

Form PTO-1595 (Rev. 09/04)
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Exergy, Inc.

Execution Date(s) October 15, 2004

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

3. Nature of conveyance:

- ☐ Assignment ☐ Merger
☒ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Wasabi Energy, Ltd.

Internal Address: _____

Street Address: 139 Victoria Street

City: Mosman Park

State: WA

Country: Australia Zip: 6012

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

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

4,586,340; 4,604,867; 4,732,005; 4,899,545; 4,982,568; 5,029,444;
5,095,708; 5,440,882; 5,450,821; 5,572,871; 5,588,298; 5,649,426;
5,822,990; 5,950,433; 5,953,918

Additional numbers attached? ☐ Yes ☒ No

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

Name: Luke W. DeMarte

Internal Address: Seyfarth Shaw LLP

Street Address: 55 E. Monroe Street

Suite 4200

City: Chicago

State: IL Zip: 60603

Phone Number: 312.346.8000

Fax Number: 312.269.8869

Email Address: ldemarte@seyfarth.com

6. Total number of applications and patents involved:

15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 191351

Authorized User Name Seyfarth Shaw

9. Signature:



Signature

December 3, 2004

Date

Luke W. DeMarte

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 18

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

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PATENT SECURITY AGREEMENT

THIS PATENT SECURITY AGREEMENT (the "Agreement"), is made and entered into as of October 15, 2004, by and between Exergy, Inc., a California corporation (the "Debtor"), and Wasabi Energy, Ltd. (f/k/a Insurance My Way Ltd.), an Australian company (the "Secured Party").

RECITALS:

WHEREAS, Debtor previously issued to Secured Party the Prior Notes (as defined below); and

WHEREAS, the Debtor desires Secured Party to extend a line of credit pursuant to the Revolving Note;

WHEREAS, in order to incentivize Secured Party to extend a line of credit pursuant to the Revolving Note, Debtor desires to provide Secured Party with a security interest in the "Collateral" (as defined below), to secure payment of the Prior Notes and the Revolving Notes.

Debtor and Secured Party hereby agree as follows:

SECTION 1. Definitions; Interpretation.

(a) **Terms Defined in Notes.** All capitalized terms used in this Agreement and not otherwise defined herein shall have the meanings assigned to them in the Notes.

(b) **Certain Defined Terms.** As used in this Agreement, the following terms shall have the following meanings:

"Collateral" has the meaning set forth in Section 2.

"Documents" means this Agreement, the Notes, and all other certificates, documents, agreements and instruments delivered to Secured Party under the notes or in connection with the Obligations.

"Lien" means any mortgage, deed of trust, pledge, security interest, assignment, deposit arrangement, charge or encumbrance, lien, or other type of preferential arrangement.

"Notes" means, collectively, the Prior Notes and the Revolving Note.

"Obligations" means the indebtedness, liabilities and other obligations of Debtor to Secured Party under or in connection with this Agreement, the Notes, and the other Documents, including, without limitation, all unpaid principal of the Notes, all interest accrued thereon, all fees and all other amounts payable by Debtor to Secured Party thereunder or in connection therewith, whether now existing or hereafter arising, and whether due or to become due, absolute or contingent, liquidated or unliquidated, determined or undetermined; which term shall include all accrued interest and all costs and expenses, including reasonable attorney's fees, costs and expenses relating

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to the appraisal and/or valuation of assets and all costs and expenses incurred or paid by Secured Party in exercising, preserving, defending, collecting, enforcing, or protecting any of their rights under the Obligations or hereunder or with respect to the Collateral or in any litigation arising out of the transactions evidenced by the Obligations.

"Prior Notes" means, collectively, (i) that certain Promissory Note dated as of January 9, 2002 in the principal amount of \$300,000 issued by Debtor to Secured Party, and (ii) that certain Promissory Note dated as of May 28, 2002 in the principal amount of \$82,923.94 issued by Debtor to Secured Party, each as amended, modified, renewed, extended or replaced from time to time.

"PTO" means the United States Patent and Trademark Office.

"Revolving Note" means that certain Revolving Credit Note dated of even date herewith in the principal amount of \$1,300,000 issued by Debtor to the Secured Party, and

"UCC" means the Uniform Commercial Code as in effect in the State of California.

(e) Terms Defined in UCC. Where applicable in the context of this Agreement and except as otherwise defined herein, terms used in this Agreement shall have the meanings assigned to them in the UCC.

(d) Construction. In this Agreement, the following rules of construction and interpretation shall be applicable: (i) no reference to "proceeds" in this Agreement authorizes any sale, transfer, or other disposition of any Collateral by Debtor; (ii) "includes" and "including" are not limiting; (iii) "or" is not exclusive; and (iv) "all" includes "any" and "any" includes "all." To the extent not inconsistent with the foregoing, the rules of construction and interpretation applicable to the Notes shall also be applicable to this Agreement and are incorporated herein by this reference.

SECTION 2. Security Interest.

(a) Grant of Security Interest. As security for the payment and performance of the Obligations, Debtor hereby assigns, transfers and conveys to Secured Party, and grants to Secured Party a security interest in and mortgage to, all of Debtor's right, title and interest in, to and under the following property, in each case whether now or hereafter existing or arising or in which Debtor now has or hereafter owns, acquires or develops an interest and wherever located (collectively, the "Collateral"):

(i) all patents and patent applications, domestic or foreign, all licenses relating to any of the foregoing and all income and royalties with respect to any licenses (including such patents and patent applications as described in Schedule A), all rights to sue for past, present or future infringement thereof, all rights arising therefrom and pertaining thereto and all reissues, divisions, continuations, renewals, extensions and continuations-in-part thereof;

(ii) all general intangibles and all intangible intellectual or other similar property of Debtor of any kind or nature, associated with or arising out of any of the aforementioned properties and assets and not otherwise described above; and

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(iii) all proceeds of any and all of the foregoing Collateral (including license royalties, rights to payment, accounts and proceeds of infringement suits) and, to the extent not otherwise included, all payments under insurance (whether or not Secured Party is the loss payee thereof) or any indemnity, warranty or guaranty payable by reason of loss or damage to or otherwise with respect to the foregoing Collateral.

(b) Continuing Security Interest. Debtor agrees that this Agreement shall create a continuing security interest in the Collateral which shall remain in effect until terminated in accordance with Section 11.

SECTION 3. Supplement to Notes. This Agreement has been entered into in conjunction with the security interests granted to Secured Party under the Notes or other security documents referred to therein. The rights and remedies of Secured Party with respect to the security interests granted herein are without prejudice to, and are in addition to those set forth in the Notes or any other security documents referred to therein, all terms and provisions of which are incorporated herein by reference.

SECTION 4. Representations and Warranties. Debtor represents and warrants to Secured Party that a true and correct list of all of the existing Collateral consisting of U.S. patents and patent applications or registrations owned by Debtor, in whole or in part, is set forth in Schedule A.

SECTION 5. Events of Default. Any of the following events shall be an Event of Default:

- (a) Debtor fails to make and payment of principal or interest or any other payment on any Obligation when due and payable, by acceleration or otherwise; and
- (b) the occurrence of an Event of Default as that term is defined in the Notes.

SECTION 6. Specific Remedies. Upon the occurrence of any Event of Default:

- (a) Secured Party may cease advancing money or extending credit to or for the benefit of Debtor under the Notes or under any other agreement between Debtor and Secured Party.
- (b) Secured Party may declare all Obligations to be due and payable immediately, whereupon they shall immediately become due and payable without presentment, demand, protest or notice of any kind, all of which are hereby expressly waived by Debtor;
- (c) Secured Party may set off against the Obligations all Collateral, balances, credits, deposits, accounts or moneys of Debtor then or thereafter held with Secured Party, including amounts represented by certificates of deposit;

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(d) Secured Party may notify licensees to make royalty payments on license agreements directly to Secured Party;

(e) Secured Party may sell or assign the Collateral and associated goodwill at public or private sale for such amounts, and at such time or times as Secured Party deems advisable. Any requirement of reasonable notice of any disposition of the Collateral shall be satisfied if such notice is sent to Debtor ten (10) days prior to such disposition. Debtor shall be credited with the net proceeds of such sale only when they are actually received by Secured Party, and Debtor shall continue to be liable for any deficiency remaining after the Collateral is sold or collected.

