

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHIN SUNG PARK	10/30/2019
JIN SEOK KANG	11/08/2019
JONG SUN KIM	11/08/2019
JUN HONG MIN	11/08/2019
JEONG JIN CHOI	10/30/2019
RECEIVING PARTY DATA	
Name:	SK TELECOM CO., LTD.
Street Address:	(EULJIRO 2-GA) 65, EULJIRO, JUNG-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	04539
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16683654
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	27751-44927/US
NAME OF SUBMITTER:	CARLO MIGUEL C. OCAMPO, REG NO 65328
SIGNATURE:	/Carlo Miguel C. Ocampo/
DATE SIGNED:	11/15/2019
Total Attachments: 4	
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **SK TELECOM CO., LTD.**, a corporation of the Republic of Korea, having a place of business at (Euljiro 2-ga) 65, Euljiro, Jung-gu, Seoul, 04539, Republic of Korea ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional or non-provisional application filed under 35 U.S.C. § 111, design application filed under 35 U.S.C. § 171, Registered Community Designs, international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"), and any patents issuing thereon ("PATENT RIGHTS"):

- * U.S. Patent Application No. 16/683,654, entitled "NUCLEIC ACID ANALYSIS APPARATUS USING CARTRIDGE," filed on November 14, 2019 which is a continuation of International Patent Application No. PCT/KR2018/005282, filed on May 8, 2018, which claims priority to Republic of Korea Patent Application No. 10-2017-0060609, filed on May 16, 2017, and Republic of Korea Patent Application No. 10-2017-0060610, filed on May 16, 2017, and Republic of Korea Patent Application No. 10-2017-0060611, filed on May 16, 2017.

2. The entire worldwide right, title, and interest in and to:
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor,

Title:	NUCLEIC ACID ANALYSIS APPARATUS USING CARTRIDGE		
Filed:	November 14, 2019	Attorney Docket #:	36161-44927/US
Application #:	16/683,654	Client Ref #:	SKT0791PCT/US, P2018-0020-USJ

assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature


Chin Sung PARK

Date of Signature (REQUIRED)

2019.10.30

Name and Signature


Jin Seok KANG

Date of Signature (REQUIRED)

2019.11.06

Name and Signature


Jong Sun KIM

Date of Signature (REQUIRED)

Title:	NUCLEIC ACID ANALYSIS APPARATUS USING CARTRIDGE		
Filed:	Attorney Docket #:	36161-44927AUS	
Application #:	Client Ref #:	SKT0791PCTAUS; F2018-0020-US1	

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Name and Signature

Date of Signature (REQUIRED)

Chin Sung PARK

Name and Signature

Date of Signature (REQUIRED)

Jin Seok KANG

Name and Signature

Date of Signature (REQUIRED)

Jong Sun KIM
Jong Sun KIM

11/18/2019

Title:	NUCLEIC ACID ANALYSIS APPARATUS USING CARTRIDGE		
Filed:		Attorney Docket #:	36161-44927/US
Application #:		Client Ref #:	SKT0791PCT/US, P2018-0070-US1

Name and Signature

Date of Signature (REQUIRED)


Jun Hong MIN

2019.11.08

Name and Signature

Date of Signature (REQUIRED)


Jeong Jin CHOI

Oct 30, 2019