

## K2LT长夀科技 专利技术

基因疗法抗衰 Ai科技延壽

-全球领先的抗衰老垂直领域服务商-

# 目录

1.一种全谱营养素组合物应用	专利号:63578806
2.一种调节肠道微生物群失调组合物的应用	专利号:63578809
3.一种制备抗炎组合物的应用	专利号: 63578819
4.一种DNA甲基化组合物的应用	专利号: 63578844
5. 一种调控端粒酶活性与端粒长度组合物的应用	专利号: 63578853
6. 一种禁用巨自噬抗衰老组合物及其应用	专利号: 63578859
7. 一种改变细胞间通讯组合物的应用	专利号: 63578865
8.一种细胞表现改变组合物的应用	专利号: 63578868
9. NM N抗衰老组合物的应用	专利号: 63578870
10. 一种吡咯喹啉醌在线粒体功能障碍组合物应用	专利号: 63578879
11.NAD+AM PK抗衰老组合物应用	专利号: 63578882

专利号: 63578886

12. 一种激活干细胞再生组合物及其应用







of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

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grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.s.c. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.s.c. 41(b). See the Maintenance Fee Notice on the inside of the cover.

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 APPLICATION NUMBER
 FILING or 371(c) DATE
 GRP ART UNIT
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 ATTY.DOCKET.NO
 TOT CLAIMS IND CLAIMS

 63/578,806
 08/25/2023
 120
 JZ23-SFP01

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748 CONFIRMATION NO. 4622
FILING RECEIPT

Date Mailed: 09/06/2023

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Inventor(s)

Xianghai Kong, MONROVIA, CA;

Applicant(s)

K2 LONGEVITY INC, MONROVIA, CA;

Power of Attorney: JIANMIN ZHOU -68421

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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Non-Publication Request: No Early Publication Request: No \*\* SMALL ENTITY \*\*



#### APPLICATION OF A FULL SPECTRUM NUTRIENT COMPOSITION

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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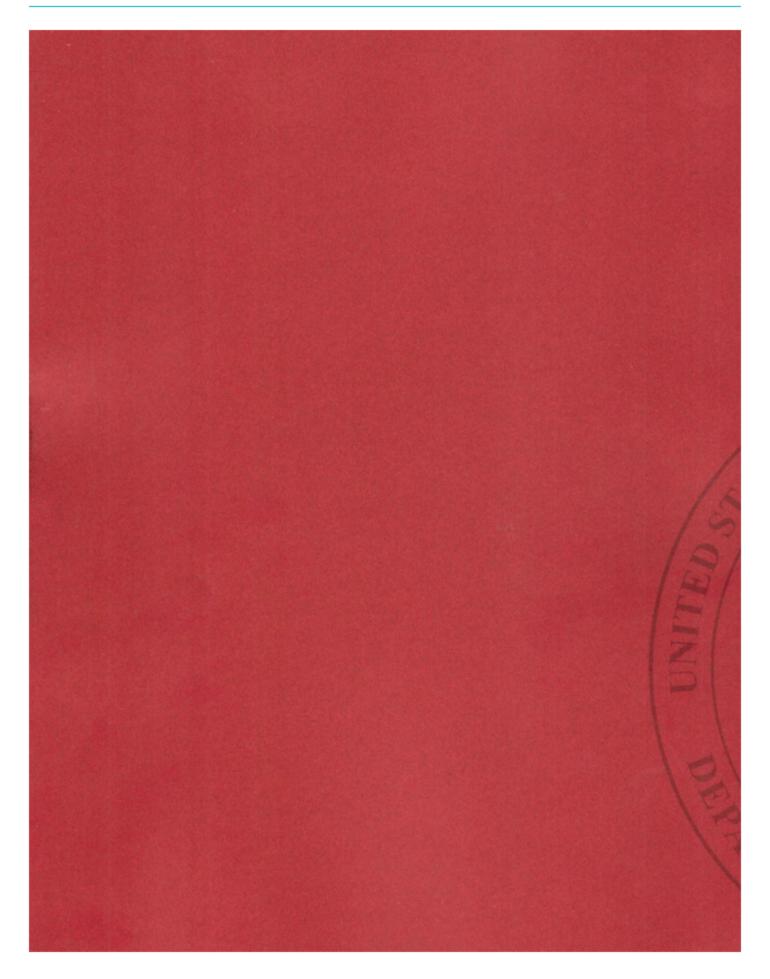
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APPLICATION | FILING or | GRP ART | NUMBER | 371(c) DATE | UNIT | FIL FEE REC'D | ATTY.DOCKET.NO | G3/578,809 | 08/25/2023 | 120 | JZ23-SFP02

TOT CLAIMS IND CLAIMS

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748 CONFIRMATION NO. 4927
FILING RECEIPT

Date Mailed: 09/06/2023

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Applicant(s)

