Form PTO-1595 (Rcv. 08/05) OMB No. 0651-0027 (exp. 6/30/2008)	U.S. DEPARTMENT OF COMMERC United States Patent and Trademark Office		
_	ORM 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(les)	2. Name and address of receiving party(les)		
High Throughput Genomics, Inc.	Name: Solstice Capital TI, I.P.		
	Internal Address:		
Additional name(s) of conveying party(les) attached? Yes X No			
3. Nature of conveyance/Execution Date(s):	Street Address: 15 Broad Street, 3rd Ploor		
Execution Date(s) 09/28/2006			
Assignment Merger			
X Security Agreement Change of Name	City: Boston		
Joint Research Agreement	State: MA		
Government Interest Assignment	Country: USA Zip: 02109		
Executive Order 9424, Confirmatory License			
Other	Additional name(s) & address(es) attached? X Yes No		
4. Application or patent number(s): A. Patent Application No.(s)	document is being filed together with a new application. B. Patent No.(s)		
A. Faterit Application No.(5)	6,083,763; 6,232,066; 6,238,869;		
	6,312,960; 6,479,301; 6,331,441;		
	6,458,533; 6,803,238; 6,919,180		
	ached? Yes KNo		
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 9		
Name: Kent M. Walker, Reg.			
Cooley Godward Kronish, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 360		
111011101111011110111111111111111111111	Authorized to be charged by credit card Authorized to be charged to deposit account		
Street Address: 4401 Eastgate Mall	Enclosed		
Coloct / Odi Cos. Tros massigned Intil	None required (government interest not affecting title)		
City: San Diego	8. Payment Information		
	a. Credit Card Last 4 Numbers		
	Expiration Date		
Phone Number: 858 550-6000	b. Deposit Account Number 03-3117		
Fax Number: 838 350-6420 Email Address: trademarks@cooley.com	Authorized User Name William Galliani		
9. Signature:	10-33-0G		
Signature Date William S. Galliani Total number of pages including cover			
Name of Person Signing sheet, attachments, and documents:			

Documents to be recorded (including cover sheet) should be fexed to (671) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1459, Alexandria, V.A. 22313-1450

2, Receiving Parties (Cont'd)

Valley Ventures III, L.P. 80 E. Rio Salado Pkwy, Ste. 705 Tempe, AZ 85281 Fax: (520) 327-5665 Attention: Lawrence J. Aldrich

Village Ventures Partners Fund, L.P. c/o Village Ventures, Inc. 430 Main Street, Suite I Williamstown, MA 01267 Fax: (413) 458-0338

Attention: President

Village Ventures Partners Fund A, L.P. c/o Village Ventures, Inc. 430 Main Street, Suite 1 Williamstown, MA 01267 Fax: (413) 458-0338 Attention: President

VVN, LLC c/o Village Ventures, Inc. 430 Main Street, Suite 1 Williamstown, MA 01267 Fax: (413) 458-0338 Attention: President

- Ralph R. Martel 6726 N. Calle Zella Tucson, AZ 85718
- 6. Constance A. Junghans 1829 S. Deer Head Place Tucson, AZ 85748
- Michael Cusack 5018 Valley View Road Tucson, AZ 85718
- Lawrence J. Aldrich 6045 E. Fangio Place

Oct-23-06 04:58pm From-COOLEY GODWARD LLP 650 857 0663 T-942 P.004/013 F-749

Tucson, AZ 85750

- 9. E. William Radany 5800 N. Kolb Road, #2108 Tucson, AZ 85750
- Kirk Collamer
 12333 N. Red Mountain Drive
 Tucson, AZ 85755-6553
- 11. Seligmann-Junghans Family Trust U/A/D July 9, 19996290 N. Nirvana PlaceTucson, AZ 85750

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (the "Agreement") is entered into as of September 28, 2006 by and between High Throughput Genomics, Inc., a Delaware corporation having a principal place of business at 6296 E. Grant Rd., Tucson, Arizona 85712 (the "Company"), and Solstice Capital II, L.P., as agent for and on behalf of the Purchasers (as defined below) (the "Agent", which term shall include any successor Agent appointed in accordance with the terms of the Security Agreement (as defined below)).

