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10-02-1998



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Charles W. Haldeman and Brian S. Ahern

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Quantum Energy Technologies

Corporation

Internal Address: _____

Street Address: 238 Main Street, Suite 201

City: Cambridge State: MA ZIP: 02142

Additional name(s) & address(es) attached? ☐ Yes ☐ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____

Execution Date: _____

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/105,734

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Sam Pasternack

Internal Address: _____

Street Address: 53 State Street

City: Boston State: MA ZIP: 02109

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

03-1721

(Attach duplicate copy of this page if paying by deposit account)

10/15/1998 TT011 00000069 09105734

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Sam Pasternack

Name of Person Signing

Signature

3

Date

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to: PATENT
Commissioner of Patents & Trademarks, Box 4000, Washington, DC 20540

REEL: 9480 FRAME: 0576

ASSIGNMENT

WHEREAS, We, **Charles W. Haldeman** of Concord, Massachusetts; **Brian S. Ahern** of Boxboro, Massachusetts; having invented certain new and useful improvements in **ENGINE SYSTEM EMPLOYING AN UNSYMMETRICAL CYCLE** for which We have made application for United States Letters Patent, the said application filed on June 26, 1998, 1998 as U.S. Serial No. 09/105,734; and

WHEREAS, QUANTUM ENERGY TECHNOLOGIES CORPORATION located at 238 Main Street, Suite 201, Cambridge, Massachusetts, and its successors and assigns (collectively hereinafter called "the Assignee"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledge, we do hereby sell assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may granted therefore, and all divisions, reissues, substitutions, continuations; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representative, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this _____ day of _____, 19____.

Charles W. Haldeman
Charles W. Haldeman

STATE OF Massachusetts.
COUNTY OF Middlesex. SS.

Before me this 20th day of Aug, 19 98, personally appeared
Charles W. Haldeman known to me to be the person whose name of subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and
deed for the purposes therein contained.

NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

Jim C. Park
NOTARY PUBLIC
My commission expires Nov. 12, 2004

IN WITNESS WHEREOF, I hereto set my hand and seal at _____,
this 23 day of September, 19 98.

Brian S. Ahern
Brian S. Ahern

STATE OF MASS.
COUNTY OF Middlesex. SS.

Before me this 23 day of Sept, 19 98, personally appeared
Brian S. Ahern known to me to be the person whose name of subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and
deed for the purposes therein contained.

NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

My commission expires Feb. 7, 2003