K2 LONGEVITY INC, MONROVIA, CA;

Power of Attorney: JIANMIN ZHOU -68421

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Permission to Access Search Results: Yes

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Non-Publication Request: No Early Publication Request: No \*\* SMALL ENTITY \*\*



#### APPLICATION OF A COMPOSITION FOR REGULATING GUT MICROBIOTA DYSBIOSIS

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

#### PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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FILING or FIL FEE REC'D NUMBER 371(c) DATE UNIT ATTY.DOCKET.NO 08/25/2023 63/578,859 120

TOT CLAIMS IND CLAIMS

JZ23-SFP06

**CONFIRMATION NO. 7804** 

FILING RECEIPT

Date Mailed: 09/06/2023

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748

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Xianghai Kong, MONROVIA, CA;

Applicant(s)

K2 LONGEVITY INC. MONROVIA, CA:

Power of Attorney: JIANMIN ZHOU -68421

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 09/05/2023

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Non-Publication Request: No Early Publication Request: No \*\* SMALL ENTITY \*\*

page 1 of 3



### COMPOSITION FOR REGULATING MACROAUTOPHAGY FOR ANTI-AGING AND THE APPLICATION THEREOF

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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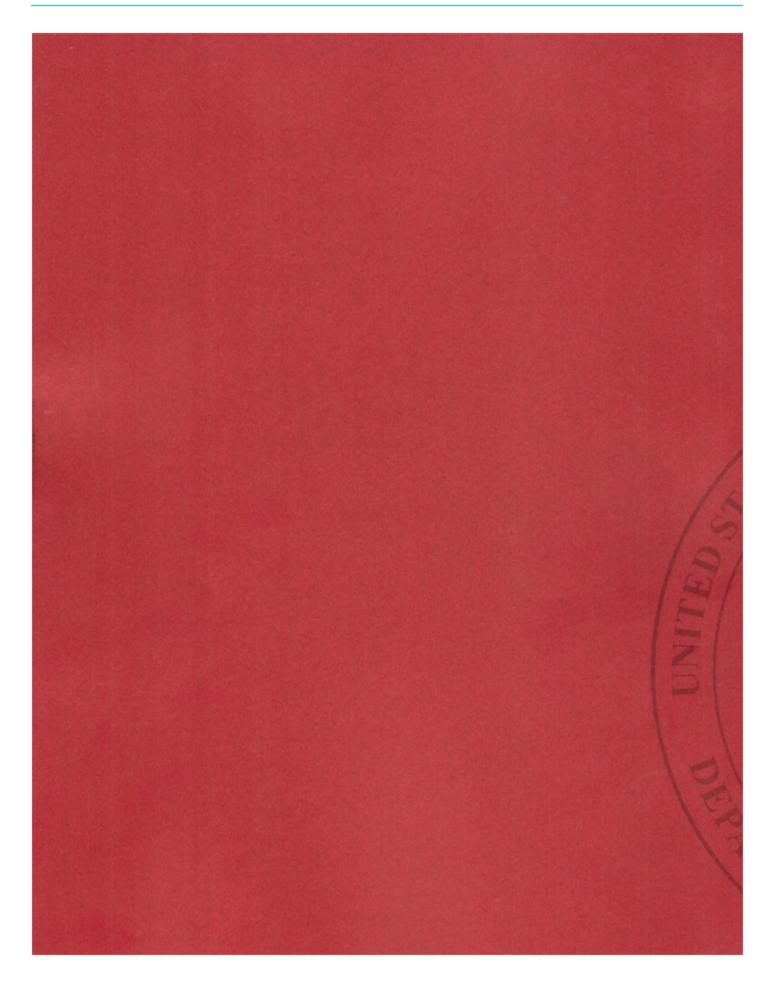
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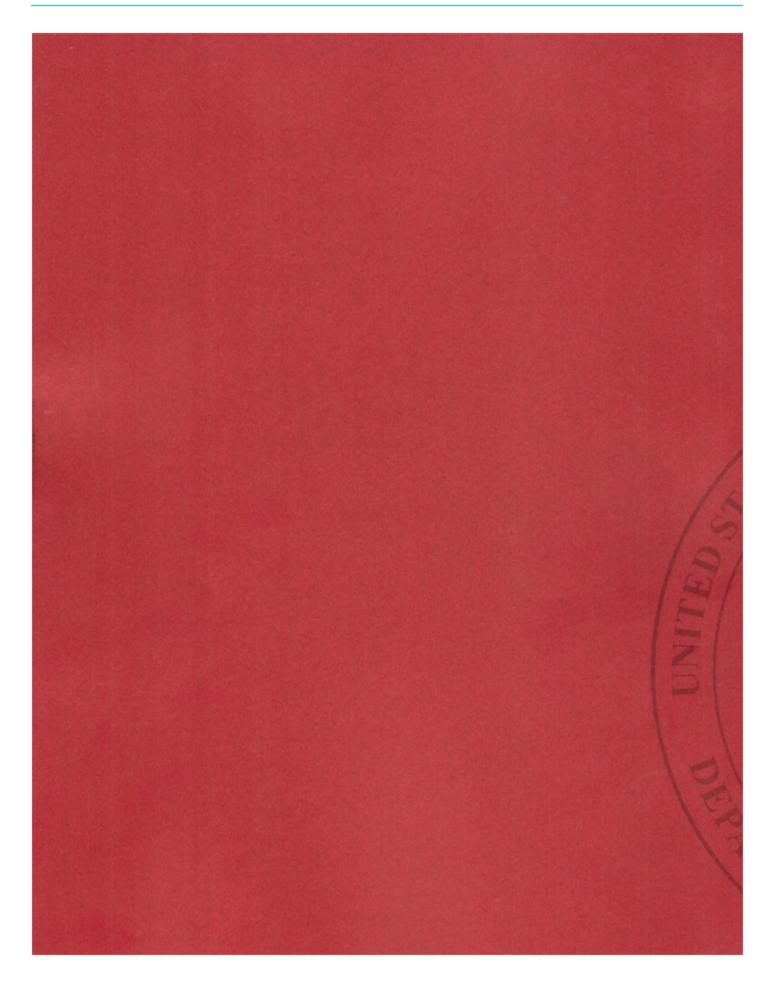
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Alexandria, Virginia 22313-1450

