505072172 08/30/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5118928

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NOBUYUKI SHIBAYAMA	08/14/2018
MASAYUKI HAYASHI	08/14/2018
SEIJI ANO	08/14/2018
TORU EDO	08/14/2018

RECEIVING PARTY DATA

Name:	SCREEN HOLDINGS CO., LTD.
Street Address:	1-1, TENJINKITA-MACHI, TERANOUCHI-AGARU 4-CHOME
Internal Address:	HORIKAWA-DORI, KAMIGYO-KU, KYOTO-SHI
City:	куото
State/Country:	JAPAN
Postal Code:	602-8585

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16081219

CORRESPONDENCE DATA

Fax Number: (212)382-0888

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.

Phone: 212-596-0500

Email: Icheung@ostrolenk.com **Correspondent Name:** OSTROLENK FABER LLP

Address Line 1: 1180 AVENUE OF THE AMERICAS Address Line 4: NEW YORK, NEW YORK 10036

ATTORNEY DOCKET NUMBER:	P/2699-286
NAME OF SUBMITTER:	JAMES A. FINDER
SIGNATURE:	/james a finder/
DATE SIGNED:	08/30/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

PATENT REEL: 046756 FRAME: 0377

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PATENT REEL: 046756 FRAME: 0378

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		Attorney Docket Number	P/2699-286	
DECLARATION FOR UTILITY OR PATENT APPLICATION (37 CFR 1.		First Named Inventor	Nobuyuki SHIBAYAMA	
ASSIGNMENT	05)11112	COMPLETE IF KNOWN		
A PARAMATA A		Application Number	•	
		Filing Date		
SUBSTRATE PROCESSING			ROCESSING DEVICE	
As a below named inventor, I hereby declare This declaration is directed to:		the Invention)		
☐ The attached application, OR				
United States application number or P March 21, 2017.	CT Internation	nal application number PC	<u>T/JP2017/011265</u> filed on	
The above-identified application was made I believe I am the original inventor or an or I hereby acknowledge that any willful false fine or imprisonment of not more than five (5	iginal joint inv statement ma	ventor of a claimed invention de in this declaration is pur	on in the application. hishable under 18 U.S.C. 1001 by	
WHEREAS,SCREEN Holdings Co				
having a place of business at 1-1, Tenlinkita-	machi. Teran	ouchi-agaru 4-chome. Hor	ikawa-dori, Kamigyo-ku, Kvoto-shi.	
Kvoto 602-8585 Japan			· · · · · · · · · · · · · · · · · · ·	
as assignee, is desirous of acquiring all right, granted therefor.	title and intere	st in and to said invention a	and any Patent that may be	
NOW, THEREFORE, in consideration of C which is hereby acknowledged, I (we), as invention (s) disclosed and claimed in said afor reexamination applications and patents applie infringement, and the Commissioner of Patensaid invention(s) or resulting therefrom to said undersigned for myself (ourselves) and my (o without further remuneration, to execute and said invention(s) and all assignments thereof trepresentatives all facts known to the undersigned for myself (patents interferences or other legal proceedings in what lawful papers, make all rightful oaths, and to and nominees to obtain patent protection for sapplications to be borne and paid by said assignments to be said assignments.	entor(s) and as ates in and to resaid applicated d for or granted ts and Tradem d assignee here ur) legal repredeliver all divi- to said assigned gned respecting ich any of said do generally evaid invention(assignor(s), hereby sell, as said aforesaid application for tion, all original, divisional, ditherefor in the United States arks is hereby authorized are sentatives, heirs and assignes sentatives, heirs and assignes ional, continuation, reissue or its assigns, to commun g said invention(s), whenevel applications or patents may erything necessary to assists) in the United States, the	sign and set over to said assignee the or Patent and all my (our), continuation, substitute, reissue or ites and all rights for past and requested to issue all patents on interest therein; and the se do hereby agree and covenant and other applications for Patent on icate to said assignee or its are requested, to testify in any y become involved, to sign all st assignee, its successors, assigns expenses incident to said	
LEGAL NAME OF SOLE OR FIRST INVENTOR Nobuyuki SHIBAYAMA		Nobuyuki Shiba		
RESIDENCE: CITY Kyoto	STATE	l l	COUNTRY Japan	
MAILING ADDRESS c/o SCREEN Semiconductor Solutions C Horikawa-dori, Kamigyo-ku, Kyoto-shi, l			ouchi-agaru 4-chome,	

