

ATTORNEY REF		CLIENT REF	
PARIS NUMBER, CC		PARIS FILING DATE	
PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT			SIZE
TITLE			

37 CFR 1.63 OATH OR DECLARATION OF INVENTOR FOR A PATENT APPLICATION AND OPTIONAL 37 CFR 3.1 ASSIGNMENT

As an Inventor, I hereby declare as follows:

I. 37 CFR 1.63(a)(1) - LEGAL NAME OF INVENTOR OR JOINT INVENTOR

My legal name appears next to my signature.

II. 37 CFR 1.63(a)(2) - IDENTIFICATION OF THE APPLICATION TO WHICH THIS DECLARATION IS DIRECTED

This declaration is directed to the application identified above.

APPLICATION IS ATTACHED, IF THE BOX TO THE RIGHT IS CHECKED	
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III. 37 CFR 1.63(a)(3) STATEMENT OF INVENTORSHIP

I believe that I am an original inventor or an original joint inventor of a claimed invention in the application for which this declaration is being submitted.

IV. 37 CFR 1.63(a)(4) STATEMENT OF AUTHORIZATION

The above-identified application was made or authorized to be made by me.

V. 37 CFR 1.63(b) LEGAL NAME, MAILING ADDRESS, RESIDENCE ADDRESS

As an Inventor, I understand that rule 37 CFR 1.63(b) requires that my legal name, mailing address where I customarily receive mail, and also city and United States state or foreign country of my residence address (see MPEP 602.08(a), II. INVENTOR'S RESIDENCE), must be submitted in this application, but do not need to be submitted in this declaration. I have provided accurate information for my legal name, mailing address where I customarily receive mail, and my city and United States state or foreign country of my residence address.

VI. 37 CFR 1.63(c) REVIEW AND ACKNOWLEDGMENT OF 1.56 DUTY

As an Inventor, I have reviewed and I understand the contents of this application, including the claims. I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in the Code of Federal Regulations, Volume 37, rule 1.56.

VII. 37 CFR 1.63(g) ACKNOWLEDGMENT

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As an Inventor, I 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 (5) years, or both. All statements I make in this declaration based upon my own knowledge are true, and all statements I make in this declaration based upon information and belief I believe to be true.

VIII. AUTHORIZATION TO PERMIT ACCESS TO APPLICATION BY PARTICIPATING OFFICES

All Inventors, Applicants, Assignors, and Assignees signing this document grant the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

All Inventors, Applicants, Assignors, and Assignees signing this document grant the USPTO authority to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

IX. POWER TO FURTHER IDENTIFY

All Inventors, Applicants, Assignors, and Assignees signing this document authorize NEIFELD IP LAW to fill in attorney references, the application number, the filing date, and any other information desirable to further identify the application, on the pages of this document, after I sign.

X. CORRESPONDENCE ADDRESS

All Inventors, Applicants, Assignors, and Assignees signing this document request that you direct all correspondence to the address for customer number 31518 for the firm of NEIFELD IP LAW.

XI. ASSIGNMENT

WHEREAS, the assignee or assignees listed below, if any, (hereinafter referred to as "ASSIGNEE") are desirous of acquiring the entire right, title and interest in and to said invention

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identified above and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

WHEREAS, the assignor or assignors listed below (hereinafter referred to as "ASSIGNOR") are desirous of conveying the entire right, title and interest in and to said invention identified above and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, by these presents,

ASSIGNOR, at this time, does sell, assign and transfer unto ASSIGNEE the full and exclusive right to the said invention, which includes any invention disclosed or claimed in any application identified above, including any rights of priority, in the United States and its territorial possessions and in all foreign countries; and the entire right, title and interest in and to any and all Letters Patent which may be granted in the future or were granted in the past therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof which may be granted in the future or were granted in the past; and this transfer includes all rights to prior judgements; and all rights to collect money for and to obtain injunctions based upon past infringement.

ASSIGNOR, at this time, does agree to not contest patentability or validity of any and all Letters Patent which may be granted in the future or were granted in the past therefor in the United States and its territorial possessions and in any and all foreign countries; and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof which may be granted in the future or were granted in the past.

ASSIGNOR hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

Further, as an Inventor, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grants(s) the firm of Neifeld IP Law, P.C. the power to insert on

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this assignment any further identification, including firm reference number, application number, filing date, and execution date, and any other information which 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.