FILING or GRP ART APPLICATION FIL FEE REC'D ATTY.DOCKET.NO TOT CLAIMS IND CLAIMS NUMBER 371(c) DATE UNIT 63/578,819 08/25/2023 120

JZ23-SFP03

**CONFIRMATION NO. 1258** 

FILING RECEIPT

Date Mailed: 09/06/2023

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748

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Power of Attorney: JIANMIN ZHOU -68421

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Non-Publication Request: No Early Publication Request: No

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#### APPLICATION OF A PREPARED ANTI-INFLAMMATORY COMPOSITION

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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#### LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

#### GRANTED

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license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

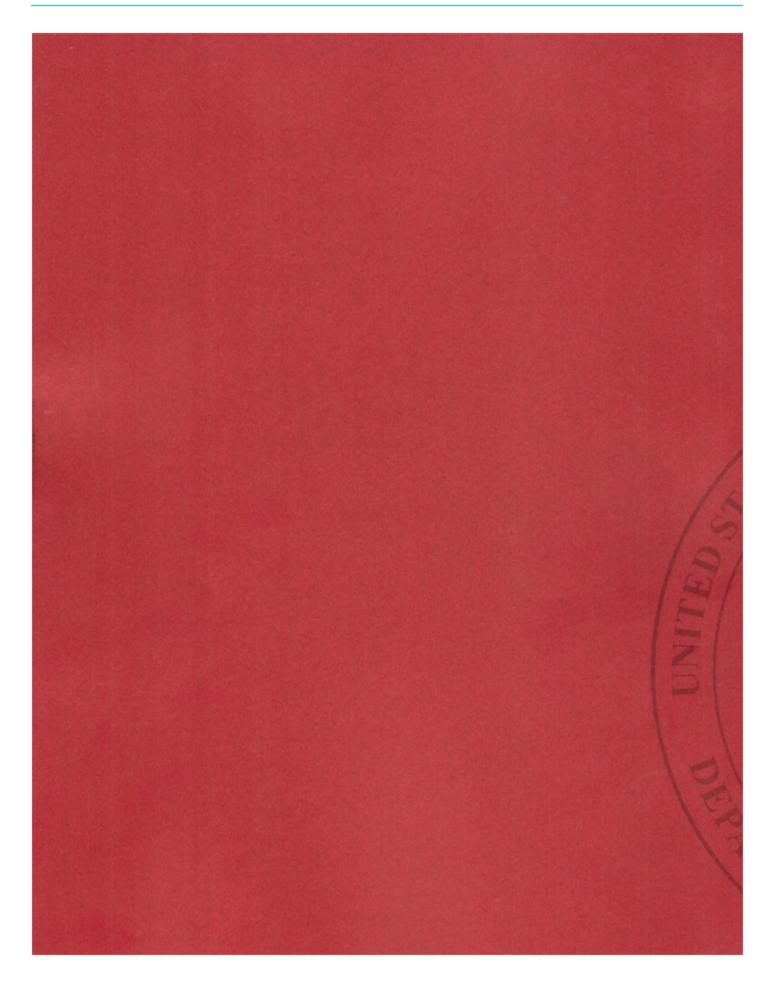
The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

#### NOT GRANTED

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of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

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grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.s.c. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.s.c. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Performing the Functions and Duties of the Under Secretary of Commerce for Intellectual Property and





