

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	LICENSE
CONVEYING PARTY DATA	
Name	Execution Date
Conexant Systems, Inc.	01/08/2003
RECEIVING PARTY DATA	
Name:	Conexant Systems, Inc.
Street Address:	4000 MacArthur Boulevard
City:	Newport Beach
State/Country:	CALIFORNIA
Postal Code:	92660
Name:	Skyworks Solutions, Inc.
Street Address:	20 Sylvan Road
City:	Woburn
State/Country:	MASSACHUSETTS
Postal Code:	01801
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12459168
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	01CON210P-CON2

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PATENT
REEL: 027202 FRAME: 0375

NAME OF SUBMITTER:

Farshad Farjani

Total Attachments: 11

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PATENT

REEL: 027202 FRAME: 0376

Patent License Agreement

Between

Conexant Systems, Inc.

And

Skyworks Solutions, Inc.

PATENT LICENSE AGREEMENT

This Patent License Agreement (this "**Agreement**") is made as of January 8, 2003 (the "**Effective Date**") by and between Conexant Systems, Inc., a Delaware corporation ("**Conexant**"), and Skyworks Solutions, Inc., a Delaware corporation ("**Skyworks**"). Conexant and Skyworks are sometimes referred to herein individually as a "Party" and collectively as the "Parties."

RECITALS

Intending to be legally bound, the Parties agree as follows:

AGREEMENT

1. DEFINITIONS. Capitalized terms not expressly defined elsewhere in this Agreement have the following meanings:

1.5 "MPEG Patents" means the patents and patent applications identified on Schedule 2 and all continuations, continuations-in-part, counterparts (U.S. and foreign), divisionals, re-examinations, reissues, and substitutions thereof (or other patents claiming priority therefrom) owned (now or in the future) by Conexant or any Subsidiary of Conexant.

1.8 "Products" means hardware products of any nature including systems, equipment, semiconductor devices, and components thereof, including software that is sold or distributed in connection with the systems, equipment, semiconductor devices and components.

1.12 "Speech Coder Patents" means the patents and patent applications identified on Schedule 4 and all continuations, continuations-in-part, counterparts (U.S. and foreign), divisionals, re-examinations, reissues, and substitutions thereof (or other patents claiming priority therefrom) owned (now or in the future) by Conexant or any Subsidiary of Conexant.

1.13 "Skyworks Product": A Product will be considered a Skyworks Product if the specifications and designs of such Product (taken as a whole) are developed or owned by, or exclusively licensed to, Skyworks or a Subsidiary of Skyworks (even if the specifications and designs of individual components of such Product are not owned by or exclusively licensed to Skyworks or a Subsidiary of Skyworks).

1.17 "WAN" means wide area network.

1.18 "Wireless Handset" means a communication device that (a) is capable of wireless communication of real-time voice (and may also be capable of communicating non-voice digital information), and (b) communicates directly to a Wireless WAN Infrastructure Product. The term "Wireless Handset" also includes components of the communication device (including integrated circuit components).

1.19 "Wireless WAN Infrastructure Products" means all equipment normally sold to wireless WAN service providers, including base stations, base station controllers, mobile switching center gateways, and current and future equivalents of base stations, base station controllers, and mobile switching center gateways.

2. SPEECH CODER PATENTS AND MPEG PATENTS

2.1 Exclusive License to Skyworks for Wireless Handset Field

(a) **Exclusive License Grant.** Subject to any preexisting licenses, Conexant hereby grants to Skyworks a fully-paid, royalty-free license under the Speech Coder Patents and MPEG Patents to make, have made, use, offer to sell, sell, export, and import Products in the field of Wireless Handsets only. This license is exclusive, subject to the rights reserved by Conexant in Section 2.1(d).

(b) **Duration of Exclusive License.** The exclusive license to the Speech Coder Patents and MPEG Patents in Section 2.1(a) will remain in effect, subject to Section 7.1, until all of the Speech Coder Patents and MPEG Patents have expired or been abandoned. This license is irrevocable except as expressly provided in Section 7.1.