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US CONFIRM CODE		371 COMPLETION DATE	
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XII. INVENTOR/ASSIGNOR LEGAL NAME(S) AND SIGNATURE(S), AND ADDRESSES, OF ALL INVENTORS

FIRST INVENTOR

MY NAME, SIGNATURE, AND THE DATE ARE:

Printed Name	
Signature and Date	

MY MAILING ADDRESS IS:

Street1	
Street2	
City	
State (2 digits)	
Country	
Postal code	

IF THE FOLLOWING ADDRESS FORM IS BLANK, THEN MY RESIDENCE ADDRESS IS THE SAME AS MY MAILING ADDRESS. OTHERWISE, MY RESIDENCE ADDRESS IS:

Street1	
Street2	
City	
State (2 digits)	
Country	
Postal code	

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PCT APP NUMBER		PCT FILING DATE	
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US CONFIRM CODE		371 COMPLETION DATE	
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SECOND AND SUBSEQUENT INVENTORS

MY NAME, SIGNATURE, AND THE DATE ARE:

Printed Name	
Signature and Date	

MY MAILING ADDRESS IS:

Street1	
Street2	
City	
State (2 digits)	
Country	
Postal code	

IF THE FOLLOWING ADDRESS FORM IS BLANK, THEN MY RESIDENCE ADDRESS IS THE SAME AS MY MAILING ADDRESS. OTHERWISE, MY RESIDENCE ADDRESS IS:

Street1	
Street2	
City	
State (2 digits)	
Country	
Postal code	

(For additional inventors, copy this page.)

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US CONFIRM CODE		371 COMPLETION DATE	
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XIII. ASSIGNEE(S), IF ANY, AND THEIR IDENTIFICATION AND SIGNATURE(S)

The assignee or assignees of this application, and their addresses and signatures:

ASSIGNEE NAME:	
Street1:	
Street2:	
City:	
State:	
Country:	
Zip or Postal Code:	
SIGNATURE AND DATE SIGNED	
PRINTED NAME:	
TITLE:	
AVERMENT:	I am authorized to sign on behalf of the assignee.

(For additional assignees, copy this page.)

ATTORNEY REF		CLIENT REF	
PARIS NUMBER, CC		PARIS FILING DATE	
PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT			SIZE
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**37 CFR 1.32 POWER OF ATTORNEY FROM APPLICANT,
APPOINTMENT OF AGENT, AND 37 CFR 1.33 SPECIFICATION OF
CORRESPONDENCE ADDRESS**

I represent the Applicant. The Applicant is the Assignor(s) if Assignor(s) exist. Otherwise, the Applicant is the Inventor(s).

APPOINTMENT OF AGENT: I appoint, as my local agent, to provide instructions on my behalf to Neifeld IP Law, for any and all action to be taken in the United States Patent and Trademark Office:

Local agent named:	
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In the event I replace my local agent with a new agent, I agree to notify Neifeld IP Law of the change and identify the new agent, and instruct Neifeld IP Law to take instructions from that new agent. I have discussed with my local agent my representation by Neifeld IP Law. This discussion included the fees to be charged and the services to be rendered by Neifeld IP Law. My agent confirmed that they would not impose a surcharge on fees for services of Neifeld IP Law, but would bill me for my agent's services and the actual fees billed by Neifeld IP Law.

POWER OF ATTORNEY: I hereby revoke all previous powers of attorney given in this application. I hereby appoint as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application identified above, to be the Patent Practitioner(s) associated with: **Customer Number 31518.**

SPECIFICATION OF CORRESPONDENCE ADDRESS: Please recognize or change the correspondence address for the application identified above to be the address associated with: **Customer Number 31518.**

SIGNATURE of Applicant for Patent

The Applicant is named:	
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The undersigned (whose Title is supplied below) is authorized to act on behalf of the Applicant.

SIGNATURE AND DATE	
NAME	
TITLE	

ATTORNEY REF		CLIENT REF	
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PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
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TITLE			

37 CFR 1.27 ASSERTION OF ENTITLEMENT TO SMALL ENTITY STATUS

The Applicant is a person, a small business concern that has less than 501 employees, or nonprofit organization.