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{01391899.1}DECL-ASSIGN

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) AND ASSIGNMENT

Attorney Docket Number

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application request in compliance with 37 CFR 1.213(a) is made in the application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed into the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: Patent Application Files. Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMMERCE, COMMERCE-PAT-7, Than 10, System name: Deposit Accounts and Electronic Funds Transfer Profiles.

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:		INVENTOR'S SIGNATURE	1/	DATE
Masayuki HAYASHI		Masazaki	Hazashi	August 14.2018
RESIDENCE: CITY	STATE		country Japan	٧
Kyoto			Japan	
MAILING ADDRESS	Co 144 11	Taniinkita maaki Ta	ronovahi agom	4-chome
c/o SCREEN Semiconductor Solutions	CO., Llu., 1-1	, renjinkita-macin, re	ranoucin-agaru	4-chome,
Horikawa-dori, Kamigyo-ku, Kyoto-shi legal name of additional joint inventor, i	, KYOTO DUZ-8 FANV:	Japan Inventor's signature		DATE
Seiji ANO	•	1		
RESIDENCE; CITY	STATE		COUNTRY	
Kyoto			Japan	
MAILING ADDRESS				
c/o SCREEN Semiconductor Solutions	Co., Ltd., 1-1	, Tenjinkita-machi, Te	ranouchi-agaru	4-cnome,
Horikawa-dori, Kamigyo-ku, Kyoto-shi legal name of additional joint inventor, i	, Kyoto 602-8	585 Japan I inventor's signature		I DATE
Toru EDO	FANY:	INVENTOR'S SIGNATURE		DATE
RESIDENCE: CITY	STATE		COUNTRY	
Kyoto			Japan	·
MAILING ADDRESS		·	4.	4
c/o SCREEN Semiconductor Solutions	Co., Ltd., 1-1	, Tenjinkita-machi, Te	ranouchi-agaru	4-chome,
Horikawa-dori, Kamigyo-ku, Kyoto-shi LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I	, Kyoto 602-8	585 Japan		I DATE
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I	FANY:	INVENTOR'S SIGNATURE		DATE
RESIDENCE: CITY	STATE	I	COUNTRY	
MAILING ADDRESS	<u> </u>		<u> </u>	
MANUAL TO PRODUCTION				
		INVENTOR'S SIGNATURE		DATE
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I	FAIYX:	INVENTOR'S SIGNATURE		
			Loorbung	
RESIDENCE: CITY	STATE		COUNTRY	4
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MAILING ADDRESS				
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I	FANY:	INVENTOR'S SIGNATURE		DATE
				•
RESIDENCE: CITY	STATE	I	COUNTRY	
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MAILING ADDRESS				•
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		Attorney Docket Numbe	r P/2	699-286		
DECLARATION FOR UTILITY OF PATENT APPLICATION (37 CFR		First Named Inventor	Nobuy	ruki SHIBAYAMA		
ASSIGNMENT			OMPLETE IF KN	OWN		
		Application Number				
		Filing Date				
SUBSTRATE PROCESSING	SUBSTRATE PROCESSING METHOD AND SUBSTRATE PROCESSING DEVICE					
As a below named inventor, I hereby declare This declaration is directed to:		the Invention)	+HAMMANIAN AND AND AND AND AND AND AND AND AND A			
☐ The attached application, OR						
United States application number or March 21, 2017.	PCT Internatio	nal application number I	PCT/JP2017/01	1265 filed on		
The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.						
WHEREAS, SCREEN Holdings Co., Ltd.						
having a place of business at 1-1. Tenjinkita	-machi. Teran	ouchi-agaru 4-chome. H	orikawa-dori, k	Kamigvo-ku, Kvoto-shi,		
Kvoto 602-8585 Japan						
as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.				t that may be		
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I (we), as inventor(s) and as assignor(s), hereby sell, assign and set over to said assignee the entire right, title and interest for the United States in and to said aforesaid application for Patent and all my (our) invention(s) disclosed and claimed in said aforesaid application, all original, divisional, continuation, substitute, reissue or reexamination applications and patents applied for or granted therefor in the United States and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said invention(s) or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for myself (ourselves) and my (our) legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said invention(s) and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said invention(s), whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention(s) in the United States, the expenses incident to said applications to be borne and paid by said assignee.						
LEGAL NAME OF SOLE OR FIRST INVENTOR Nobuyuki SHIBAYAMA						
RESIDENCE: CITY Kyoto	STATE		country Japan			
MAILING ADDRESS c/o SCREEN Semiconductor Solutions C Horikawa-dori, Kamigyo-ku, Kyoto-shi,			nouchi-agaru	4-chome,		

