

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8414295

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YONG WOON KIM	01/02/2024
SEO YEONG KANG	01/02/2024
SOO KIL KANG	01/02/2024
MIN GYOO PARK	01/02/2024
YOUNG MOO PARK	01/02/2024
MIN WOO SHIN	01/03/2024
JAE HWAN LEE	01/02/2024
JIN SEONG JANG	01/02/2024
SANG HWAN JO	01/04/2024
RECEIVING PARTY DATA	
Name:	SK INNOVATION CO., LTD.
Street Address:	26, JONG-RO, JONGNO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	03188
Name:	SK GEO CENTRIC CO., LTD.
Street Address:	51, JONG-RO, JONGNO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	03161
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18427821
CORRESPONDENCE DATA	
Fax Number:	(571)327-5452
<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:	5713275450
Email:	ipntlaw@ipntlaw.com

Correspondent Name: IP & T GROUP LLP
Address Line 1: 102 MAPLE AVE. E
Address Line 4: VIENNA, VIRGINIA 22180

ATTORNEY DOCKET NUMBER: PLUS/2314379/US

NAME OF SUBMITTER: KEON WOO PARK

SIGNATURE: /Keon Woo PARK/

DATE SIGNED: 01/31/2024

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 9

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ASSIGNMENT OF AND DECLARATION (37 CFR 1.63) FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS KIM, Yong Woon,
hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to
METHOD AND SYSTEM FOR PRODUCING REFINED HYDROCARBONS FROM WASTE PLASTIC
PYROLYSIS OIL,

[X] said application being attached hereto;
[] said application having been filed in the United States Patent and Trademark Office on
_____, as Application Serial No. _____, and was amended
on _____ (if applicable);
[] the specification of which was filed under the Patent Cooperation Treaty on _____,
Serial No. _____, the United States of America being designated.

AND WHEREAS SK INNOVATION CO., LTD. of 26, Jong-ro, Jongno-gu, Seoul, 03188, Republic of Korea
and SK GEO CENTRIC CO., LTD. of 51, Jong-ro, Jongno-gu, Seoul 03161, Republic of Korea, hereinafter referred
to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application,
including any and all divisions and continuations thereof (i.e. divisional, continuation, and continuation-in-part
applications), and in and to said invention and improvements ("invention") and any and all patents which may be
granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable
consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby
assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title
and interest in and to said application, including any and all divisions and continuations thereof, and in and to said
invention and any and all patents which may be granted therefor, including any and all renewals, reissues and
prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the
said application, including any and all divisions and continuations thereof, and the said invention and any and all patents
which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights,
powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of
any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use
and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said
assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or
assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals,
reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on
said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors
and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be
made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: YONG WOON KIM Date: 02/JAN/2024

Printed or Typed Name: KIM, Yong Woon

ASSIGNMENT OF AND DECLARATION (37 CFR 1.63) FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS KANG, Seo Yeong,
hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to
METHOD AND SYSTEM FOR PRODUCING REFINED HYDROCARBONS FROM WASTE PLASTIC
PYROLYSIS OIL,

☒ said application being attached hereto;

☐ said application having been filed in the United States Patent and Trademark Office on

_____, as Application Serial No. _____, and was amended
on _____ (if applicable);

☐ the specification of which was filed under the Patent Cooperation Treaty on _____,
Serial No. _____, the United States of America being designated.

AND WHEREAS SK INNOVATION CO., LTD. of 26, Jong-ro, Jongno-gu, Seoul, 03188, Republic of Korea
and SK GEO CENTRIC CO., LTD. of 51, Jong-ro, Jongno-gu, Seoul 03161, Republic of Korea, hereinafter referred
to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application,
including any and all divisions and continuations thereof (i.e. divisional, continuation, and continuation-in-part
applications), and in and to said invention and improvements ("invention") and any and all patents which may be
granted therefor, including any and all renewals, reissues and prolongations thereof;

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consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby
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and interest in and to said application, including any and all divisions and continuations thereof, and in and to said
invention and any and all patents which may be granted therefor, including any and all renewals, reissues and
prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the
said application, including any and all divisions and continuations thereof, and the said invention and any and all patents
which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights,
powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of
any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use
and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said
assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or
assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals,
reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on
said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors
and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be
made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: Seo Yeong Kang Date: 2/JAN/2024

