

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6112370

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ELEMENT SIX TECHNOLOGIES LIMITED	09/02/2016
RECEIVING PARTY DATA	
Name:	RFHIC CORPORATION
Street Address:	RFHIC BUILDING, 41-14, 170 BEON-GIL, BURIM-RO, DONGAN-GU
Internal Address:	ANYANG-SI, GYEONGGI-DO
City:	ANYANG
State/Country:	KOREA, REPUBLIC OF
Postal Code:	14055
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16383609
CORRESPONDENCE DATA	
Fax Number:	(408)716-4985
<i>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.</i>	
Phone:	4087180512
Email:	cspark@cspto.com
Correspondent Name:	CHUNG SIK PARK
Address Line 1:	P.O. BOX 62312
Address Line 4:	SUNNYVALE, CALIFORNIA 94088-2312
ATTORNEY DOCKET NUMBER:	RFHIC-P012USD
NAME OF SUBMITTER:	CHUNG SIK PARK
SIGNATURE:	/Chung.Park/
DATE SIGNED:	05/19/2020
Total Attachments: 8	
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source=RFHIC-P012USD_asmt_cover#page2.tif	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	M/S: ASSIGNMENT RECORDATION
)	SERVICES
Firooz NASSER-FAILI et al.)	
)	Group Art Unit: 2818
Application No.: 16/383,609)	
)	Examiner: Huynh, Andy
Filed: April 14, 2019)	
)	Confirmation No.: 2972
For: COMPOUND SEMICONDUCTOR)	
DEVICE STRUCTURES COMPRISING)	
POLYCRYSTALLINE CVD DIAMOND)	

REQUEST FOR RECORDATION OF ASSIGNMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This letter is to record assignment of the above-noted application, U.S.

Application Ser. No. 16/383,609.

The above-noted application is a divisional application of U.S. Patent Application 15/531,462, which is a national stage application of PCT International Application PCT/EP2015/079054, filed on December 09, 2015. As shown in the attached form PCT/RO/101 (file name: RFHIC-P012US_dec_3), the inventors, Firooz NASSER-FAILI , Daniel Francis , Frank Yantis Lowe, and Daniel James Twitchen, assigned PCT/EP2015/079054 to Element Six Technologies Limited on January 01, 2013. Subsequently, as shown in the attached Agreement (file name: AG0901 16-09-31 UKTEC to RFHIC assignment FINAL signed by RFHIC & E6) executed on September 02, 2016, Element Six Technologies Limited assigned PCT/EP2015/079054 to RFHIC Corporation. (The Schedule of the attached Agreement shows a list of

patents/applications assigned to RFHIC Corporation, and the list includes
PCT/EP2015/079054,)

In addition, the attached Agreement indicates that Element Six Technologies Limited assigns to RFHIC Corporation all the right, title, and interest in all Patent and Patent Applications that claim priority of PCT/EP2015/079054. (See Section 3.1 of the attached Agreement.) Since the above-noted application claims the priority of PCT/EP2015/079054, Applicant respectfully requests recordation of assignment from Element Six Technologies Limited to RFHIC Corporation for the above-noted application.

In the event that there are any questions concerning this paper, or the application in general, the Office is respectfully urged to telephone Applicant's undersigned representative so that prosecution of the application may be expedited.

Respectfully submitted,
PATENT OFFICE OF DR. CHUNG S. PARK

Date: May 19, 2020

By: /Chung.Park/
Chung Park
Registration No. 52,093

P.O. Box 62312
Sunnyvale, CA, 94088-2312
(408) 718-0512

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51 bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

In relation to this International Application No. PCT/EP2015/079054

ELEMENT SIX TECHNOLOGIES LIMITED is entitled to apply for and be granted a patent by virtue of the following :

- (i) NASSER-FAILI Firooz; FRANCIS Daniel; LOWE, Frank Yantis and TWITCHEN, Daniel James are the inventor(s) of the subject matter for which protection is sought by way of this international application;
- (ii) Element Six Limited, GB was entitled as employer of the inventor(s) TWITCHEN, Daniel James.
- (iii) Element Six Limited, GB assigned its rights in the invention and this international application to Element Six Limited, Isle of Man by an Agreement dated 01 July 2003 and a letter dated 14 June 2013.
- (iv) Element Six Limited, Isle of Man, assigned its rights in the invention and this international application to the applicant, Element Six Technologies Limited by virtue of an Agreement dated 31 December 2013.
- (v) Element Six Technologies US Corporation, was entitled as employer of the inventors NASSER-FAILI Firooz; FRANCIS Daniel and LOWE, Frank Yantis at the time the invention was made;
- (vi) Element Six Technologies US Corporation, assigned its rights in the invention and this international application to the applicant, Element Six Technologies Limited by virtue of a Sub-Contractor Agreement dated 06 June 2013, having an effective date of 01 January 2013.

