This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

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| **INVENTOR(S)** | | | | |
| Given Name (first and middle [if any]) | Family Name or Surname | | Residence  (City and either State or Foreign Country) | |
| Brian James | Rutherford | | Wimberley, Texas USA | |
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| Additional inventors are being named on the separately numbered sheets attached hereto. | | | | |
| **TITLE OF THE INVENTION (500 characters max):** | | | | |
| Quantum-Safe Physical Impossibility Architecture for Cybersecurity Systems | | | | |
| Direct all correspondence to: **CORRESPONDENCE ADDRESS**  ✔ The address corresponding to Customer Number:  210482  **OR** | | | | |
| Firm or  Individual Name | | | | |
| Address | | | | |
| City | | State | | Zip |
| Country | | Telephone | | Email |
| **ENCLOSED APPLICATION PARTS (*check all that apply*)** | | | | |
| * Application Data Sheet. See 37 CFR 1.76. CD(s), Number of CDs   ✔ Drawing(s) *Number of Sheets* Other (specify)  ✔ Specification (e.g., description of the invention) *Number of Pages*  **Fees Due:** Filing Fee of $325 ($130 for small entity) ($65 for micro entity). If the specification and drawings exceed 100 sheets of paper, an application size fee is also due, which is $450 ($180 for small entity) ($90 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). | | | | |
| **METHOD OF PAYMENT OF THE FILING FEE AND APPLICATION SIZE FEE FOR THIS PROVISIONAL APPLICATION FOR PATENT** | | | | |
| Applicant asserts small entity status. See 37 CFR 1.27.  ✔ Applicant certifies micro entity status. See 37 CFR 1.29.  Applicant must attach form PTO/SB/15A or B or equivalent. $65.00  A check or money order made payable to the *Director of the United States Patent*  *and Trademark Office* is enclosed to cover the filing fee and application size fee (if applicable). **TOTAL FEE AMOUNT ($)**  ✔ Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the filing fee and application size fee (if applicable) or credit any overpayment to Deposit Account Number: . | | | | |

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government. (NOTE: Providing this information on a provisional cover sheet, such as this Provisional Application for Patent Cover Sheet (Form PTO/SB/16), does not satisfy the requirement of 35 U.S.C. 202(c)(6), which requires that the *specification* contain a statement specifying that the invention was made with Government support and that the Government has certain rights in the invention.)

✔ No.

Yes, the invention was made by an agency of the U.S. Government. The U.S. Government agency name is:

Yes, the invention was made under a contract with an agency of the U.S. Government.

The contract number is: The U.S. Government agency name is:

In accordance with 35 U.S.C. 202(c)(6) and 37 CFR 401.14(f)(4), the specifications of any United States patent applications and any patent issuing thereon covering the invention, including the enclosed provisional application, must state the following:

‘‘This invention was made with government support under [IDENTIFY THE CONTRACT] awarded by [IDENTIFY THE FEDERAL AGENCY]. The government has certain rights in the invention.”

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application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization

forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

/Brian Rutherford/

08/27/2025

SIGNATURE DATE

TYPED OR PRINTED NAME

# Brian James Rutherford

REGISTRATION NO.

(*if appropriate*)

TELEPHONE

# (512)648-0219

DOCKET NUMBER

RUTHERFORD-021-PROV

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