(f) If the sale is to be a public sale, Secured Party shall also give notice of the time and place by publishing a notice one time at least ten (10) calendar days before the date of the sale in a newspaper of general circulation in the county in which the sale is to be held; and

(g) To the maximum extent permitted by applicable law, Secured Party may be the purchaser of any or all of the Collateral and associated goodwill at any public sale and shall be entitled, for the purpose of bidding and making settlement or payment of the purchase price for all or any portion of the collateral sold at any public sale, to use and apply all or any part of the Obligations as a credit on account of the purchase price of any Collateral payable by Secured Party at such sale.

SECTION 7. Further Acts. On a continuing basis, Debtor shall make, execute, acknowledge and deliver, and file and record in the proper filing and recording places, all such instruments and documents, and take all such action as may be necessary or advisable or may be requested by Secured Party to carry out the intent and purposes of this Agreement, or for assuring, confirming or protecting the grant or perfection of the security interest granted or purported to be granted hereby, to ensure Debtor's compliance with this Agreement or to enable Secured Party to exercise and enforce its rights and remedies hereunder with respect to the Collateral, including any documents for filing with the PTO or any applicable state office. Secured Party may record this Agreement, an abstract thereof, or any other document describing Secured Party's interest in the Collateral with the PTO, at the expense of Debtor. In addition, Debtor authorizes Secured Party to file financing statements describing the Collateral in any UCC filing office deemed appropriate by Secured Party. If the Debtor shall at any time hold or acquire a commercial tort claim arising with respect to the Collateral, the Debtor shall immediately notify Secured Party in a writing signed by the Debtor of the brief details thereof and grant to the Secured Party in such writing a security interest therein and in the proceeds thereof, all upon the terms of this Agreement, with such writing to be in form and substance satisfactory to the Secured Party.

SECTION 8. Authorization to Supplement. If Debtor shall obtain rights to any new patentable inventions or become entitled to the benefit of any patent application or patent for any reissue, division, or continuation, of any patent, the provisions of this Agreement shall automatically apply thereto. Debtor shall give prompt notice in writing to Secured Party with respect to any such new patent rights. Without limiting Debtor's obligations under this Section 6, Debtor authorizes Secured Party unilaterally to modify this Agreement by amending Schedule A to include any such new patent rights. Notwithstanding the foregoing, no failure to so modify this Agreement or amend

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Schedule A shall in any way affect, invalidate or detract from Secured Party's continuing security interest in all Collateral, whether or not listed on Schedule A.

SECTION 9. Binding Effect. This Agreement shall be binding upon, inure to the benefit of and be enforceable by Debtor, Secured Party and their respective successors and assigns. Debtor may not assign, transfer, hypothecate or otherwise convey its rights, benefits, obligations or duties hereunder except as specifically permitted by the Notes.

SECTION 10. Governing Law. This Agreement shall be governed by, and construed in accordance with, the law of the State of California, except as required by mandatory provisions of law or to the extent the perfection or priority of the security interests hereunder, or the remedies hereunder, in respect of any Collateral are governed by the law of a jurisdiction other than California.

SECTION 11. Entire Agreement; Amendment. This Agreement and the Notes, together with the Schedules hereto and thereto, contains the entire agreement of the parties with respect to the subject matter hereof and supersedes all prior drafts and communications relating to such subject matter. Neither this Agreement nor any provision hereof may be modified, amended or waived except by the written agreement of the parties, as provided in the Notes. Notwithstanding the foregoing, Secured Party unilaterally may re-execute this Agreement or modify, amend or supplement the Schedule hereto as provided in Section 6 hereof. To the extent that any provision of this Agreement conflicts with any provision of the Notes, the provision giving Secured Party greater rights or remedies shall govern, it being understood that the purpose of this Agreement is to add to, and not detract from, the rights granted to Secured Party under the Notes.

SECTION 12. Counterparts. This Agreement may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute but one and the same agreement. Delivery of an executed counterpart of this Agreement by facsimile shall be equally as effective as delivery of a manually executed counterpart. Any party hereto delivering a counterpart of this Agreement by facsimile shall also deliver a manually executed counterpart, but the failure to so deliver a manually executed counterpart shall not affect the validity, enforceability, or binding effect hereof.

SECTION 13. Termination. Upon payment and performance in full of all Obligations, the security interests created by this Agreement shall terminate and Secured Party (at Debtor's expense) shall promptly execute and deliver to Debtor such documents and instruments reasonably requested by Debtor as shall be necessary to evidence termination of all such security interests given by Debtor to Secured Party hereunder, including cancellation of this Agreement by written notice from Secured Party to the PTO.

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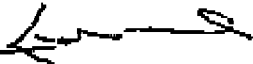
SECTION 14. No Inconsistent Requirements. Debtor acknowledges that this Agreement and the other documents, agreements and instruments entered into or executed in connection herewith may contain covenants and other terms and provisions variously stated regarding the same or similar matters, and Debtor agrees that all such covenants, terms and provisions are cumulative and all shall be performed and satisfied in accordance with their respective terms.

SECTION 15. Severability. If one or more provisions contained in this Agreement shall be invalid, illegal or unenforceable in any respect in any jurisdiction or with respect to any party, such invalidity, illegality or unenforceability in such jurisdiction or with respect to such party shall, to the fullest extent permitted by applicable law, not invalidate or render illegal or unenforceable any such provision in any other jurisdiction or with respect to any other party, or any other provisions of this Agreement.

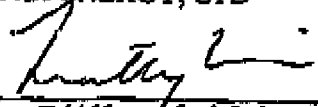
SECTION 16. Notices. All notices and other communications hereunder shall be in writing, and shall be mailed, sent or delivered in accordance with the Notices.

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement, as of the date first above written.

EXERGY, INC.

By: 
Name: D.H. Zukerman
Title: President

WASABI ENERGY, LTD.

