08-17-2001



U.S. DEPARTMENT OF COMMERCE

	13944 U.S. Patent and Trademark Office
OMB No. 0651-0027 (exp. 5/31/2002)  Tab settings	<b>Y Y Y</b>
	Please record the attached original documents or copy thereof.
1 Name of conveying party(ies): Hydrogen Burner Techology, Inc. 19300 Susana Road Rancho Dominguez, CA 90221	2. Name and address of receiving party(ies)  Name: SOFINOV, Societe Financiere d'Innovation Internal Address:
Additional name(s) of conveying party(ies) attached? 🖳 Yes 🥾 No	
3. Nature of conveyance:	
Assignment Merger  Security Agreement Change of Name	Street Address: <u>1981, Avenue McGill</u>
□ Other	_College
Execution Date May 15, 2001 with amendment dated June 22, 2001	City:MontréalState:Quebec_ZipH3A_307 Country: Canada Additional name(s) & address(es) attached?   Yes X No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new appli	cation, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
SEE CONTINU	
Additional numbers attached? Say Yes □ No 5974679 §	
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 17
Name:Eric van Ginkel	7. Total fee (37 CFR 3.41)\$ 680.00
	☐ Enclosed
Internal Address:	· · ·
Internal Address:	Enclosed  XX Authorized to be charged to deposit account
Internal Address:	· · ·
Internal Address:	Authorized to be charged to deposit account
	Authorized to be charged to deposit account  8. Deposit account number:  08-3264 - Hughes Hubbard & Reed LLP
Street Address: Hughes Hubbard & Reed LLP	Authorized to be charged to deposit account  8. Deposit account number:
Street Address: Hughes Hubbard & Reed LLP  350 S. Grand Avenue, 36th Floor  City: Los AngelesState: CA Zip: 90071	Authorized to be charged to deposit account  8. Deposit account number:  08-3264 - Hughes Hubbard & Reed LLP
Street Address: Hughes Hubbard & Reed LLP  350 S. Grand Avenue, 36th Floor  City: Los AngelesState: CA Zip: 90071  DO NOT USE  9. Statement and signature.	Authorized to be charged to deposit account  8. Deposit account number:  08-3264 - Hughes Hubbard & Reed LLP  (Attach duplicate copy of this page if paying by deposit account)  THIS SPACE
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Street Address: Hughes Hubbard & Reed LLP  350 S. Grand Avenue, 36th Floor  City: Los AngelesState: CA Zip: 90071  DO NOT USE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is a true copy of the original document.  Eric van Ginkel  Name of Person Signing	Authorized to be charged to deposit account  8. Deposit account number:  08-3264 - Hughes Hubbard & Reed LLP  (Attach duplicate copy of this page if paying by deposit account)  E THIS SPACE  information is true and correct and any attached copy  Signature  Signature  Date
Street Address: Hughes Hubbard & Reed LLP  350 S. Grand Avenue, 36th Floor  City: Los AngelesState: CA Zip: 90071  DO NOT USE  9. Statement and signature.  To the best of my knowledge and belief, the foregoing is a true copy of the original document.  Eric van Ginkel  Name of Person Signing	Authorized to be charged to deposit account  8. Deposit account number:

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Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

#### 4. Application Numbers(s) or Patent Number(s)

#### Patent Application No.

09/240, 298

09/318,695

09/512,727

09/618,527

09/732, 230

09/827,258

09/827,257

#### Patent No.

US 5,207,185

US 5,299,536

US 5,437,123

US 5,441,546

US 5,529,484

US 5,546,701

US 5,728,183

US 5,944,510

US 6,033,793

US 6,089,859

1 of 1 pages

#### SECURITY AGREEMENT

THIS SECURITY AGREEMENT (this "Agreement") is entered into as of the 15th day of May, 2001, by and between Hydrogen Burner Technology, Inc., a Delaware corporation ("Obligor"), with an address at 19300 Susana Road, Rancho Dominguez, California 90221, and SOFINOV Société Financière d'Innovation, a Québec corporation ("Secured Party"), with an address at 1981, Avenue McGill College, Montréal, Québec H3A 3C7, Canada.

WHEREAS, concurrent with the execution hereof, Obligor, as borrower, and Secured Party, as lender, have entered into a bridge loan agreement ("Loan Agreement No. 4", and together with that certain bridge loan agreement dated as of December 22, 2000, that certain bridge loan agreement dated as of March 23, 2001, the "Loan Agreements"), pursuant to which Secured Party has agreed to make a loan available to Obligor in the amount of \$1,000,000 in two Tranches (the "Loan", and together with the loans made by Secured Party to Obligor pursuant to the other Loan Agreements, the "Loans");

WHEREAS, Tranche II of the Loan is being made on the condition that the Loans are first secured by a security interest in the Collateral described in Paragraph 2 below (the "Collateral").

