

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4146718

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NEC LABORATORIES AMERICA, INC.	11/11/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NEC CORPORATION
<b>Street Address:</b>	7-1, SHIBA 5-CHOME
<b>Internal Address:</b>	MINATO-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	108-8001
<b>PROPERTY NUMBERS Total: 11</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14162732
Application Number:	14293667
Application Number:	14454957
Application Number:	14738268
Application Number:	14506627
Application Number:	14682701
Application Number:	14603723
Application Number:	14665519
Application Number:	14319336
Application Number:	14612933
Application Number:	14555176
<b>CORRESPONDENCE DATA</b>	
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<b>Phone:</b>	6099512521
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PATENT

<b>Address Line 4:</b> PRINCETON, NEW JERSEY 08540	
<b>ATTORNEY DOCKET NUMBER:</b>	NOVEMBER TRANSFER
<b>NAME OF SUBMITTER:</b>	JILL BEHR
<b>SIGNATURE:</b>	/Jill Behr/
<b>DATE SIGNED:</b>	11/17/2016
<b>Total Attachments: 1</b> source=November_2016#page1.tif	

**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 patent listed below;

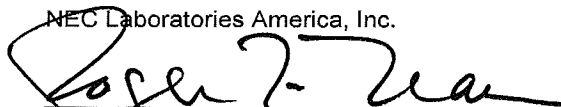
WHEREAS, NEC Corporation, a Japanese corporation, having its principal place of business at 7-1, Shiba 5-chome, Minatu-ku, Tokyo, Japan 108-8001 is desirous of obtaining a title to the patents listed in Table 1 below;

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 entire right, title and interest in each of the following United States patents listed below:

Docket #	Title	Serial #	Filing Date	Inventor(s)
12108	ADAPTIVE CONTROL OF HYBRID ULTRACAPACITOR-BATTERY STORAGE SYSTEM FOR PHOTOVOLTAIC OUTPUT	14162732	1/23/2014	YE ET AL
13044	AUTOMATIC COMMUNICATION AND OPTIMIZATION OF MULTI-DIMENSIONAL ARRAYS FOR MANY-CORE COPROCESSOR USING STATIC COMPILER ANALYSIS	14293667	6/2/2014	RAVI ET AL
12003	ADDING LINK AGGREGATION GROUP TO HITLESS PROTECTION IN PACKET SWITCHED NETWORKS	14454957	8/8/2014	HU ET AL.
14040B	EFFICIENT LARGE-SCALE MULTIPLE INPUT MULTIPLE OUTPUT COMMUNICATIONS	14738268	6/12/2015	CHAI ET AL.
13056	BURST SWITCHING SYSTEM USING OPTICAL CROSS-CONNECT AS SWITCH FABRIC	14506627	10/4/2014	HU ET AL.
13129	ARCHITECTURE OF OPEN-FLOW BASED SOFTWARE-DEFINED OPTICAL LABEL SWAPPING	14682701	4/9/2015	HUANG ET AL.
13101	ENHANCED INTERFERENCE MANAGEMENT IN HETEROGENEOUS WIRELESS NETWORKS	14603723	1/23/2015	PRASAD ET AL.
13148	DYNAMIC BORDER LINE TRACING FOR TRACKING MESSAGE FLOWS ACROSS DISTRIBUTED SYSTEMS	14665519	3/23/2015	ARORA ET AL.
13052	ADAPTIVE COMPRESSION SUPPORTING OUTPUT SIZE THRESHOLDS	14319336	6/30/2014	KRUUS ET AL.
13108	LOSSLESS AND LOW-DELAY OPTICAL BURST SWITCHING USING SOFT RESERVATIONS AND OPPORTUNISTIC TRANSMISSION	14612933	2/3/2015	KANONANKIS ET AL.
13086B	POWER COORDINATION SYSTEM FOR HYBRID ENERGY STORAGE SYSTEM	14555176	11/26/2014	YE ET AL

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

NEC Laboratories America, Inc.



Name: Roger Tran

Title: President

Date: 11/11/2016