By: 
Name: Timothy Wise
Title: Managing Director

Schedule A
To Patent Security Agreement

EXERGY PATENTS AND PATENT APPLICATIONS

COUNTRY	MDBE REF. #	AG REF. #	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
GENERATION OF ENERGY BY MEANS OF A WORKING FLUID								
CANADA	21937-701CA	05242/029CA1	CEQ	5/13/81	377484	8/28/84	1173257	ISSUED
EUROPE ¹	21937-701EP	05242/029EP1	CEQ	5/15/81	81302177.1	3/5/86	0065042	ISSUED
JAPAN	21937-701JP	05242/029JP1	CEQ	5/30/81	837311981	3/24/88	1431857	ISSUED
MALAYSIA	21937-701MY	05242/029MY2	DIV	5/15/81	81302177.1	3/5/86	0065042	ISSUED
MALAYSIA	21937-701MY	05242/029MY1	CEQ	5/15/81	81302177.1	3/5/86	0065042	ISSUED
MALAYSIA	21937-701MY	05242/029MY3	DIV	5/15/81	81302177.1	3/5/86	0065042	ISSUED
GENERATION OF ENERGY								
AUSTRALIA	21937-703AU	05242/030AU1	CEQ	7/29/83	1743383	9/23/87	562748	ISSUED
CANADA	21937-703CA	05242/030CA1	CEQ	8/3/83	433738	12/16/86	1215238	ISSUED
EUROPE ²	21937-703EP	05242/030EP1	CEQ	8/2/83	83304467.0	11/30/88	0101244	ISSUED
FRANCE	21937-703FR	05242/030FR1	DCA	8/2/83	83304467.0	11/30/88	0101244	ISSUED
GERMANY	21937-703DE	05242/030DE1	DCA	8/2/83	83304467.0	11/30/88	DE 3378591	ISSUED
ISRAEL	21937-703IS	05242/030IL1	CEQ	8/1/83	69394	12/17/87	69394	ISSUED
ITALY	21937-703IT	05242/030IT1	DCA	8/2/83	83304467.0	11/30/88	0101244	ISSUED
JAPAN	21937-703JP	05242/030JP1	CEQ	8/6/83	1443381983	4/8/93	1752674	ISSUED
NETHERLANDS	21937-703NL	05242/030NL1	DCA	8/2/83	83304467.0	11/30/88	0101244	ISSUED
SOUTH AFRICA	21937-703ZA	05242/030ZA1	CEQ	8/4/83	8375737	8/29/84	8375737	ISSUED
SPAIN	21937-703ES	05242/030ES1	CEQ	8/5/83	524789	9/24/84	524789	ISSUED
SWEDEN	21937-703SE	05242/030SE1	DCA	8/2/83	83304467.0	11/30/88	0101244	ISSUED
SWITZERLAND	21937-703CH	05242/030CH1	DCA	8/2/83	83304467.0	11/30/88	0101244	ISSUED
UNITED KINGDOM	21937-703GB	05242/030GB1	DCA	8/2/83	83304467.0	11/30/88	0101244	ISSUED
UNITED STATES	21937-703US	05242/030US1	NEW	8/6/82	066405,942	12/25/84	4,489,563	ISSUED
METHOD OF GENERATING ENERGY								
ARGENTINA	21937-705AR	05242/031AR1	CEQ	8/6/85	301205	4/29/88	236813	ISSUED
BRAZIL	21937-705BR	05242/031BR1	CEQ	8/28/85	P18504116.5	9/26/89	P18504119	ISSUED
CHINA	21937-705CN	05242/031CN1	CEQ	8/19/85	85106253.9	10/13/88	85106253.9	ISSUED
EUROPE ³	21937-705EP	05242/031EP1	CEQ	7/31/85	85305472.4	12/28/88	0180295	ISSUED
FRANCE	21937-705FR	05242/031FR1	DCA	7/31/85	85305472.4	12/28/88	0180295	ISSUED
GERMANY	21937-705DE	05242/031DE1	DCA	7/31/85	85305472.4	12/28/88	P3567059.2	ISSUED
ISRAEL	21937-705IL	05242/031IL1	CEQ	7/19/85	75859	4/19/90	75859	ISSUED
ITALY	21937-705IT	05242/031IT1	DCA	7/31/85	85305472.4	12/28/88	0180295	ISSUED
JAPAN	21937-705JP	05242/031JP1	CEQ	8/31/85	177025185	6/26/92	1674446	ISSUED
MEXICO	21937-705MX	05242/031MX1	CEQ	7/29/85	206119	4/27/89	159176	ISSUED
NETHERLANDS	21937-705NL	05242/031NL1	DCA	7/31/85	85305472.4	12/28/88	0180295	ISSUED
SOUTH AFRICA	21937-705ZA	05242/031ZA1	CEQ	7/19/85	8515491	3/26/86	8515491	ISSUED
SWEDEN	21937-705SE	05242/031SE1	DCA	7/31/85	85305472.4	12/28/88	0180295	ISSUED
SWITZERLAND	21937-705CH	05242/031CH1	DCA	7/31/85	85305472.4	12/28/88	0180295	ISSUED
UNITED KINGDOM	21937-705GB	05242/031GB1	DCA	7/31/85	85305472.4	12/28/88	0180295	ISSUED
UNITED STATES	21937-705US	05242/031US1	NEW	10/26/84	066665,042	10/22/85	4,548,043	ISSUED
METHOD AND APPARATUS FOR IMPLEMENTING A THERMODYNAMIC CYCLE USING A FLUID OF CHANGING CONCENTRATION								
ARGENTINA	21937-704AR	05242/040AR1	CEQ	10/23/85	302034	6/30/87	234850	ISSUED
CANADA	21937-704CA	05242/040CA1	CEQ	10/16/85	493,101	4/26/88	1235581	ISSUED

¹ Regional patent. Designated countries: France, Germany, Italy, Netherlands, Sweden, Switzerland, and the United Kingdom.

² Regional patent. Designated countries: France, Germany, Italy, Netherlands, Spain, Sweden, Switzerland, and the United Kingdom.

³ Regional patent. Designated countries: France, Germany, Italy, Netherlands, Spain, Sweden, Switzerland, and the United Kingdom.

