Country:	MAINE
Postal Code:	04210
Name:	HUMAN CAPITAL RESOURCES, INC., A DELAWARE CORPORATION, AS

PATENT

	GRANTOR
Street Address:	575 MADISON AVENUE
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10022
Name:	INSTITIT KATALIZA IMENI G.K. BORESKOVA SIBIRSKOGO OTDELENIA ROSSIISKOI AKADEMII NAUK, AS GRANTOR
Street Address:	NOVOSIBIRSK, PR. AKADEMIKA
City:	LAVRENTIEVA, D.5,
State/Country:	RUSSIAN FEDERATION
Postal Code:	63009
Name:	NOKIA CORPORATION, AS GRANTOR
Street Address:	KEILALAHDENTIE 2-4
City:	ESPOO
State/Country:	FINLAND
Postal Code:	00045
Name:	MITSUBISHI DENKI KABUSHIKI KAISHA, AS GRANTOR
Street Address:	2-3 MARUNOUCHI 2-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-8310
Name:	STRYKER LEIBINGER GMBH & CO., KG, AS GRANTOR
Street Address:	BOTZINGER STRASSE 41
City:	FREIBURG
State/Country:	GERMANY
Postal Code:	79111
Name:	NORTHROP GRUMMAN CORPORATION, A DELAWARE CORPORATION, AS GRANTOR
Street Address:	1840 CENTURY PARK EAST
City:	LOS ANGELES
State/Country:	CALIFORNIA
Postal Code:	90067-2199
Name:	SCANSOFT, INC., A DELAWARE CORPORATION, AS GRANTOR
Street Address:	1 WAYSIDE ROAD
City:	BURLINGTON
State/Country:	MASSACHUSETTS
Postal Code:	01803
Name:	DICTAPHONE CORPORATION, A DELAWARE CORPORATION, AS GRANTOR
Street Address:	3191 BROADBRIDGE AVENUE

PATENT

REEL: 038770 FRAME: 0870

City:	STRATFORD
State/Country:	CONNECTICUT
Postal Code:	06614

PROPERTY NUMBERS Total: 372

Property Type	Number
Patent Number:	D446514
Patent Number:	4918740
Patent Number:	4979216
Patent Number:	4996707
Patent Number:	5008941
Patent Number:	5027406
Patent Number:	5033088
Patent Number:	5046114
Patent Number:	5060277
Patent Number:	5077807
Patent Number:	5101375
Patent Number:	5125022
Patent Number:	5127043
Patent Number:	5127055
Patent Number:	5131053
Patent Number:	5133023
Patent Number:	5136654
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Patent Number:	5235651
Patent Number:	5261009
Patent Number:	5278918
Patent Number:	5278920
Patent Number:	5280563
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Patent Number:	6668081
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Patent Number:	6839669
Patent Number:	6856957
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Patent Number:	6959167
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Patent Number:	6961704
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Patent Number:	4794474

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Patent Number:	D440977
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Patent Number:	D450661
Patent Number:	D441758
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Application Number:	08282187
Application Number:	08366164
Application Number:	08878741
Application Number:	09203155
Application Number:	09294847
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Application Number:	09433609
Application Number:	09524055
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Application Number:	09718972
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Application Number:	09854137
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Application Number:	10661431
Application Number:	10683017
Application Number:	10699794
Application Number:	10718042
Application Number:	10719682
Application Number:	10724659
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Application Number:	10753590
Application Number:	10753645
Application Number:	10756828
Application Number:	10840377
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Application Number:	11037545
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Application Number:	60662490

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Application Number:	09190536
Application Number:	09415617
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Application Number:	09984874
Application Number:	10305022
Application Number:	10375045
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Application Number:	11133583
Application Number:	11191814
Application Number:	60696677
Application Number:	11362646
Application Number:	10424140
Application Number:	10697167
PCT Number:	US2004002503
PCT Number:	US2001030666

CORRESPONDENCE DATA

Fax Number: (800)914-4240

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 800-713-0755
Email: Michael.Violet@wolterskluwer.com
Correspondent Name: MICHAEL VIOLET
Address Line 1: 4400 EASTON COMMONS WAY
Address Line 2: SUITE 125
Address Line 4: COLUMBUS, OHIO 43219

NAME OF SUBMITTER:	KEN TAN
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SIGNATURE:	/Ken Tan/
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DATE SIGNED:	05/20/2016
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Total Attachments: 31

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Addendum to Cover Page of Patents Form Cover Sheet

2. Name and address of receiving party(ies)

- 2) ART Advanced Recognition Technologies, Inc., a Delaware Corporation, as Grantor
Citizenship – DE
1 Wayside Road
Burlington, MA 01803
- 3) SpeechWorks International, Inc., a Delaware Corporation, as Grantor
Citizenship – DE
1 Wayside Road
Burlington, MA 01803
- 4) Telelogue, Inc., a Delaware Corporation, as Grantor
Citizenship – DE
517 Route 1 South
Iselin, NJ 08830
- 5) DSP, Inc., D/B/A Diamond Equipment, a Maine Corporation, as Grantor
Citizenship - ME
1200 Minot Avenue
Auburn, ME, 04210
- 6) Human Capital Resources, Inc., a Delaware Corporation, as Grantor
Citizenship – DE
575 Madison Avenue
New York, NY 10022
- 7) INSTITIT KATALIZA IMENI G.K. BORESKOVA SIBIRSKOGO OTDELENIA
ROSSIISKOI AKADEMII NAUK, as Grantor
Citizenship – Russia
NOVOSIBIRSK, PR. AKADEMIKA
LAVRENTIEVA, D.5, RUSSIAN FEDERATION 63009
- 8) Nokia Corporation, as Grantor
Citizenship – Finland
KEILALAHDENTIE 2-4
00045, ESPOO, FINLAND
- 9) MITSUBISHI DENKI KABUSHIKI KAISHA, as Grantor
Citizenship – Japan
2-3 Marunouchi 2-Chome, Chiyoda-Ku
Tokyo, Japan 100-8310

- 10) Stryker Leibinger GmbH & Co., KG, as Grantor
Citizenship – Germany
Botzinger Strasse 41
79111 Freiburg, Germany
- 11) Northrop Grumman Corporation, a Delaware Corporation, as Grantor
Citizenship – DE
1840 Century Park East
Los Angeles, California 90067-2199
- 12) Scansoft, Inc., a Delaware Corporation, as Grantor
Citizenship – DE
1 Wayside Road
Burlington, MA 01803
- 13) Dictaphone Corporation, a Delaware Corporation, as Grantor
Citizenship – DE
3191 Broadbridge Avenue
Stratford, CT 06614

RELEASE OF SECURITY INTEREST IN PATENTS

This RELEASE OF SECURITY INTEREST IN PATENTS (this “Release”), dated as of May 20, 2016 (the “Effective Date”), is made by Morgan Stanley Senior Funding, Inc., in its capacity as administrative agent for the Secured Parties (as successor to UBS AG, Stamford Branch as Administrative Agent under the Guarantee and Collateral Agreement (as defined below), the “Agent”), in favor of the grantor parties identified on the signature page hereto (each, a “Grantor” and collectively, the “Grantors”).