☐ This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

CONFIRMATORY ASSIGNMENT**PARTIES:**

- (1) **ELEMENT SIX TECHNOLOGIES LIMITED**, a company registered in England & Wales under company number 08206603 having its registered office at Global Innovation Centre, Fermi Avenue, Harwell Oxford, Didcot, Oxfordshire, OX11 0QR, UK; (the "ASSIGNOR") and
- (2) **RFHC CORPORATION**, a Republic of Korea company headquartered in Anyang-Si, Republic of Korea, with offices in Morrisville, North Carolina, United States of America, (the "ASSIGNEE");

each a "PARTY" and together the "PARTIES".

1. DEFINITIONS:

For the purposes of this Assignment:

- 1.1 "PATENTS" shall mean, collectively and severally, the patents and patent applications listed in the SCHEDULE to this Assignment.
- 1.2 "INVENTIONS" shall mean the inventions to which the PATENTS relate.

2. WHEREAS:

- 2.1 By virtue of an agreement between the PARTIES dated 15th July 2016 (the "AGREEMENT"), the ASSIGNOR has assigned to the ASSIGNEE all its right title and interest in and to the INVENTIONS and the PATENTS.
- 2.2 For the avoidance of doubt, and so as to confirm ASSIGNEE's legal title to the same, the Parties have agreed to execute this Assignment for the purpose of ensuring that all ASSIGNOR's rights in the INVENTIONS and PATENTS and all other intellectual property rights relating thereto are vested in ASSIGNEE.

3. IT IS AGREED THAT:

In consideration of the sum of \$1 (one United States Dollar) paid by ASSIGNOR to ASSIGNEE, the receipt of which is hereby acknowledged:

- 3.1 ASSIGNOR as necessary hereby confirms the assignment of and assigns to ASSIGNEE, and ASSIGNEE as necessary hereby confirms its acceptance of and accepts all ASSIGNOR's property right title and interest in and to the INVENTIONS and PATENTS for all relevant states including without limitation:
 - (a) the right to apply for and obtain patents in respect of the INVENTIONS in any country in the world;
 - (b) all right, title and interest in and to the PATENTS and all patent applications, patents and supplementary protection certificates which may now or at any time in the future derive or result or claim priority from the same or otherwise relate to the INVENTIONS, including without limitation any divisionals, continuations, continuations-in-part, reissues, re-examination certificates, post-grant reviews, inter partes reviews, supplemental examinations, extensions, renewals and registrations in relation to any thereof and all and any other rights in the inventions comprised in any of the same (hereinafter collectively and severally "the PATENT RIGHTS");
 - (c) the benefit of all priority dates;
 - (d) the right to seek and obtain registrations in any country in the world in respect of any patent deriving from the PATENTS or otherwise included in the PATENT RIGHTS;
 - (e) the right to sue for and obtain injunctive relief, damages and all other relief in respect of any infringement or misuse (whether past present or future) of any of the PATENT RIGHTS or of the rights conferred by publication of any of the same.

