PTO-1390 (10-20)

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|--|---|--|--|--|--|
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | Attorney Docket No. | | | |
| | | U.S. Application No. (if known, see 37 CFR 1.5) | | | |
| International Application No. | International Filing Date | Priority Date Claimed | | | |
| Title of Invention | | | | | |
| First Named Inventor | | | | | |
| Applicant herewith submits to the United St | ates Designated/Elected Office (DO/EO/US) |) the following items and other information. | | | |
| 1. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). NOTE: The express request under 35 U.S.C. 371(f) will not be effective unless the requirements under 35 U.S.C. 371(c)(1), (2), and (4) for payment of the basic national fee, copy of the International Application and English translation thereof (if required), and the oath or declaration of the inventor(s) have been received. | | | | | |
| | a (35 U.S.C. 371(c)(2)) is attached hereto (not inational Bureau or was filed in the United State | | | | |
| 3. An English language translation of the | International Application (35 U.S.C. 371(c)(2) | | | | |
| a. is attached hereto. | | | | | |
| b. has been previously submitted u | | | | | |
| An oath or declaration of the inventor(a. is attached. | s) (35 U.S.C. 37 1(C)(4)) | | | | |
| | | | | | |
| Items 5 to 8 below concern amendments ma | 1 () | | | | |
| PCT Article 19 and 34 amendments | | | | | |
| 5. Amendments to the claims under PCT Article 19 are attached (not required if communicated by the International Bureau) (35 U.S.C. 371(c)(3)). | | | | | |
| 6. English translation of the PCT Article 19 amendment is attached (35 U.S.C. 371(c)(3)). 7. English translation of annexes (Article 19 and/or 34 amendments only) of the International Preliminary Examination Report is | | | | | |
| attached (35 U.S.C. 371(c)(5)). | | | | | |
| Cancellation of amendments made in the interr | | | | | |
| 8a. Do not enter the amendment made in | the international phase under PCT Article 19. | | | | |
| 8b. Do not enter the amendment made in | 8b. Do not enter the amendment made in the international phase under PCT Article 34. | | | | |
| NOTE: A proper amendment made in English under Article 19 or 34 will be entered in the U.S. national phase application absent a clear instruction from applicant not to enter the amendment(s). | | | | | |
| The following items 9 to 17 concern a docur | nent(s) or information included. | | | | |
| 9. An Information Disclosure Statement | under 37 CFR 1.97 and 1.98. | | | | |
| 10. A preliminary amendment. | | | | | |
| 11. An Application Data Sheet under 37 CFR 1.76. | | | | | |
| 12. A substitute specification. NOTE: A substitute specification cannot include claims. See 37 CFR 1.125(b). | | | | | |
| 13. A power of attorney and/or change of address letter. | | | | | |
| 14. A computer-readable form of the sequence listing in accordance with PCT Rule 13 <i>ter</i> .3 and 37 CFR 1.821-1.825 (not required if sequence listing in text format was indicated on the PCT Request as part of the International Application and the sequence listing was published as part of the international application). | | | | | |
| 15. Assignment papers (cover sheet and document(s)). Name of Assignee: | | | | | |
| 16. 37 CFR 3.73(c) Statement (when then | e is an Assignee). | ····· | | | |
| | 14 and 1 401 1 400. The information is required to a | | | | |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| U.S. APPLN. N | o. (if known - | - see 37 CFR 1.5) | INTERNATIONAL | · · · · · · · · · · · · · · · · · · · | | IEY DOCKET No. | |
| 17. Other | items or info | ormation: | | | | | |
| | | | | | | | |
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| | | | | | | | |
| The following | fees have b | een submitted. | | | | | CALCULATIONS |
| | | | | | | | |
| 18. Basic | national fee | (37 CFR 1.492(a)) |) | | | \$320 | \$ |
| 19. Exam | ination fee (| 37 CFR 1.492(c)) | | | | | |
| • I | f the written | opinion prepared b | by ISA/US or the interna | tional pre | liminary examinat | ion report | \$ |
| F | prepared by | PEA/US indicates | all claims satisfy provisi | ions of P | CT Article 33(1)-(4 | •) \$0 | |
| • 4 | All other situa | ations | | | | \$800 | |
| 20. Searc | h fee (37 CF | R 1.492(b)) | | | | | |
| • 1 | f the written | opinion prepared b | by ISA/US or the interna | tional pre | liminary examinat | ion report | \$ |
| r | prepared by | PEA/US indicates | all claims satisfy provisi | ions of P | CT Article 33(1)-(4 | •) \$0 | |
| | | |)) has been paid on the | | | | |
| a | an Internatio | nal Searching Auth | ority | | | \$140 | |
| | | | pared by an ISA other t | | | | |
| | , | | US by the IB | | | | |
| • 4 | All other situa | ations | | | | \$700 | |
| | | | | | TOTAL OF | 18, 19, and 20 = | \$ |
| Additi | onal fee for | specification and d | rawings filed in paper ov | /er 100 s | heets (excludina s | equence listing | |
| in con | npliance with | 37 CFR 1.821(c) | or (e) in an electronic m | edium or | computer program | n listing in an | \$ |
| | |) (37 CFR 1.492(j́) | | | | 0 | |
| Гор fr | r ooob oddi | ional EO abaata of | nonar or fraction therea | ¢ | | ¢ 400 | |
| Fee to | or each addr | | paper or fraction thereo | | | \$420 | |
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| | | | Iound up to a whole hur | nber) | | | |
| - 100 = | / 50 |) = | | | × \$4 | 420 | |
| Surcharge for f | urnishing ar | y of the search fee | e, examination fee, or the | e oath or | declaration after t | he date of | ¢ |
| | | | R 1.492(h)) | | | | \$ |
| CLAIMS | N | UMBER FILED | NUMBER EXTRA | | RATE | | |
| Total claim | IS | - 20 = | | | x \$100 | | \$ |
| Independent c | laims | - 3 = | | x \$480 | | | \$ |
| | | | able) | + \$860 | | \$ | |
| | | | | | | | |
| Fee for submission of Sequence Listing text file of 300 MB to 800 MB (37 CFR 1.21(o)(1)) \$1,060 | | | \$ | | | | |
| | | | ile of more than 800 MB | | | | \$ |
| | | | slation later than 30 mor | | | | \$ |
| TOTAL OF ABOVE CALCULATIONS = | | | \$ | | | | |
| Applicant asserts small entity status. See 37 CFR 1.27. Fees above are reduced by ½. | | | | | | | |
| | | | . See 37 CFR 1.29. Fees a | bove are r | educed by ¾. | | |
| Applicant must attach form PTO/SB/15A or B or equivalent. | | | \$ | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an | | | | \$ | | | |
| appropriate cover sheet (37 CFR 3.28, 3.31) + 50.00 per property + | | | | | | | |
| | | | | | TOTAL FEE | S ENCLOSED = | \$ |