WHEREAS, pursuant to that certain Guarantee and Collateral Agreement, dated as of March 31, 2006, by and among the Agent, the Grantors and certain other parties thereto (as amended, amended and restated, or otherwise modified from time to time, the “Guarantee and Collateral Agreement”), the Grantors granted to the Agent, in its capacity as Agent, a security interest in and to certain collateral;

WHEREAS, pursuant to the Guarantee and Collateral Agreement, the Grantors executed and delivered a Patent Security Agreement, dated as of March 31, 2006 (the “Patent Security Agreement”), for recordal with the United States Patent and Trademark Office;

WHEREAS, the Patent Security Agreement was recorded with the United States Patent and Trademark Office on August 24, 2006 at Reel/Frame 018160/0909;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Agent hereby agrees as follows:

1. Defined Terms. All capitalized terms used, but not otherwise defined herein, shall have the respective meanings ascribed in or otherwise referenced in the Guarantee and Collateral Agreement or the Patent Security Agreement, as applicable.
2. Release. The Agent, without representation or warranty of any kind, hereby releases, discharges, terminates and cancels all of its security interest in and to the Pledged Collateral set forth in Section 2 of the Patent Security Agreement (the “Patent Collateral”), including the patents and patent applications set forth on Schedule I attached hereto, arising under the Guarantee and Collateral Agreement and the Patent Security Agreement. If and to the extent that the Agent has acquired any right, title or interest in and to the Patent Collateral under the Patent Security Agreement, the Agent, without representation or warranty of any kind, hereby re-transfers, re-conveys and re-assigns such right, title or interest to the applicable Grantor.
3. Termination. The Agent, without representation or warranty of any kind, terminates and cancels the Patent Security Agreement.
4. Further Assurances. The Agent agrees to take all further actions, and provide to the Grantors and their respective successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), reasonably requested by the Grantors, at the Grantors’ sole cost and expense, to more fully and effectively effectuate the purposes of this Release.
5. Governing Law. This Release shall be governed exclusively under the laws of New York, without regard to conflicts of law or choice of law principles.

IN WITNESS WHEREOF, the Agent has caused this Release to be executed by its duly authorized representative as of the Effective Date:

**Morgan Stanley Senior Funding, Inc., as
Agent**

By: _____

Name: Stephen B. King

Title: Vice President

GRANTORS:

Nuance Communications, Inc.
Caere Corporation
Medremote LLC
Telelogue Inc.
Nuance Communications USA, Inc.
Nova Acquisition LLC
ART Advanced Recognition Technologies Inc.
Speechworks International Inc.
Speechworks Securities Corp.
Speechworks International Holdings, Inc.
Nuance Communications International Inc.
I Chart Corporation
Dictaphone Corporation
DSP Inc.

[Signature page to Patent Release (2006-A)]

PATENT
REEL: 038770 FRAME: 0885

Schedule I**Nuance Patents****Issued Patents**

Patent Title	Patent Number	Date of Issue	Expiration Date	Owner
Family information processor interface	D446,514	14-Aug-2001	14-Aug-2005	Nuance Communications, Inc.
Processing Means for Use in an Optical Character Recognition System	4,918,740	17-Apr-1990	21-Jul-2009	Nuance Communications, Inc.
Text to Speech Synthesis System and Method Using Context Dependent Vowel Allophones	4,979,216	18-Dec-1990	N/A	Nuance Communications, Inc.
Text-to-Speech Converter of a Facsimile Graphic Image	4,996,707	26-Feb-1991	N/A	Nuance Communications, Inc.
Method and Apparatus for Automatically Updating Estimates of Undesirable Components of the Speech Signal in a Speech Recognition System	5,008,941	16-Apr-1991	16-Apr-2008	Nuance Communications, Inc.
Method for interactive speech recognition and training	5,027,406	06/25/91	12/06/08	Nuance Communications, Inc.
Method and apparatus for effectively receiving voice input to a voice recognition system	5,033,088	16-Jul-1991	21-Dec-2009	Nuance Communications, Inc.
Method and Structure for Separating Joined Patterns for Use in Pattern and Character Recognition System	5,046,114	03-Sep-1991	03-Sep-2008	Nuance Communications, Inc.
Using Feature Vector Regions Preconstructed from Reference Data	5,060,277	22-Oct-1991	22-Oct-2008	Nuance Communications, Inc.
Preprocessing Means for Use in a Pattern Classification System	5,077,807	31-Dec-1991	26-Feb-2010	Nuance Communications, Inc.
Method and Apparatus for Providing Binding and Capitalization in Structured Report Generation	5,101,375	31-Mar-1992	31-Mar-2009	Nuance Communications, Inc.
Method for Recognizing Alphanumeric Strings Spoken Over a Telephone Network	5,125,022	23-Jun-1992	15-May-2010	Nuance Communications, Inc.
Simultaneous Speaker-Independent Voice	5,127,043	30-Jun-1992	15-May-	Nuance Communications,

Patent Title	Patent Number	Date of Issue	Expiration Date	Owner
Recognition and Verification I			2010	Inc.
Speech Recognition Apparatus & Method Having Dynamic Reference Pattern Adaptation	5,127,055	30-Jun-1992	11-Feb-2011	Nuance Communications, Inc.
Optical Character Recognition Method and Apparatus	5,131,053	14-Jul-1992	14-Jul-2009	Nuance Communications, Inc.
Means for Resolving Ambiguities in Text Based Upon Character Content	5,133,023	21-Jul-1992	21-Jul-2009	Nuance Communications, Inc.
Vocabulary partitioned speech recognition apparatus	5,136,654	04-Aug, 1992	04-Aug-2009	Nuance Communications, Inc.
Voice Controlled System and Method for Generating Text From a Voice Controlled Input	5,231,670	27-Jul-1993	27-Jul-2010	Nuance Communications, Inc.
Rotation of Images for Optical Character Recognition	5,235,651	10-Aug-1993	06-Aug-2011	Nuance Communications, Inc.
Means for Resolving Ambiguities in Text Based Upon Character Context	5,261,009	09-Nov-1993	24-Mar-2012	Nuance Communications, Inc.
Optical Character Recognition Method and Apparatus Using Context Analysis and a Parsing Algorithm Which Constructs a Text Data Tree	5,278,918	11-Jan-1994	27-Nov-2011	Nuance Communications, Inc.
Optical Character Recognition Method and Apparatus	5,278,920	11-Jan-1994	15-Jul-2012	Nuance Communications, Inc.
CompositeExpert	5,280,563	18-Jan-1994	18-Jan-2011	Nuance Communications, Inc.
Speech recognition system for electronic switches in a cellular telephone or personal communication network	5,297,183	22-Mar-1994	13-Apr-2012	Nuance Communications, Inc.
Simultaneous Speaker-Independent Voice Recognition and Verification Over a Telephone Network	5,297,194	22-Mar-1994	22-Jun-2012	Nuance Communications, Inc.
Method for Continuous Recognition of Alphanumeric Strings Spoken Over a Telephone Network	5,303,299	12-Apr-1994	22-Jun-2013	Nuance Communications, Inc.
Toll call telephone service center	5,315,649	24-May-1994	15-Apr-2012	Nuance Communications, Inc.

Patent Title	Patent Number	Date of Issue	Expiration Date	Owner
Speech recognizer	5,337,394	09-Aug-1994	09-Aug-2011	Nuance Communications, Inc.
Preprocessing Means for Use in a Pattern Classification System	5,347,595	13-Sep-1994	13-Sep-2011	Nuance Communications, Inc.
Telephone Network Voice Recognition and Verification Using Selectively-Adjustable Signal Thresholds	5,365,574	15-Nov-1994	24-Nov-2013	Nuance Communications, Inc.
Optical Character Recognition Method and Apparatus	5,381,489	10-Jan-1995	15-Jul-2012	Nuance Communications, Inc.
Speech Recognition System Utilizing vocabulary Model Preselection	5,386,492	31-Jan-1995	31-Jan-2012	Nuance Communications, Inc.
Speech Recognition Providing Multiple Outputs	5,388,183	07-Feb-1995	07-Feb-2012	Nuance Communications, Inc.
Apparatus and methods for training speech recognition systems and their users and otherwise improving speech recognition performance	5,428,707	06/27/95	11/13/12	Nuance Communications, Inc.
Optical Character Recognition Method and Apparatus IV	5,436,983	25-Jul-1995	25-Jul-2012	Nuance Communications, Inc.
Method for Generating a Speech Recognition Model for a Non-Vocabulary Utterance	5,465,318	07-Nov-1995	07-Nov-2012	Nuance Communications, Inc.
Method for Recognizing A Spoken Word in the Presence of Interfering speech	5,475,791	12-Dec-1995	13-Aug-2003	Nuance Communications, Inc.
Method and Apparatus for Manipulating Pitch and/or Duration of a Signal	5,479,564	26-Dec-1995	20-Oct-2014	Nuance Communications, Inc.
SimultaneousVoice Recognition and Verification to Allow Access to Telephone Network Services	5,499,288	12-Mar-1996	15-May-2010	Nuance Communications, Inc.
Voice-Controlled Account Access Over a Telephone Network	5,517,558	14-May-1996	15-May-2010	Nuance Communications, Inc.
A system for processing a succession of utterances spoken in continuous or discrete form	5,526,463	06/11/96	06/22/10	Nuance Communications, Inc.
Speech recognition system utilizing pre-calculated similarity measurements	5,546,499	13-Aug-1996	27-May-2014	Nuance Communications, Inc.