- 3.2 Each PARTY authorises and requests his/her professional representative before any national or regional patent office to insert an appendix signed and dated by the professional representative detailing the filing date and application number of any patent application, patent and/or supplementary protection certificates which may now or at any time in the future derive or result or claim priority from the PATENTS where needed for effective recordal of any such patent application or patent at any national or regional patent office.
- 3.3 ASSIGNOR hereby covenants and agrees to and with ASSIGNEE that, at the time of execution and delivery of the AGREEMENT, ASSIGNOR was the sole and lawful owner of the entire right, title, and interest in and to the INVENTIONS and PATENTS, and that ASSIGNOR had good and full right and lawful authority to sell and convey the same.
- 3.4 ASSIGNOR will, without further consideration, communicate to the ASSIGNEE any facts known to the ASSIGNOR regarding the INVENTION and the PATENTS, sign all lawful papers, execute all oaths, assignments, powers of attorney, applications and any other paper desired by ASSIGNEE to obtain, perfect, or secure to ASSIGNEE any and all of the rights, titles and interests herein conveyed, and to maintain, enforce, and defend these rights, titles and interests in any country in the world. ASSIGNOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE under this clause 3.4.
- 3.5 At the request and expense of the ASSIGNEE, ASSIGNOR will testify in any legal proceeding to obtain, perfect, or secure to ASSIGNEE any and all of the rights, titles and interests herein conveyed, and to maintain, enforce, and defend these rights, titles and interests in any country in the world. ASSIGNOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE under this clause 3.5.
- 3.6 ASSIGNOR hereby agrees to execute all such documents and do all such things as may be required by the law of any country in order to record the PATENTS and any other PATENT RIGHTS in the name of ASSIGNEE.
- 3.7 This Assignment shall be governed by the laws of New York, United States of America, and the parties submit to the exclusive jurisdiction of the courts of North Carolina, United States of America in respect of any dispute relating to this Assignment.

Signed on behalf of
ELEMENT SIX TECHNOLOGIES LIMITED

Signature:

Name:

Title:

Date:

David Tintche

DAVID TINTCHE

Head of WD Bio Dev

2nd September 2016

Signed on behalf of
RFHIC CORPORATION

Signature:

Name:

Title:

Date:

Deoksoo Cho

Deoksoo Cho

CEO

31/8/2016

SCHEDULE

US Family Reference	Country	Application Number, Application Date (Filed-on Date)	Publication Number (Publication Date)	Grant Number (Grant Date)	Parent Application (unless where directly from priority/provisional applications)	Priority/Provisional Application Number (Priority/Provisional Application Date)	Inventor(s)	Title	US Case Reference
PF1130	GB	1222341.8 12-Dec-2012 (12-Dec-2012)	GB2497665 (19-Jun-2013)	GB2497665 (23-Jul-2014)		GB Priority Application 1121666.0 (16-Dec-2011)	MOLLART, Timothy Peter	Synthetic Diamond Coated Compound Semiconductor Substrates	PF1130-GB-2
	US	14362643 12-Dec-2012 (04-Jun-2014)	US20140339684 (20-Nov-2014)		National phase of International Application PCT/EP2012/075252 filed 12-Dec-2012, published as WO201308776 on 20-Jun-2013	US Provisional Application 61/576843 (16-Dec-2011)			PF1130-US-0
PF1200	US	143439750 19-Nov-2013 (30-Apr-2015)	US20150391922 (15-Oct-2015)	US9214407 (15-Dec-2015)	National phase of International Application PCT/EP2013/074158 filed 19-Nov-2013, published as WO2014075836 on 30-May-2014	US Provisional Application 61/728929 (21-May-2012)	FWITCHEN, Daniel James	Synthetic Diamond Heat Spreaders	PF1200-US-0
PF1254	GB	131171.5 04-Dec-2013 (04-Dec-2013)	GB2510468 (06-Aug-2014)	GB2510468 (08-Jun-2016)		GB Priority Application 1301560.7 (29-Jan-2013)			
	EP	1381597.8 04-Dec-2013 (28-Mar-2015)	EP2936550 (28-Oct-2015)JP			GB Priority Application 1222798.9 (18-Dec-2012)	MOLLART, Timothy Peter; JIANG, Qianzhong; EDWARDS, Michael John; ALLSOPP, Duncan William Edward;	Substrates for Semiconductor Devices	PF1254-EP-0
	JP	2015-348336 04-Dec-2013 (17-Jun-2015)	JP201607450 (10-Mar-2016)		National Phase of International Application PCT/EP2013/075557 filed on 04-Dec-2013, published as WO2014095373 on 26-Jun-2014	GB Priority Application 1310939.1 (05-Jun-2013)	BOWEN, Christopher Rhys; WANG, Wang Wang		PF1254-JP-2
	US	14648256 04-Dec-2013 (28-May-2015)	US20160186362 (30-Jun-2016)			US Provisional Application 61/738641 (18-Dec-2012)			PF1254-US-0
	GB	1521646.8 09-Dec-2015 (09-Dec-2015)	GB2534674 (03-Aug-2016)			US Provisional Application 627093717 (18-Dec-2014)	NASSER-FARLI, Firooz; FRANCIS, Daniel; LOWE, Frank Yannis;	Compound Semiconductor Device Structures Comprising Polycrystalline CVD Diamond	PF1321-GB-2
PF1321	WO	PCT/EP2015/079084 09-Dec-2015 (09-Dec-2015)	WO2016096551 (23-Jun-2016)			GB Priority Application 1502954.9 (23-Feb-2015)	FWITCHEN, Daniel James		PF1321-WO-0
PF1322	GB	1521647.6 09-Dec-2015 (09-Dec-2015)	GB2534675 (03-Aug-2016)			US Provisional Application 627093727 (18-Dec-2014)	LOWE, Frank Yannis; NASSER-FARLI, Firooz; FRANCIS, Daniel;	Compound Semiconductor Device Structures Comprising Polycrystalline CVD Diamond	PF1322-GB-2
	WO	PCT/EP2015/079061 09-Dec-2015 (09-Dec-2015)	WO2016096556 (23-Jun-2016)			GB Priority Application 1502998.2 (18-Feb-2015)	FWITCHEN, Daniel James		PF1322-WO-0

