

CERTIFICATION OF MICRO ENTITY STATUS

(Gross Income Basis)

Application Number (if known): _____**Filing Date:** _____**First Named Inventor:** Brian James Rutherford**Title:** DELIBERATE ERROR TOLERANCE ARCHITECTURE (DETA) FOR ULTRA-LOW LATENCY QUANTUM-INSPIRED THREAT DETECTION WITH CONTROLLED ACCURACY TRADEOFFS**Docket Number:** RUTHERFORD-016-PROV**CERTIFICATION OF ENTITLEMENT TO MICRO ENTITY STATUS**

I hereby certify that:

- (1) ☒ The applicant qualifies as a small entity as defined in 37 CFR 1.27.
- (2) ☒ 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 patent applications, excluding:
- (i) provisional applications under 35 U.S.C. 111(b);
 - (ii) international applications filed under the Patent Cooperation Treaty for which the basic national fee under 35 U.S.C. 41(a) was not paid;
 - (iii) applications resulting from prior employment if the applicant has assigned or is obligated to assign all ownership rights as a result of previous employment.
- (3) ☒ 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, exceeding three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census.
- (For 2025, the income limit is \$223,740 based on 2024 income)
- (4) ☒ 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 exceeding three times the median household income.

WARNING:

False statements on this certification may jeopardize the validity of the application or any patent issuing thereon. The facts set forth in this certification are subject to examination and verification.

NOTICE

37 CFR 1.29(d) provides that a notification of a loss of entitlement to micro entity status must be filed in the application or patent prior to or at the time a fee is paid in other than the micro entity amount.

37 CFR 1.33(b) provides that a certification and signature of the micro entity is required for a micro entity certification.

False assertion of micro entity status is considered a fraud practiced or attempted on the Office.

SIGNATURE OF APPLICANT

I acknowledge that any willful false statement made in this certification is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature of Applicant

Date

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