WHEREAS, the Company has entered into a Note and Warrant Purchase Agreement, dated as of the date hereof and as may be amended from time to time (the "Purchase Agreement"), with those purchasers listed on the Schedule of Purchasers thereto (the "Purchasers"), and the Company, the Purchasers and the Agent have entered into a Security Agreement dated as of the date hereof and as may be amended from time to time (the "Security Agreement");

WHEREAS, the Purchasers have purchased or will purchase from the Company certain convertible secured promissory notes (the "Notes") pursuant to the provisions of the Purchase Agreement; and

WHEREAS, it is a condition to the obligation of the Purchasers to purchase the Notes that the Company shall have executed and delivered this Agreement,

NOW, THEREFORE, in consideration of the premises and to induce the Purchasers to purchase the Notes and for other good and valuable consideration, the Company hereby agrees with the Agent on behalf of the Purchasers as follows:

- 1. <u>Defined Terms</u>. All capitalized terms used herein and not defined herein shall have the meanings ascribed to such terms in the Security Agreement.
- 2. Grant of Security Interest. To secure the Company's prompt, punctual, and faithful performance of all and each of the Company's Obligations (whether at the stated maturity, by acceleration or otherwise) to the Purchasers, the Company hereby grants to the Agent as secured party for the benefit of the Purchasers a continuing security interest in and to all its now owned and existing or hereafter acquired Intellectual Property (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto) that may have been or may hereafter be granted in the United States of America or foreign countries, and all reissues, divisions, continuations, renewals, extensions, and continuations-in-part thereof and all improvements made thereon, together with all rights to bring actions for past, present, and future infringements and all rights corresponding thereto, and all proceeds of any of the foregoing (including without limitation license royalties and proceeds of infringement suits). Notwithstanding anything to the contrary contained in this Agreement, (i) the Purchasers shall share Ratably in all proceeds from or distributions of or with respect to the Collateral and (ii) the execution of this Agreement by the Agent shall not affect any of the rights granted to the

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Purchasers in the Security Agreement, and all power or authority to act hereunder on behalf of the Purchasers conferred upon the Agent may be exercised only upon the written consent or authorization of the Requisite Holders.

- Company Representation. The Company represents and warrants that Exhibits A, B, and C attached hereto set forth any and all intellectual property rights in connection to which the Company has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable. If the Company shall purchase, register or otherwise acquire rights to any new Intellectual Property, the provisions of Section 2 hereof shall automatically apply thereto and the Company shall take any other action reasonably necessary to record the Purchasers' interest in such Intellectual Property with the United States Patent and Trademark Office and/or the United States Copyright Office, as applicable.
- Remedies. If there occurs an Event of Default, the Agent on behalf of the Purchasers shall be entitled to exercise any and all remedies available to the Purchasers under the Security Agreement for the benefit of all Purchasers only upon the written consent or authorization of the Requisite Holders,
- Notices. All notices, requests, demands and other communications provided for hereunder shall be in writing and shall be given as provided in Section 20 of the Security Agreement.
- Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.
- Headings. The headings of the various sections of this Agreement have been inserted for convenience of reference only and shall not be deemed to be a part of this Agreement.
- 8. Governing Law. This Agreement shall be governed by and construed in accordance with the law of the State of Delaware without giving effect to the conflicts of law principles thereof.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the Company and the Agent have caused this Agreement to be executed as an instrument under seal as of the date first above written.

Title:____

[Signature Page to IP Socurity Agreement]

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IN WITNESS WHEREOF, the Company and the Agent have caused this Agreement to be executed as an instrument under seal as of the date first above written.

COMPANY:

HIGH THROUGHPUT GENOMICS, INC.

By:
Name: Kirk Collamer
Title: Vice President & Chief Financial Officer

AGENT:

SOLSTICE CAPITAL II, L.P.