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Method for Electronically Generating a Spoken Message	5,592,585	07-Jan-1997	26-Jan-2015	Nuance Communications, Inc.
Apparatus and Method For Retrieving and Grouping Images Representing Text Files Based on the Relevance of Key Words Extracted from a Selected File to the Text Files	5,598,557	28-Jan-1997	28-Jan-2014	Nuance Communications, Inc.
Method and Apparatus for Manipulating an Input Signal to Form an Output Signal Having a Different Length	5,611,002	11-Mar-1997	11-Mar-2014	Nuance Communications, Inc.
Device for Generating Announcement Information	5,621,891	15-Apr-1997	15-Apr-2014	Nuance Communications, Inc.
Preprocessing Means for Use in a Pattern Classification System	5,657,397	12-Aug-1997	15-Feb-2014	Nuance Communications, Inc.
Speech recognition system for electronic switches in a non-wireline communications network	5,659,597	19-Aug-1997	19-Aug-2014	Nuance Communications, Inc.
Character recognition method utilizing compass directions and torsion points as features	5,659,633	19-Aug-1997	19-Aug-2014	Advanced Recognition Technologies, Inc.
Method for Organizing Incremental Search Dictionary	5,671,426	23-Sep-1997	23-Sep-2014	Nuance Communications, Inc.
Speech Recognition System Using Arbitration between Continuous Speech and Isolated Word Modules/KURZWEIL	5,677,991	14-Oct-1997	30-Jun-2015	Nuance Communications, Inc.
Systems and methods for word recognition	5,680,511	10/21/97	06/07/15	Nuance Communications, Inc.
Word Model Candidate Preselection for Speech Recognition Using Precomputed Matrix of Thresholded Distance Values	5,682,464	28-Oct-1997	28-Oct-2014	Nuance Communications, Inc.
User adaptable speech recognition system	5,684,924	04-Nov-1997	19-May-2015	Nuance Communications, Inc.
Apparatuses and methods for developing and using models for speech recognition	5,715,367	02/03/98	01/23/15	Nuance Communications, Inc.
Apparatus for Electronically Generating a Spoken Message	5,727,120	10-Mar-1998	26-Jan-2015	Nuance Communications, Inc.

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Method and Apparatus for Providing a Human-Machine Dialog Supportable By Operator Intervention	5,745,877	28-Apr-1998	16-Jan-2016	Nuance Communications, Inc.
System and Method for Outputting Spoken Information in Response to Input Speech Signals	5,754,736	19-May-1998	8-Sep-2015	Nuance Communications, Inc.
Speech recognition system for languages with compound words	5,754,972	05/19/98	03/06/12	Nuance Communications, Inc.
Multiple nonlinear undo buttons	5,757,372	26-May-1998	16-Jan-2016	Nuance Communications, Inc.
Method and Apparatus for Facilitating Speech Barge-In In Connection With Voice Recognition Systems	5,765,130	9-Jun-1998	21-May-2016	SpeechWorks International, Inc.
Building speech models for new words in a multi-word utterance	5,765,132	06/09/98	10/26/15	Nuance Communications, Inc.
Handwriting recognizer with estimation of reference lines	5,774,582	30-Jun-1998	23-Jan-2015	Advanced Recognition Technologies, Inc.
Method and Apparatus for Compressing Color or Gray Scale Documents	5,778,092	07-Jul-1998	20-Dec-2016	Nuance Communications, Inc.
Continuous speech recognition	5,794,189	08/11/98	11/13/15	Nuance Communications, Inc.
Speech RecognitionSystem Distinguishing Dictation from Commands by Arbitration Between Continuous Speech and Isolated Word Modules	5,794,196	11-Aug-1998	30-Jun-2015	Nuance Communications, Inc.
Continuous speech recognition of text and commands	5,799,279	08/25/98	11/13/15	Nuance Communications, Inc.
Methods and apparatus for detecting harmonic structure in a waveform	5,809,453	09/15/98	01/25/16	Nuance Communications, Inc.
Method of Selecting Dynamic Time Warping Array Elements	5,809,465	15-Sep-1998	29-Mar-2016	Advanced Recognition Technologies, Inc.
Method for Rapidly and Efficiently Hashing Records of Large Databases	5,809,494	15-Sep-1998	16-Nov-2015	SpeechWorks International, Inc.
Voice controlled cursor movement	5,818,423	10/06/98	04/11/15	Nuance Communications, Inc.

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Lexical tree pre-filtering in speech recognition	5,822,730	10/13/98	08/22/16	Nuance Communications, Inc.
Device for Generating Announcement Information with Coded Items That Have a Prosody Indicator, a Vehicle Provided with Such Device, and an Encoding Device for Use in a System for Generating Such Announcement Information	5,845,250	1-Dec-1998	30-May-2016	Nuance Communications, Inc.
Apparatuses and methods for training and operating speech recognition systems	5,850,627	12/15/98	11/13/12	Nuance Communications, Inc.
Status graph problem detection for user feedback	5,860,059	12-Jan-1999	5-Mar-2017	Nuance Communications, Inc.
Pattern Recognition Employing Arbitrary Segmentation and Compound Probabilistic Evaluation	5,862,259	19-Jan-1999	27-Mar-2016	Nuance Communications, Inc.
Blind Clustering of Data with Application to Speech Processing Systems	5,862,519	19-Jan-1999	1-Apr-2017	SpeechWorks International, Inc.
System and Method for Remotely Grouping Contents of an Action History Stack	5,890,181	30-Mar-1999	14-Nov-2116	Nuance Communications, Inc.
Method and Device for Preparing and Using Diphones for Multilingual Text-to-Speech Generating	5,897,617	27-Apr-1999	02-Aug-2016	Nuance Communications, Inc.
Speech recognition	5,903,864	05/11/99	08/30/15	Nuance Communications, Inc.
Speech recognition system which creates acoustic models by concatenating acoustic models of individual words	5,909,666	06/01/99	11/13/12	Nuance Communications, Inc.
System and Method for Providing and Using Universally Accessible Voice and Speech Data Files	5,915,001	22-Jun-1999	14-Nov-2016	Nuance Communications, Inc.
Word recognition system which alters code executed as a function of available computational resources	5,915,236	06/22/99	11/13/12	Nuance Communications, Inc.
Word recognition system using language context at current cursor position to affect recognition probabilities	5,920,836	07/06/99	11/13/12	Nuance Communications, Inc.

