

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4412103

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the 2ND SECOND ASSGINEE NAME previously recorded on Reel 037250 Frame 0685. Assignor(s) hereby confirms the ASSIGNMENT.
<b>RESUBMIT DOCUMENT ID:</b>	504343210

**CONVEYING PARTY DATA**

Name	Execution Date
MATH POWER CO., LTD	02/22/2017

**RECEIVING PARTY DATA**

<b>Name:</b>	RESEARCH BUSINESS FOUNDATION SUNGKYUNKWAN UNIVERSITY
<b>Street Address:</b>	SUNGKYUNKWAN UNIVERSITY, 2066, SEOBU-RO, JANGAN-GU, SUWON-SI,
<b>Internal Address:</b>	GYEONGGI-DO
<b>City:</b>	SUWON-SI
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	440-746
<b>Name:</b>	CDGENE INC.
<b>Street Address:</b>	SUNGKYUNKWAN UNIV. NATURAL SCIENCES CAMPUS COOPERATION CENTER 85402,
<b>Internal Address:</b>	2066, SEOBU-RO, JANGAN-GU,
<b>City:</b>	SUWON-SI, GYEONGGI-DO
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	440746

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	14758444

**CORRESPONDENCE DATA**

**Fax Number:** (703)992-8124

*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:** 703-992-8118

**Email:** sckwon@gzonelaw.com

**Correspondent Name:** SANG CHUL KWON

**Address Line 1:** 4208 EVERGREEN LANE, SUITE 232

**Address Line 4:** ANNANDALE, VIRGINIA 22003

<b>ATTORNEY DOCKET NUMBER:</b>	0014-0002
<b>NAME OF SUBMITTER:</b>	SANG CHUL KWON
<b>SIGNATURE:</b>	/Sang Chul KWON/
<b>DATE SIGNED:</b>	05/12/2017

**Total Attachments: 8**

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# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3650599

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
JAE CHERN YOO	12/09/2015

**RECEIVING PARTY DATA**

<b>Name:</b>	RESEARCH BUSINESS FOUNDATION SUNGKYUNKWAN UNIVERSITY
<b>Street Address:</b>	2066, SEOBU-RO, JANGAN-GU, SUWON-SI, GYEONGGI-DO
<b>City:</b>	SUWON-SI
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	440-746 <i>sck</i>
<b>Name:</b>	MATH POWER CO., LTD. <i>3</i> -- CDgene Inc. -- <i>sck</i>
<b>Street Address:</b>	SUNGKYUNKWAN UNIV. NATURAL SCIENCES CAMPUS COOPERATION CENTER 85402, 2066, SEOBU-RO, JANGAN-GU,
<b>City:</b>	SUWON-SI
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	440-746

**PROPERTY NUMBERS Total: 1**

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Application Number:	14758444

**CORRESPONDENCE DATA**

**Fax Number:** (703)992-8124  
*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:** 7039928118  
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**Correspondent Name:** SANG CHUL KWON  
**Address Line 1:** 4208 EVERGREEN LANE, SUITE 232  
**Address Line 4:** ANNANDALE, VIRGINIA 22003

<b>ATTORNEY DOCKET NUMBER:</b>	0014-0002
<b>NAME OF SUBMITTER:</b>	SANG CHUL KWON
<b>SIGNATURE:</b>	/Sang Chul Kwon/
<b>DATE SIGNED:</b>	12/09/2015 <i>2/25/2017</i>

## ASSIGNMENT OF PATENT APPLICATION

WHEREAS I/We, the below named inventor(s) has made an invention entitled:

**NUCLEIC ACID AMPLIFICATION DISK APPARATUS USING TEMPERATURE SENSITIVE POLYMER SYNTHESIS AND THE ANALYSIS METHOD USING THE SAME**

For which I/We executed an application for Letters Patent of the United States concurrently herewith; and/or  
For which I/We filed an application for Letters Patent of the United States on June 29, 2015  
(Application No. 14/758,444),

BE IT KNOWN that, for good and valuable consideration, the receipt of which is hereby acknowledged, I/We, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto RESEARCH BUSINESS FOUNDATION SUNGKYUNKWAN UNIVERSITY of Sungkyunkwan University, 2066, Seobu-ro, Jangan-gu, Suwon-si, Gyeonggi-do 440-746, Republic of Korea/ MATH POWER CO., LTD. of Sungkyunkwan Univ. Natural Sciences Campus Cooperation Center 85402, 2066, Seobu-ro, Jangan-gu, Suwon-si, Gyeonggi-do 440-746, Republic of Korea (hereinafter referred to as Assignee(s)), its lawful successors and assigns my/our entire right, title, and interest in and to this application and the invention(s) and improvement(s) set forth therein; and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent and any and all Letters Patent of the United States thereto, which may be granted thereon or therefore; and any reissues, reexaminations, or extensions of all such Letters Patent.

I/WE HEREBY authorize the Assignee(s), its lawful successors and assigns to apply for Letters Patent in all countries foreign to the United States directly in its own name, and to claim priority of the filing date of any of the above-mentioned applications for Letters Patent of the United States and of countries foreign thereto under the provisions of any and all international conventions and treaties.

