

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5781927

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DONG CHUL KIM	03/21/2018
IDA MARIE E. HØIAAS	03/09/2018
CARL PHILIP J. HEIMDAL	03/09/2018
BJØRN OVE M. FIMLAND	03/09/2018
HELGE WEMAN	03/09/2018
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16504862
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NAME OF SUBMITTER:	MELISSA M. MITCHELL
SIGNATURE:	/Melissa M. Mitchell/
DATE SIGNED:	10/22/2019
Total Attachments: 9 source=10414-013US2 Assignment#page1.tif source=10414-013US2 Assignment#page2.tif source=10414-013US2 Assignment#page3.tif source=10414-013US2 Assignment#page4.tif source=10414-013US2 Assignment#page5.tif source=10414-013US2 Assignment#page6.tif source=10414-013US2 Assignment#page7.tif source=10414-013US2 Assignment#page8.tif source=10414-013US2 Assignment#page9.tif	

ASSIGNMENT

For valuable consideration, we, **Dong Chul KIM** of Blåkklokkevegen 27 A, Trondheim Norway 7050; **Ida Marie E. HØIAAS** of Breidablikkveien 76, Trondheim Norway 7020; **Carl Philip J. HEIMDAL** of Fådveien 14 A, Oslo Norway 0751; **Bjørn Ove M. FIMLAND** of Marie Særdals veg 14 G, Trondheim Norway 7036; **Helge WEMAN** of Chemin de la Chiésaz 15, Ecublens Switzerland 1024, hereby assign to an undivided interest in the entirety to **NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU)**, a university of Norway, having a place of business at Sem Sælands vei 14, Trondheim N-7491 Norway, and **CRAYONANO AS**, a corporation of Norway, having a place of business at Otto Nielsnes vei 12, Trondheim 7052 Norway, and its successors and assigns (collectively hereinafter "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements that are subject of an application for United States Patent, entitled "**NANOWIRES OR NANOPYRAMIDS GROWN ON GRAPHITIC SUBSTRATE**," filed January 12, 2018, and assigned U.S. Patent Application No. 15/744,457, which is a filing under 35 USC §371 of PCT Serial Number PCT/EP2016/066696 filed July 13, 2016, which claims priority to Great Britain Patent Application Nos. GB 1512230.2 filed July 13, 2015, and GB 1600150.5 filed January 5, 2016; this assignment including said application, any and all divisional, continuing, substitute, renewal, reissue and all other applications for patent that have been or shall be filed in the United States and all foreign countries on any such inventions or improvements; all original and reissued patents that have been or shall be issued in the United States and all foreign countries on such inventions or improvements; and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further

applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 21-03-2018

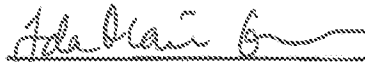

Dong Chul KIM

WITNESSED BY:


Signature of Witness

CARL PHILIP HEIMDAL
Name of Witness

21.3.2018
Date


Signature of Witness

IDA MARIE HOLMÅS
Name of Witness

22/03 2018
Date

Date: 9/3 - 2018

Ida Marie E. HØIAAS
Ida Marie E. HØIAAS

WITNESSED BY:

Ine Mari Vevang
Signature of Witness

INE MARI VEVANG
Name of Witness

2018-03-09
Date

Asgeir Bjørgen
Signature of Witness

Asgeir Bjørgen
Name of Witness

2018-03-09
Date

Date: 9.3.2018

Carl Philip J. Heimdahl
Carl Philip J. HEIMDAL

WITNESSED BY:

Leidula Vigen
Signature of Witness

LEIDULA VIGEN
Name of Witness

9/3 - 2018
Date

Dong Chul Kim
Signature of Witness

Dong Chul Kim
Name of Witness

9/3 - 2018
Date

Date: 09 March 2018

Bjørn-Ove Finland
Bjørn Ove M. FINLAND

WITNESSED BY:

Troy Anne Nilsen
Signature of Witness

Troy-Anne Nilsen
Name of Witness

09 March 2018
Date

Dingding Ren
Signature of Witness

Dingding Ren
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09 March 2018
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Date: March 9, 2018

Helge Weman
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09-03-2018
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March 9, 2018
Date

Date:

2/03/2018

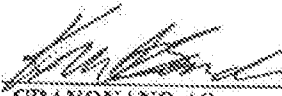


NORWEGIAN UNIVERSITY OF
SCIENCE AND TECHNOLOGY (NTNU)

Attorney Docket No. 10414-013181
Dehns' Ref: 3.33.123973/15

Date:

12/4-2018


CRAYONANO AS

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