Printed or Typed Name: KANG, Seo Yeong

ASSIGNMENT OF AND DECLARATION (37 CFR 1.63) FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS KANG, Soo Kil, hereinafter
referred to collectively as the assignor and inventor, has invented a certain improvement relating to
METHOD AND SYSTEM FOR PRODUCING REFINED HYDROCARBONS FROM WASTE PLASTIC
PYROLYSIS OIL,

[X] said application being attached hereto;
[] said application having been filed in the United States Patent and Trademark Office on
_____, as Application Serial No. _____, and was amended
on _____ (if applicable);
[] the specification of which was filed under the Patent Cooperation Treaty on _____,
Serial No. _____, the United States of America being designated.

AND WHEREAS SK INNOVATION CO., LTD. of 26, Jong-ro, Jongno-gu, Seoul, 03188, Republic of Korea
and SK GEO CENTRIC CO., LTD. of 51, Jong-ro, Jongno-gu, Seoul 03161, Republic of Korea, hereinafter referred
to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application,
including any and all divisions and continuations thereof (i.e. divisional, continuation, and continuation-in-part
applications), and in and to said invention and improvements ("invention") and any and all patents which may be
granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable
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assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title
and interest in and to said application, including any and all divisions and continuations thereof, and in and to said
invention and any and all patents which may be granted therefor, including any and all renewals, reissues and
prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the
said application, including any and all divisions and continuations thereof, and the said invention and any and all patents
which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights,
powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of
any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use
and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said
assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or
assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals,
reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on
said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors
and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be
made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: Soo Kil Kang Date: 02/28/2024

Printed or Typed Name: KANG, Soo Kil

ASSIGNMENT OF AND DECLARATION (37 CFR 1.63) FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS PARK, Min Gyoo,

hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to

METHOD AND SYSTEM FOR PRODUCING REFINED HYDROCARBONS FROM WASTE PLASTIC
PYROLYSIS OIL,

[X] said application being attached hereto;

[] said application having been filed in the United States Patent and Trademark Office on

_____, as Application Serial No. _____, and was amended
on _____ (if applicable);

[] the specification of which was filed under the Patent Cooperation Treaty on _____,
Serial No. _____, the United States of America being designated.

AND WHEREAS SK INNOVATION CO., LTD. of 26, Jong-ro, Jongno-gu, Seoul, 03188, Republic of Korea
and SK GEO CENTRIC CO., LTD. of 51, Jong-ro, Jongno-gu, Seoul 03161, Republic of Korea, hereinafter referred
to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application,
including any and all divisions and continuations thereof (i.e. divisional, continuation, and continuation-in-part
applications), and in and to said invention and improvements ("invention") and any and all patents which may be
granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable
consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby
assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title
and interest in and to said application, including any and all divisions and continuations thereof, and in and to said
invention and any and all patents which may be granted therefor, including any and all renewals, reissues and
prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the
said application, including any and all divisions and continuations thereof, and the said invention and any and all patents
which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights,
powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of
any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use
and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said
assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or
assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals,
reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on
said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors
and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be
made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: Park Min Gyoo Date: 2024-01-02

Printed or Typed Name: PARK, Min Gyoo

ASSIGNMENT OF AND DECLARATION (37 CFR 1.63) FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS PARK, Young Moo,

hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to
METHOD AND SYSTEM FOR PRODUCING REFINED HYDROCARBONS FROM WASTE PLASTIC
PYROLYSIS OIL,

[X] said application being attached hereto;

[] said application having been filed in the United States Patent and Trademark Office on _____, as Application Serial No. _____, and was amended on _____ (if applicable);

[] the specification of which was filed under the Patent Cooperation Treaty on _____, Serial No. _____, the United States of America being designated.