#### **AGREEMENT**

NOW THEREFORE, in consideration of the Loan provided by Secured Party to Obligor under Loan Agreement No. 4, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

- 1. <u>Grant of Security Interest</u>. In order to secure payment of all principal amounts, interest, costs and fees payable under the Loans by Obligor to Secured Party and/or its successors and assigns which are now due or hereafter become due from Obligor, its predecessors, successors and present and former officers, directors and affiliates, and the performance of all of the obligations of Obligor under the Loan Agreements and this Security Agreement (collectively and severally, the "Obligations"), Obligor hereby grants to Secured Party a continuing security interest in the Collateral.
- 2. Collateral. The Collateral under this Security Agreement consists of:
  - (a) All right, title and interest of Obligor in and to the following Intellectual Property:
    - (i) all United States and foreign (i) patents, patent applications and recordations of assignments, including, without limitation, the patents listed on **Schedule 2(a)** attached hereto and made a part hereof by this reference;
    - (ii) trademark registrations (including material Internet domain registrations) and applications and material unregistered trademarks;

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- (iii) copyright registrations and applications, indicating for each, the applicable jurisdiction, registration number (or application number), and date issued (or date filed);
- (iv) all agreements to which Obligor is party related to the rights and ownership of Intellectual Property; and
- (v) all trade secrets, company know-how, technical ideas and concepts prosecuted to patent applications, no matter how evidenced.
- (b) All rights, interests, claims and causes of action (collectively, "Claims") of Obligor against any third party which relate in any manner to Obligor's Intellectual Property; and
- (c) Any and all proceeds of the foregoing Collateral.
- 3. <u>Affirmative Covenants of Obligor</u>. Until the Obligations have been paid and performed in full, Obligor shall:
  - (a) Furnish and cause to be furnished to Secured Party such information concerning Obligor and the Collateral as Secured Party may from time to time request;
  - (b) Permit Secured Party to institute and maintain actions or other proceedings on the Claims in the name of Obligor, to settle, compromise or assign the Claims and to give releases thereof in the name of Obligor in full discharge of liability thereunder;
  - (c) Use its best efforts to preserve, protect and enhance the value of the Collateral; and
  - (d) Pay all charges of any nature against the Collateral.
- 4. Negative Covenant. Until the Obligations have been paid and performed in full, Obligor shall not, without the prior written consent of Secured Party, sell, assign, transfer or create or permit to exist any lien or security interest in the Collateral or any portion thereof in favor of anyone other than Secured Party.
- 5. Representations and Warranties. Obligor represents and warrants that it has full right, power and authority to execute and deliver this Security Agreement, that it owns all of the Collateral free of any lien, charge, encumbrance or other adverse interest, and that it has not previously sold, assigned, transferred or created or permitted to exist any lien or security interest in the Collateral or any portion thereof in favor of anyone other than Secured Party.
- 6. Events of Default; Remedies. Upon the occurrence of any of the following (an "Event of Default"):
  - (a) Failure of Obligor to pay or perform the Obligations or any portion thereof when due, or failure to observe or perform any term or provision of this Security Agreement or any Loan Agreement; or

(b) The termination of business, dissolution or insolvency of Obligor or the commencement of any bankruptcy, receivership or similar proceeding under bankruptcy or debtor's relief laws by or against Obligor:

THEN, Secured Party may, at its option: (a) without notice, declare all Obligations immediately due and payable and proceed to collect the same; (b) foreclose or otherwise enforce Secured Party's security interest in the Collateral in any manner permitted by law. (c) sell or otherwise dispose of the Collateral or any portion thereof at one or more public or private sales, on such terms and in such manner as Secured Party may determine; and (d) apply all sums received or collected from or on account of the Collateral, including. without limitation, the proceeds of any sale thereof, to the payment of (i) the costs and expenses incurred in preserving and enforcing the rights of Secured Party in effecting a sale of the Collateral (including, without limitation, reasonable attorneys' fees and legal expenses) and (ii) the Obligations in such order and manner as Secured Party, in its sole discretion, elects.

