RECORDATION FORM COVER SHEET PATENTS ONLY

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADES PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT OR CO							
1. NAME OF CONVEYING PARTY	2. NAME AND ADDRESS OF RECEIVING PARTIES						
INFIGEN, INC.	JOHN HANCOCK LIFE INSURANCE COMPANY 200 CLARENDON STREET BOSTON, MASSACHUSETTS 02117 (Massachusetts Corporation)						
(Delaware Corporation)							
Additional name(s) of conveying party(ies) attached? No	Additional name(s) of receiving party(ies) attached? Yes						
3. NATURE OF CONVEYANCE							
Security Agreement	Execution Date: July 11, 2001						
4. APPLICATION NUMBER(S) OR PATENT NUMBER(S)							
If this document is being filed together with a new application, the execution	date of the application is:						
A. Patent Application No(s):	B. Patent No(s):						
	4,847,081						
Additional numbers attached? Yes							
5. NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE	6. TOTAL NUMBER OF APPLICATIONS AND PATENTS INVOLVED: 20						
SHOULD BE DIRECTED:	7. TOTAL FEE DUE: \$800.00						
Timothy H. Hiebert Samuels, Gauthier & Stevens LLP 225 Franklin Street, Suite 3300 Boston, Massachusetts 02110	PLEASE CHARGE THIS FEE AND ANY ADDITIONAL FEES WHICH ARE DUE TO THE DEPOSIT ORDER ACCOUNT NOTED IN ITEM 8.						
617-426-5553	8. DEPOSIT ACCOUNT NUMBER: 501427						

9. STATEMENT AND SIGNATURE						
To the best of my kno Timothy H. Hieb Name of Person Si						
4884.01H	Total number of pages including cover sheet, attachments, and document: 6					

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REEL: 012002 FRAME: 0341

09/26/01 13:02 SGS NO.146 **P**02

2. NAME AND ADDRESS OF RECEIVING PARTIES (continued):

INVESTORS PARTNER LIFE INSURANCE COMPANY 200 CLARENDON STREET BOSTON, MASSACHUSETTS 02117

(Delaware Corporation)

MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY 1295 STATE STREET SPRINGFIELD, MASSACHUSETTS 01111

(Massachusetts Corporation)

MASSMUTUAL CORPORATE VALUE PARTNERS, LTD. 1295 STATE STREET SPRINGFIELD, MASSACHUSETTS 01111

(Cayman Islands Limited Liability Company)

MASSMUTUAL PARTICIPATION INVESTORS 1295 STATE STREET SPRINGFIELD, MASSACHUSETTS 01111

(Massachusetts Business Trust)

MASSMUTUAL CORPORATE INVESTORS 1295 STATE STREET SPRINGFIELD, MASSACHUSETTS 01111

(Massachusetts Business Trust)

4B. Patent No(s) (continued):

4,994,384

5,021,244

5,057,420

5,096,822

5,160,312

5,213,979

5,320,952

5,346,990

5,347,544

5,439,362

5,453,366

5,496,720

5,660,997

5,843,754

6,011,197 6,077,710

6,107,543

6,194,202

6,258,998

PATENT REEL: 012002 FRAME: 0342

DOB

AGREEMENT (PATENT)

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This AGREEMENT (PATENT), dated as of July 11, 2001 (this "Agreement"), is made by Infigen, Inc., a Delaware corporation (the "Company") for the benefit of John Hancock Life Insurance Company, Investors Partner Life Insurance Company, Massachusetts Mutual Life Insurance Company, MassMutual Corporate Value Partners, Ltd., MassMutual Participation Investors and MassMutual Corporate Investors (the "Purchasers") as the registered holders of the 11.67% Senior Joint and Several Notes due August 12, 2004 of which Protein Genetics, Inc., ACATT, Inc. and the Company (collectively, the "Borrowers") are co-makers.

RECITAL

The Senior Notes were issued pursuant to a Note and Share Purchase Agreement dated as of August 12, 1994 (as amended through the date hereof, the "Note Agreement").

The Company is jointly and severally liable on all obligations of the Borrowers under the Note Agreement, the Senior Notes and certain other notes and agreements executed in connection therewith and to secure such obligations has granted to the Purchasers a first priority security interest in certain of its assets pursuant to a Security Agreement dated January 9, 1998 (the "Security Agreement") and this Agreement.

- 1. <u>Definitions</u>. Unless otherwise defined herein, terms used in this Agreement, have the meanings given therefor in the Security Agreement.
- 2. <u>Security Interest</u>. To secure the payment and performance of the Secured Obligations, the Company does hereby grant to the Purchasers a continuing security interest in and Lien on, all of the Company's right, title and interest in, to and under the following property, which constitutes a portion of the Intellectual Property, whether presently existing or hereafter acquired or existing:
 - (a) all patents and patent applications (including each patent and patent application described on <u>Attachment I</u> hereto), including without limitation, the inventions and improvements described therein, together with the reissues, divisions, continuations, renewals, extensions, and continuations in part thereof (the "<u>Patents</u>");
 - (b) all agreements, whether written or oral, providing for the grant by the Company of any right to manufacture, use or sell any invention covered by a Patent, including, without limitation, any thereof referred to in <u>Attachment I</u> hereto (the "<u>Patent Licenses</u>");
 - (c) all proceeds and products of each Patent and Patent License, including without limitation, all income, royalties, damages and payments now or hereafter due and/or payable with respect to any Patent or Patent License, including damages and payments for past or future infringements thereof, the right to sue for past, present and future infringements thereof, and all rights corresponding thereto throughout the world (clauses (a) through (c), collectively the "Patent Collateral"); and
 - (d) all reissues, extensions or renewals of any of the items described in <u>clauses</u> (a) through (c).