12.12 Entire Agreement; Amendment. As to the subject matter hereof: (i) this Agreement, including its exhibits, sets forth the entire agreement between Conexant and Skyworks; (ii) no promise, inducement, understanding, or agreement not expressly contained herein has been made; and (iii) this Agreement merges and supersedes any and all previous writings, agreements, understandings, and negotiations between the Parties regarding the subject matter of this Agreement. The foregoing shall not be construed to amend or in any way modify any other agreement between the Parties dealing with other matters. This Agreement may not be amended, modified, or supplemented by the Parties in any manner, except by an instrument in writing signed by Conexant and Skyworks and specifically reciting that it amends this Agreement.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date by the undersigned duly authorized representatives of each Party.

CONEXANT SYSTEMS, INC.

By: _____

Name: _____

Title: _____

SKYWORKS SOLUTIONS, INC.

By: _____

Name: _____

Title: _____

Schedule 4 – Speech Coder Patents

	Docket Number	Application Title
1	00CXT0010N/US	Rate Determination Coding
2	00CXT0048N/US	Double Talk Detector for Echo Cancellation in a Speech Communication System
3	00CXT0053N/US	Intelligent Discontinuous Transmission and Comfort Noise Generation Scheme for Pulse Code Modulation Speech Coders
4	00CXT0063/US	Controlling a Weighting Filter Based on the Spectral Content of a Speech Signal
5	00CXT0065N/US	Injecting High Frequency Noise Into Pulse Excitation for Low-Bit Rate CELP
6	00CXT0065N/US/2	Injecting High Frequency Noise Into Pulse Excitation for Low-Bit Rate CELP
7	00CXT0182N/US	Adaptive Speech Coder Having Code Excited Linear Predictor with Multiple Codebook Searches
8	00CXT0196N/US	Adaptive Speech Coder Having Code Excited Linear Prediction
9	00CXT0200N/US	Methods and Apparatus for Reconstructing Non-Quantized Adaptively Transformed Voice Signals
10	00CXT0201N/US	Adaptive Transform Coder Having Long Term Predictor
11	00CXT0202N/US	Speech Specific Adaptive Transform Coder
12	00CXT0336N/US	A Speech Communication System and Method for Handling Lost Frames
13	00CXT0553/US	Coding Based on Spectral Content of a Speech Signal
14	00CXT0554N/US/0	Speech Coding System with Time-Domain Noise Attenuation
15	00CXT0554N/US/1	Speech Coding System with Time-Domain Noise Attenuation
16	00CXT0569N/US	System for Improved Use of Pitch Enhancement with Subcodebooks
17	00CXT0569N/US/2	System for Improved Use of Pitch Enhancement with Subcodebooks
18	00CXT0573N/US	System of Dynamic Pulse Position Tracks for Pulse-Like Excitation in Speech Coding
19	00CXT0573N/US/1	System of Dynamic Pulse Position Tracks for Pulse-Like Excitation in Speech Coding
20	00CXT0579N/US	Rate Selection Algorithm For Selectable Mode Vocoder (SMV).
21	00CXT0584C/US	Frequency Domain Noise Suppressor