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Word recognition system which stores two models for some words and allows selective deletion of one such model	5,920,837	07/06/99	11/13/12	Nuance Communications, Inc.
Speech signal distribution system providing linguistic	5,943,648	24-Aug-1999	25-Apr-2016	Nuance Communications, Inc.
Speaker identification using unsupervised speech models	5,946,654	08/31/99	02/21/17	Nuance Communications, Inc.
Setting a microphone volume level	5,949,886	09/07/99	10/26/15	Nuance Communications, Inc.
Method of Speech Command Recognition with Dynamic Assignment of Probabilities According to the State of the Controlled Applications	5,960,394	09/28/99	11/13/12	Nuance Communications, Inc.
Apparatus and Method for Hybrid Excited Linear Prediction Speech Encoding	5,963,897	5-Oct-1999	27-Feb-2018	Nuance Communications, Inc.
Historical Database Storing Relationships of Successively Spoken Words	5,970,448	19-Oct-1999	27-Jul-2010	Nuance Communications, Inc.
Speech Recognition and Editing System	5,970,460	19-Oct-1999	05-Dec-2017	Nuance Communications, Inc.
Pattern recognition method and system	5,982,929	9-Nov-1999	7-Apr-2015	Advanced Recognition Technologies, Inc.
Speech recognition system which turns its voice response on for confirmation when it has been turned off without confirmation	5,983,179	11/09/99	11/13/12	Nuance Communications, Inc.
A Method and Device for Recognizing Speech in a Spelling Mode Including Word Qualifiers	5,987,410	16-Nov-1999	10-Nov-2017	Nuance Communications, Inc.
Method and Apparatus for Continuous Spelling Speech Recognition with Early Identification	5,995,928	30-Nov-1999	02-Oct-2016	SpeechWorks International, Inc.
Speech Recognition Method and System Using Compressed Speech Data	6,003,004	14-Dec-1999	8-Jan-2018	Advanced Recognition Technologies, Inc.
A handwritten pattern recognizer with selective feature weighting	6,023,529	8-Feb-2000	14-Sep-2015	Advanced Recognition Technologies, Inc.
Sequential, nonparametric speech	6,029,124	02/22/00	02/21/17	Nuance Communications,

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recognition and speaker identification				Inc.
Method and Apparatus for Executing a Human-Machine Dialogue in the Form of Two-Sided Speech as Based on a Modular Dialogue Structure	6,035,275	7-Mar-2000	9-Jan-2018	Nuance Communications, Inc.
Optical Character Recognition Method and Apparatus	6,038,342	14-Mar-2000	14-Mar-2017	Nuance Communications, Inc.
Robust Speech Processing with Affine Transform Replicated Data	6,038,528	14-Mar-2000	17-Jul-2016	SpeechWorks International, Inc.
Accelerated convolution noise elimination	6,044,340	28-Mar-2000	13-Feb-2018	Nuance Communications, Inc.
Automatic Language Identification System for Multilingual Optical Character Recognition	6,047,251	04-Apr-2000	15-Sep-2017	Nuance Communications, Inc.
Text segmentation	6,052,657	04/18/00	11/25/17	Nuance Communications, Inc.
Apparatus and Method for Elecironically Generating a Spoken Message	6,052,664	18-Apr-2000	18-Dec-2007	Nuance Communications, Inc.
Generic Run-Time Engines for Interfacing Between Applications and Speech Engines	6,058,366	2-May-2000	25-Feb-2019	Nuance Communications, Inc.
Apparatus that detects voice energy during prompting by a voice recognition system	6,061,651	9-May-2000	21-May-2016	SpeechWorks International, Inc.
Error correction in speech recognition	6,064,959	05/16/00	03/28/17	Nuance Communications, Inc.
Speech recognition system which selects one of a plurality of vocabulary models	6,073,097	06/06/00	11/13/12	Nuance Communications, Inc.
Language independent speech recognition	6,085,160	04-Jul-2000	10-Jul-2018	Nuance Communications, Inc.
Continuous speech recognition of text and commands	6,088,671	07/11/00	11/13/15	Nuance Communications, Inc.
Apparatuses and method for training and operating speech recognition systems	6,092,043	07/18/00	11/13/12	Nuance Communications, Inc.
Pronunciation generation in speech recognition	6,092,044	07/18/00	03/28/17	Nuance Communications, Inc.

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Apparatuses and methods for training and operating speech recognition systems	6,101,468	08/08/00	11/13/12	Nuance Communications, Inc.
Interactive searching	6,112,172	08/29/00	03/31/18	Nuance Communications, Inc.
System Architecture for and Method of Voice Processing	6,119,087	12-Sep-2000	13-Mar-2018	Nuance Communications, Inc.
Speech recognition using multiple recognizers (selectively) applied to the same input sample	6,122,613	09/19/00	01/30/17	Nuance Communications, Inc.
Pronoun semantic analysis system and method	6,125,342	26-Sep-2000	18-Nov-2017	Nuance Communications, Inc.
System for Controlling Multiple User Application Programs by Spoken Input	6,125,347	26-Sep-2000	26-Sep-2017	Nuance Communications, Inc.
Command Parsing and Rewrite System	6,138,098	10/24/00	26-Jun-2018	Nuance Communications, Inc.
Rapid adaptation of speech models	6,151,575	11/21/00	10/28/17	Nuance Communications, Inc.
Speech recognition system for electronic switches in a non-wireline communications network	6,157,848	05-Dec-2000	13-Apr-2012	Nuance Communications, Inc.
Speech-Recognition-Assisted Selective Suppression of Silent and Filled Speech Pauses During Playback of an Audio Recording	6,161,087	12-Dec-2000	5-Oct-2018	Nuance Communications, Inc.
Non-interactive enrollment in speech recognition	6,163,768	12/19/00	06/15/18	Nuance Communications, Inc.
Speech recognition language models	6,167,377	12/26/00	03/28/17	Nuance Communications, Inc.
System and Method for Developing Interactive Speech Applications	6,173,266	9-Jan-2001	6-May-2018	Nuance Communications, Inc.
User-cued speech recognition	6,195,635	02/27/01	08/13/18	Nuance Communications, Inc.
Pattern recognition system	6,195,638	27-Feb-2001	29-Mar-2016	ART - Advanced Recognition Technologies, Inc.

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Enrollment in speech recognition	6,212,498	04/03/01	03/28/17	Nuance Communications, Inc.
Method of Analyzing Dialogs in a Natural Language Speech Recognition System	6,219,643	17-Apr-2001	26-Jun-2018	Nuance Communications, Inc.
Speech recognition using nonparametric speech models	6,224,636	05/01/01	02/28/17	Nuance Communications, Inc.
A Voice Processing and Verification System for Verifying a User	6,233,556	15-May-2001	16-Dec-2018	Nuance Communications, Inc.
Computer-based document management system	6,237,011	22-May-2001	08-Oct-2017	Nuance Communications, Inc.
Speech recognition system employing discriminatively trained models	6,260,013	10-Jul-2001	14-Mar-2017	Nuance Communications, Inc.
Method and Apparatus for Facilitating Speech Barge-In In Connection with Voice Recognition Systems	6,266,398	24-Jul-2001	21-May-2016	SpeechWorks International, Inc.
Multi-Resolution System and Method for Speaker Verification	6,272,463	07-Aug-2001	03-Mar-2018	Nuance Communications, Inc.
Electronic document manager	6,272,484	07-Aug-2001	27-May-2018	Nuance Communications, Inc.
Interleaved forward backward search algorithm having flat model state organization for large vocabulary speech recognition	6,275,802	14-Aug-2001	07-Jan-2019	Nuance Communications, Inc.
Method & System for Building and Running Natural Language Understanding Systems	6,292,767	18-Sep-2001	21-Dec-2015	Nuance Communications, Inc.
System and Method for Modeless Large Vocabulary Speech Recognition	6,292,779	18-Sep-2001	09-Mar-2019	Nuance Communications, Inc.
Speech Recognition and Verification System Enabling Authorized Data Transmission Over Networked Computer Systems	6,292,782	18-Sep-2001	9-Sep-2016	Nuance Communications, Inc.
An instruction and/or identification input unit	6,298,146	2-Oct-2001	19-Jun-2017	Advanced Recognition Technologies, Inc.
An instruction and/or an identification input unit	6,298,147	2-Oct-2001	19-Jun-2017	Advanced Recognition Technologies, Inc.