The Applicant and the inventors have not assigned, granted, conveyed, or licensed any rights to the claimed invention to an entity that (1) has more than 500 employees and (2) that is not a non-profit organization (wherein "non-profit organization" means: (A) university or other institution of higher education located in any country; (B) an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1986 (26 U.S.C. 501(c)(3)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 U.S.C. 501(a)); (C) a nonprofit scientific or educational organization qualified under a nonprofit organization statute of a state of this country (35 U.S.C. 201(I); or (D) any nonprofit organization located in a foreign country which would qualify as a nonprofit organization under paragraphs (a)(3)(ii)(B) of this section or (a)(3)(ii)(C) of this section if it were located in this country; see 37 CFR 1.27(a)(3)); or any license is to the Federal Government and excepted pursuant to 37 CFR 1.27(a)(4)).

The applicant is a small entity, and the applicant asserts small entity status for this application or patent.

SIGNATURE of Applicant for Patent

The Applicant is named:	
-------------------------	--

The undersigned (whose Title is supplied below) is authorized to act on behalf of the Applicant.

SIGNATURE AND DATE	
NAME	
TITLE	

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PCT APP NUMBER		PCT FILING DATE	
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TITLE			

MICRO ENTITY STATUS CERTIFICATION (GROSS INCOME BASIS)

The Applicant hereby certifies the following entitlement to Micro Entity Status:

(1) SMALL ENTITY REQUIREMENT – The Applicant qualifies as a small entity as defined in 37 CFR 1.27.

(2) APPLICATION FILING LIMIT – Neither the Applicant nor the inventor nor a joint inventor has been named as the inventor or a joint inventor on more than four previously filed U.S. patent applications, excluding provisional applications and international applications under the Patent Cooperation Treaty (PCT) for which the basic national fee under 37 CFR 1.492(a) was not paid, and also excluding patent applications for which the Applicant has assigned all ownership rights, or is obligated to assign all ownership rights, as a result of the Applicant’s previous employment.

(3) GROSS INCOME LIMIT ON APPLICANTS AND INVENTORS – Neither the Applicant nor the inventor nor a joint inventor, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986 (26 U.S.C. 61(a)), exceeding the “**Maximum Qualifying Gross Income**” reported on the USPTO Web site at <https://www.uspto.gov/patents/laws/micro-entity-status>.

This amount is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census. As of September, 2023, the USPTO reports the **Maximum Qualifying Gross Income** to be **\$223,740**.

(4) GROSS INCOME LIMIT ON PARTIES WITH AN “OWNERSHIP INTEREST” – Neither the Applicant nor the inventor nor a joint inventor has assigned, granted, or conveyed, nor is under an obligation by contract or law to assign, grant, or convey, a license or other ownership interest in the application concerned to an entity that, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986, exceeding the **Maximum Qualifying Gross Income**.

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PARIS NUMBER, CC		PARIS FILING DATE	
PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT			SIZE
TITLE			

Signatures by Applicant and a Registered Practitioner Certifying Entitlement to Micro Entity Status on Gross Income Basis

I am an authorized representative of the Applicant, and I certify that the foregoing statements are true.

Signature and Date	
Typed Name	

I am a registered attorney or agent who is either of record or acting in a representative capacity under 37 CFR 1.34.

Signature	/Richard Neifeld/
Typed name	Richard Neifeld
Registration number	35,299
Date	December 17, 2024

ATTORNEY REF		CLIENT REF	
PARIS NUMBER, CC		PARIS FILING DATE	
PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT			SIZE
TITLE			

MICRO ENTITY STATUS CERTIFICATION (EMPLOYMENT BY AN INSTITUTE OF HIGHER EDUCATION LOCATED WITHIN THE UNITED STATES AND ITS TERRITORIES)

The Applicant hereby certifies the following:

The Applicant qualifies as a small entity as defined in 37 CFR 1.27. The Applicant's employer, from which the Applicant obtains the majority of the Applicant's income, is an institution of higher education as defined in section 101(a) of the Higher Education Act of 1965 (20 U.S.C. 1001(a)).

Signatures by Applicant and a Registered Practitioner Certifying Entitlement to Micro Entity Status on Higher Education Employment Status

I am an authorized representative of the Applicant, and I certify that the foregoing statements are true.

Signature and Date	
Typed Name	

I am a registered attorney or agent who is either of record or acting in a representative capacity under 37 CFR 1.34.

