

Form PTO-1595  
(Rev. 03/01)

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OMB No. 0651-0027 (exp. 5/31/2002)

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

<p>1. Name of conveying party(ies): Tanaka Kikinzoku Kogyo K.K.</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <u>Catalytica Energy Systems, Inc.</u></p> <p>Internal Address: _____</p> <p>Street Address: _____</p> <p>1388 N. Tech Blvd.</p> <p>City: <u>Gilbert</u></p> <p>State: <u>AZ</u> Zip: <u>85233</u></p> <p>Additional name(s) &amp; address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: <u>September 13, 2004</u></p>	

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

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

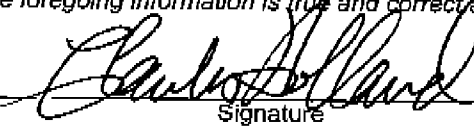
<p>A. Patent Application No.(s):</p>	<p>B. Patent No.(s): <u>5,518,697</u></p>
<p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Charles D. Holland</u> <u>MORRISON &amp; FOERSTER LLP</u></p> <p>Internal Address: <u>Atty. Dkt.: 220772006020</u></p> <p>Street Address: <u>755 Page Mill Road</u></p> <p>City: <u>Palo Alto</u> State: <u>CA</u> Zip: <u>94304</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u></p> <p><input type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p><input type="checkbox"/> Authorized to be charged to credit card (Form 2038 enclosed)</p> <p>8. Deposit account number: <u>03-1952</u> (Attach duplicate copy of this page if paying by deposit account)</p>
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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.

Charles D. Holland - 35,196            10/15/04  
Name of Person Signing      Signature      Date

Total number of pages including cover sheet, attachments, and documents: 2

CH \$40.00 031952 5518697

## ASSIGNMENT

WHEREAS, Tanaka Kikinzoku Kogyo K.K., a corporation duly organized under and pursuant to the laws of Japan (hereinafter referred to as the assignor), having its principle place of business at 6-6, Nihonbashikayabacho 2-chome, Chuo-ku, Tokyo 103-8206, Japan, has acquired certain rights, title and interest in one or more inventions described in "PROCESS AND CATALYST STRUCTURE EMPLOYING INTEGRAL HEAT EXCHANGE WITH OPTIONAL DOWNSTREAM FLAMEHOLDER," set forth in Letters Patent of the United States, bearing Patent No. 5,518,697 and issued on May 21, 1996; and

WHEREAS, Catalytica Energy Systems, Inc., a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 1388 N. Tech Blvd. Gilbert, Arizona 85233 (hereinafter referred to as the assignee) is desirous of acquiring the assignors right, title and interest in and to said inventions and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the assignor's right, title and interest in and to the above-mentioned inventions, any and all applications for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said applications, and Patents and any reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignor, had this sale and assignment not been made.

AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignor is the sole and lawful owner of an undivided interest in and to said inventions with Catalytica, Inc., and that the assignor's right, title and interest are unencumbered and that said assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee, its successors, legal representatives and assigns, that said assignor will, whenever counsel of said assignee, or the counsel of its successor, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said applications for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

**Assignor**

Sep. 13 2004  
Date

Yosuke Takahashi  
For: Tanaka Kikinzoku Kogyo K.K.  
Printed Name: Yosuke TAKAHASHI  
Title: Vice President