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Speech controlled computer user interface	6,311,159	30-Oct-2001	5-Oct-2019	Nuance Communications, Inc.
Method and Apparatus for Creating Modifiable and Combinable Speech Objects for Acquiring Information from a Speaker in an Interactive Voice Response System	6,314,402	6-Nov-2001	23-Apr-2019	Nuance Communications, Inc.
Distributed Hardware Sharing for Speech Processing	6,327,568	4-Dec-2001	10-Nov-2018	Nuance Communications, Inc.
Instruction and/or identification input unit	6,335,726	1-Jan-2002	19-Jun-2017	Advanced Recognition Technologies, Inc.
Handwriting recognition system	6,339,655	15-Jan-2002	28-Jul-2014	ART - Advanced Recognition Technologies, Inc.
Compound Words in Speech Recognition Systems	6,349,282	19-Feb-2002	20-Apr-2019	Nuance Communications, Inc.
Method and System for Performing Text Edits During Audio Recording Playback	6,360,237	19-Mar-2002	5-Oct-2018	Nuance Communications, Inc.
Vocoder-Based Voice Recognizer	6,377,923	23-Apr-2002	5-Oct-2019	Advanced Recognition Technologies, Inc.
Method and Apparatus for Improved Speech Recognition by Modifying a Pronunciation Dictionary Based on Pattern Definitions of Alternative Word Pronunciations	6,389,394	14-May-2002	09-Feb-2020	SpeechWorks International, Inc.
Speech Recognition System for Compound Words	6,393,399	05/21/02	09/30/18	Nuance Communications, Inc.
System and Method for Providing and Using Universally Accessible Voice and Speech Data Files	6,400,806	4-Jun-2002	14-Nov-2016	Nuance Corporation
Improving Performance of an Interactive Speech Application	6,405,170	11-Jun-2002	22-Sep-2018	SpeechWorks International, Inc.
Non-interactive enrollment in speech recognition	6,424,943	07/23/02	06/15/18	Nuance Communications, Inc.
Automatically Determining Words for Updating in a Pronunciation Dictionary in a Speech Recognition System	6,434,521	13-Aug-2002	24-Jun-2019	SpeechWorks International, Inc.

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Method and Apparatus for Creating and Editing Grammars for Speech Recognition	6,434,523	13-Aug-2002	23-Apr-2019	Nuance Communications, Inc.
User Interface for Speech Recognition System Grammars	6,456,972	24-Sep-2002	30-Sep-2019	Nuance Communications, Inc.
Apparatus and Method for Distinguishing Similar-Sounding Utterances Speech Recognition	6,487,532	26-Nov-2002	24-Sep-2018	Nuance Communications, Inc.
A distributed client-server speech recognition system	6,487,534	26-Nov-2002	23-Mar-2020	Nuance Communications, Inc.
Automatic Orthographic Transformation of a Text Stream	6,490,549	03-Dec-2002	30-Mar-2020	Nuance Communications, Inc.
Discriminatively Trained Mixture Models in Continuous Speech Recognition	6,490,555	03-Dec-2002	14-Mar-2017	Nuance Communications, Inc.
Method and Apparatus for Dynamic Adaptation for a Large Vocabulary Speech Recognition System and for Use of Constraints from a Database in a Large Vocabulary Speech Recognition System	6,501,833	12/31/02	09-May-2016	SpeechWorks International, Inc.
Speech recognition system for electronic switches in a non-wireline communications network	6,501,966	31-Dec-2002	13-Apr-2012	Nuance Communications, Inc.
Auto Attendant Having Natural Names Database Library	6,502,075	31-Dec-2002	26-Mar-2019	Nuance Communications, Inc.
Method of and Arrangement for Executing a Data Base Query	6,513,037	28-Jan-2003	17-Aug-2019	Nuance Communications, Inc.
Model Adaptation of Neural Tree Networks and Other Fused Models for Speaker Verification	6,519,561	11-Feb-2003	3-Nov-2018	Nuance Communications, Inc.
Dynamic Semantic Control of a Speech Recognition System	6,519,562	11-Feb-2003	25-Feb-2019	SpeechWorks International, Inc.
Method and System for Generating Semi-Literal Transcripts for Speech Recognition Systems	6,535,849	18-Mar-2003	18-Jan-2020	Nuance Communications, Inc.
Segmentation Approach for Speech Recognition Systems	6,535,851	18-Mar-2003	24-Mar-2020	SpeechWorks International, Inc.

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Method and Apparatus for Providing Active Help to a User of a Voice-Enabled Application	6,560,576	6-May-2003	25-Apr-2020	Nuance Communications, Inc.
Natural Language Speech Recognition Using Slot Semantic Confidence Scores Related to Their Word Recognition Confidence Scores	6,567,778	20-May-2003	23-Jun-2019	Nuance Communications, Inc.
Technique for Recognizing Telephone Numbers and Other Spoken Information Embedded in Voice Messages Stored in a Voice Messaging System	6,570,964	27-May-2003	16-Apr-2019	Nuance Communications, Inc.
Position manipulation in speech recognition	6,601,027	07/29/03	11/13/15	Nuance Communications, Inc.
Word boundary acoustic units	6,606,594	12-Aug-2003	29-Sep-2019	Nuance Communications, Inc.
Statistical computing and reporting for interactive speech applications	6,606,598	12-Aug-2003	21-Sep-2019	SpeechWorks International, Inc.
Method and apparatus for automatically processing a user's communication	6,625,600 B2	23-Sep-03	April 12, 2021 + 364 day term adjustment	Telelogue, Inc.
Method and System for Building and Running Natural Language Understanding Systems	6,629,066	30-Sep-2003	21-Dec-2015	Nuance Communications, Inc.
Load-adjusted speech recognition	6,629,075	30-Sep-2003	09-Jun-2020	SpeechWorks International, Inc.
Automatic Inquiry Method and System	6,647,363	11-Nov-2003	9-Oct-2018	Nuance Communications, Inc.
Speech Synthesis Using Concatenation of Speech Waveforms	6,665,641	16-Dec-2003	12-Nov-2019	Nuance Communications, Inc.
Pattern recognition system	6,668,081	23-Dec-2003	26-Oct-2017	ART - Advanced Recognition Technologies, Inc.
System and method for pre-processing information used by an automated attendant	6,671,670 B2	30-Dec-03	June 27, 2021 + 206 day term adjustment	Telelogue, Inc.

