506831873 08/23/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOERG MARTINI	08/12/2021
CHRISTOPHER CHUA	08/03/2021
ZHIHONG YANG	08/03/2021
MARK TEEPE	08/04/2021
PATRICK Y. MAEDA	08/03/2021
SOUROBH RAYCHAUDHURI	08/11/2021
ELIF KARATAY	08/18/2021
NOBLE JOHNSON	08/03/2021
DAVID BIEGELSEN	08/06/2021
JOSEPH LEE	08/04/2021

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17408814

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ATTORNEY DOCKET NUMBER: 20200496US06

PATENT REEL: 057261 FRAME: 0655

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NAME OF SUBMITTER:	KERMIT LOPEZ			
SIGNATURE:	/KERMIT LOPEZ/			
DATE SIGNED:	08/23/2021			
Total Attachments: 11				
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ASSIGNMENT

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled **SEMICONDUCTOR ARRAY IMAGER FOR PRINTING SYSTEMS** (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

 is being executed concurrently herewith, was first executed on was filed on as Application Number claims the benefit of U.S. Provisional Appl 	
Palo Alto Research Center Incorporated, a Delaware assigns, and its legal representatives ("PARC"), is nvention(s), and the full cooperation of the Inventor(s	s entitled to all rights in the Application and the
For valuable consideration, the receipt of which is hassign(s), and transfer(s) to PARC the entire and exhe Invention(s), in and for the United States, its applications, patents, design registrations and publication and publication and publication and priority rights under all present or future convention, which priority is claimed in the Application; and	clusive right, title and interest in the Application and territories, and all foreign countries, including all ations obtained or derived therefrom, world wide, and
 agree that PARC may apply for and receive all for agree to execute all papers and take all action requested by PARC; and 	ue all U.S. Letters Patent granted thereon to PARC; preign Letters Patent thereon; ons necessary or desirable in connection therewith polication Number on this Assignment, if not already
Jaka Tan	8/12/2021
Joerg Martini	DATE
Christopher Chua	DATE
	DATE
Zhihong Yang	
	DATE

Mark Teepe

ASSIGNMENT

The	und	ersigned	l is/are	the	named	invent	tor(s) (t	he "Inv	entor(s)") or	nal	Jnited	States	patent	applica	tion
entitl	ed	SEMIC	ONDUC	CTOF	RARRA	AY IN	IAGER	FOR	PRINTING	SY	STEMS	the ("Applio	cation")	for
inver	ntion	is disclo	sed or o	claim	ned there	ein (the	e "Inver	ition(s)), which App	olicat	tion:				

is being executed concurrently herewith,was first executed onwas filed onas Application Numbeclaims the benefit of U.S. Provisional App	
	e Corporation, on behalf of itself, its successors and is entitled to all rights in the Application and the s).
assign(s), and transfer(s) to PARC the entire and exthe Invention(s), in and for the United States, its applications, patents, design registrations and publications.	nereby acknowledged, the Inventor(s) hereby sell(s), sclusive right, title and interest in the Application and sterritories, and all foreign countries, including all ations obtained or derived therefrom, world wide, and ons and treaties, and any provisional applications for
 agree that PARC may apply for and receive all f agree to execute all papers and take all action requested by PARC; and 	sue all U.S. Letters Patent granted thereon to PARC; foreign Letters Patent thereon; ons necessary or desirable in connection therewith plication Number on this Assignment, if not already
	DATE
Joerg Martini Mutopher L Mua Christopher Chus	August 03, 2021
Christopher Chua * Zhihong Yang	DATE
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DATE

Mark Teepe

ASSIGNMENT

The undersigned is/are the named inventor(s) (the entitled SEMICONDUCTOR ARRAY IMAGER FOR inventions disclosed or claimed therein (the "Invention")	OR PRINTING SYSTEMS (the "Application") for
is being executed concurrently herewith, was first executed on was filed on as Application Number claims the benefit of U.S. Provisional Appl	ication(s) No(s). filed
Palo Alto Research Center Incorporated, a Delaware assigns, and its legal representatives ("PARC"), is Invention(s), and the full cooperation of the Inventor(s	s entitled to all rights in the Application and the
For valuable consideration, the receipt of which is he assign(s), and transfer(s) to PARC the entire and exit the Invention(s), in and for the United States, its applications, patents, design registrations and publica all priority rights under all present or future convention which priority is claimed in the Application; and	clusive right, title and interest in the Application and territories, and all foreign countries, including all tions obtained or derived therefrom, world wide, and
 (2) agree that PARC may apply for and receive all for (3) agree to execute all papers and take all action requested by PARC; and 	ue all U.S. Letters Patent granted thereon to PARC; preign Letters Patent thereon; ns necessary or desirable in connection therewith dication Number on this Assignment, if not already
Joerg Martini	DATE
Christopher Chua	DATE
yang shishing Yang	08/03/2021 DATE
	DATE

Mark Teepe

ASSIGNMENT

entilled	fersigned is/are the named inventor(s) (the "inventor(s)") on a t SEMICONDUCTOR ARRAY IMAGER FOR PRINTING SY: ns disclosed or claimed therein (the "Invention(s)"), which Applicat	STEMS		
	☑ is being executed concurrently herewith, ☐ was first executed on ☐ was filed on as Application Number . ☐ claims the benefit of U.S. Provisional Application(s) No(s).	filed	3	

Palo Alto Research Center Incorporated, a Delaware Corporation, on behalf of itself, its successors and assigns, and its legal representatives ("PARC"), is entitled to all rights in the Application and the Invention(s), and the full cooperation of the Inventor(s).

For valuable consideration, the receipt of which is hereby acknowledged, the Inventor(s) hereby sell(s), assign(s), and transfer(s) to PARC the entire and exclusive right, title and interest in the Application and the Invention(s), in and for the United States, its territories, and all foreign countries, including all applications, patents, design registrations and publications obtained or derived therefrom, world wide, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed in the Application; and

- (1) request the U.S. Commissioner of Patents to issue all U.S. Letters Patent granted thereon to PARC;
- (2) agree that PARC may apply for and receive all foreign Letters Patent thereon;
- (3) agree to execute all papers and take all actions necessary or desirable in connection therewith requested by PARC; and
- (4) authorize PARC to subsequently enter the Application Number on this Assignment, if not already entered above.

Joerg Martini	DATE
Christopher Chua	CATE
Zhihong Yang	DATE
	8-4-21 DNE

Mark Teepe

Patrick of mois-	8/3/2021
Patrick Y. Maeda	DATE
Sourobh Raychaudhuri	DATE
Elif Karatay	DATE
Noble Johnson	DATE
David K. Biegelsen	DATE
Joseph Lee	DATE:

Patrick Y. Mayeda	DATE
Sourobh Raychaudhuri	8/11/21 DATE
Elif Karatay	DATE
Noble Johnson	DATE
David K. Biegelsen	DATE
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Patrick Y. Maeda	DATE
Sourobia Raychaudhuri	O871872021
Elif Karatay	DATE
Noble Johnson	DATE
David K. Biegelsen	DATE
Joseph Lee	DATE

Patrick Y. Maeda	DATE
Sourobh Raychaudhuri	DATE
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David K. Biegelsen	DATE
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Patrick Y. Maeda	CATE
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Patrick Y. Maeda	DATE
Sourobh Raychaudhuri	DATE
Elif Karatay	DATE
Noble Johnson	DATE
David K. Biegelsen	DATE
J.L	8/4/2021

REEL: 057261 FRAME: 0666

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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RECORDED: 08/23/2021