EXERGY PATENTS AND PATENT APPLICATIONS

COUNTRY	MDBE REF. #	AG REF. #	TYPE	FILED	SERIAL #	ISSUED	PATENT#	STATUS
INDIA	21937-704JN	05242/040JN1	CEQ	9/19/85	728MAS/85	8/3/90	165782	ISSUED
JAPAN	21937-704JP	05242/040JP1	CEQ	1/21/86	9073/86	6/30/93	1768864	ISSUED
MALAYSIA	21937-704MY	05242/040MY1	CEQ	8/24/87	P18701428	7/16/91	MY-101101A	RESTORED
MEXICO	21937-704MX	05242/040MX1	CEQ	1/14/85	609	8/3/92	164313	ISSUED
SPAIN	21937-704ES	05242/040ES2	DIV	9/30/86	551098	3/12/87	557098	ISSUED
UNITED STATES	21937-704US	05242/040U1	NEW	1/22/85	06693,470	5/6/86	4,586,340	ISSUED
METHOD AND APPARATUS FOR IMPLEMENTING A THERMODYNAMIC CYCLE								
ALGERIA	21937-706DZ	05242/042DZ1	CEQ	2/26/86	38-86	2/25/87	03886/1986	ISSUED
ARGENTINA	21937-706AR	05242/042AR1	CEQ	2/26/86	303234	4/16/96	248818	ISSUED
AUSTRALIA	21937-706AU	05242/042AU1	CEQ	2/14/86	53678/86	5/24/89	581054	ISSUED
BELGIUM	21937-706BB	NONE	DCA	2/26/86	86102489.1	9/7/98	0193184	ISSUED
BRAZIL	21937-706BR	05242/042BR1	CEQ	2/23/86	P18600796-3	8/28/90	P18600796	ISSUED
CANADA	21937-706CA	05242/042CA1	CEQ	2/12/86	501717	11/29/88	1,245,465	ISSUED
CHILE	21937-706CL	05242/042CL1	CEQ	2/23/86	146-86	9/21/88	36335	ISSUED
EUROPE*	21937-706EP	05242/042EP1	CEQ	2/26/86	86102489.1	9/7/88	0193184	ISSUED
FRANCE	21937-706FR	05242/042FR1	DCA	2/26/86	86102489.1	9/7/88	0193184	ISSUED
GERMANY	21937-706DE	05242/042DE1	DCA	2/26/86	86102489.1	9/7/88	P3660686.3	ISSUED
INDONESIA	21937-706ID	05242/042ID1	CEQ	2/26/86	11369	2/26/86	11369	ISSUED
ISRAEL	21937-706IL	05242/042IL1	CEQ	2/18/86	77859	8/26/92	77859	ISSUED
ITALY	21937-706IT	05242/042IT1	DCA	2/26/86	86102489.1	9/7/88	0193184	ISSUED
JAPAN	21937-706JP	05242/042JP1	CEQ	2/25/86	41353/1986	9/27/95	1970972	ISSUED
MALAYSIA	21937-706MY	05242/042MY1	CEQ	8/24/87	P18701427	12/29/90	MY-100646A	ISSUED
MEXICO	21937-706MX	05242/042MX1	CEQ	5/22/87	1643	6/26/91	162770	ISSUED
MOROCCO	21937-706MO	05242/042MO1	CEQ	2/24/86	PV20862	10/1/86	20,637	ISSUED
NETHERLANDS	21937-706NL	05242/042NL1	DCA	2/26/86	86102489.1	9/7/88	0193184	ISSUED
PAKISTAN	21937-706PK	05242/042PK1	CEQ	2/13/86	61/86	3/26/88	130137	ISSUED
PHILIPPINES	21937-706PH	05242/042PH1	CEQ	2/24/86	33446	5/29/90	24282	ISSUED
PORTUGAL	21937-706PT	05242/042PT1	CEQ	2/25/86	82987	11/20/91	82087	ISSUED
SOUTH AFRICA	21937-706ZA	05242/042ZA1	CEQ	2/17/86	86/1180	11/26/86	86/1180	ISSUED
SOUTH KOREA	21937-706KR	05242/042KR1	CEQ	2/25/86	86-1312	12/9/91	046829	ISSUED
SPAIN	21937-706ES	05242/042ES1	CEQ	2/25/86	552363	2/9/87	552363	ISSUED
SWEDEN	21937-706SE	05242/042SE1	DCA	2/26/86	86102489.1	9/7/88	0193184	ISSUED
SWITZERLAND	21937-706CH	05242/042CH1	DCA	2/26/86	86102489.1	9/7/88	0913184	ISSUED
TAIWAN	21937-706TW	05242/042TW1	CEQ	2/15/86	75100643	2/15/88	NI-27584	ISSUED
THAILAND	21937-706TH	05242/042TH1	CEQ	2/25/86	604263	3/7/95	4355	ISSUED
TURKEY	21937-706TR	05242/042TR1	CEQ	2/26/86	9600	9/28/88	22880	ISSUED
UNITED KINGDOM	21937-706GB	05242/042GB1	DCA	2/26/86	86102489.1	9/7/88	0193184	ISSUED
UNITED STATES	21937-706US	05242/042U1	NEW	2/26/86	06705,906	8/12/86	4,604,867	ISSUED
VENEZUELA	21937-706VE	05242/042VE1	CEQ	2/26/86	27386	3/4/93	049242	ISSUED
DIRECT FIRED POWER CYCLE								
ARGENTINA	21937-707AR	05242/044AR1	CEQ	2/17/88	310100	12/29/89	239959	ISSUED
AUSTRALIA	21937-707AU	05242/044AU1	CEQ	2/17/88	11917/88	5/3/90	592694	ISSUED
AUSTRIA	21937-707AT	05242/044AT1	DCA	2/16/88	88301261.9	5/8/91	0280453	ISSUED
BELGIUM	21937-707BE	05242/044BE1	DCA	2/16/88	88301261.9	5/8/91	0280453	ISSUED
BRAZIL	21937-707BR	05242/044BR1	CEQ	2/17/88	P18800700-6	1/26/93	P18800100	ISSUED

* Regional patent. Designated countries: Belgium, France, Germany, Italy, Luxembourg (abandoned), Netherlands, Sweden, Switzerland, and the United Kingdom.

EXERGY PATENTS AND PATENT APPLICATIONS

COUNTRY	MDBE REF. #	AG REF. #	TYPE	FILED	SERIAL #	ISSUED	PATENT #	STATUS
CANADA	21937-707CA	05242/044CA1	CEQ	2/15/88	55893399	11/10/92	1309871	ISSUED
CHINA	21937-707CN	05242/044CN1	CEQ	2/15/88	88100935.0	7/17/91	88100935.0	ISSUED
EUROPE ⁵	21937-707EP	05242/044EP1	CEQ	2/16/88	88301261.9	5/8/91	0280453	ISSUED
FRANCE	21937-707FR	05242/044FR1	DCA	2/16/88	88301261.9	5/8/91	0280453	ISSUED
GERMANY	21937-707DE	05242/044DE1	DCA	2/16/88	88301261.9	5/8/91	P3862651-9	ISSUED
GREECE	21937-707GR	05242/044GR1	CEQ	2/16/88	3002018	5/8/91	910400696	ISSUED
INDIA	21937-707IN	05242/044IN1	CEQ	2/17/88	101/MAAS/88	9/24/93	170982	ISSUED
ISRAEL	21937-707IL	05242/044IL1	CEQ	2/15/88	85423	3/13/92	85423	ISSUED
ITALY	21937-707IT	05242/044IT1	DCA	2/16/88	88301261.9	5/8/91	0280453	ISSUED
JAPAN	21937-707JP	05242/044JP1	CEQ	2/17/88	34935/88	3/97	2649235	ISSUED
LIECHTENSTEIN	21937-707LI	NONE	DCA	2/17/88	88301261.9	2/16/88	0280453	ISSUED
LUXEMBOURG	21937-707LU	05242/044LU1	DCA	2/16/88	88301261.9	5/8/91	0280453	ISSUED
NETHERLANDS	21937-707NL	05242/044NL1	DCA	2/16/88	88301261.9	5/8/91	0280453	ISSUED
PORTUGAL	21937-707PT	05242/044PT1	CEQ	2/17/88	86778	3/25/93	0280453	ISSUED
SOUTH AFRICA	21937-707ZA	05242/044ZA1	CEQ	2/15/88	88/1040	10/26/88	8871040	ISSUED
SOUTH KOREA	21937-707KR	05242/044KR1	CEQ	2/17/88	88-1681	8/29/94	076746	ISSUED
SPAIN	21937-707ES	05242/044ES1	DCA	2/16/88	88301261.9	5/8/91	2022611	ISSUED
SWEDEN	21937-707SE	05242/044SE1	DCA	2/16/88	88301261.9	5/8/91	0280453	ISSUED
SWITZERLAND	21937-707CH	05242/044CH1	DCA	2/16/88	83301261.9	5/8/91	0280453	ISSUED
TAIWAN	21937-707TW	05242/044TW1	CEQ	2/15/88	71100973	8/24/89	052294	ISSUED
UNITED KINGDOM	21937-707GB	05242/044GB1	DCA	2/16/88	88301261.9	5/8/91	0280453	ISSUED
UNITED STATES	21937-707US	05242/044001	NEW	2/17/87	07/015,102	3/22/88	4,732,005	ISSUED
METHOD AND APPARATUS FOR THERMODYNAMIC CYCLE								
AUSTRIA	21937-709AT	05242/048AT1	DCA	1/1/90	90300351.5	3/11/98	0378428	ISSUED
BELGIUM	21937-709BE	05242/048BE1	DCA	1/1/90	90300351.5	3/11/98	0378428	ISSUED
DENMARK	21937-709DK	NONE	DCA	1/1/90	90300351.5	3/11/98	0378428	ISSUED
EUROPE ⁶	21937-709EP	05242/048EP1	CEQ	1/1/90	90300351.5	3/11/98	0378428	ISSUED
FRANCE	21937-709FR	05242/048FR1	DCA	1/1/90	90300351.5	3/11/98	0378428	ISSUED
GERMANY	21937-709DE	05242/048DE1	DCA	1/1/90	90300351.5	3/11/98	69032 108 2-080	ISSUED
GREECE	21937-709GR	05242/048GR1	DCA	1/1/90	90300351.5	3/11/98	980401181	ISSUED
ITALY	21937-709IT	05242/048IT1	DCA	1/1/90	90300351.5	3/11/98	2310418E/98	ISSUED
JAPAN	21937-709JP	05242/048JP1	CEQ	1/1/90	2-4380	4/25/97	2634918	ISSUED
LUXEMBOURG	21937-709LU	05242/048LU1	DCA	1/1/90	90300351.5	3/11/98	0378428	ISSUED
SWITZERLAND	21937-709CH	05242/048CH1	DCA	1/1/90	90300351.5	3/11/98	0378428	ISSUED
UNITED KINGDOM	21937-709GB	05242/048GB1	DCA	1/1/90	90300351.5	3/11/98	0378428	ISSUED
UNITED STATES	21937-709US	05242/048001	NEW	1/11/89	07/295,787	2/13/90	4,899,545	ISSUED
METHOD AND APPARATUS FOR CONVERTING HEAT FROM GEOTHERMAL FLUID TO ELECTRICAL POWER								
COSTA RICA	21937-710CR	05242/050CR1	CEQ	1/11/90	4620			PENDING
INDIA	21937-710IN	05242/050IN1	CEQ	2/2/90	95/DEL/90	2/7/97	176689	ISSUED
INDONESIA	21937-710ID	05242/050ID1	CEQ	1/31/92	P-001832	11/6/96	ID0001076	ISSUED
ITALY	21937-710IT	05242/050IT1	CEQ	1/11/90	47522A/90	12/17/93	1240752	ISSUED
JAPAN	21937-710JP	05242/050JP1	CEQ	1/11/90	2-4381	8/6/99	2962751	ISSUED
MEXICO	21937-710MX	05242/050MX1	CEQ	1/11/90	19088	12/7/95	180336	ISSUED
NEW ZEALAND	21937-710NZ	05242/050NZ1	CEQ	1/9/90	232060	11/14/91	232060	ISSUED