Schedule 4 – Speech Coder Patents

Docket Number	Application Title
22 00CXT0603N/US	System to Reduce Distortion Due to Coding With a Sample-By-Sample Quantizer
23 00CXT0655N/US	Speech Coding System with Input Signal Transformation
24 00CXT0665N/US	System of Encoding and Decoding Speech Signals
25 00CXT0666N/US	Short-Term Enhancement in CELP Speech Coding
26 00CXT0666N/US/1	Short-Term Enhancement in CELP Speech Coding
27 00CXT0667N/US	Signal Processing System for Filtering Spectral Content of a Signal for Speech Encoding
28 00CXT0667N/US/1	Signal Processing System for Filtering Spectral Content of a Signal for Speech Encoding
29 00CXT0667N/US/2	Signal Processing System for Filtering Spectral Content of a Signal for Speech Encoding
30 00CXT0668N/US	Bitstream Protocol For Transmission of Encoded Voice Signals
31 00CXT0669N/US	Codebook Tables for Encoding and Decoding
32 00CXT0670N/US	System for Coding Speech Information Using an Adaptive Codebook with Enhanced Variable Resolution Scheme
33 00CXT0670N/US/1	Adaptive Codebook Handling Pitch Lag
34 00CXT0717N/US	An Endpoint Detection of Speech for Improved Speech Recognition in Noisy Environments
35 00CXT0717N/US/2	An Endpoint Detection of Speech for Improved Speech Recognition in Noisy Environments
36 01CXT0148/US	A Conversion Scheme for Silence Description Between Continuous Transmission Silence Description System and Discontinuous Transmission Silence Description System
37 93E041/US	Variable Speed Playback System
38 94E044/US	Pitch Lag Estimation System Using Frequency -Domain Lowpass Filtering of the Linear Predictive Coding Residual
39 94E044/US/1	Pitch Lag Estimation System Using Frequency -Domain Lowpass Filtering of the Linear Predictive Coding Residual
40 94E056/US	Spike Code-Excited Linear Prediction
41 94E066/US	Low Bit-Rate Speech Coder Using Adaptive Open-Loop Subframe Pitch Lag Estimation and Vector Quantization
42 94E066/US/1	Low Bit-Rate Speech Coder Using Adaptive Open-Loop Subframe Pitch Lag Estimation and Vector Quantization

Schedule 4 – Speech Coder Patents

Docket Number	Application Title
43 94E071/US	Timing Recovery Scheme for Packet Speech in Multiplexing Environment of Voice with Data Applications
44 94E077/US	Delayed Decision Switched Prediction Multi-Stage LSF Vector Quantization
45 95E019/US	Speech Coding Employing Hybrid Linear Prediction Coding
46 95E020/US	Comb Codebook Structure
47 95E020/US/2	Fixed Codebook Structure Including Sub-Codebooks
48 95E023/US	Target Signal Reference Shifting Employed in Code-Excited Linear Prediction Speech Coding
49 95E048/US	Data Compression System and Method
50 95E110/US	Usage of Voice Activity Detection for Efficient Coding of Speech
51 97RSS039/US	Speech Encoder Using Voice Activity Detection in Coding Noise
52 97RSS039/US/1	Speech Codec Employing Speech Classification For Noise Compensation
53 97RSS089/US	Speaker Dependent Speech Recognition Training Using Simplified Hidden Markov Modeling and Robust End-Point Detection
54 97RSS090/US	A System and Method to Improve the Quality of Coded Speech Co-Existing with Background Noise
55 97RSS219/US	Adaptive Error Control for ADPCM Speech Coders
56 97RSS380/US	Bi-Directional Pitch Enhancement In Speech Coding Systems
57 97RSS380/US/1	Bi-Directional Pitch Enhancement In Speech Coding Systems
58 97RSS383/US	Speech Encoder Using Continuous Warping in Long Term Preprocessing
59 97RSS440/US	Method and Apparatus for Coding of Signals Containing Speech and Background Noise
60 97RSS514/US	Channel Error Concealment Embedded in the Bit Stream
61 98RSS001/US	Method for Coding Speech Containing Noise-Like Speech periods and/or Having Background Noise
62 98RSS001/US/1	Method for Coding Speech Containing Noise-Like Speech periods and/or Having Background Noise
63 98RSS011/US	System for Detecting Voice Activity and Background Noise/Silence in a Speech Signal Using Pitch and Signal to Noise Ratio Information