E6 Family Reference	Country	Application Number (Filed-on Date)	Publication Number (Publication Date)	Grant Number (Grant Date)	Parent Application (unless where directly from priority-provisional applications)	Priority/Provisional Application Number (Priority/Provisional Application Date)	Inventors	Title	E6 Case Reference
PF1333	GB	1608246.9 (11-May-2016) (11-May-2016)	Not yet published			US Provisional Application 62/161616 (14-May-2015)	FRANCIS, Daniel	Method of Fabricating Diamond- Semiconductor Composite Substrates	PF1333-GB-2
	WO	WO/2016/060493 (11-May-2016) (11-May-2016)	Not yet published						PF1333-WO-0
PF1330	US	62/237786 (20-Nov-2015) (Provisional Application)				GB Priority Application 1509766.0 (05-Jan-2015)	FRANCIS, Daniel; LOWE, Frank Yantis, PEARSON, Michael Ian	Mounting of Semiconductor-Chip- Diamond Wafers for Device Processing	PF1330-GB-0
	GB	1521836.5 (11-Dec-2015) (Priority Application)							PF1330-GB-0

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

TEBBUTT, George, Ashley
Haseltine Lake LLP
Redcliff Quay
120 Redcliff Street
Bristol BS1 6HU
ROYAUME-UNI

Date of mailing (<i>day/month/year</i>) 09 November 2016 (09.11.2016)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference P129565PC00	
International application No. PCT/EP2015/079054	International filing date (<i>day/month/year</i>) 09 December 2015 (09.12.2015)

1. The following indications appeared on record concerning:		
<input checked="" type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative		
Name and Address ELEMENT SIX TECHNOLOGIES LIMITED Global Innovation Centre Fermi Avenue, Harwell Oxford, Didcot Oxfordshire OX11 0QR United Kingdom	State of Nationality GB	State of Residence GB
	Telephone No.	
	Facsimile No.	
	E-mail address	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
<input checked="" type="checkbox"/> the person <input type="checkbox"/> the name <input type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence		
Name and Address RFHIC CORPORATION RFHIC Bldg. 41-14 Burim-ro 170 beon-gil Dongan-gu, Anyang-si Gyeonggi-do 14055 Republic of Korea	State of Nationality KR	State of Residence KR
	Telephone No.	
	Facsimile No.	
	E-mail address <input type="checkbox"/> Notifications by e-mail authorized	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
<input checked="" type="checkbox"/> the receiving Office <input type="checkbox"/> the International Preliminary Examining Authority <input checked="" type="checkbox"/> the International Searching Authority <input checked="" type="checkbox"/> the designated Offices concerned <input type="checkbox"/> the Authority(ies) specified for supplementary search <input type="checkbox"/> the elected Offices concerned <input type="checkbox"/> other:		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Blanc Veronique e-mail pt05.pct@wipo.int Telephone No. +41 22 338 74 05
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