

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NEC Laboratories America, Inc.	02/24/2012
RECEIVING PARTY DATA	
Name:	NEC Corporation
Street Address:	8-1, Shiba 5-chome
Internal Address:	Minato-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	108-8001
PROPERTY NUMBERS Total: 45	
Property Type	Number
Patent Number:	7869711
Patent Number:	7870083
Patent Number:	7870218
Patent Number:	7889808
Patent Number:	7917176
Patent Number:	7921206
Patent Number:	7924933
Patent Number:	7926039
Patent Number:	7930659
Patent Number:	7929478
Patent Number:	7941004
Patent Number:	7944868
Patent Number:	7949318
Patent Number:	7949511

Patent Number:	7958064
Patent Number:	7965947
Patent Number:	7973688
Patent Number:	7979367
Patent Number:	7978975
Patent Number:	7991070
Patent Number:	7992037
Patent Number:	7992070
Patent Number:	8000604
Patent Number:	8005661
Patent Number:	8006239
Patent Number:	8006163
Patent Number:	8014460
Patent Number:	8019728
Patent Number:	8019584
Patent Number:	8023581
Patent Number:	8023578
Patent Number:	8023824
Patent Number:	8023455
Patent Number:	8031798
Patent Number:	8031628
Patent Number:	8036601
Patent Number:	8059733
Patent Number:	8064775
Patent Number:	8065241
Patent Number:	8064774
Patent Number:	8064768
Patent Number:	8064333
Patent Number:	8065319
Patent Number:	8064766
Patent Number:	8068407

CORRESPONDENCE DATA

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PATENT
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Address Line 4: PRINCETON, NEW JERSEY 08540

ATTORNEY DOCKET NUMBER:

END OF YEAR ASSIGNMENT 11

NAME OF SUBMITTER:

Jill Rittenhouse

Total Attachments: 6

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PATENT ASSIGNMENT

WHEREAS, NEC Laboratories America, Inc., a New York corporation, having a place of business at 4 Independence Way, Suite 200, Princeton, New Jersey 08540, is an owner and assignee of record of the patents listed in below;

WHEREAS, NEC Corporation, a Japanese corporation, having its principal place of business at 7-1, Shiba 5-chome, Minatu-ku, Tokyo, Japan 108-8001 is desirous of obtaining a title to the patents listed below;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged, NEC Laboratories America, Inc., hereby sells, assigns and transfers to NEC Corporation, its successors and assigns, its

Attorney Docket No.	Serial No.	Application Date	Patent No	Grant Date	Title	Inventor(s)
05029	11/550,481	10/18/2006	7,869,711	1/11/2011	Optical Tunable Asymmetric Interleaver	Philip Nan Ji Ting Wang Arthur Dogariu Lei Zong Osamu Matsuda Yuji Abe
07020	11/869,886	10/10/2007	7,870,083	1/11/2011	Systems and Methods for Generating Predictive Matrix Variate T Models	Shenghuo Zhu Kai Yu Yihong Gong
02022-B	10/813,484	3/30/2004	7,870,218	1/11/2011	Peer-to-Peer System and Method with Improved Utilization	Cezary Dubnicki Cristian Ungureanu
06034	11/857,251	9/18/2007	7,889,808	2/15/2011	Interpolation Based QR Decomposition for MIMO-OFDM Systems Using D-SMC Demodulator with Per Chunk Ordering	Narayan Prasad Xiaodong Wang Mohammad Madihian
05055	11/674,330	2/13/2007	7,917,176	3/29/2011	Structured Codebook and Successive Beamforming for Multiple-Antenna Systems	Mohammad A. Khojastepour Xiaodong Wang Mohammad Madihian

06081	12/026,120	2/5/2008	7,949,318	5/24/2011	Multi-Rank Beamforming Precoding Apparatus and Method	Mohammad A. Khojastepour Narayan Prasad Xiaodong Wang Mohammad Madihian
07059	12/183,387	7/31/2008	7,949,511	5/24/2011	System and Method for Tunneling and Slicing Based BMC Decomposition	Malay Ganai
06064	11/869,892	10/10/2007	7,958,064	6/7/2011	Active feature probing using data augmentation	Shenghuo Zhu Yihong Gong
06062	11/867,090	10/4/2007	7,965,947	6/21/2011	Wavelength Division Multiplexing Passive Optical Network Architecture with Source-Free Optical Network Units	Jianjun Yu Yuanqiu Luo Ting Wang
08002	12/200,219	8/28/2008	7,973,688	7/5/2011	Photonic Filter Bank for High- Speed Analog-to-Digital Conversion	Yue-Kai Huang Ting Wang Philip Nan Ji
06094	12/046,061	3/11/2008	7,979,367	7/12/2011	Generalized Sequential Minimal Optimization for SVM+ Computations	Rauf Izmailov Akshay Vashist Vladimir Vapnik

07023	12/184,781	8/1/2008	7,978,975	7/12/2011	A Passive Optical Network System Employing Sub-Carrier Multiplexing and Orthogonal Frequency Division Multiple Access Modulation Schemes	Dayou Qian Junqiang Hu Philip Nan Ji Ting Wang
07028	12/050,507	3/18/2008	7,991,070	8/2/2011	Wavelength Transmission System and Method Using 3-Dimensional LDPC-Coded Modulation	Hussam G. Batshon Ivan B. Djordjevic Lei Xu Ting Wang Milorad Cvijetic
08050A	12/511,126	7/29/2009	7,992,037	8/2/2011	Scalable Secondary Storage System and Methods	Cezary Dubnicki Cristian Ungureanu
06069	11/950,757	12/5/2007	7,992,070	8/2/2011	Bit-Interleaved LDPC-Coded Modulation for High-Speed Optical Transmission	Ivan B. Djordjevic Milorad Cvijetic Lei Xu Ting Wang
06092	12/039,981	2/29/2008	8,000,604	8/16/2011	Orthogonal Frequency Division Multiple Access (OFDMA) Based Passive Optical Network (PON)	Dayou Qian Junqiang Hu Jianjun Yu Philip Nan Ji Lei Xu Ting Wang Milorad Cvijetic Toshihiko Kusano
07012	12/116,668	5/7/2008	8,005,661	8/23/2011	Modeling and Verification of Concurrent Systems Using SMT- Based BMC	Malay K. Ganai Aarti Gupta