Schedule 4 – Speech Coder Patents

Docket Number	Application Title
64 98RSS011/US/1	System for Detecting Voice Activity and Background Noise/Silence in a Speech Signal Using Pitch and Signal to Noise Ratio Information
65 98RSS171/US	Speech Coder Output Transformation Method for Reducing Audible Noise
66 98RSS171/US/1	Speech Coder Output Transformation Method for Reducing Audible Noise
67 98RSS228/US	Low Complexity Random Codebook Structure
68 98RSS228/US/2	Low Complexity Random Codebook Structure
69 98RSS295/US	Robust Fast Search for Two-Dimensional Gain Vector Quantizer
70 98RSS328/US	Speech Encoder Using a Classifier for Smoothing Noise Coding
71 98RSS343/US	Speech Encoder Using Gain Normalization that Combines Open and Closed Loop Gains
72 98RSS344/US	Pitch Determination Using Speech Classification and Prior Pitch Estimation
73 98RSS345/US	Adaptive Gain Reduction to Produce Fixed Codebook Target Signal
74 98RSS364/US	Speech Coding Having Continuous Long Term Preprocessing without any Delay
75 98RSS365/US	Completed Fixed Codebook for Speech Coder
76 98RSS365/US/1	Completed Fixed Codebook for Speech Coder
77 98RSS365/US/2	Completed Fixed Codebook for Speech Coder
78 98RSS366/US	System for Adaptive Excitation Pattern for Speech Coding
79 98RSS366/US/1	System for Adaptive Excitation Pattern for Speech Coding
80 98RSS382/US	Adaptive Tilt Compensation for Synthesized Speech Residual
81 98RSS383/US	Speech Classification and Parameter Weighting Used in Codebook Search
82 98RSS384/US	System for Speech Encoding having an Adaptive Encoding Arrangement
83 98RSS384/US/1	System for Speech Encoding having an Adaptive Encoding Arrangement
84 98RSS384/US/2	System for Speech Encoding having an Adaptive Encoding Arrangement

Schedule 4 -- Speech Coder Patents

Docket Number	Application Title
85 98RSS406/US	Synchronized Encoder-Decoder Frame Concealment Using Speech Coding Parameters
86 99RSS039/US	Silence Description Coding For Multi-Rate Speech Codes
87 99RSS039/US/1	Silence Description Coding For Multi-Rate Speech Codes
88 99RSS050/US	technique for allowing speech coding to be used in thte public telephone network
89 99RSS219/US	Method for Robust Classification in Speech Coding
90 99RSS227/US	Method for Speech Coding Using SNR
91 99RSS242/US	Framing and Alignment for Speech Mixing in a Conference Bridge or Multi-standard Transcoder
92 99RSS242/US/1	Framing and Alignment for Speech Mixing in a Conference Bridge or Multi-standard Transcoder
93 99RSS242/US/2	Framing and Alignment for Speech Mixing in a Conference Bridge or Multi-standard Transcoder
94 99RSS274/US	Voice Activity Detection Speech Coding to Accommodate Music Signals
95 99RSS274/US/1	Voice Activity Detection Speech Coding to Accommodate Music Signals
96 99RSS293/US	Flexible Variable Rate Vocoder for Wireless Communication Systems
97 99RSS312/US	A New Speech Gain Quantization Strategy
98 99RSS341/US	Smart Training and Smart Scoring in SD Speech recognition System with User-Defined Vocabulary
99 99RSS373/US	Method and Apparatus Using Harmonic Modeling in an Improved Speech Decoder
100 99RSS374/US	Method and Apparatus for Improved noise Reduction In A Speech Encoder
101 99RSS375/US	Method and Apparatus for Improved Weighting Filters In A CELP Encoder
102 99RSS391/US	Voiced Speech Preprocessing Employing Waveform Interpolation of a Harmonic Model
103 99RSS408/US	Linear Prediction Based Noise Suppression
104 99RSS428/US	Speech Coding System with a Music Classifier
105 99RSS431/US	Look-Ahead Pitch Determination

Schedule 4 – Speech Coder Patents

Docket Number	Application Title
106 99RSS485/US	4-KBITS/S Speech Coding
107 99RSS485/US/1	4-KBITS/S Speech Coding