

05-30-2002

HEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office



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

1. Name of conveying party(ies):

Derek A. TIDMAN
Mark L. KREGEL

5-23-02

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: April 30 & May 2, 2002

2. Name and address of receiving party(ies):

Name: ADVANCED LAUNCH CORPORATION

Internal Address: _____

Street Address: 6801 BENJAMIN STREETCity: MCLEAN State: VA ZIP: 22101Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

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

A. Patent Application No.(s)

B. Patent No.(s)

10/091,025

MARCH 6, 2002

Additional numbers attached? ☐ Yes ☒ No

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

Name: MICHAEL D. BEDNAREKInternal Address: SHAW PITTMAN LLP6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41):.....\$ 40.00☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

8. Deposit account number:

50-1390

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

05/21/2002 DATE: 04020000 10091025

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40.00 00

City: MCLEANState: VA ZIP: 22102

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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.

MICHAEL D. BEDNAREK #32,329

MAY 23, 2002

Name of Person Signing

Signature

7

Date

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

ASSIGNMENT

WHEREAS, Mark L. Kregel, residing at 1403 Ronson Court, Aberdeen, Maryland 21001, (hereinafter "Assignor") has invented certain new and useful improvements in

SPIRAL MASS LAUNCHER

for a full description of which, reference is here made to an application for Letters Patent of the United States of America

☐ Executed concurrently herewith

☐ Executed on

☒ Serial. No. **10/091,025**, filed **March 6, 2002**

in the U.S. Patent and Trademark Office and to U.S. provisional patent application(s)

☒ Serial. No. **60/273,640**, filed **March 7, 2001**

in the U.S. Patent and Trademark Office; and

WHEREAS, Advanced Launch Corporation a corporation of the State of Virginia, having its principal office and place of business at 6801 Benjamin Street, McLean, Virginia 22101 (hereinafter "Assignee") is desirous of acquiring the entire right, title, and interest in, to, and under said invention and application above identified, and in, to, and under any Letters Patent that may be obtained for said invention, together with all foreign rights corresponding thereto, as hereinafter more fully set forth.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable and legally sufficient consideration, the receipt of which by Assignor from Assignee is hereby acknowledged, Assignor has agreed to sell, assign, and transfer and by these presents does hereby, sell, assign, and transfer unto Assignee the entire right, title and interest in, to, and under said invention and application above

identified and Letters Patent of the United States of America that may be obtained in respect thereof; any corresponding applications for Letters Patent and Letters Patent therefor in all other areas of the world; and any reissues, extensions, substitutions, confirmations, divisions, and continuations of any of the foregoing (hereinafter "Invention Rights"), to have and to hold for the sole and exclusive use and benefit of Assignee forever.

Assignor hereby covenants and agrees, for himself and for his respective legal representatives, to assist and cooperate with Assignee in the preparation and prosecution of any applications included within the Invention Rights and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any applications or Letters Patent included within the Invention Rights and further to execute and deliver to Assignee any and all additional papers that may be requested by Assignee for the purpose of implementing the terms of this ASSIGNMENT.

Assignor hereby authorizes and empowers Assignee to invoke and claim for any applications or Letters Patent included within the Invention Rights the benefit of any rights to which Assignor might be entitled under international law or under the laws of any particular country (such as, without limitation, the right of priority provided by the International Convention for the Protection of Industrial Property, as amended) and to invoke and claim said rights without further written or oral authorization from Assignor.

Assignor hereby consents that a copy of this ASSIGNMENT shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document that may be required in any particular country for any purpose and more particularly in proof of the right of Assignee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended.

Assignor covenants and agrees that this ASSIGNMENT and all of the terms hereof shall inure to the benefit of the successors, assigns, legal representatives, or nominees of Assignee, without further written or oral authorization from Assignor.