By: Solatice Capital LLC its general partner

Name: HARRY A. CS

Title: EXECUTIVE MOUDGO

[Signature Page to IP Security Agreement]

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Oct-23-06 04:59pm From-COOLEY GODWARD LLP 650 857 0663 T-942 P.009/013

EXHIBIT A

COPYRIGHTS

Registration Number Registration <u>Date</u> F-749

<u>Description</u> None

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EXHIBIT B PATENTS AND PATENT APPLICATIONS

Patent#	Country	<u>Issue</u> Date	Description
6,083,763	U.S,	7/4/0 0	Multiplexed molecular analysis apparatus and method
6,232,066	U.S.	5/15/01	High throughput assay system
6,238,869	U.S.	5/29/01	High throughput assay system
6,312,960 B1	U.S.	11/6/01	Methods for fabricating an array for use in multiplexed biochemical analysis
6,331,441	U.S.	12/18/01	Multiplexed molecular analysis apparatus and method
6,458,533 B21	U.S.	10/1/02	High throughput assay system for monitoring EST's
6,479,301 B1	U.S.	11/12/02	Methods for fabricating an array for use in multiplexed biochemical analysis
6,803,238	U.S.	10/12/04	Methods for multiplexed biochemical analysis
6,919,180	U.S.	7/19/05	Hybridization rate enhancement for substrate-bound specific nucleic acid- binding agents

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Oct-23-06 04:59pm From-COOLEY GODWARD LLP 650 857 0663 T-942 P.011/013 F-749

EXHIBIT C

TRADEMARKS

<u>Numb</u>

Registration <u>Number</u> Registration <u>Date</u>

51297) v3/SD

None

SCHEDULE OF PURCHASERS

INITIAL CLOSING				
Name and Address	Loan Amount			
Solstice Capital II, L.P.				
15 Broad Street, 3rd Floor				
Boston, MA 02109				
Fax: (617) 523-5827				
Attention: Henry Newman				
Valley Ventures III, L.P.				
80 E. Rio Salado Pkwy, Ste. 705				
Tempe, AZ 85281				
Fax: (520) 327-5665				
Attention: Lawrence J. Aldrich				
Village Ventures Partners Fund, L.P.				
c/o Village Ventures, Inc.				
430 Main Street, Suite 1				
Williamstown, MA 01267				
Fax: (413) 458-0338				
Attention: President	1 .			
With a copy to:				
Village Ventures, Inc.				
430 Main Street, Suite 1	!			
Williamstown, MA 01267				
Fax: (413) 458-0338				
Attention: Senior Vice President and				
General Counsel				
General Council				
Village Ventures Partners Fund A, L.P.				
c/o Village Ventures, Inc.	1			
430 Main Street, Suite 1				
Williamstown, MA 01267				
Fax: (413) 458-0338				
Attention: President				
·				
With a copy to:				
Village Ventures, Inc.				
430 Main Street, Suite 1				
Williamstown, MA 01267				
Fax: (413) 458-0338	·			
Attention: Senior Vice President and				
General Counsel				

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INITIAL CLOSING			
Name and Address	Loan Amount		
VVN, LLC			
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Attention: President			
With a copy to:			
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Attention: Senior Vice President and			
General Counsel	·		
Ralph R. Martel	·		
6726 N. Calle Zella			
Tucson, AZ 85718			
Constance A. Junghans			
1829 S. Deer Head Place			
Tucson, AZ 85748			
,- <u>-</u>			
Michael Cusack	'		
5018 Valley View Road			
Tucson, AŽ 85718			
Lawrence J. Aldrich			
6045 E. Fangio Place			
Tucson, AZ 85750			
E, William Radany			
5800 N. Kolb Road, # 2108			
Tucson, AZ 85750			
Kirk Collamer			
12333 N. Red Mountain Drive			
Tucson, AZ 85755-6553			
Seligmann-Junghans Family Trust U/A/D			
July 9, 1999			
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Tucson, AZ 85750			
Tables, 142 Co. 00			

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