

Abstract of Patent Application(s)

Methods for manufacture and preventive maintenance of material solid objects which are potentially-susceptible to cracking and crack-induced-fracture. For manufacturing, embodiments of the invention optimize design of the material solid object to minimize the occurrence and growth of cracking; and for maintenance, embodiments of the invention predict the timing and location of future growth of an existing cracking in the material solid object. A Finite Element Model is constructed and analyzed, wherein an advanced extended Finite Element Model features twin nodes and element twinning to allow arbitrary interacting cracks to be efficiently modeled and analyzed for crack growth.

Intellectual Property

U.S. Application No. 63/745,757, filed on January 15, 2025, and entitled *Solid Object Processing with Advanced Crack Modeling*.

The Department of the Air Force may grant the prospective license unless a timely objection is received that sufficiently shows the grant of the license would be inconsistent with the Bayh-Dole Act or implementing regulations. A competing application for a patent license agreement, completed in compliance with 37 CFR 404.8 and received by the Air Force within the period for timely objections, will be treated as an objection and may be considered as an alternative to the proposed license.

(Authority: 35 U.S.C. 209; 37 CFR 404.)

Crystle C. Poge,

Air Force Federal Register Liaison Officer.

[FR Doc. 2026-08598 Filed 5-1-26; 8:45 am]

BILLING CODE 3911-44-P

DEPARTMENT OF DEFENSE**Department of the Air Force****Notice of Intent To Grant a Partially Exclusive Patent License**

AGENCY: Department of the Air Force, Department of Defense.

ACTION: Notice of intent.

SUMMARY: Pursuant to the Bayh-Dole Act and implementing regulations, the Department of the Air Force hereby gives notice of its intent to grant a partially exclusive (the field to include means turbomachinery applications and turbomachinery systems where the invention is on the component with radial air flow) patent license to Hyphen Innovations, LLC having a place of

business at 4231 Pennywood Drive, Beavercreek, OH 45430.

DATES: Written objections must be filed no later than fifteen (15) calendar days after the date of publication of this Notice.

ADDRESSES: Submit objections to Joshua Laravie, AFRL/RQSP, 2210 8th Street, Wright Patterson AFB, OH 45433; Phone: 385-634-7128; or Email: JoshuaLaravie@us.af.mil. Include Docket No. 26-0006364-AFRL/RQ in the subject line of the message.

FOR FURTHER INFORMATION CONTACT: Joshua Laravie, AFRL/RQSP, 2210 8th Street, Wright Patterson AFB, OH 45433; Phone: 385-634-7128; or Email: JoshuaLaravie@us.af.mil.

SUPPLEMENTARY INFORMATION:**Abstract of Patent Application(s)**

A power producing apparatus includes a stator portion having a stator ring disposed proximate a housing of a turbine engine. The stator portion further includes a plurality of coils. A rotor portion includes a rotor ring having a plurality of permanent magnets disposed coaxial to the plurality of coils, and the permanent magnets are oriented with alternating polarity. Individual or a plurality of coils are configured to be selectively moved axially with respect to the rotor ring.

Intellectual Property

U.S. Patent No. 10,897,182, issued on January 19, 2021, and entitled *Integrated, Variable Flux Path Electrical Generator for Turbine Engines*.

The Department of the Air Force may grant the prospective license unless a timely objection is received that sufficiently shows the grant of the license would be inconsistent with the Bayh-Dole Act or implementing regulations. A competing application for a patent license agreement, completed in compliance with 37 CFR 404.8 and received by the Air Force within the period for timely objections, will be treated as an objection and may be considered as an alternative to the proposed license.

(Authority: 35 U.S.C. 209; 37 CFR 404.)

Crystle C. Poge,

Air Force Federal Register Liaison Officer.

[FR Doc. 2026-08601 Filed 5-1-26; 8:45 am]

BILLING CODE 3911-44-P

DEPARTMENT OF DEFENSE**Department of the Air Force**

[Docket No. PRS-284]

Notice of Intent To Grant an Exclusive Patent License

AGENCY: Department of the Air Force, Department of Defense.

ACTION: Notice of intent.

SUMMARY: Pursuant to the Bayh-Dole Act and implementing regulations, the Department of the Air Force hereby gives notice of its intent to grant an exclusive patent license to DarkPulse, a C Corporation, 3 Columbus Circle, Floor 15, New York, NY 10019.

DATES: Written objections must be filed no later than fifteen (15) calendar days after the date of publication of this Notice.

ADDRESSES: Submit written objections to Sara Telano, AFRL/RDOX, Technology Transfer Office, 3550 Aberdeen Avenue, Kirtland AFB, New Mexico 87117-5776; Telephone: 645-229-0089; Email: sara.telano@us.af.mil. Include Docket No. PRS-284 in the subject line of the message.

FOR FURTHER INFORMATION CONTACT: Melissa Ortiz, AFRL/RDOX, Technology Transfer Office, 3550 Aberdeen Avenue, Kirtland AFB, New Mexico 87117-5776; Telephone: 505-288-0475; Email: melissa.ortiz.1.ctr@us.af.mil.

SUPPLEMENTARY INFORMATION:**Abstract of Patent Application**

In accordance with various embodiments of the disclosed subject matter, a system and method is configured for scheduling and invoking power sharing among satellites within a constellation of satellites such that energy storage systems at a target satellite may be charged prior to the use of electric propulsion thrust activation or other high electricity demand operations (or such operations contemporaneously augmented) by power beams transmitted from other (source) satellites within the constellation.

Intellectual Property

U.S. Patent No. 11,760,509, issued on September 19, 2023 and entitled "System and method improving satellite capability through power sharing".

The Department of the Air Force may grant the prospective license unless a timely objection is received that sufficiently shows the grant of the license would be inconsistent with the Bayh-Dole Act or implementing regulations. A competing application for