Assignor hereby authorizes and requests Assignee to fill in the following blanks specifying the United States Serial No. and filing date for said application above identified:

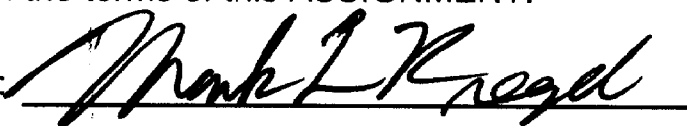
U.S. Serial No.: _____

Filed: _____

but Assignee's failure to do so shall have no bearing whatsoever upon the validity or legal effect of this ASSIGNMENT.

Assignor hereby authorizes and requests the Commissioner of Patents and the United States Patent and Trademark Office to issue Letters Patent to Assignee in accordance with the terms of this ASSIGNMENT.

SIGNATURE: _____



Date: _____

2 MAY 02

NAME: MARK L. KREGEL

ASSIGNMENT

WHEREAS, Derek A. Tidman, residing at 6801 Benjamin Street, McLean, Virginia 22101, (hereinafter "Assignor") has invented certain new and useful improvements in

SPIRAL MASS LAUNCHER

for a full description of which, reference is here made to an application for Letters Patent of the United States of America

☐ Executed concurrently herewith

☐ Executed on

☒ Serial. No. **10/091,025**, filed **March 6, 2002**

in the U.S. Patent and Trademark Office and to U.S. provisional patent application(s)

☒ Serial. No. **60/273,640**, filed **March 7, 2001**

in the U.S. Patent and Trademark Office; and

WHEREAS, Advanced Launch Corporation a corporation of the State of Virginia, having its principal office and place of business at 6801 Benjamin Street, McLean, Virginia 22101 (hereinafter "Assignee") is desirous of acquiring the entire right, title, and interest in, to, and under said invention and application above identified, and in, to, and under any Letters Patent that may be obtained for said invention, together with all foreign rights corresponding thereto, as hereinafter more fully set forth.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable and legally sufficient consideration, the receipt of which by Assignor from Assignee is hereby acknowledged, Assignor has agreed to sell, assign, and transfer and by these presents does hereby, sell, assign, and transfer unto Assignee the

entire right, title and interest in, to, and under said invention and application above identified and Letters Patent of the United States of America that may be obtained in respect thereof; any corresponding applications for Letters Patent and Letters Patent therefor in all other areas of the world; and any reissues, extensions, substitutions, confirmations, divisions, and continuations of any of the foregoing (hereinafter "Invention Rights"), to have and to hold for the sole and exclusive use and benefit of Assignee forever.

Assignor hereby covenants and agrees, for himself and for his respective legal representatives, to assist and cooperate with Assignee in the preparation and prosecution of any applications included within the Invention Rights and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any applications or Letters Patent included within the Invention Rights and further to execute and deliver to Assignee any and all additional papers that may be requested by Assignee for the purpose of implementing the terms of this ASSIGNMENT.

Assignor hereby authorizes and empowers Assignee to invoke and claim for any applications or Letters Patent included within the Invention Rights the benefit of any rights to which Assignor might be entitled under international law or under the laws of any particular country (such as, without limitation, the right of priority provided by the International Convention for the Protection of Industrial Property, as amended) and to invoke and claim said rights without further written or oral authorization from Assignor.

Assignor hereby consents that a copy of this ASSIGNMENT shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document that may be required in any particular country for any purpose and more particularly in proof of the right of Assignee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended.

Assignor covenants and agrees that this ASSIGNMENT and all of the terms hereof shall inure to the benefit of the successors, assigns, legal representatives, or nominees of Assignee, without further written or oral authorization from Assignor.

Assignor hereby authorizes and requests Assignee to fill in the following blanks specifying the United States Serial No. and filing date for said application above identified:

U.S. Serial No.: _____

Filed: _____

but Assignee's failure to do so shall have no bearing whatsoever upon the validity or legal effect of this ASSIGNMENT.

Assignor hereby authorizes and requests the Commissioner of Patents and the United States Patent and Trademark Office to issue Letters Patent to Assignee in accordance with the terms of this ASSIGNMENT.

SIGNATURE: Derek A. Tidman

Date: April 30, 2002

NAME: DEREK A. TIDMAN