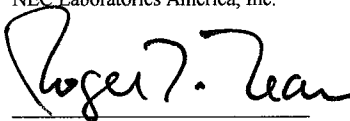
06075	12/015,126	1/16/2008	8,006,239	8/23/2011	Program Analysis Using Symbolic Ranges	Sriram Sankaranarayanan Franjo Ivancic Ilya Shlyakhter Aarti Gupta
06068	11/950,720	12/5/2007	8,006,163	8/23/2011	Polarization Mode Dispersion Compensation Using BCJR Equalizer and Iterative LDPC	Ivan B. Djordjevic Milorad Cvijetic Lei Xu Ting Wang
05026	11/613,407	12/20/2006	8,014,460	9/6/2011	Improved Method for Multiple-Input-Multiple-Output System Demodulation	Narayan Prasad Xiaodong Wang Mohammad Madihian
08003	12/397,371	3/4/2009	8,019,728	9/13/2011	Dynamically Quantifying and Improving the Reliability of Distributed Data Storage Systems	Rehka Bachwani Leszek Gryz Ricardo Bianchini Cezary Dubnicki
06026	11/685,805	3/14/2007	8,019,584	9/13/2011	Method and System for Modeling Likely Invariants in Distributed Systems	Guofei Jiang Haifeng Chen Kenji Yoshihira
06047A	11/857,269	9/18/2007	8,023,581	9/20/2011	Max-Log Receiver for Multiple-Input Multiple-Output (MIMO) Systems	Narayan Prasad Xiaodong Wang Mohammad Madihian
06095	12/046,731	3/12/2008	8,023,578	9/20/2011	Two-Stage Low-Complexity Max-Log Bit-Level LLR Calculator and Method	Shuangquan Wang Xiaodong Wang Mohammad Madihian
07015	12/115,046	5/5/2008	8,023,824	9/20/2011	Wavelength Division Multiplexed Passive Optical Network	Jianjun Yu Yuanqui Luo Junqiang Hu Ting Wang

07104	12/237,993	9/25/2008	8,023,455	9/20/2011	Scheduling in Multi-Cell Multi-Carrier Wireless Systems	Honghai Zhang Sampath Rangarajan
06088C	12/047,544	3/13/2008	8,031,798	10/4/2011	Group MMSE-DFD with Rate (SINR) Feedback and Pre-determined Decoding Order for Reception on a Cellular Downlink	Narayan Prasad Xiaodong Wang Mohammad Madihian
08077	12/478,030	6/4/2009	8,031,628	10/4/2011	Towards Optimal Probing Pairs for Network Tomography with End-to-End Unicast Probing	Yu Gu Guofei Jiang Vishal Singh Yueping Zhang
06088A	12/047,514	3/13/2008	8,036,601	10/11/2011	Group LMMSE Demodulation Using Noise and Interference Covariance Matrix for Reception on a Cellular Downlink	Narayan Prasad Xiaodong Wang Mohammad Madihian
06066	12/002,874	12/19/2007	8,059,733	11/15/2011	Design of Multiuser Downlink Linear MIMO Precoding Systems with Quantized Feedback	Mohammad A. Khojastepour Xiaodong Wang Mohammad Madihian
07071	12/183,368	7/31/2008	8,064,775	11/22/2011	Generation of at least 100 Gbit/s Optical Transmission Channel	Jianjun Yu Lei Xu Philip Nan Ji Ting Wang Dayou Qian
05027CIP	12/100,220	4/9/2008	8,065,241	11/22/2011	Learning Machine that Considers Global Structure of Data	Vladimir N. Vapnik Michael R. Miller
07019	12/117,347	5/8/2008	8,064,774	11/22/2011	High Frequency Optical Millimeter-Wave Generation and Wavelength Reuse	Jianjun Yu Dayou Qian Lei Xu Ting Wang

07077	12/128,748	5/29/2008	8,064,768	11/22/2011	Intra-Channel Equalizing Optical Interleaver	Philip Nan Ji Lei Xu Ting Wang Shuji Murakami Tsutomu Tajima Yutaka Yano
07099	12/233,102	9/18/2008	8,064,333	11/22/2011	Systems and Methods for Adaptive Hybrid Automatic Retransmission Requests	Guosen Yue Xiaodong Wang
06097	11/950,719	12/5/2007	8,065,319	11/22/2011	Runtime Semantic Query Optimization for Event Stream Processing	Luping ding Songting Chen Elke A. Rundensteiner Junichi Tatemura Wang-Pin Hsiung
07046	12/207,964	9/10/2008	8,064,766	11/22/2011	Orthogonal Frequency Division Multiple Access Based Optical Ring Network	Wei Wei Ting Wang
06088B	12/047,527	3/13/2008	8,068,407	11/29/2011	Group MMSE-DFD with Order and Filter Computation for Reception on a Cellular Downlink	Narayan Prasad Xiaodong Wang Mohammad Madihian

IN WITNESS WHEREOF, NEC Laboratories America, Inc. has executed this assignment by a duly authorized person.

NEC Laboratories America, Inc.



Roger Tran, President

Date: Feb 24, 2012