PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7129419

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
TOMOHIRO INABA	12/24/2020	
HIROO OMI	12/28/2020	
TAKEHIKO TAWARA	12/24/2020	

RECEIVING PARTY DATA

Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION
Street Address:	5-1, OTEMACHI 1-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-8116

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	17628505		

CORRESPONDENCE DATA

Fax Number: (972)732-9218

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: 19727321001

Email: docketing@slatermatsil.com

SLATER MATSIL, LLP Correspondent Name:

Address Line 1: 17950 PRESTON ROAD, SUITE 1000

Address Line 4: DALLAS, TEXAS 75252

ATTORNEY DOCKET NUMBER:	NTT5190140US1
NAME OF SUBMITTER:	JAMES RHEE
SIGNATURE:	/JAMES RHEE/
DATE SIGNED:	01/19/2022

Total Attachments: 3

source=NTT5190140US1 Assignment#page1.tif source=NTT5190140US1 Assignment#page2.tif source=NTT5190140US1 Assignment#page3.tif

> **PATENT** REEL: 058699 FRAME: 0221

507082583

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	METHOD FOR GROWING RARE EARTH OXIDE CRYSTAL		
As the below name	d inventor, I hereby declare that:		
This declaration	☐The attached application, or		
is directed to:	⊠United States application or PCT international application number PCT/JP2019/030674 filed on August 5, 2019		
The above-identifie	ed application was made or 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.		
WHEREAS, NIP	PON TELEGRAPH AND TELEPHONE CORPORATION		
(hereinafter referred to as "ASSIGNEE") having places of business at: 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8116 Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;			
NOW, THEREFORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.			
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assigned of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.			
Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.			
	viedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.		
Inventor: Tomohir	2/4 D 2020		
<u> </u>			

PATENT REEL: 058699 FRAME: 0222

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This declaration	☐The attached application, or
is directed to:	©United States application or PCT international application number PCT/BP2019/030674 filed on August 5, 2019
The above-identif	ied application was made or 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.
(hereinafter referr 100-8116 Japan, i Letters Patent that countries;	PPON TELEGRAPH AND TELEPHONE CORPORATION ed to as "ASSIGNEE") having places of business at 5-1. Otemachi 1-chome. Chiyoda-ku, Tokyo is desirous of acquiring the entire right, title and interest in and to said invention and in and to any may be granted therefore in the United States and its territorial possessions and in any and all foreign
I, by these present in the United State under the terms of aforesaid applicat therefor in the Uni-	FORE, for good, valuable, and adequate consideration, the receipt of which is bereby acknowledged, is do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention tes and its territorial possessions and in all foreign commes (including the right to claim priority of the International Convention and other relevant international Treaties and Arrangements from the ion) and the unifie right, title and interest in and to any and all Letters Patent which may be granted ited States and its territorial possessions and in any and all foreign commes and in and to any and uses, continuations, substitutions and renewals thereof.
and all foreign co of my entire right and assigns, to the	ize and request the Parent Office Officials in the United States and its territorial possessions and any untries to issue any and all of said Letters Patent, when gramed, to said ASSIGNEE as the assigned, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors full end of the term for which said Letters Patent may be granted, as fully and entirely as the same held by me had this Assignment and sale not been made.
Further, Lagred said invention, Bi substitute, netewa Patent to be issue ASSIGNEE, its si	that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting of testify in any legal proceeding, sign all lawful papers, execute all divisional, communism, I and reissue applications, execute all necessary assignment papers to cause any and all of said Letters of to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said accessors and assigns, to obtain and enforce proper projection for said invention in the United States possessions and in any and all foreign countries.
Thereby ackno	wiedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 innent of not more than five (5) years, or both.
	True Dogwood 18 2020
Inventor: Hiroc C	
Signature:	rice C Pic

PATENT REEL: 058699 FRAME: 0223

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

	Title of Invention	METHOD FOR GROWING RARE I	EARTH OXIDE CR	YSTAL		
As the below named inventor, I hereby declare that:			•	<u>;</u>		
	This declaration	☐The attached application, or				
	is directed to:	⊠United States application or PCT filed on <u>August 5, 2019</u>	international applica	ıtion number	PCT/JP2019	9/030674
	The above-identifie	d application was made or authorized	l to be made by me.			
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	I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and a and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assign of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successed and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.				as the assignee, its successors	
	Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respect said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuat substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Let Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid a ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United St and its territorial possessions and in any and all foreign countries.				, continuation, l of said Letters ble to aid said	
	I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 10 by fine or imprisonment of not more than five (5) years, or both.			18 U.S.C. 1001		
ľ	LEGAL NAME OF	INVENTOR				
	Inventor: Takehiko	TAWARA	Da	ate: Dec.	24,20	20
	Signatura:	Takel her Tamor				

PATENT REEL: 058699 FRAME: 0224

RECORDED: 01/19/2022