I/WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States and official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as foresaid, to issue all Letters Patent for this invention to the Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with said Assignee(s), its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee(s), its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee(s), its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and in countries foreign thereto, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee(s), its successors and assigns.

### Authorization To Permit Access to Application by Participating Offices

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 patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h).

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified application with respect to: 1) the above-identified patent application-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 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.

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 Offices.

AND, I/WE HEREBY authorize and request the attorneys or agents of record to insert the serial number and filing date of said application now identified by the docket number and/or title set forth above as soon as the same shall have been known to them by the United States Patent and Trademark Office.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

Signature of first assignor:



Date

Dec 9, 2015

Name of first assignor:

YOO, Jae Chern

Address:

330-702, Raemian Sur Apt., Wonmun-dong, Gwacheon-si,  
Gyeonggi-do 427-739, Republic of Korea

## ASSIGNMENT OF PATENT APPLICATION

THIS AGREEMENT is made this Twenty second day of February, 2017, by and between the following parties:

WHEREAS, MATH POWER CO., LTD. (hereinafter referred to as "ASSIGNOR"), having a place of business at: of Sungkyunkwan Univ. Natural Sciences Campus Cooperation Center 85402, 2066, Seobu-ro, Jangan-gu, Suwon-si, Gyeonggi-do 440-746, is co- owner of the patent application filed with the United States Patent and Trademark Office, Patent Application No.: 14/758,444, filed on June, 29, 2015, titled, NUCLEIC ACID AMPLIFICATION DISK APPARATUS USING TEMPERATURE SENSITIVE POLYMER SYNTHESIS AND THE ANALYSIS METHOD USING THE SAME (The "Patent Application").

WHEREAS, CDgene Inc. (hereinafter referred to as "ASSIGNEE"), having a place of business at: of Sungkyunkwan Univ. Natural Sciences Campus Cooperation Center 85402, 2066, Seobu-ro, Jangan-gu, Suwon-si, Gyeonggi-do 440-746, Republic of Korea, is desirous of acquiring the full and exclusive right in and to said Patent Application and the invention(s) and improvement(s) set forth therein; including any Letters Patent which may be granted therefor, in the United States and its territorial possessions, including any and all divisions, continuations, substitutions, renewals, re-examination, extension and reissues thereof, and any other applications claiming priority thereto.

NOW THEREFORE, in consideration of the mutual promises, covenants, warranties, and for good and valuable consideration, and in accordance with applicable law, the Parties hereby agree as follows:

1. *Assignment.* Assignor hereby assigns to Assignee, and its successors, representatives and assigns, all right, title and interest in the Patent application including any Letters Patent which may be granted therefor, in the United States and its territorial possessions, including any and all divisions, continuations, substitutions, renewals, re-examination, extension and reissues thereof, and any other applications claiming priority thereto. Assignor hereby requests the Commissioner of Patents of

the United States to record this assignment of all right, title and interest in the Patent application to Assignee.

2. *Assignor's Representations and Warranties.* Assignor hereby represents and warrants

i) that it has the legal right and authority to execute this Agreement, and to validly assign the entire interest in the Patent application to Assignee,

ii) that it has not executed any other agreement that would conflict with the terms of this Agreement, nor shall it execute any such agreement in the future, and

iii) that to the best of Assignor's knowledge, the Patent application is valid and enforceable as of the date of this Agreement. Assignor makes no representations or warranties as to the validity or enforceability of the Patent application subsequent to the date of this Agreement.

3. *Patent Status.* Assignee hereby acknowledges that any finding or ruling subsequent to the date of this Agreement that the Patent application is invalid or unenforceable shall not give rise to a cause of action against Assignor under this Agreement, unless Assignor has committed fraud in executing this Agreement.

4. *Further Actions.* Assignor hereby agrees to execute any further agreements and to take any further actions necessary to aid Assignee in perfecting its interest in the Patent and in enforcing any and all protections or privileges deriving from the Patent.

5. *Governing Law.* This Agreement shall be construed in accordance with, and governed in all respects by, the laws of the Republic of Korea, without regard to conflicts of law principles.

6. *Counterparts.* This Agreement may be executed in several counterparts, each of which shall constitute an original and all of which, when taken together, shall constitute one agreement.

7. *Severability.* If any part or parts of this Agreement shall be held unenforceable for any reason, the remainder of this Agreement shall continue in full force and effect. If any provision of this Agreement is deemed invalid or unenforceable by any court of competent jurisdiction, and if limiting such provision would make the provision valid, then such provision shall be deemed to be construed as so limited.

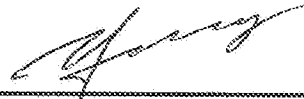
8. *Headings.* The headings for section herein are for convenience only and shall not affect the meaning of the provisions of this Agreement.

9. *Entire Agreement.* This Agreement constitutes the entire agreement between Assignor and Assignee, and supersedes any prior understanding or representation of any kind preceding the date of this Agreement. There are no other promises, conditions, understandings or other agreements, whether oral or written, relating to the subject matter of this Agreement.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed the day and year first above written.

ASSIGNOR

ASSIGNEE



Signature

Signature

Taehi, Nam / CEO  
Print Name/Title

Taehi, Nam / CEO  
Print Name/Title