

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5697519

<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 EUROPE GMBH	08/28/2019
<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: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15548773
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(312)616-5700	
<i>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.</i>		
<b>Phone:</b>	3126165600	
<b>Email:</b>	assignments@leydig.com	
<b>Correspondent Name:</b>	LEYDIG, VOIT & MAYER, LTD.	
<b>Address Line 1:</b>	TWO PRUDENTIAL PLAZA, SUITE 4900	
<b>Address Line 2:</b>	180 NORTH STETSON AVENUE	
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 606016731	
<b>ATTORNEY DOCKET NUMBER:</b>	815914	
<b>NAME OF SUBMITTER:</b>	ERIK R. SWANSON	
<b>SIGNATURE:</b>	/Erik R. Swanson/	
<b>DATE SIGNED:</b>	09/03/2019	
<b>Total Attachments: 2</b>		
source=815914_US_Assignment_signed#page1.tif		
source=815914_US_Assignment_signed#page2.tif		

## ASSIGNMENT

WHEREAS, NEC Laboratories Europe GmbH, having an address at Kurfuersten-Anlage 36, 69115 Heidelberg, GERMANY,

hereinafter referred to as Assignor, owns a certain invention entitled:

### A METHOD FOR OPERATING A THERMAL SYSTEM AND A THERMAL SYSTEM

described in U.S. Patent Application Serial No. 15/548,773, filed on August 4, 2017, in the United States and

WHEREAS, NEC Corporation, having an address at 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, JAPAN,

hereinafter referred to as Assignee, is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the above patent application.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor assigns and transfers to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and Assignor does hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

UPON SAID CONSIDERATION, Assignor conveys to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S.

application (or any other application on the invention) to gain priority with respect to other applications.

**ASSIGNOR DOES HEREBY COVENANT** and agree with the Assignee that Assignor will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that Assignor will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

By signing below, the named individual is making a declaration that he or she is an officer or authorized representative of Assignor and has full authority to act on its behalf, and that the above statements are true.

For Assignor NEC Laboratories Europe GmbH:

Date August 28, 2019

By J. Quittel

Name: Dr. Jürgen Quittel

Title: Managing Director