#### United States Patent and Trademark Office

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FILING or FIL FEE REC'D TOT CLAIMS IND CLAIMS NUMBER 371(c) DATE UNIT ATTY.DOCKET.NO 08/25/2023 63/578,844 120

JZ23-SFP04

**CONFIRMATION NO. 9998** 

FILING RECEIPT



Date Mailed: 09/11/2023

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Xianghai Kong, MONROVIA, CA;

Applicant(s)

K2 LONGEVITY INC. MONROVIA, CA:

Power of Attorney: JIANMIN ZHOU -68421

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 09/07/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 63/578,844

Non-Publication Request: No Early Publication Request: No

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#### APPLICATION OF DNA METHYLATION COMPOSITION

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

#### PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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## Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

#### GRANTED

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license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

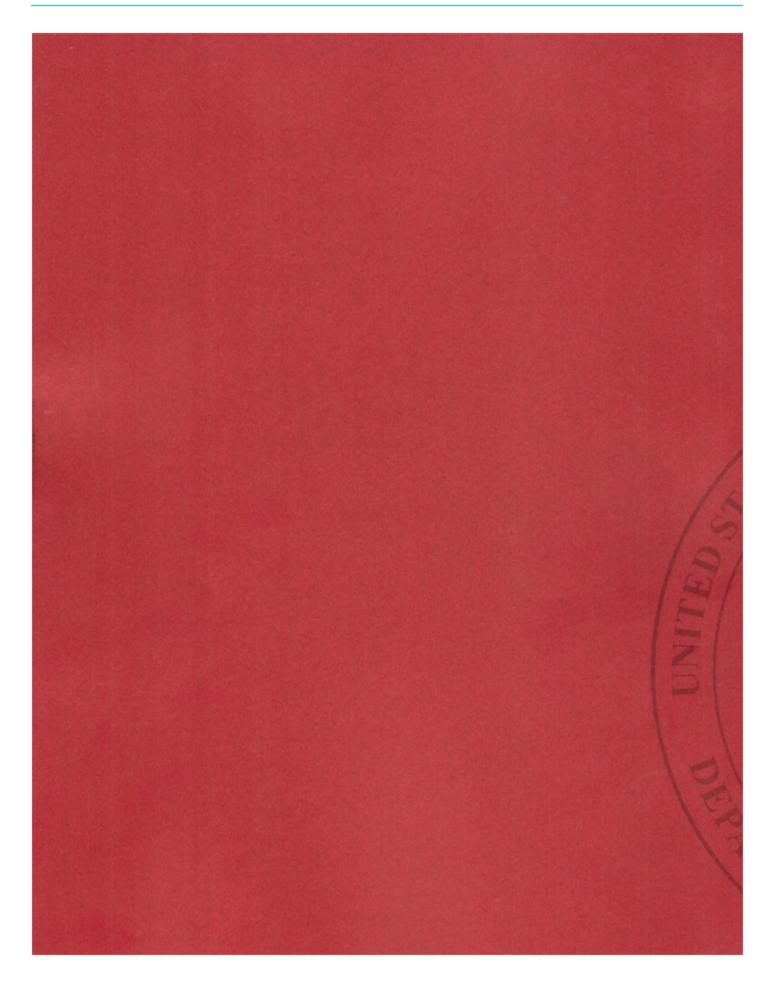
The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

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grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, products made by that process, for the term set forth in 35 U.s.c. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.s.c. 41(b). See the Maintenance Fee Notice on the inside of the cover.

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#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

FILING or FIL FEE REC'D TOT CLAIMS IND CLAIMS NUMBER 371(c) DATE UNIT ATTY.DOCKET.NO 08/25/2023 JZ23-SFP05 120 63/578,853

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748

**CONFIRMATION NO. 7166** FILING RECEIPT

Date Mailed: 09/06/2023

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Xianghai Kong, MONROVIA, CA;

Applicant(s)

K2 LONGEVITY INC. MONROVIA, CA:

Power of Attorney: JIANMIN ZHOU -68421

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 09/05/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 63/578,853

Non-Publication Request: No Early Publication Request: No

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### APPLICATION OF COMPOSITION FOR REGULATING TELOMERASE ACTIVITY AND TELOMERE LENGTH