AND WHEREAS SK INNOVATION CO., LTD. of 26, Jong-ro, Jongno-gu, Seoul, 03188, Republic of Korea and SK GEO CENTRIC CO., LTD. of 51, Jong-ro, Jongno-gu, Seoul 03161, Republic of Korea, hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof (i.e. divisional, continuation, and continuation-in-part applications), and in and to said invention and improvements ("invention") and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

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AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: Young Moo Park Date: 02/June/2024

Printed or Typed Name: PARK, Young Moo

ASSIGNMENT OF AND DECLARATION (37 CFR 1.63) FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS SHIN, Min Woo, hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to METHOD AND SYSTEM FOR PRODUCING REFINED HYDROCARBONS FROM WASTE PLASTIC PYROLYSIS OIL,
[X] said application being attached hereto;
[] said application having been filed in the United States Patent and Trademark Office on _____, as Application Serial No. _____, and was amended on _____ (if applicable);
[] the specification of which was filed under the Patent Cooperation Treaty on _____, Serial No. _____, the United States of America being designated.

AND WHEREAS SK INNOVATION CO., LTD. of 26, Jong-ro, Jongno-gu, Seoul, 03188, Republic of Korea and SK GEO CENTRIC CO., LTD. of 51, Jong-ro, Jongno-gu, Seoul 03161, Republic of Korea, hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof (i.e. divisional, continuation, and continuation-in-part applications), and in and to said invention and improvements ("invention") and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

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AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: SHIN Min Woo Date: 03/ Jun/ 2024

Printed or Typed Name: SHIN, Min Woo

ASSIGNMENT OF AND DECLARATION (37 CFR 1.63) FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS LEE, Jae Hwan, hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to METHOD AND SYSTEM FOR PRODUCING REFINED HYDROCARBONS FROM WASTE PLASTIC PYROLYSIS OIL,
[X] said application being attached hereto;
[] said application having been filed in the United States Patent and Trademark Office on _____, as Application Serial No. _____, and was amended on _____ (if applicable);
[] the specification of which was filed under the Patent Cooperation Treaty on _____, Serial No. _____, the United States of America being designated.

AND WHEREAS SK INNOVATION CO., LTD. of 26, Jong-ro, Jongno-gu, Seoul, 03188, Republic of Korea and SK GEO CENTRIC CO., LTD. of 51, Jong-ro, Jongno-gu, Seoul 03161, Republic of Korea, hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof (i.e. divisional, continuation, and continuation-in-part applications), and in and to said invention and improvements ("invention") and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

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As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: Jae Hwan Lee Date: 02/Jun/2024

Printed or Typed Name: LEE, Jae Hwan

ASSIGNMENT OF AND DECLARATION (37 CFR 1.63) FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS JANG, Jin Seong,
hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to
METHOD AND SYSTEM FOR PRODUCING REFINED HYDROCARBONS FROM WASTE PLASTIC
PYROLYSIS OIL,

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any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use
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by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: Jin Seong Jang Date: 02. Jan. 2024

Printed or Typed Name: JANG, Jin Seong

ASSIGNMENT OF AND DECLARATION (37 CFR 1.63) FOR APPLICATION
FOR UNITED STATES LETTERS PATENT

WHEREAS JO, Sang Hwan, hereinafter
referred to collectively as the assignor and inventor, has invented a certain improvement relating to
METHOD AND SYSTEM FOR PRODUCING REFINED HYDROCARBONS FROM WASTE PLASTIC
PYROLYSIS OIL,

[X] said application being attached hereto;
[] said application having been filed in the United States Patent and Trademark Office on
_____, as Application Serial No. _____, and was amended
on _____ (if applicable);
[] the specification of which was filed under the Patent Cooperation Treaty on _____,
Serial No. _____, the United States of America being designated.

AND WHEREAS SK INNOVATION CO., LTD. of 26, Jong-ro, Jongno-gu, Seoul, 03188, Republic of Korea
and SK GEO CENTRIC CO., LTD. of 51, Jong-ro, Jongno-gu, Seoul 03161, Republic of Korea, hereinafter referred
to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application,
including any and all divisions and continuations thereof (i.e. divisional, continuation, and continuation-in-part
applications), and in and to said invention and improvements ("invention") and any and all patents which may be
granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable
consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby
assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title
and interest in and to said application, including any and all divisions and continuations thereof, and in and to said
invention and any and all patents which may be granted therefor, including any and all renewals, reissues and
prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the
said application, including any and all divisions and continuations thereof, and the said invention and any and all patents
which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights,
powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of
any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use
and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said
assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or
assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals,
reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on
said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors
and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be
made by me, and that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

ASSIGNOR (INVENTOR):

Signature: Sanghwan Jo Date: 04/Jan/2024

Printed or Typed Name: JO, Sang Hwan