

Form PTO-1594 (Rev. 07/05)
OMB Collection 0651-0027 (exp. 6/30/2008)

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

RECORDATION FORM COVER SHEET TRADEMARKS 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):

Reaction Design, Inc.

- Individual(s) Association
- General Partnership Limited Partnership
- Corporation- State: California
- Other _____

Citizenship (see guidelines) _____

Additional names of conveying parties attached? Yes No

3. Nature of conveyance)/Execution Date(s) :

Execution Date(s) 10/13/04

- Assignment Merger
- Security Agreement Change of Name
- Other _____

2. Name and address of receiving party(ies)

Additional names, addresses, or citizenship attached? Yes No

Name: Bridge Bank, National Association

Internal Address: _____

Address: _____

Street Address: 55 Almaden Blvd.

City: San Jose

State: CA

Country: United States Zip: 95113

- Association Citizenship United States
- General Partnership Citizenship _____
- Limited Partnership Citizenship _____
- Corporation Citizenship _____
- Other _____ Citizenship _____

If assignee is not domiciled in the United States, a domestic representative designation is attached: Yes No
(Designations must be a separate document from assignment)

4. Application number(s) or registration number(s) and identification or description of the Trademark.

A. Trademark Application No.(s)

B. Trademark Registration No.(s)

2746988

Additional sheet(s) attached? Yes No

C. Identification or Description of Trademark(s) (and Filing Date if Application or Registration Number is unknown):

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

Name: Bridge Bank, National Association

Internal Address: _____

Street Address: 55 Almaden Blvd.

City: San Jose

State: CA Zip: 95113

Phone Number: 408-556-8300

Fax Number: 408-423-8510

Email Address: _____

6. Total number of applications and registrations involved:

1

7. Total fee (37 CFR 2.6(b)(6) & 3.41) \$ 40.00 (paid)

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed

8. Payment Information:

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature

Signature

Date

Jennifer Acevedo

Name of Person Signing

Total number of pages including cover sheet, attachments, and document: 9

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT, dated as of October 13, 2004, (the "Agreement") between BRIDGE BANK, NATIONAL ASSOCIATION ("Lender") and Reaction Design, ("Grantor") is made with reference to the Business Financing Agreement, dated as of October 13, 2004 (as amended from time to time, the "Financing Agreement"), between Lender and Grantor. Terms defined in the Financing Agreement have the same meaning when used in this Agreement.

For good and valuable consideration, receipt of which is hereby acknowledged, Grantor hereby covenants and agrees as follows:

To secure the Obligations under the Financing Agreement, Grantor grants to Lender a security interest in all right, title, and interest of Grantor in any of the following, whether now existing or hereafter acquired or created in any and all of the following property (collectively, the "Intellectual Property Collateral"):

(a) copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held (collectively, the "Copyrights"), including the Copyrights described in Exhibit A;

(b) trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Borrower connected with and symbolized by such trademarks (collectively, the "Trademarks"), including the Trademarks described in Exhibit B;

(c) patents, patent applications and like protections including without limitation improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same (collectively, the "Patents"), including the Patents described in Exhibit C;

(d) mask work or similar rights available for the protection of semiconductor chips or other products (collectively, the "Mask Works");

(e) trade secrets, and any and all intellectual property rights in computer software and computer software products;

(f) design rights;

(g) claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works, and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(i) amendments, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

The rights and remedies of Lender with respect to the security interests granted hereunder are in addition to those set forth in the Financing Agreement, and those which are now or hereafter available to Lender as a matter of law or equity. Each right, power and remedy of Lender provided for herein or in the Financing Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein, and the exercise by Lender of any one or more of such rights, powers or remedies does not preclude the simultaneous or later exercise by Lender of any other rights, powers or remedies.

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

GRANTOR:

REACTION DESIGN

By: *David H. Klipstein*
Name: DAVID H. KLIPSTEIN
Title: PRESIDENT/CEO

Address for Notices:

Attn:

6440 Lusk Boulevard, Suite D205
San Diego, California 92121
Fax: (858) 550-1925

LENDER:

BRIDGE BANK, NATIONAL ASSOCIATION

By: *Michael J. Field*
Name: Michael J. Field
Title: EVP

Address for Notices:

Attn: Mike Field

2120 El Camino Real
Santa Clara, CA 95050
Tel: (408) 556-6501
Fax: (408) 423-8510

EXHIBIT A
COPYRIGHTS

Description

Registration/
Application
Number

Registration/
Application
Date

SEE ATTACHED

Inside all of our code segments we have the statement:

Copyright (c) 1997-2004 Reaction Design. All rights reserved.

which we update every year. This statement is also printed to the top of output files generated by our software. Here's an example header from an output file: -----
begin example header-----

```
*****  
*                               CHEMKIN Release 4.0                               *  
*                               PREMIX Application                               *  
*                               PREMIXED LAMINAR FLAME MODEL                       *  
* Copyright(c) 1997-2004 Reaction Design. All Rights Reserved. *  
*****
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EXHIBIT B
TRADEMARKS

Description

Registration/
Application
Number

Registration/
Application
Date

SEE ATTACHED

Reaction Design's Worldwide Trademarks

Oct 14, 2004

Mark	Country	Owner	Status	App. No./Date	Reg. No./Date	Int'l. Classes	Docket No.
REACTION DESIGN	United States of America	Reaction Design	Pending	76/460914 10/22/2002		9, 42	037010-0501
REACTION DESIGN	European Union	Reaction Design	Pending	3181153 4/22/2003		9, 42	037010-0502
REACTION DESIGN	Japan	Reaction Design	Registered	2003-32737 4/22/2003	4729243 11/28/2003	9, 42	037010-0503
REACTION DESIGN	Korea (South)	Reaction Design	Pending	45-2003-1460 4/22/2003		9	037010-0504
REACTION DESIGN	China	Reaction Design	Published	3582262 6/5/2003		42	037010-0505
REACTION DESIGN	China	Reaction Design	Pending	3582263 6/5/2003		41	037010-0505/A
REACTION DESIGN	China	Reaction Design	Pending	3580656 6/5/2003		9	037010-0505/B
REACTION DESIGN	India	Reaction Design	Pending	1193791 4/22/2003		9	037010-0506
REACTION DESIGN	Korea (South)	Reaction Design	Pending	41-2004-13802 6/22/2004		42	037010-0507
CHEMKIN	United States of America	Reaction Design	Registered	76/460913 10/22/2002	2746988 8/5/2003	9	037010-0601
CHEMKIN	European Union	Reaction Design	Pending	3182301 4/22/2003		9	037010-0602
CHEMKIN	Japan	Reaction Design	Registered	2003-32738 4/22/2003	4729244 11/28/2003	9	037010-0603
CHEMKIN	Korea (South)	Reaction Design	Registered	40-2003-18248 4/22/2003	585743 6/23/2004	9	037010-0604

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Reaction Design's Worldwide Trademarks

Oct 14, 2004

Mark	Country	Owner	Status	App. No./Date	Reg. No./Date	Int'l. Classes	Docket No.
CHEMKIN	China	Reaction Design	Pending	3580655 6/4/2003		9	037010-0605
CHEMKIN	India	Reaction Design	Pending	1193790 4/22/2003		9	037010-0606
			Published				



EXHIBIT C

PATENTS

Description	Registration/ Application Number	Registration/ Application Date
SYSTEM FOR INFORMATION EXCHANGE FOR INTEGRATION OF MULTIPLE DATA SOURCES	037010-0106	
METHOD AND SYSTEM FOR INTEGRATED UNCERTAINTY ANALYSIS	037010-0105	