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

#### PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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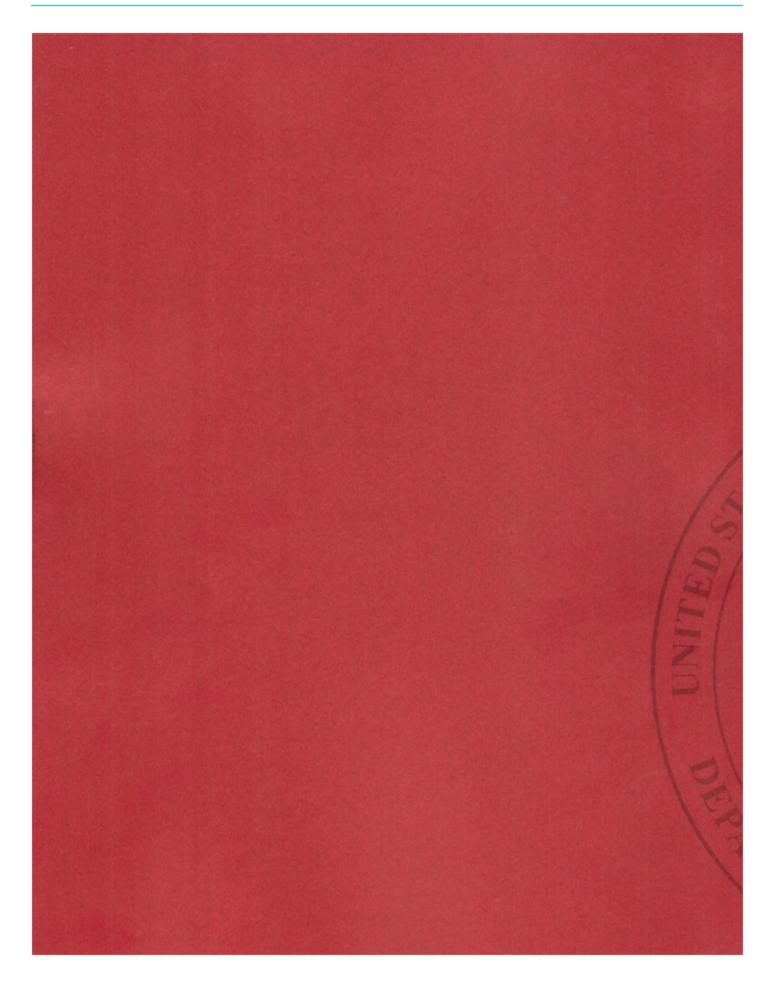
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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

FILING or TOT CLAIMS IND CLAIMS FIL FEE REC'D NUMBER 371(c) DATE UNIT ATTY.DOCKET.NO 08/25/2023 120 63/578,865

JZ23-SFP07

**CONFIRMATION NO. 7650** 

FILING RECEIPT



Date Mailed: 09/07/2023

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748

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Inventor(s)

Xianghai Kong, MONROVIA, CA;

Applicant(s)

K2 LONGEVITY INC. MONROVIA, CA:

Power of Attorney: JIANMIN ZHOU -68421

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 09/05/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 63/578,865** 

Non-Publication Request: No Early Publication Request: No

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#### APPLICATION OF A COMPOSITION FOR STABLE INTERCELLULAR COMMUNICATION

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

#### PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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#### LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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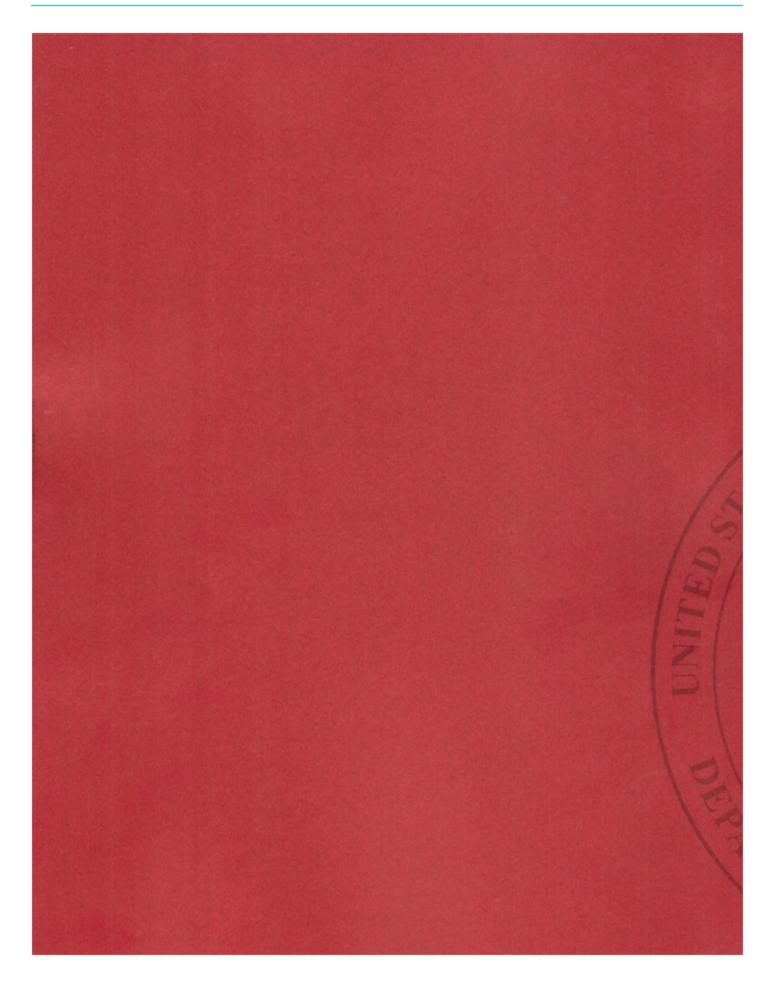
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#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Bex 1450 Alexandria, Virginia 22313-1450 www.impto.gov