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- Security Agreement. This Agreement has been executed and delivered by the Company for the purpose of registering the security interest of the Purchasers in the Patent Collateral with the United States Patent and Trademark Office and corresponding offices in other countries of the world. The security interest granted hereby has been granted as a supplement to, and not in limitation of, the security interest granted to the Purchasers under the Security Agreement. The Security Agreement (and all rights and remedies available to the Purchasers thereunder) shall remain in full force and effect in accordance with its terms.
- Release of Security Interest. Upon payment in of all of the Secured Obligations, the Purchasers shall, at the Company's expense, execute and deliver to the Company all instruments and other documents as may be necessary or proper to release the lien on and security interest in the Patent Collateral which has been granted hereunder.
- Acknowledgment. The Company does hereby further acknowledge and affirm that the rights and remedies of the Purchasers with respect to the security interest in the Patent Collateral granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which (including the remedies provided for therein) are incorporated by this reference.
- Counterparts. This Agreement may be executed by the parties hereto in several counterparts, each of which shall be deemed to be an original and all of which shall constitute together but one and the same agreement.

IN WITNESS WHEREOF, the Company has caused this Agreement to be duly executed and delivered by its duly authorized officer as of the day and year first written above.

The Company:

INFIGEN, INC.

Chief Financial Officer

ATTACHMENT 1 to Patent Agreement (Page 1) Patents Issued

LL Docket	FL Docket	Country 1D	Type	Date Filed	Issue Date	Patent No.	Serial No.
Bovine Embry	o Medium			1	1		
231/034		US	NEW	7/26/90	3/17/92	5,096,822	07/558,969
	r Transplantat		R62	10/16/90	10/15/91	5,057,420	07/599,256
228/219		US	K02	10/10/30	10/13/71	3,007,120	
Cryonreserva	tion Process for	Direct Transfe	r of Embryos				
229/001	1100000	US	CIP	2/6/91	11/30/92	5,160,312	07/651,458
	tipotent Embry	onic Inner Mass	Cells and Prod	uction of Bovir	ne Animals	6 107 543	00/2/0 760
228/215		US	R62	12/2/94	8/22/00	6,107,543	08/348,769
	E	n Response to L	actation Signals				······································
229/034	ie Expression i	US	R62	6/2/93	6/14/94	5,320,952	08/071,594
229/054		100	1102	V			
In Vitro Cultu	re of Bovine E	mbryos					
228/228		US	NEW	12/30/87	5/25/93	5,213,979	07/139,887
	ning Bovine Er		CID	2/15/02	9/26/95	5,453,366	08/031,815
229/038		US	CIP	3/15/93	9120193	3,433,300	00/03/3015
34-41-4 of Cla	wing Povince I	Icina Danragrar	nmed Non-Emb	rvonic Bovine	Cells (as amende	ed)	
	ning Bovilles C	US	NEW	1/28/99	1/4/00	6,011,197	09/239,922
239/302		03	111211	1 2 2 2 2 2			
Methods of D	etermining Ant	ibodies Specific	for Sex Associa	ted Sperm Men	nbrane Proteins		
228/342		US	CIP	6/7/95	8/26/97	5,660,997	08/486,593
	ovine Embryos		CIB	10/27/87	2/19/91	4,994,384	07/113,791
228/216		US	CIP	10/2//8/	2/19/91	4,224,004	07/1103/21
Martatad Skal	etal Actin Prom	notar					
229/045	etal Actin From	US	R62	1/15/92	12/20/94	5,347,544	07/823,024
227/043	1	1.00					
Parthenogenie	Bovine Occyte	e Activation			,	·	
229/032		US	CON	6/6/95	12/1/98	5,843,754	08/473,794
	Occyte Activa		NEW	2/10/93	3/5/96	5,496,720	08/016,703
229/196		US	DIV	3/4/96	2/27/01	6,194,202 B1	08/610,744
230/240 237/011		US	CON	10/21/98	6/20/00	6,077,710	09/176,395
Sex Associate	d Membrane A	ntibodies and T	heir Use for Inc	reasing the Pro	bability that Of	fspring will be of	a Desired Sex
230/242		US	R62	5/12/89	6/4/91	5,021,244	07/351,642
					111		had Say
Sex Associate	d Membrane P		hods for Increas	ing the Probab	oility that Offspr	ing will be of a I	08/280,637
231/002		US	DIV	7/25/94	8/8/95	5,439,362 5,346,990	07/667,974
230/243		US	DIV	3/12/91	9/13/94	5,340,370	1 07/00/32/4
C 6h -42 - P	in a Danindara	za Viral Protein					
	ine rarinituenz	US Trail Proteins	DIV	3/30/87	7/11/89	4,847,081	07/014,499
228/223	<u></u>	100	1.4.4.	1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	.1		

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PATENT REEL: 012002 FRAME: 0345

ATTACHMENT 1 to Patent Agreement (Page 2)

LL Docket	FL Docket	Country	Туре	Date Filed	Issue Date	Patent No	Serial Date
Method of Cloning Porcine Animals 237/033							

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PATENT REEL: 012002 FRAME: 0346

RECORDED: 09/26/2001