

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BIN CHENG	01/09/2020
JONATHAN FUERST	01/16/2020
MAURICIO FADEL ARGERICH	01/16/2020
MASAHIRO HAYAKAWA	01/17/2020
ATSUSHI KITAZAWA	01/22/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NEC LABORATORIES EUROPE GMBH
<b>Street Address:</b>	KURFUERSTEN-ANLAGE 36
<b>City:</b>	HEIDELBERG
<b>State/Country:</b>	UNITED STATES
<b>Postal Code:</b>	69115
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17013688
<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>	817490
<b>NAME OF SUBMITTER:</b>	ERIK R. SWANSON
<b>SIGNATURE:</b>	/Erik R. Swanson/
<b>DATE SIGNED:</b>	09/07/2020
<b>Total Attachments: 6</b>	

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**ASSIGNMENT**

I, Bin Cheng, residing at Hermann-Loebs-Weg 21; 69207 Sandhausen; GERMANY;  
and

I, Jonathan Fuerst, residing at Ringstrasse 13; 69115 Heidelberg; GERMANY; and

I, Mauricio Fadel Argerich, residing at Marstallstrasse 5; 69117 Heidelberg;  
GERMANY; and

I, Masahiro Hayakawa, residing at c/o ~~NEC Corporation, 7-1 Shiba 5-chome, Minato-~~  
~~ku, Tokyo 108, JAPAN~~, and ~~NEC Solution Innovators, Ltd. ;~~  
6F, DP Square Nishiki Bldg., 1-8-11 Nishiki, Naka-ku, Nagoya-City, Aichi 460-0003; JAPAN

M.N.  
Jan 17, 2020

I, Atsushi Kitazawa, residing at c/o NEC Corporation; 7-1 Shiba 5-chome; Minato-ku;  
Tokyo 108; JAPAN;

and each of us, if more than one person is identified above, have invented and have owned or  
do own a whole or partial right, title and interest in a certain invention entitled:

**ONTOLOGY MATCHING BASED ON WEAK SUPERVISION**

described in the patent application bearing the above Attorney Docket No. and title and

**WHEREAS,**

NEC Laboratories Europe GmbH

having an address at Kurfuersten-Anlage 36; 69115 Heidelberg; GERMANY,

hereinafter referred to as Assignee, was and/or 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, I/we have or hereby do assign and transfer to the  
Assignee and the Assignee's legal representatives, successors and assigns my/our full and  
exclusive rights in and to the invention in the U.S. and every foreign country and my/our  
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 I/we do 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**, I/we have conveyed or hereby do convey 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.

**I/WE DO HEREBY COVENANT** and agree with the Assignee that I/we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that I/we 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.

Date \_\_\_\_\_  
Bin Cheng, Inventor

Date \_\_\_\_\_  
Jonathan Fuerst, Inventor

Attorney Docket No. 817413  
(Client Ref. NLE-984-19-US)

Date \_\_\_\_\_

\_\_\_\_\_  
Mauricio Fadel Argerich, Inventor

Date Jan 17, 2020

M. Hayakawa  
Masahiro Hayakawa, Inventor

Date Jan 22, 2020

A. Kitazawa  
Atsushi Kitazawa, Inventor

**ASSIGNMENT**

I, Bin Cheng, residing at Hermann-Loens-Weg 21; 69207 Sandhausen; GERMANY;  
and

I, Jonathan Fuerst, residing at Ringstrasse 13; 69115 Heidelberg; GERMANY; and

I, Mauricio Fadel Argerich, residing at Marstallstrasse 5; 69117 Heidelberg;  
GERMANY; and

I, Masahiro Hayakawa, residing at c/o NEC Corporation; 7-1 Shiba 5-chome; Minato-ku; Tokyo 108; JAPAN; and

I, Atsushi Kitazawa, residing at c/o NEC Corporation; 7-1 Shiba 5-chome; Minato-ku; Tokyo 108; JAPAN;

and each of us, if more than one person is identified above, have invented and have owned or do own a whole or partial right, title and interest in a certain invention entitled:

**ONTOLOGY MATCHING BASED ON WEAK SUPERVISION**

described in the patent application bearing the above Attorney Docket No. and title and

**WHEREAS,**

NEC Laboratories Europe GmbH

having an address at Kurfuersten-Anlage 36; 69115 Heidelberg; GERMANY,

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

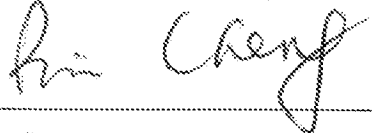
**NOW, THEREFORE,** for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we have or hereby do assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns my/our full and exclusive rights in and to the invention in the U.S. and every foreign country and my/our 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 I/we do 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.

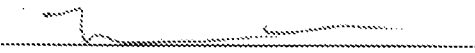
UPON SAID CONSIDERATION, I/we have conveyed or hereby do convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international 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.

I/WE DO HEREBY COVENANT and agree with the Assignee that I/we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that I/we 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.

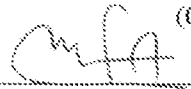
Date 09/01/2020

  
Bin Cheng, Inventor

Date 16.01.2020

  
Jonathan Fuerst, Inventor

Date 6.01.2020



Mauricio Fadel Argerich, Inventor

Date \_\_\_\_\_

Masahiro Hayakawa, Inventor

Date \_\_\_\_\_

Atsushi Kitazawa, Inventor