FILING or FIL FEE REC'D TOT CLAIMS IND CLAIMS NUMBER 371(c) DATE UNIT ATTY.DOCKET.NO 63/578,868 08/25/2023 120

JZ23-SFP08

122312

Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748

**CONFIRMATION NO. 2439** FILING RECEIPT



Date Mailed: 09/06/2023

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Xianghai Kong, MONROVIA, CA;

Applicant(s)

K2 LONGEVITY INC, MONROVIA, CA;

Power of Attorney: JIANMIN ZHOU -68421

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 09/05/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 63/578,868** 

Non-Publication Request: No Early Publication Request: No

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#### APPLICATION OF CELLULAR APPARENT STABLE COMPOSITION

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

#### PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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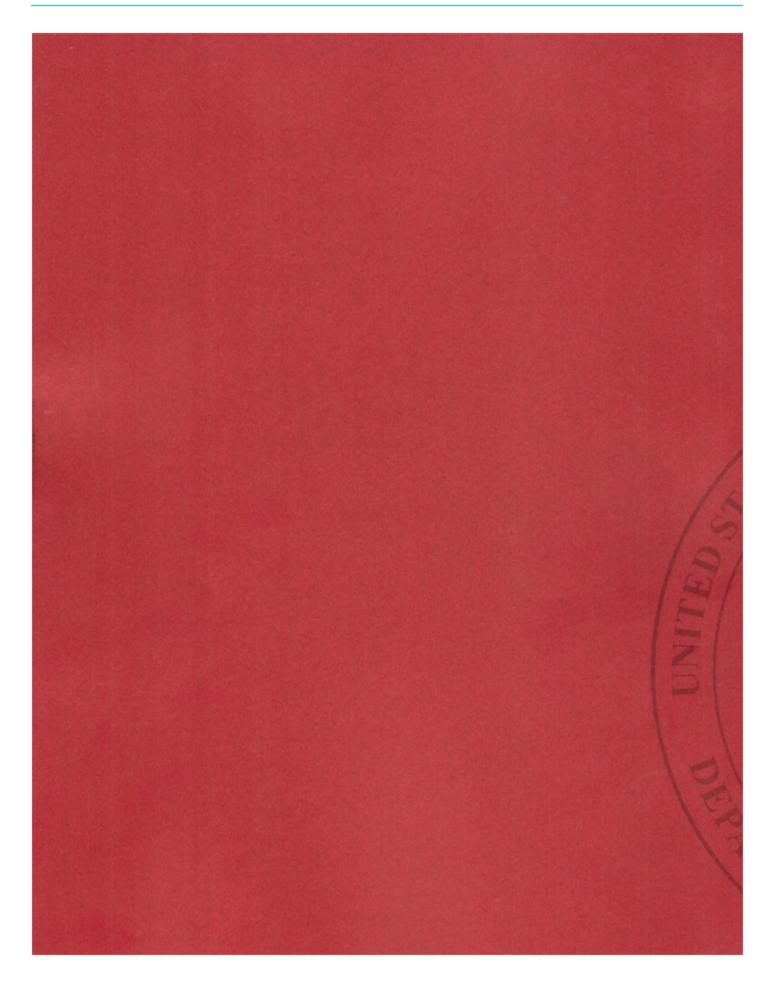
The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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NUMBER 63/578,870

FILING or 371(c) DATE 08/25/2023 GRP ART UNIT

FIL FEE REC'D 120

ATTY.DOCKET.NO

TOT CLAIMS IND CLAIMS

JZ23-SFP09

**CONFIRMATION NO. 6410** 

FILING RECEIPT



Date Mailed: 09/06/2023

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748

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Inventor(s)

Xianghai Kong, MONROVIA, CA;

Applicant(s)

K2 LONGEVITY INC, MONROVIA, CA;

Power of Attorney: JIANMIN ZHOU -68421

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 09/05/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 63/578,870** 