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| a. A check in the amount of \$t | o cover the above fees is enc | losed. | | | |
| b. Please charge my Deposit Account No. | in the amount of \$ | | | to cover the above fees. | |
| c. The Director is hereby authorized to charge additional f | ees which may be required, c | or credit any | overpayme | nt, to Deposit Account | |
| i. any required fee. | | | | | |
| ii. any required fee except for excess claims fees red required under 37 CFR 1.492(f). | uired under 37 CFR 1.492(d) |) and (e) and | d multiple de | ependent claim fee | |
| d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. The PTO-2038 should only be mailed or faxed to the USPTO. However, when paying the basic national fee, the PTO-2038 may NOT be faxed to the USPTO. | | | | | |
| ADVISORY: If filing by EFS-Web, do NOT attach the PTO-2038 form as a PDF along with your EFS-Web submission. Please be advised that this is not recommended and by doing so your credit card information may be displayed via PAIR . To protect your information, it is recommended to pay fees online by using the electronic payment method. | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. | | | | | |
| Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor | to File) Transition Applicati | ons | | | |
| This application (1) claims priority to or the benefit of an application filed before March 16, 2013, and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. | | | | | |
| NOTE 1: By providing this statement under 37 CFR 1.55 or 1.78 | NOTE 1: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be | | | | |
| examined under the first inventor to file provisions of the Al NOTE 2: A U.S. national stage application may not claim priorit | | on of which | it is the nation | onal phase. The filing | |
| date of a U.S. national stage application is the international filing | date. See 35 U.S.C. 363. | | | | |
| Correspondence Address | | | | | |
| The address associated with Customer Number: | OF | R Co | orresponden | ce address below | |
| Name | | | | | |
| Address | | | | | |
| City State | | | Zip Code | | |
| Country | | Telephone | | | |
| Email | | | | | |
| · · · | | | | | |

| Signature | | | Date | | |
|----------------------|--|--------------------------------------|------|--|--|
| Name (Print/Type) | | Registration No. (Attorney/Agent) | | | |

[Page 3 of 3]

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.