⁵ Regional patent. Designated countries: Austria, Belgium, France, Germany, Italy, Liechtenstein, Luxembourg, Netherlands, Spain, Sweden, Switzerland, and the United Kingdom.
⁶ Regional patent. Designated countries: Austria, Belgium, Denmark, France, Germany, Greece, Italy, Luxembourg, Netherlands, Spain, Sweden, Switzerland, and the United Kingdom.

EXERGY PATENTS AND PATENT APPLICATIONS

COUNTRY	MDHE REF. #	AG REF. #	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
PHILIPPINES	21937-710PH	05242/050PH1	CEQ	1/10/90	39870			PENDING
UNITED STATES	21937-710US	05242/05001	CIP	3/22/89	07327,299	1/8/91	4,982,568	ISSUED
METHOD AND APPARATUS FOR CONVERTING LOW TEMPERATURE HEAT TO ELECTRIC POWER								
AUSTRIA	21937-711AT	05242/052AT1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
BELGIUM	21937-711BE	05242/052BE1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
CHINA	21937-711CN	05242/052CN1	CEQ	8/14/91	91103805.2	4/13/96	91105805	ISSUED
COSTA RICA	21937-711CR	05242/052CR1	CEQ	8/14/91	4574			PENDING
DENMARK	21937-711DK	05242/052DK1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
EUROPE ⁷	21937-711EP	05242/052EP1	CEQ	7/31/91	91112912.0	8/16/95	0472020	ISSUED
FRANCE	21937-711FR	05242/052FR1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
GERMANY	21937-711DE	05242/052DE1	DCA	7/31/91	91112912.0	8/16/95	950402892	ISSUED
GREECE	21937-711GR	05242/052GR1	DCA	7/31/91	3017789	8/16/95	1714	ISSUED
ICELAND	21937-711IS	05242/052IS1	CEQ	7/29/91	3736	4/23/99		ISSUED
INDONESIA	21937-711IN	05242/052ID1	CEQ	10/30/91	P-000754	3/24/97	ID0001430	ISSUED
ITALY	21937-711IT	05242/052IT1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
JAPAN	21937-711JP	05242/052JP1	CEQ	8/7/91	22214491	11/7/97	2716606	ISSUED
LUXEMBOURG	21937-711LU	05242/052LU1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
MEXICO	21937-711MX	05242/052MX1	CEQ	8/14/91	9100666	3/15/95	177226	ISSUED
NETHERLANDS	21937-711NL	05242/052NL1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
NEW ZEALAND	21937-711NZ	05242/052NZ1	CEQ	7/26/91	239143	6/14/94	239143	ISSUED
PHILIPPINES	21937-711PH	05242/052PH1	CEQ	8/15/91	42954	9/9/96	29868	ISSUED
SPAIN	21937-711ES	05242/052ES1	DCA	7/31/91	91112912.0	8/16/95	2078396	ISSUED
SWEDEN	21937-711SE	05242/052SE1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
SWITZERLAND	21937-711CH	05242/052CH1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
UNITED KINGDOM	21937-711GB	05242/052GB1	DCA	7/31/91	91112912.0	8/16/95	0472020	ISSUED
UNITED STATES	21937-711US	05242/052001	NEW	8/15/96	07567,914	7/9/91	5,029,444	ISSUED
METHOD AND APPARATUS FOR CONVERTING THERMAL ENERGY INTO ELECTRICAL POWER								
EUROPE ⁸	21937-712EP	05242/053EP1	CEQ	2/27/92	92103369.2	3/26/97	05055758	ISSUED
INDIA	21937-712IN	05242/053IN1	CEQ	1/29/92	63/DEL/92			PENDING
INDONESIA	21937-712ID	05242/053ID1	CEQ	3/26/92	P-002694	11/6/96	ID0001026	ISSUED
JAPAN	21937-712JP	05242/053JP1	CEQ	3/4/92	04722692	8/1/97	2676753	ISSUED
LUXEMBOURG	21937-712LU	05242/053LU1	DCA	2/27/92	92103369.2	3/26/97	0505758	ISSUED
NEW ZEALAND	21937-712NZ	05242/053NZ1	CEQ	1/27/92	241411	7/24/99	241411	ISSUED
PHILIPPINES	21937-712PH	05242/053PH1	CEQ	3/27/92	44132	2/6/96	29481	ISSUED
UNITED STATES	21937-712US	05242/053001	NEW	3/28/91	07677,650	3/17/92	5,095,708	ISSUED
MULTI-STAGE COMBUSTION SYSTEM FOR EXTERNALLY FIRED POWER PLANTS								
CHINA	21937-713CN	05242/057CN1	CEQ	9/26/94	94116762.3	12/24/99	52567	ISSUED
DENMARK	21937-713DK	NONE	DCA	9/26/94	94307022.7			PENDING
EUROPE ⁹	21937-713EP	05242/057EP1	CEQ	9/26/94	94307022.7			ALLOWED
INDIA	21937-713IN	05242/057IN1	CEQ	9/26/94	922/MAS/94			PENDING
INDONESIA	21937-713ID	05242/057ID1	CEQ	9/26/94	P941617			PENDING
ITALY	21937-713IT	05242/057IT1	CEQ	9/26/94	M994A001949	5/27/97	1271213	ISSUED
JAPAN	21937-713JP	05242/057JP1	CEQ	9/27/94	25743294			PENDING

⁷ Regional patent. Designated countries: Austria, Belgium, Denmark, France, Germany, Greece, Italy, Luxembourg, Netherlands, Spain, Sweden, Switzerland, and the United Kingdom.

⁸ Regional patent. Designated countries: Austria, Belgium, France, Greece, Italy, Liechtenstein, Luxembourg, Monaco, Netherlands, Portugal, Spain, Sweden, Switzerland, and the U. K.

⁹ Regional patent. Designated countries: Denmark, Italy, and the United Kingdom (pending).