Non-Publication Request: No Early Publication Request: No

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#### APPLICATION OF NMN ANTI-AGING COMPOSITION

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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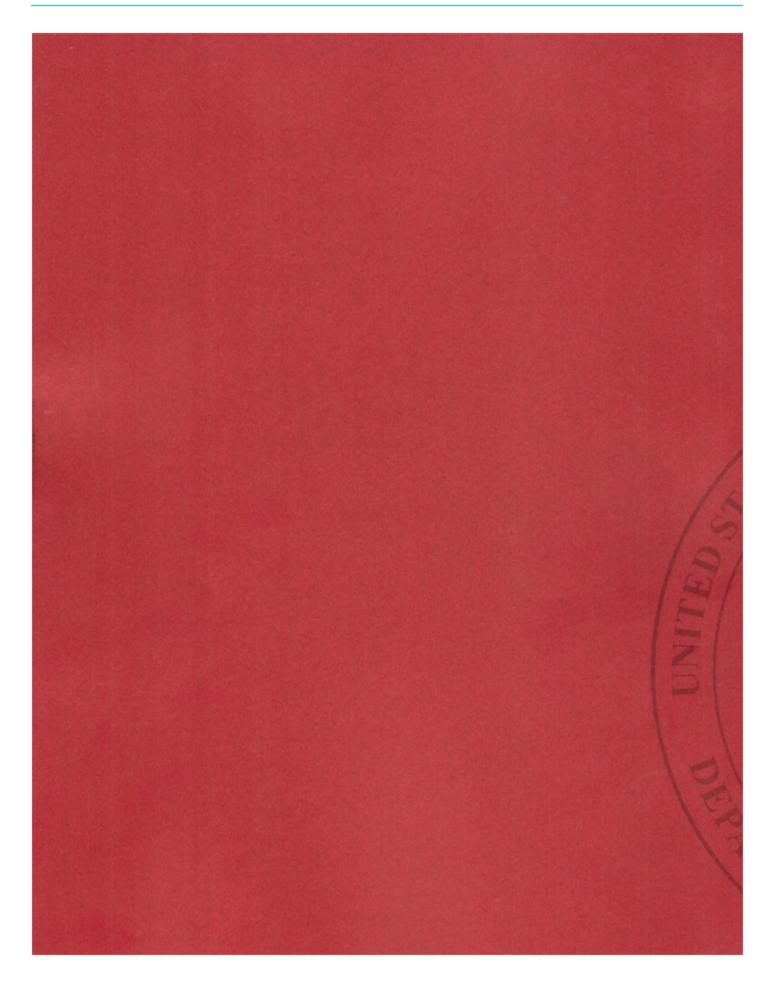
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of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

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FILING or FIL FEE REC'D NUMBER UNIT ATTY.DOCKET.NO 371(c) DATE 120 JZ23-SFP10

TOT CLAIMS IND CLAIMS

63/578,879 08/25/2023

**CONFIRMATION NO. 3720** 

FILING RECEIPT



Date Mailed: 09/06/2023

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Xianghai Kong, MONROVIA, CA;

Applicant(s)

K2 LONGEVITY INC, MONROVIA, CA;

Power of Attorney: JIANMIN ZHOU -68421

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 63/578,879** 

Non-Publication Request: No Early Publication Request: No. \*\* SMALL ENTITY \*\*



### APPLICATION OF A PYRROLOQUINOLINE QUINONE COMPOSITION IN THE ASPECT OF MITOCHONDRIAL DYSFUNCTION

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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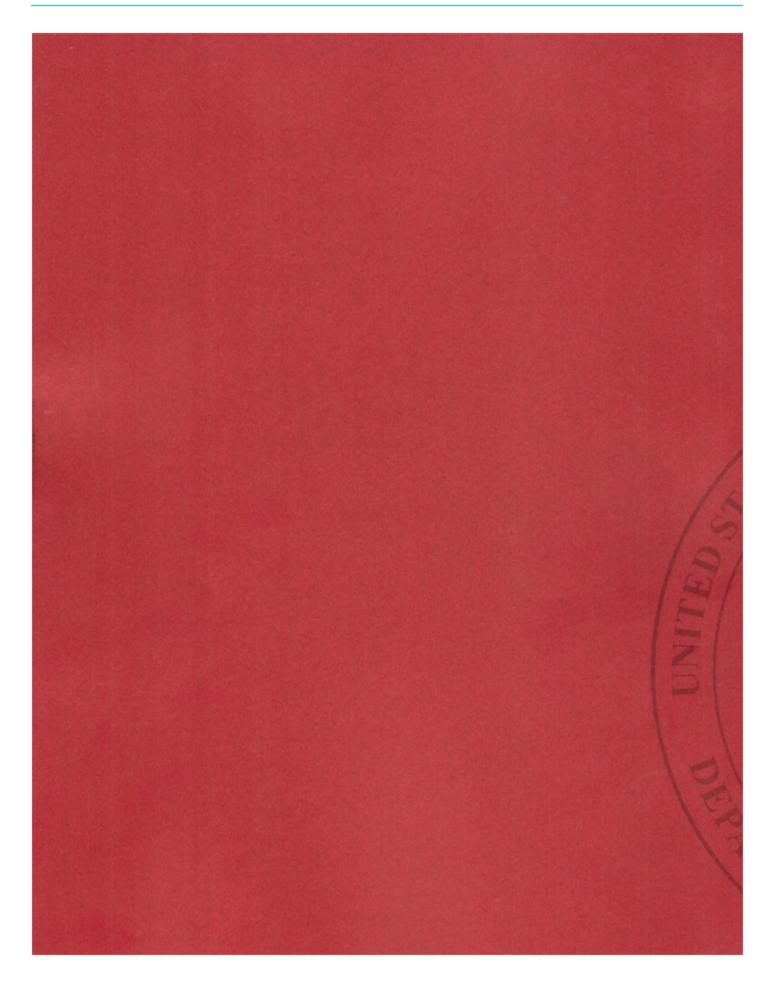
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63/578,882