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Voice Authentication System Having Cognitive Recall Mechanism for Password Verification	6,671,672	30-Dec-2003	30-Mar-2019	Nuance Communications, Inc.
Recursively excited linear prediction speech coder	6,704,703	09-Mar-2004	15-Oct-2021	Nuance Communications, Inc.
Handwriting Input Device and Method Using A Single Character Set	6,724,936	20-Apr-2004	23-Aug-2020	ART — Advanced Recognition Technologies, Inc.
Method and System for Dynamically Improving Performance of Speech Recognition or Other Speech Processing Systems	6,728,677	27-Apr-2004	31-Jan-2021	Nuance Communications, Inc.
Points based handwriting recognition system	6,731,803	4-May-2004	12-Jul-2020	Advanced Recognition Technologies, Inc.
Distributed Computing Document Recognition and Processing	6,742,161	25-May-2004	7-Mar-2020	Nuance Communications, Inc.
Adaptation of Speech Recognition System Across Multiple Remote Sessions with a Speaker	6,766,295	20-Jul-2004	10-May-2019	Nuance Communications, Inc.
Method and Apparatus for Facilitating Speech Barge-In In Connection with Voice Recognition Systems	6,785,365	31-Aug-2004	21-May-2016	SpeechWorks International, Inc.
Distributed Voice Web Architecture and Associated Components and Methods	6,785,653	31-Aug-2004	1-May-2020	Nuance Communications, Inc.
Automatically Retraining a Speech Recognition System	6,789,062	7-Sep-2004	25-Feb-2020	SpeechWorks International, Inc.
Signal noise reduction using magnitude-domain spectral subtraction	6,804,640	12-Oct-2004	29-Feb-2020	Nuance Communications, Inc.
Method and System for On-Line Unsupervised Adaptation in Speaker Verification	6,804,647	12-Oct-2004	13-Mar-2021	Nuance Communications, Inc.
Computer-based document management system	6,810,404	26-Oct-2004	29-Aug-2019	Nuance Communications, Inc.
Computer-based document management system	6,820,094	16-Nov-2004	08-Oct-2017	Nuance Communications, Inc.
Performing actions identified in	6,839,669	01/04/05	06/10/19	Nuance Communications,

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recognized speech				Inc.
Query Expansion and Weighting Based on Results of Automatic Speech Recognition	6,856,957	15-Feb-2005	7-Feb-2021	Nuance Communications, Inc.
Method and Apparatus for Optimizing a Spoken Dialog Between a Person and a Machine	6,859,776	22-Feb-2005	4-Oct-2019	Nuance Communications, Inc.
Load-adjusted speech recognition	6,862,570	01-Mar-2005	09-Jun-2020	Nuance Communications, Inc.
Prosody based endpoint detection	6,873,953	29-Mar-2005	22-May-2020	Nuance Communications, Inc.
System and Method for Providing and Using Universally Accessible Voice and Speech Data Files	6,885,736	26-Apr-2005	14-Nov-2016	Nuance Communications, Inc.
Error correction in speech recognition	6,912,498	06/28/05	05/02/21	Nuance Communications, Inc.
Noise-level adaptive residual echo suppressor	6,959,167	25-Oct-2005	10-Aug-2021	Nuance Communications, Inc.
Quick connect-disconnect coupling for snow plow	4,962,599	16-Oct-1990		DSP, Inc. d/b/a Diamond Equipment
Linguistic prosodic model-based text to speech	6,961,704	1-Nov-2005		SpeechWorks International, Inc.
Reduced unit database generation based on cost information	6,988,069	17-Jan-2006		SpeechWorks International, Inc.
Recording medium and information recording and reproducing apparatus therefor	5,436,883	25-Jul-1995		Pioneer Electronic Corporation
Method and apparatus for funding education by acquiring shares of students future earnings	5,809,484	15-Sep-1998		Human Capital Resources, Inc.
Catalyst for deep oxidation of carbon oxide and organic compounds	5,880,059	9-Mar-1999		INSTITUT KATALIZA IMENI G.K. BORESKOVA SIBIRSKOGO OTDELENIA ROSSIYSKOI AKADEMII NAUK

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Postfilter	6,629,068	30-Sep-2003		NOKIA CORPORATION
Process for preparing Flux suitable for soldering light metals such as aluminum	6,221,129	24-Apr-2001		Solvay Fluor und Derivate GmbH
Sodium oxamate for the treatment of diabetic conditions	6,300,375	09-Oct-2001		Rhone-Poulenc Rorer SA, Institut Malgache DeRecherches Appliquees
Coherent laser radar device	6,765,654	20-Jul-2004		Mitsubishi Denki Kabushiki Kaisha
Compensating for ambient noise levels in text-to-speech applications	6,988,068	17-Jan-2006		Nuance Communications, Inc.
Correcting geometry and intensity distortions in MR data	6,788,062	7-Sep-2004		Stryker Leibinger GmbH & Co., KG
Process for Producing Langmuir-Blodgett Film	5,908,666	06/01/1999		Toyota Jidosha Kabushiki Kaisha
Concurrent Legacy and Native Code Execution Techniques	6,272,453	08/07/2001		Northrop Grumman Systems Corporation

Patent Applications

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Corpus-based prosody translation system	01/30666	01-Oct-2001	Nuance Communications, Inc. (L&H)
Handwriting recognition system using sub-stroke analysis (art)	08/282,187	28-Jul-1994	ART—Advanced Recognition Technologies, Inc.
Method and System for Visual and Sound Pattern Recognition	08/366,164	29-Dec-1994	ART — Advanced Recognition Technologies, Inc.
An instruction and/or an identification unit	08/878,741	19-Jun-1997	ART — Advanced Recognition

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			Technologies, Inc.
System for and Method of Creating and Browsing a Voice Web	09/203,155	1-Dec-1998	Nuance Communications, Inc.
A speech recognition system to selectively utilize different speech recognition techniques over multiple speech recognition passes	09/294,847	20-Apr-1999	Nuance Communications, Inc.
Expanding an Effective Vocabulary of a Speech Recognition System	09/390,370	7-Sep-99	Nuance Communications, Inc. (Dragon Systems, Inc.)
Tool for Graphically Defining Dialog Flows and for Establishing Operational Links Between Speech Applications and Hypermedia Content in an Interactive Voice Response Environment	09/412,050	4-Oct-1999	Nuance Communications, Inc.
Method and Apparatus for Discriminative Training of Acoustic Models of a Speech Recognition System	09/433,609	02-Nov-1999	SpeechWorks International, Inc.
Automatic Creation of a Destination Map for Automated Call Handling	09/524,055	13-Mar-2000	Nuance Communications, Inc.
Touchpad Holder for Gear Shift	09/661,126	13-Sep-2000	ART — Advanced Recognition Technologies, Inc.
Speech Recognition using Word-in-Phrase Command	09/696,685	26-Oct-00	Nuance Communications, Inc. (L & II Holdings USA, Inc.)
Temporary Password Assignment Based on Biometric Verification to Control Access to Secure Content	09/718,972	22-Nov-2000	Nuance Communications, Inc.
Handwriting Input Device and Method Using A Single Character Set	09/733,916	20-Oct-2001	ART — Advanced Recognition Technologies, Inc.
Method and Apparatus for Improving Human–Machine Dialogs Using Language Models Learned Automatically From Personalized Data	09/813,711	20-Mar-2001	Nuance Communications, Inc.
Speech Processor Apparatus and System	09/854,137	11-May-2001	Nuance Communications, Inc. (L&H)
Methods and Systems of Routing Utterances Based on Confidence Estimates	09/878,173	12-Jun-01	Nuance Communications, Inc.

Patent Title	Application #	Filing Date	Owner
			(L&H Holdings USA, Inc. (by virtue of assignment) and DRAGON SYSTEMS, INC. (by virtue of employment contract))
Speech Recognition with Dynamic Grammars	09/906,390	16-Jul-2001	SpeechWorks International, Inc.
Speech Recognition with Dynamic Grammars	09/906,390	16-Jul-01	SpeechWorks International, Inc.
Grammars for Speech Recognition	09/906,575	16-Jul-2001	SpeechWorks International, Inc.
Client-server speech recognition	09/937,419	07-Mar-2000	Nuance Communications, Inc. (Philips)
Fast Waveform Synchronization for Concatenation and Time-Scale Modification of Speech	09/953,075	14-Sep-2001	Nuance Communications, Inc. (L&H)
Non-target barge-in detection	10/014,300	26-Oct-2001	SpeechWorks International, Inc.
Method and Apparatus for Efficient Segmentation of Compound Words Using Probabilistic Breakpoint Traversal	10/425,528	18-Oct-2001	Nuance Communications, Inc.
Detection of Characteristics of Human-Machine Interactions for Dialog Customization and Analysis	10/046,026	11-Jan-2002	Nuance Communications, Inc.
Method and System for Improving Robustness in a Speech System	10/081,177	21-Feb-2002	Nuance Communications, Inc.
A vocoder based voice recognizer	10/081,350	22-Jan-2002	ART — Advanced Recognition Technologies, Inc.
Method for the operation of an automatic telephone information system	10/117,853	8-Apr-2002	Nuance Communications, Inc. (Philips)
Dynamic barge-in	10/140,526	6-May-2002	Nuance
Language persistence in distributed voice applications	10/252,859	23-Sep-2002	Nuance Communications; Inc. (Philips)