EXERGY PATENTS AND PATENT APPLICATIONS

COUNTRY	MDR REF. #	AG REF. #	TYPE	FILED	SERIAL #	ISSUED	PATENT #	STATUS
MEXICO	21937-713MX	05242/057MX1	CEQ	9/26/94	9407379	1/7/98	187639	ISSUED
NEW ZEALAND	21937-713NZ	05242/057001NZ1	CEQ	9/16/94	264476	1/17/95	264476	ISSUED
PHILIPPINES	21937-713PH	05242/057PH1	CEQ	9/26/94	49062	9/26/94	30405	ISSUED
UNITED KINGDOM	21937-713GB	NONE	DCA	9/26/94	94307022.7			PENDING
UNITED STATES	21937-713US	05242/057001	NEW	9/27/93	08/127,167	9/19/95	5,450,821	ISSUED
METHOD AND APPARATUS FOR CONVERTING HEAT FROM GEOTHERMAL LIQUID AND GEOTHERMAL STEAM TO ELECTRIC POWER								
AUSTRIA	21937-714AT	05242/058AT1	DCA	10/12/94	94307470.8	12/10/97	0652368	ISSUED
CHINA	21937-714CN	05242/058CN1	CEQ	11/1/94	94113791.0	1/15/01	94113791.0	ISSUED
EUROPE ¹⁰	21937-714EP	05242/058EP1	CEQ	10/12/94	94307470.8	12/10/97	0652368	ISSUED
GREECE	21937-714GR	05242/058GR1	DCA	10/12/94	94307470.8	4/30/98	3026220	ISSUED
GUATEMALA	21937-714GT	05242/058GT1	CEQ	11/2/94	PL-940070			PENDING
ICELAND	21937-714IS	05242/058IS1	CEQ	10/31/94	4229			PENDING
INDIA	21937-714IN	05242/058IN1	CEQ	10/19/94	1013/MAS/94			PENDING
INDONESIA	21937-714ID	05242/058ID1	CEQ	11/2/94	P-941870	6/15/99	ID0003949	ISSUED
ITALY	21937-714IT	05242/058IT2	DCA	10/12/94	94307470.8	12/10/97	0652368	ISSUED
JAPAN	21937-714JP	05242/058JP1	CEQ	10/31/94	267422/94			PENDING
MEXICO	21937-714MX	05242/058MX1	CEQ	10/31/94	9408442	12/2/97	187251	ISSUED
MONACO	21937-714MC	05242/058MC1	DCA	10/12/94	94307470.8	12/10/97	0652368	ISSUED
NEW ZEALAND	21937-714NZ	05242/058NZ1	CEQ	10/14/94	264705	4/11/96	264705	ISSUED
PHILIPPINES	21937-714PH	05242/058PH1	CEQ	10/28/94	49266			PENDING
PORTUGAL	21937-714PT	05242/058PT1	DCA	10/12/94	94307470.8	12/10/97	0652368	ISSUED
RUSSIA	21937-714RU	05242/058RU1	CEQ	11/2/94	94041741	12/20/98	2123606	ISSUED
SPAIN	21937-714ES	05242/058ES1	DCA	10/12/94	94307470.8	12/10/97	0652368	ISSUED
UNITED STATES	21937-714US	05242/058001	NEW	11/3/93	08/147,670	8/15/95	5,440,882	ISSUED
SYSTEM AND APPARATUS FOR CONVERSION OF THERMAL ENERGY INTO MECHANICAL AND ELECTRICAL POWER								
ARGENTINA	21937-702AR	05242/061AR1	CEQ	7/25/95	332,923	3/22/00	254089V1	ISSUED
AUSTRALIA	21937-702AU	05242/061AU1	CEQ	7/14/95	2503795	3/12/98	683754	ISSUED
AUSTRIA	21937-702AT	NONE	DCA	7/24/95	95305146.3	9/8/99	ATE184366	ISSUED
BELGIUM	21937-702BE	NONE	DCA	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
BRAZIL	21937-702BR	05242/061BR1	CEQ	7/31/95	P19503498.6	1/25/00	P19503498.6	ISSUED
CANADA	21937-702CA	05242/061CA1	CEQ	7/28/95	2154971	6/13/00	2154971	ISSUED
CHILE	21937-702CL	05242/061CL1	CEQ	7/28/95	1129/95			PENDING
CHINA	21937-702CN	05242/061CN1	CEQ	7/28/95	95109576.1			ALLOWED
COLOMBIA	21937-702CO	05242/061CO1	CEQ	7/28/95	95033815	8/4/99	26139	ISSUED
SYSTEM AND APPARATUS FOR CONVERSION OF THERMAL ENERGY INTO MECHANICAL AND ELECTRICAL POWER (continued)								
DENMARK	21937-702DK	NONE	DCA	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
EGYPT	21937-702EG	05242/061EG1	CEQ	7/29/95	637/95	7/31/00	20962	ISSUED
EUROPE ¹¹	21937-702EP	05242/061EP1	CEQ	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
FRANCE	21937-702FR	NONE	DCA	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
GERMANY	21937-702DE	NONE	DCA	7/24/95	95305146.3	9/8/99	695119621	ISSUED
GREECE	21937-702GR	NONE	DCA	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
INDIA	21937-702IN	05242/061IN1	CEQ	7/4/95	822/MAS/95			PENDING

¹⁰ Regional patent. Designated countries: Austria, Belgium, Denmark, France, Germany, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

¹¹ Regional patent. Designated countries: Austria, Belgium, Denmark, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, and the U. K.

