PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LOCKHEED MARTIN ENERGY RESEARCH CORPORATION	04/18/2001

RECEIVING PARTY DATA

Name:	UT-BATTELLE, LLC
Street Address:	ONE BETHEL VALLEY ROAD
Internal Address:	4500N, MS-6258
City:	OAK RIDGE
State/Country:	TENNESSEE
Postal Code:	37831-6258

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6062261

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: ejasinska@lsk-iplaw.com

Correspondent Name: LEMPIA SUMMERFIELD KATZ LLC

Address Line 1: 20 SOUTH CLARK STREET

Address Line 2: SUITE 600

Address Line 4: CHICAGO, ILLINOIS 60603

NAME OF SUBMITTER:JAMES A. COLLINSSIGNATURE:/James A. Collins/DATE SIGNED:03/15/2021

Total Attachments: 2

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PATENT 506554627 REEL: 055595 FRAME: 0015

ASSIGNMENT OF SUBJECT INVENTIONS, U.S. AND FOREIGN PATENT APPLICATIONS AND ISSUED FOREIGN PATENTS OF SUBJECT INVENTIONS

WHEREAS, LOCKHEED MARTIN ENERGY RESEARCH CORPORATION, a corporation of the State of Delaware, having an office at Post Office Box 2008, Oak Ridge, Tennessee 37831-8243 (hereinafter referred to as "LMER"), has acquired by assignment from employees of LMER and/or Lockheed Martin Energy Systems, Inc. (hereinafter referred to as "LMES") the undivided right, title, and interest of Subject Inventions, United States and foreign patent applications of Subject Inventions and United States and foreign patents of Subject Inventions of sole or joint inventor employees of OAK RIDGE NATIONAL LABORATORY (hereinafter referred to as "ORNL") managed by LMER or LMES at the time said inventor employees conceived or reduced to practice said Subject Inventions under Prime Contract Nos. DE-AC05-96OR22464 and/or DE-AC05-84OR21400 with the United States Department of Energy;

WHEREAS, LMER has been replaced effective April 1, 2000 by a successor contractor, UT-BATTELLE, LLC (hereinafter "UT-Battelle"), a limited liability company organized under the laws of the State of Tennessee, having an office at 111-B Union Valley Road, Oak Ridge, Tennessee 37831-6498, which shall manage ORNL under its Prime Contract No. DE-AC05-00OR22725 with the United States Department of Energy;

WHEREAS, LMER is obligated under its aforesaid Prime Contract to transfer title to UT-Battelle, as one package, to the extent LMER has retained title, in all said Subject Inventions, said U.S. and foreign patent applications of said Subject Inventions and all said U.S. and foreign patents of said Subject Inventions, all of the foregoing listed in the attached Appendix A (U.S. Subject Inventions, Patent Applications and Issued Patents) and Appendix B (Foreign Patent Applications and Issued Patents).

WHEREAS, LMER, pursuant to its said aforementioned Prime Contract, wishes to assign to UT-Battelle (hereinafter "ASSIGNEE") the aforesaid undivided right, title and interest of said Subject Inventions, said U.S. and foreign patent applications of said Subject Inventions and said U.S. and foreign patents of said Subject Inventions; and

NOW, THEREFORE, in accordance with Prime Contract No. DE-AC05-96OR22464 between LMER and the U.S. Department of Energy, LMER hereby assigns to ASSIGNEE said undivided right, title and interest in said Subject Inventions, all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, any Letters Patent and/or patent applications on said Subject Inventions that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent and/or patent applications that are divisions, reissues, continuations, renewals, substitutions, reexaminations, or extensions of any Letters Patent or applications therefor on said Subject Inventions.

Further, LMER hereby agrees: (1) to communicate to said ASSIGNEE or its representatives any facts known to it respecting said Subject Inventions, said patent applications of said Subject Inventions and said patents of said Subject Inventions; (2) to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal, reexamination, extension and reissue applications therefor; (3) to execute all necessary assignment papers causing any and all of said patent applications to be issued to said ASSIGNEE and any and all of said Letters Patent to be transferred to said ASSIGNEE; and (4) to make all rightful oaths and

generally do everything possible enabling said ASSIGNEE and its representatives to obtain and enforce proper protection for said Subject Inventions, said patent applications of said Subject Inventions and said patents of said Subject Inventions in the United States of America and in any and all foreign countries.

LMER further agrees that the terms, covenants and conditions of this Assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on it, its heirs, legal representatives, assigns and successors in interest.

Assignor: LUCKHEED MARIN ENERGY F	RESEARCH CORPORATION
Ву:	
Title: President	
Date: 12, 2001	
State of NEW TERSEY	
County of CAMDEN	
On this / 2 day of APP/2, 2001, be appeared _ W. C. HAIGHT subscribed to the foregoing instrument, and acknowled act and for the uses and purposes therein express WITNESS my hand and seal the day and	fore me a Notary Public in and for the County and State aforesald to me personally known to be the same person whose name is owledges that he executed said Instrument as his free and voluntary sed. If year last above given.
[SEAL]	Notary Public My Commission expires: 2/16/05
Assignee: UT-BATTELLE, LLC By:	BARBARA A. SPINA Notary Public State of New Jersey County of Camden Commission Expires Feb. 16, 2006
Title: General Patent Counsel	
Date: 4-18-01	
State of Tennessee)	
County of Anderson	
appeared Oppide F. Claid to the personally known	ore me a Notary Public in and for the County and State aforesaid, to be the same person whose name is subscribed to the foregoing aid instrument as his free and voluntary act and for the uses and year last above given.
[SEAL]	Notary Public Notary Public Ammission expires: 3-2-02