☑ CONTINUED ON PAGE 2

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PATEN'

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) AND ASSIGNMENT

Attorney Docket Number

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed into the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: Patent Application Files. Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMM ERCE/PAT - TM-1 0, System name: Deposit Accounts and Electronic Funds Transfer Profiles.

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I Masayuki HAYASHI	f any:	INVENTOR'S SIGNATURE		DATE
RESIDENCE: CITY	STATE		COUNTRY	
Kyoto			Japan	
MAILING ADDRESS				
c/o SCREEN Semiconductor Solutions			ranouchi-agaru	4-chome,
Horikawa-dori, Kamigyo-ku, Kyoto-shi	, Kyoto 602-8	585 Japan		
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I	F ANY:	INVENTOR'S SIGNATURE	•	DATE
Seiji ANO		Luji ano		Aug. 14,2018
RESIDENCE: CITY	STATE		COUNTRY	
Kyoto			Japan	
MAILING ADDRESS c/o SCREEN Semiconductor Solutions	Co. Ltd., 1-1	. Teniinkita-machi. Te	ranouchi-agaru	4-chome.
Horikawa-dori, Kamigyo-ku, Kyoto-shi				,
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I	FANY:	INVENTOR'S SIGNATURE		DATE
Toru EDO				
RESIDENCE: CITY	STATE		COUNTRY	
Kyoto			Japan	
MAILING ADDRESS				
c/o SCREEN Semiconductor Solutions			ranouchi-agaru	4-chome,
Horikawa-dori, Kamigyo-ku, Kyoto-shi	, Kyoto 602-8	585 Japan Linventor's signature		DATE
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I	FANY:	INVENTORS SIGNATURE		DATE
RESIDENCE: CITY	STATE		COUNTRY	
MAILING ADDRESS				,
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LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I	F ANY:	INVENTOR'S SIGNATURE		DA TE
<u>,</u>				
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LEGAL NAME OF ADDITIONAL JOINT INVENTOR, I	F ANY:	INVENTOR'S SIGNATURE		DATE
RESIDENCE: CITY	STATE		COUNTRY	
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		Attorney Docket Number	P/2699-286		
DECLARATION FOR UTILITY OR PATENT APPLICATION (37 CFR 1		First Named Inventor	Nobuyuki SHIBAYAMA		
ASSIGNMENT	.03) AND	COMPLETE IF KNOWN			
ASSIGNMENT		Application Number			
		Filing Date	·		
SUBSTRATE PROCESSING	6 METHOD	AND SUBSTRATE P	ROCESSING DEVICE		
As a below named inventor, I hereby declare This declaration is directed to:		the Invention)			
☐ The attached application, OR					
✓ United States application number or March 21, 2017.	PCT Internatio	onal application number PC	T/JP2017/011265 filed on		
The above-identified application was mad I believe I am the original inventor or an o I hereby acknowledge that any willful fals fine or imprisonment of not more than five (riginal joint in e statement ma	ventor of a claimed invention of a claimed in this declaration is put			
WHEREAS, SCREEN Holdings Co.	. Ltd.				
having a place of business at 1-1. Tenjinkita	-machi, Teran	<u>iouchi-agaru 4-chome, Ho</u>	rikawa-dori, Kamigyo-ku, Kyoto-shi,		
Kyoto 602-8585 Japan			,		
as assignee, is desirous of acquiring all right, granted therefor.	title and interes	est in and to said invention	and any Patent that may be		
NOW, THEREFORE, in consideration of which is hereby acknowledged, I (we), as invention (s) disclosed and claimed in said af reexamination applications and patents appli infringement, and the Commissioner of Patersaid invention(s) or resulting therefrom to sa undersigned for myself (ourselves) and my (without further remuneration, to execute and said invention(s) and all assignments thereof representatives all facts known to the undersinterferences or other legal proceedings in we lawful papers, make all rightful oaths, and to and nominees to obtain patent protection for applications to be borne and paid by said ass	rentor(s) and a tates in and to oresaid applicated for or grantists and Tradenid assignee herour) legal reprodeliver all divito said assigned respectifich any of said do generally esaid invention	s assignor(s), hereby sell, as said aforesaid application for ation, all original, divisional ed therefor in the United Stanarks is hereby authorized a rein, as assignee of the entiresentatives, heirs and assignational, continuation, reissure or its assigns, to communing said invention(s), wheneved applications or patents may everything necessary to assigns in the United States, the	ssign and set over to said assignee the or Patent and all my (our), continuation, substitute, reissue or ates and all rights for past and requested to issue all patents on the interest therein; and the said other applications for Patent on icate to said assignee or its are requested, to testify in any any become involved, to sign all st assignee, its successors, assigns expenses incident to said		
LEGAL NAME OF SOLE OR FIRST INVENTOR Nobuyuki SHIBAYAMA		INVENTOR'S SIGNATURE	DATE		
RESIDENCE: CITY Kyoto	STATE		COUNTRY Japan		