EXERGY PATENTS AND PATENT APPLICATIONS

COUNTRY	MDBE REF. #	AG REF. #	TYPE	FILED	SERIAL #	ISSUED	PATENT #	STATUS
PHILIPPINES	21937-715PH	5242007PH1	CBQ	4/26/96	52962	6/16/99	32076	ISSUED
SOUTH KOREA	21937-715KR	05242007KR1	CBQ	4/25/96	96-12838			PENDING
TURKEY	21937-715TR	05242007TR1	CBQ	4/26/96	96/349			PENDING
UNITED STATES	21937-715US	05242007001	NBW	4/27/95	08/429,706	7/22/97	5,649,426	ISSUED
SUPPLYING HEAT TO AN EXTERNALLY FIRED POWER SYSTEM								
ARGENTINA	21937-716AR	052420070AR1	CBQ	10/18/96	P960104815			PENDING
AUSTRALIA	21937-716AU	052420070AU1	CBQ	10/14/96	6815696	5/28/98	686958	ISSUED
BRAZIL	21937-716BR	052420070BR1	CBQ	10/18/96	P9605170-1			ALLOWED
CANADA	21937-716CA	052420070CA1	CEQ	10/18/96	2188223			PENDING
CHILE	21937-716CL	052420070CL1	CBQ	10/18/96	1821-96			PENDING
CHINA	21937-716CN	052420070CN1	CBQ	10/19/96	96121043.5			PENDING
COLOMBIA	21937-716CO	052420070CO1	CBQ	10/18/96	96055347			PENDING
DENMARK	21937-716DK	NONE	DCA	10/17/96	96307555.1	4/26/00	0769654	ISSUED
EUROPE ¹³	21937-716EP	052420070EP1	CBQ	10/17/96	96307555.1			ISSUED
HONG KONG	21937-716HK	052420070HK1	CBQ	1/31/98	98100751.2			PENDING
INDIA	21937-716ID	052420070ID1	CBQ	10/17/96	1833/MAS/96			PENDING
INDONESIA	21937-716ID	052420070ID1	CBQ	10/18/96	P-962993			PENDING
ISRAEL	21937-716IL	052420070IL1	CEQ	10/14/96	119423	4/2/00	119423	ISSUED
ITALY	21937-716IT	NONE	DCA	10/17/96	96307555.1	4/26/00	248608E2000	ISSUED
JAPAN	21937-716JP	052420070JP1	CEQ	10/21/96	278465/1996	3/6/00	03017106	ISSUED
MALAYSIA	21937-716MY	052420070MY1	CBQ	10/19/96	P19604355			PENDING
MONACO	21937-716MC	NONE	DCA	10/17/96	96307555.1	4/26/00	0769654	ISSUED
PHILIPPINES	21937-716PH	052420070PH1	CBQ	10/17/96	1-34549			ALLOWED
SOUTH AFRICA	21937-716ZA	52420070ZA1	CBQ	10/15/96	968609	7/30/97	96/8609	ISSUED
SOUTH KOREA	21937-716KR	052420070KR1	CBQ	10/18/96	96-46644			PENDING
UNITED KINGDOM	21937-716GB	NONE	DCA	10/17/96	96307555.1	4/26/00	0769654	ISSUED
UNITED STATES	21937-716US	052420070001	NBW	10/20/95	08546,419	12/31/96	5,588,298	ISSUED
CONVERTING HEAT INTO USEFUL ENERGY USING SEPARATE CLOSED LOOPS								
ARGENTINA	21937-717AR	052420073AR1	CBQ	2/7/97	970100499			PENDING
ARMENIA	21937-717AM	NONE	DCA	2/7/97		4/14/98	000058	ISSUED
AUSTRALIA	21937-717AU	052420073AU1	CBQ	2/7/97	12599/97	12/21/00	723964	ISSUED
AZERBAIJAN	21937-717AZ	NONE	DCA	2/7/97		4/14/98	000058	ISSUED
BELARUS	21937-717BY	NONE	DCA	2/7/97		4/14/98	000058	ISSUED
BRAZIL	21937-717BR	052420073BR1	CBQ	2/7/97	P19700926-1			PENDING
CANADA	21937-717CA	052420073CA1	CBQ	2/7/97	21967038	4/25/00	2197038	ISSUED
CHILE	21937-717CL	052420073CL1	CBQ	2/7/97	217-97			PENDING
CHINA	21937-717CN	052420073CN1	CBQ	2/9/97	97104976.9			PENDING
COLOMBIA	21937-717CO	052420073CO1	CBQ	2/10/97	97006713			PENDING
EUROPE ¹⁴	21937-717EP	052420073EP1	CBQ	2/7/97	EA-97-0016-US	4/14/98	000058	ISSUED
EUROPE ¹⁵	21937-717EP	052420073EP1	CBQ	2/7/97	97300810.5			PENDING
GUATEMALA	21937-717GT	052420073GT1	CBQ	2/10/97	FI-970021			PENDING
ICELAND	21937-717IS	052420073IS1	CBQ	2/7/97	4427			PENDING
INDIA	21937-717IN	052420073IN1	CBQ	2/10/97	269/MAS/97			PENDING

¹³ Regional patent. Designated countries: Denmark, Italy, Monaco, and the United Kingdom.

¹⁴ Regional patent. Designated countries: Armenia, Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, Moldova, Russia, and Tajikistan.

¹⁵ Regional patent. Countries not designated yet.

EXERGY PATENTS AND PATENT APPLICATIONS

COUNTRY	MDBE REF. #	AG REF. #	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
INDONESIA	21937-702ID	05242/061ID1	CEQ	7/28/95	P-951465			PENDING
IRELAND	21937-702IE	NONE	DCA	7/28/95	95305146.3	9/8/99	0694678B1	ISSUED
ISRAEL	21937-702IL	05242/061IL1	CEQ	6/30/95	114416	10/18/98	114416	ISSUED
ITALY	21937-702IT	NONE	DCA	7/24/95	95305146.3	9/8/99	27662BE99	ISSUED
JAPAN	21937-702JP	05242/061JP1	CEQ	7/25/95	269106/95	5/28/99	2933854	ISSUED
MALAYSIA	21937-702MY	05242/061MY1	CEQ	7/24/95	P19502111			PENDING
MEXICO	21937-702MX	05242/061MX1	CEQ	7/28/95	9503278			ALLOWED
MOROCCO	21937-702MA	05242/061MA1	CEQ	7/27/95	23973	4/1/96	23633	ISSUED
NETHERLANDS	21937-702NL	NONE	DCA	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
NEW ZEALAND	21937-702NZ	05242/061NZ1	CEQ	7/7/95	272529	2/24/98	272529	ISSUED
NORWAY	21937-702NO	05242/061NO1	CEQ	7/28/95	952993	8/9/99	305876	ISSUED
PAKISTAN	21937-702PK	05242/061PK1	CEQ	7/28/95	0405/95	11/26/97	134873	ALLOWED
PERU	21937-702PE	05242/061PE1	CEQ	7/25/95	274658	1/29/99	11139	ISSUED
PHILIPPINES	21937-702PH	05242/061PH1	CEQ	7/26/95	51011			PENDING
PORTUGAL	21937-702PT	NONE	DCA	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
SOUTH AFRICA	21937-702ZA	05242/061ZA1	CEQ	7/17/95	955943			PENDING
SOUTH KOREA	21937-702KR	05242/061KR1	CEQ	7/27/95	95-22483			PENDING
SPAIN	21937-702ES	NONE	DCA	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
SWEDEN	21937-702SE	NONE	DCA	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
SWITZERLAND	21937-702CH	NONE	DCA	7/24/95	95305146.3	9/8/99	0694678B1	ISSUED
TAIWAN	21937-702TW	05242/061TW1	CEQ	7/10/95	84107122	3/21/97	85406	ISSUED
TANZANIA	21937-702TI	05242/061TI1	CEQ	7/27/95	1314		23633	ISSUED
TURKEY	21937-702TR	05242/061TR1	CEQ	7/28/95	95/923			PENDING
UNITED KINGDOM	21937-702GB	NONE	DCA	7/28/95	95305146.3	9/8/99	0694678B1	ISSUED
UNITED STATES	21937-702US	05242/061001	NEW	7/29/94	08283,091	11/12/96	5,572,871	ISSUED
METHOD AND APPARATUS FOR IMPLEMENTING A THERMODYNAMIC CYCLE								
ARGENTINA	21937-715AR	05242/067AR1	CEQ	4/25/96	P960102326			PENDING
AUSTRALIA	21937-715AU	05242/067AU1	CEQ	4/15/96	50649/96	11/26/98	695431	ISSUED
BRAZIL	21937-715BR	05242/067BR1	CEQ	4/26/96	P19602098-9			ALLOWED
CANADA	21937-715CA	05242/067CA1	CEQ	4/26/96	2175168	1/19/99	2175168	ISSUED
CHILE	21937-715CL	05242/067CL1	CEQ	4/26/96	665-96			ALLOWED
CHINA	21937-715CN	05242/067CN1	CEQ	4/26/96	96108083.3			ALLOWED
COLOMBIA	21937-715CO	05242/067CO1	CEQ	4/25/96	96020086			ALLOWED
EGYPT	21937-715EG	05242/067EG1	CEQ	4/24/96	368/96	1/31/00	20748	ISSUED
EUROPE ¹²	21937-715EP	05242/067EP1	CEQ	4/23/96	96302844.4			PENDING
INDIA	21937-715IN	05242/067IN1	CEQ	4/22/96	664/MAS/96			PENDING
METHOD AND APPARATUS FOR IMPLEMENTING A THERMODYNAMIC CYCLE (continued)								
INDONESIA	21937-715ID	05242/067ID1	CEQ	4/26/96	P961104			PENDING
ISRAEL	21937-715IL	05242/067IL1	CEQ	4/26/96	117924	10/17/00	117924	ISSUED
JAPAN	21937-715JP	05242/067JP1	CEQ	4/26/96	107560/1996	7/16/99	2954527	ISSUED
MALAYSIA	21937-715MY	05242/067MY1	CEQ	4/18/96	P19601463			PENDING
MEXICO	21937-715MX	05242/067MX1	CEQ	4/26/96	96001575	12/13/99	9600157	ISSUED
NEW ZEALAND	21937-715NZ	05242/067NZ1	CEQ	4/16/96	286378	3/4/98	286378	ISSUED
NORWAY	21937-715NO	05242/067NO1	CEQ	4/26/96	961700	12/13/99	306742	ISSUED
PAKISTAN	21937-715PK	05242/067PK1	CEQ	4/16/96	0211/96	4/16/98	135149	PENDING
PERU	21937-715PE	05242/067PE1	CEQ	4/25/96	286	5/18/99	1220	ISSUED

¹² Regional patent. Countries not designated yet.

