## 506911133 10/07/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6957968

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
XIAO ZHANG	10/06/2021
ANIT KUMAR SAHU	10/06/2020
JEREMY KOLTER	09/29/2021

## **RECEIVING PARTY DATA**

Name:	ROBERT BOSCH GMBH
Street Address:	POSTFACH 30 02 20
City:	STUTTGART
State/Country:	GERMANY
Postal Code:	70442

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17062385

## **CORRESPONDENCE DATA**

Fax Number:

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.

**Email:** DMalafis@dickinson-wright.com

Correspondent Name: DICKINSON WRIGHT PLLC/ROBERT BOSCH GMBH

Address Line 1: 2600 WEST BIG BEAVER RD.

Address Line 2: SUITE 300

Address Line 4: TROY, MICHIGAN 48084

ATTORNEY DOCKET NUMBER:	097182-00076
NAME OF SUBMITTER:	MARK ALEKSANDAR JOTANOVIC
SIGNATURE:	/Mark Aleksandar Jotanovic/
DATE SIGNED:	10/07/2021

## **Total Attachments: 6**

source=All\_Executed\_Assignment\_097182\_00076\_R392228#page1.tif source=All\_Executed\_Assignment\_097182\_00076\_R392228#page2.tif source=All\_Executed\_Assignment\_097182\_00076\_R392228#page3.tif source=All\_Executed\_Assignment\_097182\_00076\_R392228#page4.tif

PATENT 506911133 REEL: 057731 FRAME: 0947

source=All\_Executed\_Assignment\_097182\_00076\_R392228#page5.tif source=All\_Executed\_Assignment\_097182\_00076\_R392228#page6.tif

PATENT REEL: 057731 FRAME: 0948

<u>ASSIGNMENT</u>

Pursuant to our obligation to Robert Bosch GmbH (hereinafter referred to as "Assignee"), a

German corporation having a mailing address at:

Postfach 30 02 20

D-70442 Stuttgart

**GERMANY** 

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged,

We:

**XIAO ZHANG** 

517 Seymour Rd, Apt 8

Charlottesville, VA 22903

**ANIT KUMAR SAHU** 

5437 Ellsworth Avenue, Apt 4

Pittsburgh, PA 15232

JEREMY KOLTER

5933 Hobart Street

Pittsburgh, PA 15201

confirm our obligation to and hereby sell, assign and convey, unto Assignee, its successors

and assigns, except as set forth below, our entire right, title and interest -

(1) in and to an invention entitled "IMPROVED ADVERSARIAL

TRAINING USING META-LEARNED INITIALIZATION" for which we have executed a

United States patent application, said United States application being assigned U.S.

Serial No. <u>17/062385</u> filed <u>October 2, 2020</u>;

(2) in and to said United States patent application, in and to all other

patent applications (including divisional, continuation, continuation-in-part, §111(b)

provisional, §111(a), reissue applications, and international patent applications

Page 1 of 2

PATENT

REEL: 057731 FRAME: 0949

designating the United States) based upon said invention, and in and to the patent or

patents to be granted thereon, including reissues thereof, if any, to the full end of the

term or terms for which said patent or patents may be granted; and

(3) in and to all patent applications on said invention now or

hereafter filed in countries foreign to the United States of America, including patent

applications filed under the Patent Cooperation Treaty, the European Patent

Convention or any other international treaty, and including the right to claim priority of

said United States application, and in and to any and all patents granted on said

applications to the full end of the terms for which said patents may be granted.

We hereby agree that we will, upon demand of Assignee, its successors or assigns, and

without further consideration to us, execute any and all papers that may be necessary, or

deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of

the intent and purposes of this Assignment, it being understood that any expense incident to

the execution of such papers shall be paid by Assignee, its successors and assigns, and not

10 0

by us.

