## 507002441 12/01/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

onic Version v1.1 EPAS ID: PAT7049279

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MADHURI MAHENDRA NAGARE	03/24/2017
HIROFUMI AOKI	02/21/2020
KAZUTOSHI SAGI	02/21/2020

### **RECEIVING PARTY DATA**

Name:	NEC CORPORATION
Street Address:	7-1, SHIBA 5-CHOME
Internal Address:	MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	108-8001

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

Property Type	Number	
Application Number:	16644560	

### **CORRESPONDENCE DATA**

**Fax Number:** (202)293-7860

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:** 202-663-7485

Email: necipca@ipm.jp.nec.com

Correspondent Name: NEC-IPC

Address Line 1: 2000 PENNSYLVANIA AVE., NW

Address Line 2: SUITE 900

Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	3270002181US01
NAME OF SUBMITTER:	HAFIDA SAMMANE
SIGNATURE:	/Hafida Sammane/
DATE SIGNED:	12/01/2021

# **Total Attachments: 4**

source=3270002181US01Assignment#page1.tif source=3270002181US01Assignment#page2.tif

PATENT 507002441 REEL: 058252 FRAME: 0204

source=3270002181US01Assignment#page3.tif source=3270002181US01Assignment#page4.tif

PATENT REEL: 058252 FRAME: 0205

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

Whereas, I/we, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; (the "invention") and

Whereas, NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan, (assignee), desires to acquire the entire and exclusive right, title, and interest in the application and invention, and to any patents that may be obtained therefor in the United States, in any U.S. territorial possessions, and in any and all foreign countries;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/we, the above named assignor(s), hereby sell, assign and transfer to the above named assigne, its successors and assigns, the entire and exclusive right, title and interest in the application and the invention disclosed therein for the United States, U.S. territorial possessions, and in any and all foreign countries, including all divisions, and continuations, and continuations-in-part thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues and reexaminations, renewals, and substitutions thereof, and including the right to claim priority under 35 U.S.C. §119, and all rights for past infringement, under the international Convention, and under any other relevant international Treaties and Arrangements, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; I/we will execute without further consideration all papers deemed necessary by the assignee, and generally perform all necessary acts to aid the assignee, its successors and assigns, to obtain and enforce proper protection for the invention in connection with the United States and foreign applications, including but not limited to all divisional, continuation, reissue and other applications for Letters Patent on the invention and execute all assignments thereof to the above named assignee its successors and assigns, when called upon to do so by the assignee; and I/we will communicate to the above named assignee or its representatives all facts known to the undersigned respecting the invention, whenever requested, testify in any legal proceedings in which any of the applications or patents may become involved, and do generally everything necessary to assist the above named assignee its successors or assigns to obtain patent protection for the invention in the United States and foreign countries.

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

As the below named inventor, I hereby declare that:

This assignment with declaration is	The attached application, or		
directed to:			
		CT International Application	m Number PCT/JP2017/032530
	filed on September 08, 2017 (Confi	rmation No. ).	

The application is entitled:

#### IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD AND STORAGE MEDIUM

The above identified application was made or was authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted, including the claims.

I am aware of the duty to disclose to the U.S Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CPR 1.56.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

#### Authorization To Permit Access To Application by Participating Office

☑ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

PATENT REEL: 058252 FRAME: 0206 In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

ARE .				
IRE .				
7 . %				
uary 21, 2020				
ary 21, 2020				
Inventor's signature Kyntorn Vag Date February 21, 2020  Residence: Tokyo, Japan				
Mailing Address: NAME OF FIFTH INVENTOR:				
Given Name (first and middle [if any]) Family Name or Surname				
Inventor's signature Date  Residence:				

PATENT REEL: 058252 FRAME: 0207 Receipt Number: 3270002181

Representative division :Data Science Research Laboratories

Utilized case/General case: General case

Title of Invention: IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD AND IMAGE PROCESSING PROGRAM

### Inventor's Info (Assignment)

#### Assignment

For the below identified invention, utility model, or design (hereinafter simply called "invention"), I hereby assign, to a company to which I myself belong at present, the right to obtain a patent, utility model registration, or design registration (hereinafter simply called "patent") in Japan as well as other countries and regions according to the employment rule of the company to which I myself belong at present. In case where the below identified invention has been jointly invented, I agree for eachjoint inventor, deviser, or creator (hereinafter simply called "joint inventor") to assign to a current employer of eachjoint inventor a right to obtain a patent for the below identified invention, (unless otherwise agreed with respect to assignment of the right to obtain a patent for the below identified invention)