Signature	/Richard Neifeld/
Typed Name	Richard Neifeld
Registration number	35,299
Date	December 17, 2024

ATTORNEY REF		CLIENT REF	
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US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT			SIZE
TITLE			

MICRO ENTITY STATUS CERTIFICATION (ASSIGNMENT OR OBLIGATION TO ASSIGN TO AN INSTITUTION OF HIGHER EDUCATION LOCATED WITHIN THE UNITED STATES AND ITS TERRITORIES)

The Applicant hereby certifies the following:

The Applicant qualifies as a small entity as defined in 37 CFR 1.27. The Applicant has assigned, granted, conveyed, or is under an obligation by contract or law, to assign, grant, or convey, a license or other ownership interest in the particular application to an institution of higher education as defined in section 101(a) of the Higher Education Act of 1965 (20 U.S.C. 1001(a)).

Signatures by Applicant and a Registered Practitioner Certifying Entitlement to Micro Entity Status on Higher Education Assignment Status

I am an authorized representative of the Applicant, and I certify that the foregoing statements are true.

Signature and Date	
Typed Name	

I am a registered attorney or agent who is either of record or acting in a representative capacity under 37 CFR 1.34.

Signature	/Richard Neifeld/
Typed name	Richard Neifeld
Registration number	35,299
Date	December 17, 2024

ATTORNEY REF		CLIENT REF	
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US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT			SIZE
TITLE			

37 CFR 1.97 INFORMATION DISCLOSURE STATEMENT

X An "X" indicates that **no IDS size fee is required**; that less than 51 total items submitted in IDSs during pendency.

 An "X" indicates that an IDS size fee is required; and the appropriate IDS size fee for submission of 51-100; 101-200; or more than 200 items, is or has previously been submitted.

The following references were previously cited in an IDS in this application:

US patents	
US application publications	
Foreign patent documents	
Non patent literature	

The following additional references are newly cited in this IDS:

US patents	
US application publications	
Foreign patent documents	
Non patent literature	

The following reference documents are being filed with this IDS.

US patents	
US application publications	
Foreign patent documents	
Non patent literature	

Please consider the references cited herein.

Truly,

/RichardNeifeld/

Richard Neifeld, Reg. No. 35299

Attorney of Record

ATTORNEY REF		CLIENT REF	
PARIS NUMBER, CC		PARIS FILING DATE	
PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT			SIZE
TITLE			

US ISSUED PATENT DOCUMENTS

Exam. Initials	Cite No. (U)	Document Number	Publication date (MM-DD-YYYY)	Name of Patentee or Applicant Cited in Document	Application and date On which previously cited
	U1				

DATE CONSIDERED:	EXAMINER'S SIGNATURE
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ATTORNEY REF		CLIENT REF	
PARIS NUMBER, CC		PARIS FILING DATE	
PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
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TITLE			

FOREIGN PATENT DOCUMENTS (Copies required unless submitted in an IDS in this application or in an IDS in a prior application to which this application claims 120 benefit)

EXAM. INITIALS	Cite No. (F)	PUBLICATION NUMBER	PUB DATE (MM/DD/YYYY)	COUNTRY OR REGION	PAGE/LINE AND FIGURE/ELEMENT OF RELEVANT MATERIAL	ENGLISH LANGUAGE TRANSLATION ATTACHED? (YES OR NO). IDENTIFICATION OF 120 BENEFIT APPLICATION IN WHICH REFERENCE IS CITED IN AN IDS ("Of Record" indicates that the reference is already of record in this application.)
	F1					

Date:	Examiner's Signature:
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DATE CONSIDERED:	EXAMINER'S SIGNATURE
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ATTORNEY REF		CLIENT REF	
PARIS NUMBER, CC		PARIS FILING DATE	
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APPLICANT			SIZE
TITLE			

NON PATENT LITERATURE DOCUMENTS (Copies required unless submitted in an IDS in this application or in an IDS in a prior application to which this application claims 120 benefit)

Exam. Initials	Cite No. (L)	Citation (Per rule 1.98(b)(5) “ publisher, author (if any), title, relevant pages of the publication, date, and place of publication.”	ENGLISH LANGUAGE TRANSLATION ATTACHED? (YES OR NO). IDENTIFICATION OF 120 BENEFIT APPLICATION IN WHICH REFERENCE IS CITED IN AN IDS (“Of Record” indicates that the reference is already of record in this application.”)