Patent Title	Application #	Filing Date	Owner
Method and System for Automatically Optimizing Recognition Configuration Parameters for Speech Recognition Systems	10/260,383	27-Sep-2002	Nuance Communications, Inc.
Multi-Lingual Speech Recognition with Cross Language Context Modeling	10/287,438	4-Nov-2002	SpeechWorks International, Inc.
Multi-lingual Speech Recognition with Cross-Language Context Modeling	10/287,438	4-Nov-02	SpeechWorks International, Inc.
Language model for use in speech recognition	10/29,901	15-Nov-02	ScanSoft, Inc.
Speech recognition system for electronic switches in a non-wireline communications network	10/308,653	03-Dec-2002	ScanSoft, Inc.
Distributed speech processing	10/309,794	3-Dec-2002	SpeechWorks International, Inc.
Adaptation of symbols	10/340,841	13-Jan-03	ART-Advanced Recognition Technologies Inc.
Call analysis	10/345,146	16-Jan-03	Nuance Communications, Inc. (Dragon Systems, Inc.)
System and method for automatically processing a user's request by an automated assistant	10/353,012	29-Jan-03	Telelogue, Inc.
Reduced Unit Database Generation Based on Cost Information	10/355,143	31-Jan-2003	SpeechWorks International, Inc.
Reduced Unit Database Generation Based on Cost Information	10/355,143	31-Jan-2003	Speechworks International, Inc.
Linguistic Prosodic Model-Based Text to Speech	10/355,296	31-Jan-2003	Speechworks International, Inc.
Dynamic semantic control of a speech recognition system	10/364,298	10-Feb-03	Speechworks International, Inc.
Command browser for use in speech recognition	10/395,261	25-Mar-03	ScanSoft, Inc.
Signal noise reduction using magnitude-domain spectral subtraction	10/458,021	9-Jun-2003	Nuance Communications, Inc.
Method for Learning Linguistically Valid Word Pronunciations from Acoustic Data	10/660,868	12-Sep-2003	Nuance Communications, Inc.
Method and System for Learning Linguistically	10/661,106	12-Sep-2003	Nuance

Patent Title	Application #	Filing Date	Owner
Valid Word Pronunciations from Acoustic Data			Communications, Inc.
Method for Learning Linguistically Valid Word Pronunciations from Acoustic Data	10/661,431	12-Sep-2003	Nuance Communications, Inc.
Random Confirmation in Speech Based Systems	10/683,017	10-Oct-2003	ScanSoft, Inc.
System and method for pre-processing information used by an automated attendant	10/699,794	4-Nov-03	Telelogue, Inc.
Automatic Insertion of Non-Verbalized Punctuation in Speech Recognition	10/718,042	21-Nov-03	ScanSoft, Inc.
Discriminative Training of Hidden Markov Models for Continuous Speech Recognition	10/719,682	21-Nov-2003	SpeechWorks
Speech Synthesis Using Concatenation of Speech Waveforms	10/724,659	01-Dec-2003	SpeechWorks
Method and Apparatus for Generating a Speech Recognition Based Call Routing System	10/753,311	7-Jan-2004	Nuance Communications, Inc.
Method and Apparatus for Generating a Speech-Recognition-Based Call-Routing System	10/753,590	7-Jan-2004	Nuance Communications, Inc.
Method and Apparatus for Generating a Speech Recognition Based Call Routing System	10/753,645	7-Jan-2004	Nuance Communications, Inc.
Apparatus and Methods for Speech Recognition	10/756,828	14-Jan-04	ART-Advanced Recognition Technologies Inc.
System and Method for a spoken Language Interface to a Large Database of Changing Records	10/840,377	7-May-04	Telelogue, Inc.
Method of Speech-Based Navigation in a Communications Network and of Implementing a Speech Input Possibility in Private Information Units	10/960,775	07-Oct-2004	Nuance Communications, Inc. (Phillips)
Random Confirmation in Speech Based Systems	10/999,773	30-Nov-2004	ScanSoft, Inc.
Corpus-Based Speech Synthesis Based on Segment Recombination	11/037,545	18-Jan-2005	ScanSoft, Inc.
Roaming User Profiles for Speech Recognition	11/264,358	1-Nov-2005	ScanSoft, Inc.
Linguistic Prosodic-Model Based Text to Speech	2004US0250 3	29-Jan-2004	SpeechWorks

Patent Title	Application #	Filing Date	Owner
Handwritten and Voice Control of Vehicle Components	60/084,520	7-May-1998	ART — Advanced Recognition Technologies, Inc.
Method for Training A Speech Recognition System and Apparatus For Practicing The Method	60/237,366	4-Oct-2000	ART — Advanced Recognition Technologies, Inc.
Voice control system with multiple voice recognition engines	60/254,644	7-Dec-2000	ART — Advanced Recognition Technologies, Inc.
Roaming User Profiles for Speech Recognition	60/624,129	01-Nov-2004	ScanSoft, Inc.
N-Best List Rescoring in Speech Recognition	60/636,671	16-Dec-2004	ScanSoft, Inc.
Mobile dictation correction user interface	60/638,652	22-Dec-2004	ScanSoft, Inc.
Partial Spelling in Speech Recognition	60/643,252	12-Jan-2005	ScanSoft, Inc.
Avoiding Repeated Misunderstandings in Spoken Dialog System by Using Skiplists	60/677,927	5-May-2005	Nuance Communications, Inc.
Algorithm for N-Best ASR Result Processing to Improve Accuracy in Spoken Dialog System	60/677,928	5-May-2005	Nuance Communications, Inc.
Incorporation of External Knowledge in Multimodal Dialog Systems	60/677,948	5-May-2005	Nuance Communications, Inc.
One Step Repair of Misrecognized Strings	60/726,797	14-Oct-2005	ScanSoft, Inc.
Noise spectrum subtraction method and system	09/755,131	8-Jan-2001	ART — Advanced Recognition Technologies, Inc.
Framework/Process for Generating Dialog Specifications, voicexml, Runnable Grammars, and Prototypes While Building out a Voice Application	60/662,490 (Abandoned)	15-03-2005	Nuance Communications, Inc.
N-Best List Rescoring in Speech Recognition	Pending	16-Dec-2005	ScanSoft, Inc.
Mobile dictation correction user interface	Pending	22-Dec-2005	ScanSoft, Inc.