Date:1	10/06/2021	
		XIAO ZHANG
Date:		
		ANIT KUMAR SAHU
Date:		
		JEREMY KOLTER

Page 2 of 2

ASSIGNMENT

Pursuant to our obligation to Robert Bosch GmbH (hereinafter referred to as "Assignee"), a

German corporation having a mailing address at:

Postfach 30 02 20

D-70442 Stuttgart

**GERMANY** 

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged,

We:

**XIAO ZHANG** 

517 Seymour Rd, Apt 8 Charlottesville, VA 22903

**ANIT KUMAR SAHU** 

5437 Ellsworth Avenue, Apt 4

Pittsburgh, PA 15232

JEREMY KOLTER

5933 Hobart Street

Pittsburgh, PA 15201

confirm our obligation to and hereby sell, assign and convey, unto Assignee, its successors

and assigns, except as set forth below, our entire right, title and interest -

(1) in and to an invention entitled "IMPROVED ADVERSARIAL

TRAINING USING META-LEARNED INITIALIZATION" for which we have executed a

United States patent application, said United States application being assigned U.S.

Serial No. <u>17/062385</u> filed <u>October 2, 2020</u>;

(2) in and to said United States patent application, in and to all other

patent applications (including divisional, continuation, continuation-in-part, §111(b)

provisional, §111(a), reissue applications, and international patent applications

Page **1** of **2** 

PATENT

REEL: 057731 FRAME: 0951

designating the United States) based upon said invention, and in and to the patent or

patents to be granted thereon, including reissues thereof, if any, to the full end of the

term or terms for which said patent or patents may be granted; and

(3) in and to all patent applications on said invention now or

hereafter filed in countries foreign to the United States of America, including patent

applications filed under the Patent Cooperation Treaty, the European Patent

Convention or any other international treaty, and including the right to claim priority of

said United States application, and in and to any and all patents granted on said

applications to the full end of the terms for which said patents may be granted.

We hereby agree that we will, upon demand of Assignee, its successors or assigns, and

without further consideration to us, execute any and all papers that may be necessary, or

deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of

the intent and purposes of this Assignment, it being understood that any expense incident to

the execution of such papers shall be paid by Assignee, its successors and assigns, and not

by us.

Date:	<u> </u>	
	XIAO ZHANG	
Date: 10/06/2020	Anit Kumar Sahu	
	ANIT KUMAR SAHU	
Date:		

JEREMY KOLTER

Page 2 of 2

PATENT REEL: 057731 FRAME: 0952

# ASSIGNMENT

Pursuant to our obligation to Robert Bosch GmbH (hereinafter referred to as "Assignee"), a German corporation having a mailing address at:

Postfach 30 02 20 D-70442 Stuttgart GERMANY

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged, We:

XIAO ZHANG 517 Seymour Rd, Apt 8 Charlottesville, VA 22903

ANIT KUMAR SAHU
5437 Ellsworth Avenue, Apt 4
Pittsburgh, PA 15232

JEREMY KOLTER 5933 Hobart Street Pittsburgh, PA 15201

confirm our obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, except as set forth below, our entire right, title and interest —

- (1) in and to an invention entitled "IMPROVED ADVERSARIAL TRAINING USING META-LEARNED INITIALIZATION" for which we have executed a United States patent application, said United States application being assigned U.S. Serial No. 17/062385 filed October 2, 2020;
- (2) in and to said United States patent application, in and to all other patent applications (including divisional, continuation, continuation-in-part, §111(b) provisional, §111(a), reissue applications, and international patent applications

Page 1 of 2

designating the United States) based upon said invention, and in and to the patent or

patents to be granted thereon, including reissues thereof, if any, to the full end of the

term or terms for which said patent or patents may be granted; and

in and to all patent applications on said invention now or (3)

hereafter filed in countries foreign to the United States of America, including patent

applications filed under the Patent Cooperation Treaty, the European Patent

Convention or any other international treaty, and including the right to claim priority of

said United States application, and in and to any and all patents granted on said

applications to the full end of the terms for which said patents may be granted.

We hereby agree that we will, upon demand of Assignee, its successors or assigns, and

without further consideration to us, execute any and all papers that may be necessary, or

deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of

the intent and purposes of this Assignment, it being understood that any expense incident to

the execution of such papers shall be paid by Assignee, its successors and assigns, and not

by us.

Date:

Date:

Date: 9/29/21

XIAO ZHANG

ANIT KUMAR SAHU

Page 2 of 2

RECORDED: 10/07/2021