EXERGY PATENTS AND PATENT APPLICATIONS

COUNTRY	MDBER.#	AG REF.#	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
ISRAEL	21937-717IL	05242/073IL1	CEQ	2/7/97	120178			PENDING
JAPAN	21937-717JP	05242/073JP1	CEQ	2/10/97	02698097			PENDING
KAZAKHSTAN	21937-717KZ	NONE	DCA	2/7/97		4/14/98	000058	ISSUED
KYRGYZSTAN	21937-717KG	NONE	DCA	2/7/97		4/14/98	000058	ISSUED
MEXICO	21937-717MX	05242/073MX1	CEQ	2/7/97	970995			ALLOWED
MOLDOVA	21937-717MD	NONE	DCA	2/7/97		4/14/98	000058	ISSUED
NEW ZEALAND	21937-717NZ	05242/073NZ1	CEQ	2/10/97	314206		314206	ISSUED
NORWAY	21937-717NO	05242/073NO1	CEQ	2/10/97	970598	2/28/00	307225	ALLOWED
PHILIPPINES	21937-717PH	05242/073PH1	CEQ	2/7/97	1-55519			PENDING
RUSSIA	21937-717RU	NONE	DCA	2/7/97		4/14/98	000058	ISSUED
SOUTH AFRICA	21937-717ZA	05242/073ZA1	CEQ	2/7/97	971039	10/29/97	971039	ISSUED
SOUTH KOREA	21937-717KR	05242/073KRI	CEQ	2/6/97	97-3834			PENDING
TAJKISTAN	21937-717TJ	NONE	DCA	2/7/97		4/14/98	000058	ISSUED
TURKEY	21937-717TR	05242/073TRI	CEQ	2/12/97	971105			PENDING
TURKEMENISTAN	21937-717TM	NONE	DCA	2/7/97		4/14/98	000058	ISSUED
UNITED STATES	21937-717US	05242/073001	NEW	2/9/96	08/598,950	10/20/98	5,822,990	ISSUED
METHOD AND SYSTEM OF CONVERTING THERMAL ENERGY INTO A USEFUL FORM								
AUSTRALIA	21937-719AU	E98101/02101/076AU1	CEQ	9/16/97	4348197	5/19/99	707447	ISSUED
CANADA	21937-719CA	E98101/02101/076CA1	CEQ	9/16/97	2,265,988			PENDING
CHINA	21937-719CN	E98101/02101/076CN1	CEQ	9/16/97	97180438.9			PENDING
EUROPE ¹⁶	21937-719EP	E98101/02101/076EP1	CEQ	9/16/97	97941603.9			PENDING
ISRAEL	21937-719IL	E98101/02101/076IL1	CEQ	3/22/99	129093			PENDING
JAPAN	21937-719JP	E98101/02101/076JP1	CEQ	9/16/97	517534			PENDING
SOUTH KOREA	21937-719KR	E98101/02101/076KRI	CEQ	4/7/99	7002984			PENDING
UNITED STATES	21937-719US	05242/076001	NEW	10/9/96	08731,095	9/14/99	5,950,433	ISSUED
WIPO	21937-719PCT	05242/076W01	CEQ	9/16/97	US97/16285			INACTIVE
METHOD AND APPARATUS OF CONVERTING HEAT TO USEFUL ENERGY								
AUSTRALIA	21937-718AU	E98101/02101/081AU1	CEQ	7/22/99	4110899			ALLOWED
BOSNIA/HERZEGOVINA	21937-718BA	E98101/02101/081BA1	CEQ	7/27/99	BAPP99466A			PENDING
BRAZIL	21937-718BR	E98101/02101/081BR1	CEQ	7/28/99	P19903020-9			PENDING
CANADA	21937-718CA	E98101/02101/081CA1	CEQ	7/22/99	2278393			PENDING
CHINA	21937-718CN	E98101/02101/081CN1	CEQ	7/27/99	99110991.0			PENDING
CROATIA	21937-718HR	E98101/02101/081HRI	CEQ	7/27/99				PENDING
CZECH REPUBLIC	21937-718CZ	E98101/02101/081CZ1	CEQ	7/26/99	PV 2631-99			PENDING
ESTONIA	21937-718EE	E98101/02101/081EE1	CEQ	8/2/99	P19900283			PENDING
EUROPE	21937-718EP	E98101/02101/081EP1	CEQ	7/23/99	99305850.2			PENDING
HUNGARY	21937-718HU	E98101/02101/081HUI	CEQ	7/23/99	P99 02503			PENDING
ICELAND	21937-718IS	E98101/02101/081IS1	CEQ	7/22/99	5127			PENDING
INDIA	21937-718IN	E98101/02101/081INI	CEQ	7/23/99	1005DEL/99			PENDING
INDONESIA	21937-718ID	E98101/02101/081IDI	CEQ	8/23/99	P-990800			PENDING
JAPAN	21937-718JP	E98101/02101/081JP1	CEQ	8/6/99	11(1999)-223802			PENDING
KAZAKHSTAN	21937-718KZ	E98101/02101/081KZ1	CEQ	7/3/99	991559.1			PENDING
LTUHANIA	21937-718LT	E98101/02101/081LTI	CEQ	8/48/99	99-098			PENDING
MEXICO	21937-718MX	E98101/02101/081MX1	CEQ	8/4/99	9907203			PENDING
NEW ZEALAND	21937-718NZ	E98101/02101/081NZ1	CEQ	7/26/99	336916			PENDING

¹⁶ Regional patent. Countries not designated yet.

EXERGY PATENTS AND PATENT APPLICATIONS

COUNTRY	MOBE REF. #	AG REF. #	TYPE	FILED	SERIAL#	ISSUED	PATENT#	STATUS
NORWAY	21937-718NO	E9810102101081ND1	CEQ	7/23/99	1999 3596			PENDING
POLAND	21937-718PL	E9810102101081PL1	CEQ	8/13/99	P-334914			PENDING
RUSSIA	21937-718RU	E9810102101081RU1	CEQ	7/28/99	99116330			PENDING
SOUTH AFRICA	21937-718ZA	E9810102101081SA1	CEQ	7/23/99	994752	3/29/00	994752	ALLOWED
SOUTH KOREA	21937-718KR	E9810102101081KR1	CEQ	7/23/99	99-0029993			PENDING
TURKEY	21937-718TR	E9810102101081TR1	CEQ	4/8/99	99/1852			PENDING
UKRAINE	21937-718UA	E9810102101081UA1	CEQ	7/30/99	99074414			PENDING
UNITED STATES	21937-718US	00342081001	NEW	2/5/98	09/019,476	9/21/99	5,953,918	ISSUED
GAS PIPELINE COMPRESSOR STATIONS WITH KALINA CYCLES								
UNITED STATES	21937-720US	NONE	NEW			11/6/00	60/246,251	PENDING
KALINA CYCLE WITH INTEGRATED AIR CHILLER								
UNITED STATES	21937-721US	NONE	NEW					NOT FILED YET

New = Original Application

Div = Divisional

Con = Continuation

CEQ = Country Equivalent = New (R62 no longer used)

DCA = Designated Country Application, U.S. Application Designated

CIP = Continuation in Part