Dictaphone Patents**Issued Patents**

County	Owner	Patent No.	Title
US	Dictaphone Corporation	4,790,002	Telephone Device and Method for Operating a Telephone Device
US	Dictaphone Corporation	4,794,474	Cue Signals and Cue Data Block for Use With Recorded Messages
US	Dictaphone Corporation	4,800,582	Method and Apparatus for Creating and Storing Telephone Directory Listings
US	Dictaphone Corporation	4,809,116	Modular Dictation/Transcription System Having Plural Recording Modules and a Common Display
US	Dictaphone Corporation	4,817,127	Modular Dictation/Transcription System
US	Dictaphone Corporation	4,817,132	Multi-Line Access Module for Telephone Set
US	Dictaphone Corporation	4,858,213	Display for Modular Dictation/Transcription System
US	Dictaphone Corporation	4,860,339	Programmable Telephone/Dictation Terminal and Method of Operating Same
US	Dictaphone Corporation	4,922,514	Method and Apparatus for Dispatching Services
US	Dictaphone Corporation	4,924,332	Display for Modular Dictation/Transcription System
US	Dictaphone Corporation	4,969,136	Communications Network and Method With Appointment Information Communication Capabilities
US	Dictaphone Corporation	4,975,894	Method and Apparatus for Controlling Dictation on or Transcription From Recording Units in a Dictation System
US	Dictaphone Corporation	4,975,896	Communications Network and Method
US	Dictaphone Corporation	5,008,871	Dictate/Transcribe Control for Digital Dictation System
US	Dictaphone Corporation	5,033,077	Voice Message Delivery to Unattended Station
US	Dictaphone Corporation	5,051,924	Method and Apparatus for the Generation of Reports
US	Dictaphone Corporation	5,146,439	Records Management System Having Dictation/Transcription Capability
US	Dictaphone Corporation	5,153,905	Priority Voice Message Delivery System
US	Dictaphone Corporation	5,163,085	Digital Dictation System with Voice Mail Capability

County	Owner	Patent No.	Title
US	Dictaphone Corporation	5,179,627	Digital Dictation System
US	Dictaphone Corporation	5,265,075	Voice Processing System with Editable Voice Files
US	Dictaphone Corporation	5,353,259	Voice Message Recovery System and Method
US	Dictaphone Corporation	5,404,455	Time Division Multiplexer Chip for Supporting Alternating Communication Between a Pair of RAMs and Two Different Interfaces
US	Dictaphone Corporation	5,524,261	Voice Processor Interface Chip With Arbitration Unit
US	Dictaphone Corporation	5,657,424	Isolated Word Recognition Using Decision Tree Classifiers and Time-Indexed Feature Vectors
US	Dictaphone Corporation	5,703,937	Voice Dictation Consulting System and Method
US	Dictaphone Corporation	5,898,916	Cordless Telephone For Use With Dictation System
US	Dictaphone Corporation	6,038,199	Portable Digital Audio Recorder With Adaptive Control Configurations
US	Dictaphone Corporation	6,308,158	Distributed Speech Recognition System with Multi-User Input Stations
US	Dictaphone Corporation	6,314,331	Enhanced User Control Operations for Sound Recording System
US	Dictaphone Corporation	6,321,129	Enhanced User Control Operations for Portable Digital Audio Recorder
US	Dictaphone Corporation	6,493,672	Automatic Distribution of Voice Files
US	Dictaphone Corporation	6,529,450	Hand Microphone Interfaced to Game Controller Port of Personal Computer
US	Dictaphone Corporation	6,571,211	Voice File Header Data in Portable Digital Audio Recorder
US	Dictaphone Corporation	6,578,007	Global Document Creation System Including Administrative Server Computer
US	Dictaphone Corporation	6,671,567	Voice File Management in Portable Digital Audio Recorder
US	Dictaphone Corporation	6,697,827	Palm Top Computer in Which Rocker Switch Controls Dictation Functions
US	Dictaphone Corporation	6,697,841	Dictation System Employing Computer-to-Computer Transmission of Voice Files Controlled by Hand Microphone

County	Owner	Patent No.	Title
US	Dictaphone Corporation	6,738,784	Document and Information Processing System
US	Dictaphone Corporation	6,766,294	Performance Gauge for a Distributed Speech Recognition System
US	Dictaphone Corporation	6,785,654	Distributed Speech Recognition System with Speech Recognition Engines Offering Multiple Functionalities
US	Dictaphone Corporation	D440,977	Docking Station
US	Dictaphone Corporation	D444,646	Display Stand
US	Dictaphone Corporation	D450,661	Transcription Foot Control
US	Dictaphone Corporation	D441,758	Front panel
US	Dictaphone Corporation	4,835,630	Modular configurable communications recorder

Patent Applications

County	Owner	Application No.	Publication	Title
US	Dictaphone	09/190,536	N/A	Intelligent Routing Of Voice Files in Voice Data Management System
US	Dictaphone	09/415,617	N/A	System and Method for Interfacing A Radiology Information System to a Central Dictation System
US	Dictaphone	09/984,873	2003-0083879	Dynamic Insertion of a Speech Recognition Engine Within a Distributed Speech Recognition System
US	Dictaphone	09/984,874	2003-0083883	Distributed Speech Recognition System
US	Dictaphone	10/305,022	2003-0091205	Hand Microphone Interfaced to Game Controller Port of Personal Computer
US	Dictaphone	10/375,045	2004-0172245	System and Method for Structuring Speech Recognized in Text into a Pre-Selected Document Format
US	Dictaphone	10/413,405	2004-0220895	Systems and Methods for Coding

County	Owner	Application No.	Publication	Title
				Information
US	Dictaphone and ScanSoft	10/424,134	2004-0049385	Systems and Methods Evaluating Speaker Suitability for Automatic Speech Recognition Aided Transcription
US	Dictaphone	10/424,139	2004-0215452	USB Dictation Device
US	Dictaphone and ScanSoft	10/424,140	2004-0088162	Systems and Methods for Automatic Acoustic Speaker Adaptation in Computer-Assisted Transcription Systems
US	Dictaphone	10/447,290	2004-0243545	Systems and Methods for Utilizing Natural Language Medical Records
US	Dictaphone	10/448,317	2004-0243614	Method, System, and Apparatus for Validation
US	Dictaphone	10/448,320	2004-0243551	Method, System, and Apparatus for Data Reuse
US	Dictaphone	10/448,325	2004-0243552	Method, System, and Apparatus for Viewing Data
US	Dictaphone	10/752,036	2004-0260779	Dictation System Employing Computer-to-Computer Transmission of Voice Files Controlled By Hand Microphone
US	Dictaphone	10/787,889	2005-0120020	System, Method and Apparatus for Prediction Using Minimal Affix Patterns
US	Dictaphone	10/840,428	2005-0228815	Categorization of Information Using Natural Language Processing Predefined Templates
US	Dictaphone	10/948,625	2005-0120300	Method, System, and Apparatus for Assembly, Transport and Display of Clinical Data
US	Dictaphone	10/951,281	2005-0207541	Method, System, and Apparatus for Repairing Audio Recordings
US	Dictaphone	10/951,291	2005-0114122	System and Method for Customizing Speech Recognition input and output

County	Owner	Application No.	Publication	Title
US	Dictaphone	10/953,448	2005-0144184	System and Method for Document Section Segmentation
US	Dictaphone	10/953,471	2005-0165598	System and Method for Modifying a Language Model and Post-Processor Information
US	Dictaphone	10/953,474	2005-0108010	System and Method for Post Processing Speech Recognition Output
US	Dictaphone	11/001,654	N/A	System and Method for Tokenization of Text Using Classifier Models
US	Dictaphone	11/007,626	2005-0165602	System and Method for Accented Modification of a Language Model
US	Dictaphone	11/068,493	2005-0192792	System and Method for Normalization of a String of Words
US	Dictaphone	11/069,203	2005-0192793	System and Method for Generating a Phrase Pronunciation
US	Dictaphone	11/105,905	N/A	System and Method for Adaptive Automatic Error Correction
US	Dictaphone	11/133,583	N/A	System and Method for MultiLevel Transcript Quality Checking
US	Dictaphone	11/191,814	N/A	System and Method for Report Level Confidence
US	Dictaphone	60/696,677	N/A	System and Method for Auto-Reuse of Document Text
US	Dictaphone	11/362,646	N/A	Systems and Methods for Filtering Dictated and Non-Dictated Sections of Documents
US	Dictaphone and ScanSoft	10/424,140	N/A	Systems and methods for automatic acoustic speaker adaptation in computer assisted transcription systems
US	Dictaphone	10/697,167	N/A	System and method for recording a call using a PBX (private branch exchange)