- 7. Cumulative Rights. Secured Party shell have all the rights, powers and remedies of a secured party under the California Commercial Code. All of the rights, powers and remedies of Secured Party under this Security Agreement shall be in addition to all rights, powers and remedies given to Secured Party by any statute or rule of law, or other agreement, shall be cumulative and may be exercised successively or concurrently without impairing or in any way affecting Secured Party's security interest in the Collateral.
- 8. Waiver. Any forbearance, or failure or delay by Secured Party in exercising any right, power or remedy, shall not preclude the further exercise thereof, and every right, power or remedy of Secured Party shall continue in full force and effect unless such right, power or remedy is specifically waived in writing by Secured Party. Obligor waives any right to require Secured Party to proceed against any person or to exhaust any Collateral or to pursue any remedy in Secured Party's power and any right of subrogation and any right to participate in the Collateral until all Obligations have been paid or performed in full.
- 9. Cooperation. Obligor shall from time to time execute and deliver to Secured Party, at its request, any instruments, including, without limitation, appropriate financing statements, and will perform any and all acts deemed necessary by Secured Party to carry into or continue in effect the terms, conditions and provisions of this Security Agreement and the transactions connected herewith. Should Obligor fail to execute or deliver any such instruments or to perform any such acts. Obligor hereby irrevocably authorizes and appoints Secured Party to execute and deliver such instruments and to perform such acts in the name of Obligor and on its behalf as its attorney-in-fact.
- 10. Notices. All notices, requests and other communications hereunder shall be in writing and shall be deemed given upon receipt if either (a) personally delivered, (b) sent by prepaid first class mail, and registered or certified and a return receipt requested or (c) by facsimile telecopier with completed transmission acknowledged:

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#### If to Obligor:

Hydrogen Burner Technology, Inc. 19300 Susana Road Rancho Dominguez, California 90221

Fax: 310-900-0410

Attention: President and CEO

#### With a copy to:

Manatt, Phelps & Phillips, LLP 11355 West Olympic Boulevard. Los Angeles, California 90664

Fax: 310-312-4224

Attention: John Sarafopoulos

#### If to Secured Party:

SOFINOV Société Financière d'Innovation, Inc. 1981, Avenue McGill College Montréal, Québec H3A 3C7 Canada

Fax: (514) 847-2628

Attention: Denis Dionne, President

#### With a copy to:

Hughes Hubbard & Reed LLP Two California Plaza 350 South Grand Avenue, 36th Floor Los Angeles, California 90071-3442

Fax: (213) 613-2950

Attention: Eric van Ginkel

11. Miscellaneous. This Security Agreement shall be governed by and construed in accordance with the laws of the State of California, and, where applicable and except as otherwise defined herein, the terms used herein shall have the meanings given them in the California Commercial Code. If any of the provisions of this Security Agreement shall be held invalid or unenforceable, this Security Agreement shall be construed as not containing those provisions and all rights and obligations of the parties hereto shall be construed and enforced accordingly. Time is of the essence of this Security Agreement. This Security Agreement shall be binding on Obligor, its successors and assigns.

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

By\_

#### HYDROGEN BURNER TECHNOLOGY, INC.

D'INNOYATION, INC

Name:

Title:

By

EDWARD SICCT Name:

Title:

DIKECTUR

#### Schedule 2a

## List of United States Patents and Patent Applications Owned by Hydrogen Burner Technology, Inc.

#### 1. Patents

- US 5,207,185 Apparatus and Method for decreasing Nitrogen Oxide Emissions From Internal Combustion Power Sources.
- US 5,299,536 Apparatus and Method for decreasing Nitrogen Oxide Emissions From Internal Combustion Power Sources.
- US 5,437,123 Underoxidized Burner Utilizing Improved Injectors.
- US 5,441,546 Apparatus and Method for decreasing Nitrogen Oxide Emissions From Internal Combustion Power Sources.
- US 5,529,484 Apparatus and Method for decreasing Nitrogen
   Oxide Emissions From Internal Combustion Power Sources.
- US 5,546,701 -- Underoxidized Burner Utilizing Improved Injectors.
- US 5,728,183 Shift Reactor for Use with an Underoxidized Burner.
- o US 5,944,510 Dynamic Fluid Injector.
- US 6,033,793 Integrated Power Module.
- o US 6,089,859 Reduced Carbon form Underoxidized Burner.

#### 2. Patents Pending

- o PP 09/240,298
- o PP 09/318,695
- o PP (# not assigned, filed 4/5/01)
- o PP-CIP 09/512,727
- o PP-CIP 09/618,527
- o PP 00/732,230
- o PP (# not assigned, filed 4/5/01)

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#### 3. Patent Applications

- o Appl HbT-004-103
- o Appl HbT-008-104
- o Appl HbT-008-105



1 of 2 pages

- o Appl HbT-008-106
- Appl HbT-008-107
- o Appl HbT-009-101
- o Appl HbT-010-101



2 of 2 pages

### FIRST AMENDMENT TO THE SECURITY AGREEMENT

THIS FIRST AMENDMENT to that certain security agreement (the "Security Agreement") entered into as of May 15, 2001 ("this Amendment") is entered into as of the 22nd day of June, 2001, by and between Hydrogen Burner Technology, Inc., a Delaware corporation ("Obligor"), with an address at 19300 Susana Road, Rancho Dominguez, California 90221, and SOFINOV Société Financière d'Innovation, a Québec corporation ("Secured Party"), with an address at 1981, Avenue McGill College, Montréal, Québec H3A 3C7, Canada.

