

## 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. \_\_\_\_\_

### INVENTOR(S)

#### Inventor 1

Given Name Brian James Family Name Rutherford  
(first and middle [if any]) or Surname

Suffix (e.g., Jr., Sr., III) \_\_\_\_\_

Residence City Wimberley State TX Country US  
(City and State or Foreign Country)

☐ Additional inventors are being named on the \_\_\_\_\_ separately numbered sheets 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

☐ The address corresponding to Customer Number: \_\_\_\_\_

OR

☒ Correspondence address below

Name Brian James Rutherford  
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### APPLICATION ELEMENTS

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

Any application element filed in a language other than English requires a translation and statement pursuant to 37 CFR 1.52(d).

☒ 1. **Specification** Number of Pages 45

☒ 2. **Drawing(s)** Number of Sheets 5

☐ 3. **Application Data Sheet. See 37 CFR 1.76**

### THE FILING FEE AND CERTIFICATION (if applicable)

**Applicant asserts small entity status. See 37 CFR 1.27.**

☐ **SMALL ENTITY FEE** \$150

☐ Applicant certifies small entity status. See 37 CFR 1.27.

Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

**Applicant asserts micro entity status. See 37 CFR 1.29.**

☒ **MICRO ENTITY FEE** \$75

☒ Applicant certifies micro entity status. See 37 CFR 1.29.

Form PTO/SB/15A or B must be enclosed.

☐ **LARGE ENTITY FEE** \$300

### METHOD OF PAYMENT OF THE FILING FEE FOR THIS PROVISIONAL APPLICATION

☐ Applicant is providing a check or money order to cover the filing fee.

☒ Payment via EFS-Web.

☐ The Director is authorized to charge the filing fee or credit any overpayment to  
Deposit Account No.: \_\_\_\_\_

**USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT**

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

☒ No

☐ Yes, the name of the U.S. Government agency and Government contract number are:

**SIGNATURE**

**Signature:** \_\_\_\_\_

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

/Brian James Rutherford/

**Typed or printed name:** Brian James Rutherford

**Registration No.:** Pro Se

**WARNING:** This provisional application will become abandoned twelve (12) months from the filing date of this provisional application. In order to avoid abandonment of this provisional application and to claim the benefit of the filing date of this provisional application in a corresponding nonprovisional application filed under 35 U.S.C. 111(a) or to enter the national stage from an international application under 35 U.S.C. 371, the corresponding nonprovisional application must be filed during the 12-month period of the pendency of this provisional application and must contain a specific reference to this provisional application. See 35 U.S.C. 119(e) and 37 CFR 1.78.

This collection of information is required by 37 CFR 1.51. 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 8 hours 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.