No.	Inventor				
	Company	NEC Corporation			
	Department	Data Science Research Laboratories			
	Name Roman characters	Madhuri Nagare			
1	E-mail Address	m-nagare@cq.ip.nec.com			
	Extension No.	8-22-60626	External Dial-In No.	044-431-7658	
	External Fax No.				
	Date of Assignment	March 24, 2017	Contribution Ratio	70/100	
No.		}	nventor		
	Company	NEC Corporation			
	Department	Data Science Research I	aboratories		
	Name Roman characters	Hirofumi Aoki	Hirofumi Aoki		
2	E-mail Address	hao@bu.ip.nec.com			
	Extension No.	8-22-60626	External Dial-In No.	044-431-7658	
	External Fax No.	044-431-7588			
	Date of Assignment	March 24, 2017	Contribution Ratio	25/100	
No.		Inventor			
	Company	NEC Corporation			
	Department	Data Science Research Laboratories			
	Name Roman characters	Kazutoshi Sagi			
3	E-mail Address	ksagi@ah.jp.nec.com			
	Extension No.	8-91-70342	External Dial-In No.	050-3362-0487	
	External Fax No.				
	Date of Assignment	April 3, 2017	Contribution Ratio	5/100	

Translator:

Teruyuki Nakamura

受付番号:3270002181

代表事業部:32700 データサイエンス研究所 活用案件/一般案件:一般案件 発明の名称:IMAGE PROCESSING DEVICE, IMAGE PROCESSIN G METHOD AND IMAGE PROCESSING PROGRAM

# ■発明者情報(譲渡・同意書)

#### 譲渡・同意

この届出による発明、考案又は意匠(以下、「発明等」と呼ぶ)について、現在自身が所属 する会社の従業員就業規則に基づいて、日本並びにその他の国及び地域で特許、実用新案登 録又は意匠登録(以下、「特許等」と呼ぶ)を受ける権利が現在自身が所属する会社に初め から帰属することを確認します。但し法令等又は現在自身が所属する会社の規則等により特 許等を受ける権利を自身から譲渡することが求められる場合は、当該法令等又は規則等に従 計等を受ける権利を自身がう譲渡することが求められる場合は、当該法事等又は規則等に促い会社に譲渡いたします。また、下記の発明等が共同でなされたものである場合、各共同発明者、共同考案者又は共同創作者(以下、「共同発明者等」と呼ぶ)は、下記の発明等について特許等を受ける権利が各共同発明者等の現在の使用者に帰属すること(上記但書きの場合は譲渡すること)につき、同意いたします。(上記但書きにかかわらず、下記の発明等について特許等を受ける権利の譲渡につき、別段の契約がある場合を除く。)

項番	発明者			
	会社名	日本電気株式会社		
	所屬部門	データサイエンス研究所		
	氏名	ナグレ マドリ		
1	ローマ字	Nagare Madhuri		
	Eメールアドレス	m~nagare@cq.jp.nec.com	******************************	
	内線	8-22-60626	外線ダイヤルイン	044-431-7658
	外線FAX番号		·····	
	譲渡・同意確認日		寄与率	70/100
	会社名	日本電気株式会社		
	所屬部門	データサイエンス研究所		***************************************
	氏名	青木 啓史		
2	ローマ学	Aoki Hirofumi		
	<b>Eメールアドレス</b>	hao®bu, jp.nec.com	<b></b>	
	内線	8-22-60626	外線ダイヤルイン	044-431-7658
	外線FAX番号	044-431-7588	, <u>.</u>	·
	線達·同意確認日		寄与率	25/100
	金过多	日本電気株式会社		
	所属部門	データサイエンス研究所		***************************************
	氏名	鷲 和俊		
3	ローマ字	Sagi Kazutoshi		
	Eメールアドレス	ksaqi∻ah. jp. nec. com	1 41 x41 x 2 3 3 3 3	
	内線	8-91-70342	外線ダイヤルイン	1 050-3362-0487
	外線FAX番号	1 2002 47 4 5 10 2 2 2		
L	譲渡・同意確認日	[201/年04月03日	寄与率	5/100