#### **RECITALS**

WHEREAS, as of May 15, 2001, the parties entered into the Security Agreement, pursuant to which Obligor granted Secured Party a continuing security interest in the Collateral (as defined therein) in order to secure payment of all principal amounts, interest, costs and fees payable under the Loans (as defined therein) by Obligor to Secured Party;

WHEREAS, concurrent with the execution hereof, Obligor, as borrower, and Secured Party, as lender, have entered into a bridge loan agreement ("Bridge Loan Agreement No. 5"), pursuant to which Secured Party has agreed to make a loan available to Obligor in the amount of \$1,000,000 (the "Loan", and together with the loans made by Secured Party to Obligor pursuant to the other Loan Agreements [as hereinafter defined], the "Loans");

WHEREAS, in consideration of Secured Party's entering into that certain Bridge Loan Agreement No. 5 of even date herewith, the parties desire to amend the wording of Section 1 of the Security Agreement to extend the purpose of the continuing security interest in the Collateral to include the Loan and all other indebtedness of Obligor to Secured Party, including without limitation, all future indebtedness.

#### **AGREEMENT**

NOW THEREFORE, in consideration of the mutual covenants herein contained and for other good and valuable consideration, including without limitation the Loan provided by Secured Party to Obligor under Bridge Loan Agreement No. 5, the receipt and sufficiency of which are hereby conclusively acknowledged, the parties hereto agree as follows:

LA First Amendment to Security Agreement

Article 1. Certain Defined Terms. Terms used herein with their initial letters capitalized, and not otherwise defined herein, shall have the respective meanings given to such terms in the Security Agreement.

Article 2. Amendment of the first "WHEREAS" clause of the Security Agreement. The first "Whereas" clause of the Security Agreement is hereby amended to read in its entirety as follows:

"WHEREAS, Obligor, as borrower, and Secured Party, as lender, have entered into a number of bridge loan agreements, respectively dated as of December 22, 2000, February 16, 2001, March 23, 2001, May 15, 2001 and June 22, 2001 (collectively, the "Loan Agreements"), pursuant to which Secured Party has agreed to make certain loans available to Obligor (the "Loans");"

Article 3. Amendment of Section 1 of the Security Agreement. Section 1 of the Security Agreement is hereby amended to read in its entirety as follows:

"1. Grant of Security Interest. In order to secure payment of (i) all principal amounts, interest, costs and fees payable under the Loans by Obligor to Secured Party and/or its successors and assigns which are now due or hereafter become due from Obligor, its predecessors, successors and present and former officers, directors and affiliates, (ii) all other indebtedness by Obligor to Secured Party and/or its successors and assigns, whether present or future indebtedness, and whether now due or hereafter becoming due to Obligor, its predecessors, successors and present and former officers, directors and affiliates, and (iii) the performance of all of the obligations of Obligor under the Loan Agreements and this Security Agreement (collectively and severally, the "Obligations"), Obligor hereby grants to Secured Party a continuing security interest in the Collateral."

Article 4. Counterparts. This Amendment may be executed in one or more counterparts and by facsimile, each of which shall be an original, but all of which together shall constitute one and the same instrument.

Article 5. Governing Law. This Amendment shall be governed by and construed in accordance with the laws of the State of California, excluding any conflicts or choice of law rule or principle that might otherwise refer construction or interpretation of this Amendment to the substantive law of another jurisdiction.

Article 6. Entire Agreement. The Security Agreement and this Amendment constitute the entire agreement among the parties with respect to the subject matter of the

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Security Agreement and supersede all other prior agreements and understandings, both oral and written, between the parties with respect to the subject matter hereof and thereof.

Article 7. Captions. The captions herein are included for convenience of reference only and shall be ignored in the construction or interpretation hereof. IN WITNESS WHEREOF, the parties hereto have executed this Amendment as of the date first set forth above.

HYDROGEN BURNER TECHNOLOGY, INC.

Name: M. HARES H. BURKES
Title: CHUR FORMUN DERIC

SOFINOV SOCIÉTÉ FINANCIÈRE D'INNOVATION, INC.

Name: L-C CHARRY

Title:

Mama:

Title:

PRESIDEN

**RECORDED: 08/13/2001**