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FILING or NUMBER 371(c) DATE

GRP ART UNIT 08/25/2023

FIL FEE REC'D 120

ATTY.DOCKET.NO

TOT CLAIMS IND CLAIMS

JZ23-SFP11

CONFIRMATION NO. 5643

FILING RECEIPT



Date Mailed: 09/06/2023

122312 Law Offices of James Zhou 17700 Castleton Street, Ste 568 City of Industry, CA 91748

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Inventor(s)

Xianghai Kong, MONROVIA, CA;

Applicant(s)

K2 LONGEVITY INC, MONROVIA, CA;

Power of Attorney: JIANMIN ZHOU -68421

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Permission to Access Search Results: Yes

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If Required, Foreign Filing License Granted: 09/05/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 63/578,882** 

Non-Publication Request: No Early Publication Request: No

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#### APPLICATION OF NAD+AMPK ANTI-AGING COMPOSITION

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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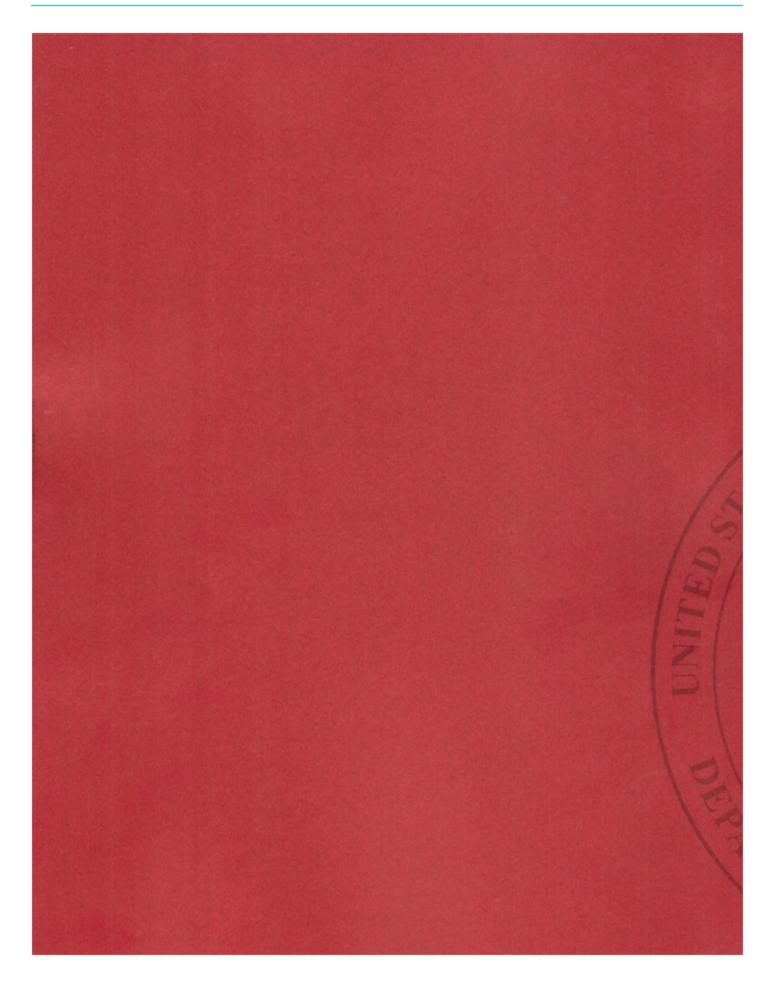
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FILING or FIL FEE REC'D NUMBER 371(c) DATE UNIT ATTY.DOCKET.NO 120

TOT CLAIMS IND CLAIMS

08/25/2023 63/578,886

JZ23-SFP12 **CONFIRMATION NO. 4127** 

FILING RECEIPT

Date Mailed: 09/06/2023

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Applicant(s)

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page 1 of 3



#### COMPOSTION FOR ACTIVATING STEM CELL REGENERATION AND ITS APPLICATION

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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