

## PROVISIONAL APPLICATION FOR PATENT COVER SHEET

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

**Express Mail Label No.:** \_\_\_\_\_ (Optional - for Express Mail filing only)

### INVENTOR(S)

#### Inventor 1:

Given Name: Brian

Middle Name(s): James

Family Name: Rutherford

Suffix:

Residence: City: Wimberley State: TX Country: US

☐ Additional inventors are being named on supplemental sheet(s) PTO/SB/16A attached hereto

### TITLE OF THE INVENTION (500 characters max)

**DELIBERATE ERROR TOLERANCE ARCHITECTURE (DETA) FOR ULTRA-LOW LATENCY QUANTUM-INSPIRED THREAT DETECTION WITH CONTROLLED ACCURACY TRADEOFFS**

### CORRESPONDENCE ADDRESS

☒ Direct all correspondence to: ☐ The address corresponding to Customer Number:  
OR

☒ Individual Name: Brian James Rutherford

Firm Name: Pro Se Inventor

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### APPLICATION ELEMENTS

See 37 CFR 1.51(c) for the items required to be submitted with a provisional application

☒ Specification (Description of the Invention)

Number of pages: 45

☒ Drawing(s)

Number of sheets: 5

☐ Application Data Sheet. See 37 CFR 1.76 (Note: This form is not required for provisional applications)

### THE FILING FEE

#### Entity Status:

☐ Large Entity

☐ Small Entity

☒ Micro Entity (see 37 CFR 1.29)

#### Filing Fee Amount:

\$300

\$150

**\$75**

☒ Applicant certifies micro entity status. Form PTO/SB/15A or PTO/SB/15B is attached.

### METHOD OF PAYMENT OF THE FILING FEE

☒ Online payment via EFS-Web

- ☐ Check or money order is enclosed to cover the filing fee
- ☐ The Director is authorized to charge filing fees to Deposit Account No.: \_\_\_\_\_

**RELATED INVENTION(S)**

The invention was made by an agency of the United States Government or under contract with an agency of the United States Government.

☒ No ☐ Yes, the name of the U.S. Government agency and Government contract number are:

**DOCKET NUMBER (OPTIONAL)**

**RUTHERFORD-016-PROV**

**SIGNATURE**

*A signature of the applicant or representative is required in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for the form of the signature.*

Signature: \_\_\_\_\_  
/Brian James Rutherford/

Date: \_\_\_\_\_

Name (Print/Type): **Brian James Rutherford**

Registration No. (if applicable): **Pro Se**

Title (if applicable): **Inventor**

**WARNING:**

This provisional application will expire 12 months from its filing date. In order to obtain patent protection, a corresponding nonprovisional application must be filed before the expiration of this 12-month period claiming benefit of this provisional application under 35 U.S.C. 119(e).

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the USPTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application to the USPTO.

**Form PTO/SB/16 (Rev 01-25)**