DATE CONSIDERED:	EXAMINER'S INITIALS:
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DATE CONSIDERED:	EXAMINER'S INITIALS:
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US CONFIRM CODE		371 COMPLETION DATE	
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TITLE			

37 CFR 1.76 APPLICATION DATA SHEET

37 CFR 1.76(b)(1)- Legal name, residence, and mailing address of the inventor or each joint inventor.

DATE CONSIDERED:	EXAMINER'S INITIALS:
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ATTORNEY REF		CLIENT REF	
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TITLE			

Inventor 1 - legal name, residence, and mailing address

Legal Name

Inventor Given Name	
Inventor Middle Name	
Inventor Family Name	

Inventor Residence Address

Address 1	
Address 2	
City	
State (2 digit state code for US states)	
Country	
Postal code	

Inventor mailing address

Address 1	
Address 2	
City	
State (2 digit state code for US states)	
Country	
Postal code	

DATE CONSIDERED:	EXAMINER'S INITIALS:
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Inventor 2 - legal name, residence, and mailing address

Legal Name

Inventor Given Name	
Inventor Middle Name	
Inventor Family Name	

Inventor Residence Address

Address 1	
Address 2	
City	
State (2 digit state code for US states)	
Country	
Postal code	

Inventor mailing address

Address 1	
Address 2	
City	
State (2 digit state code for US states)	
Country	
Postal code	

(For additional inventors copy this page and update the "Inventor [#]")

DATE CONSIDERED:	EXAMINER'S INITIALS:
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PCT APP NUMBER		PCT FILING DATE	
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APPLICANT			SIZE
TITLE			

37 CFR 1.76(b)(2) Correspondence information.

Customer Number: 31518

Email address: rneifeld@neifeld.com

37 CFR 1.76(b)(3) Application information.

Title of the Invention	
Attorney Docket number	
Application Type (Provisional, Nonprovisional, Reissue)	
Subject matter (Utility, Plant, Design)	
Total number of drawing sheets	
Suggested drawing figure for publication	
For plant applications, the Latin name of the genus and species of the plant claimed	
For plant applications, the variety denomination	

DATE CONSIDERED:	EXAMINER'S INITIALS:
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PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT		SIZE	
TITLE			

37 CFR 1.76(b)(4) - Representative information.

The attorneys associated with customer number 31518.

37 CFR 1.76(b)(5) - Domestic benefit information.

Application number	Relation to prior application	Prior application number	filed	Filing or 371 date in YYYY-MM-DD format
	is a continuation of		filed	
			filed	
			filed	

Options for Relation to prior application:

is a continuation of

is a division of

is a continuation in part of

is a 371 of international

is a reissue of

claims benefit of provisional

37 CFR 1.76(b)(6) - Foreign priority information.

Application Number	
Country 2 digit code	
Filing Date (YYYY-MM-DD)	
DAS Access Code	

DATE CONSIDERED:	EXAMINER'S INITIALS:
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PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT			SIZE
TITLE			

37 CFR 1.76(b)(6) - Applicant information. Name and Address, only for non inventor applicants

DATE CONSIDERED:	EXAMINER'S INITIALS:
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APPLICANT			SIZE
TITLE			

Non-Inventor Applicant 1

Applicant Name	
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Non-Inventor applicant 1 type, check applicable box

<input type="checkbox"/>	Applicant is an Assignee
<input type="checkbox"/>	Applicant is a person to whom the inventor is obligated to assign
<input type="checkbox"/>	Applicant is a person who shows sufficient proprietary interest

Non-Inventor applicant 1 type, check applicable box and enter name of inventor

<input type="checkbox"/>	Applicant is a legal representative under 35 U.S.C. 117 of a deceased inventor named
<input type="checkbox"/>	Applicant is a legal representative under 35 U.S.C. 117 of legally incapacitated inventor named

Non-Inventor Applicant 1 Mailing Address

Address 1	
Address 2	
City	
State (2 digit state code for US states)	
Country	
Postal code	
Email Address	
Fax Number	

(Copy this page for additional Non-Inventor Applicants)

DATE CONSIDERED:	EXAMINER'S INITIALS:
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ATTORNEY REF		CLIENT REF	
PARIS NUMBER, CC		PARIS FILING DATE	
PCT APP NUMBER		PCT FILING DATE	
US APP NUMBER		US FILING DATE	
US CONFIRM CODE		371 COMPLETION DATE	
APPLICANT			SIZE
TITLE			

/Richard Neifeld/
Richard Neifeld, Reg. No. 35,299
Attorney of record

Date signed: December 17, 2024

Y:\FirmForms\Firms_Patent\US\D_A_P_SE_ME_IDS_ADS.rtf

DATE CONSIDERED:	EXAMINER'S INITIALS:
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