c/o SCREEN Semiconductor Solutions Co., Ltd., 1-1, Tenjinkita-machi, Teranouchi-agaru 4-chome, Horikawa-dori, Kamigyo-ku, Kyoto-shi, Kyoto 602-8585 Japan

PATENT REEL: 046756 FRAME: 0383

DECLARATION FOR UTILITY OR DESIGN Attorney Docket Number PATENT APPLICATION (37 CFR 1.63) AND ASSIGNMENT Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed into the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: Patent Application Files. Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMMERCE/PAT - TM-1 0, System name: Deposit Accounts and Electronic Funds Transfer Profiles. LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY: INVENTOR'S SIGNATURE Masayuki HAYASHI RESIDENCE: CITY STATE COUNTRY **Kyoto** Japan MAILING ADDRESS c/o SCREEN Semiconductor Solutions Co., Ltd., 1-1, Tenjinkita-machi, Teranouchi-agaru 4-chome, Horikawa-dori, Kamigyo-ku, Kyoto-shi, Kyoto 602-8585 Japan LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY: INVENTOR'S INVENTOR'S SIGNATURE Seiji ANO RESIDENCE: CITY STATE COUNTRY **Kyoto** Japan MAILING ADDRESS c/o SCREEN Semiconductor Solutions Co., Ltd., 1-1, Tenjinkita-machi, Teranouchi-agaru 4-chome, Horikawa-dori, Kamigyo-ku, Kyoto-shi, Kyoto 602-8585 Japan LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY: INVENTOR'S SIGNATURE Toru Edo Toru EDO August. 14. 2018 RESIDENCE: CITY STATE COUNTRY **Kyoto** Japan MAILING ADDRESS c/o SCREEN Semiconductor Solutions Co., Ltd., 1-1, Tenjinkita-machi, Teranouchi-agaru 4-chome, Horikawa-dori, Kamigyo-ku, Kyoto-shi, Kyoto 602-8585 Japan LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY: RESIDENCE: CITY STATE COUNTRY

Dana	$^{\circ}$
LMAG	Z

STATE

STATE

INVENTOR'S SIGNATURE

INVENTOR'S SIGNATURE

MAILING ADDRESS

RESIDENCE: CITY

MAILING ADDRESS

RESIDENCE: CITY

MAILING ADDRESS

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

LEGAL NAME OF ADDITIONAL JOINT INVENTOR, IF ANY:

DATE

DATE

COUNTRY

COUNTRY

RECORDED: 08/30/2018