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Attorney Docket No. 15966-574 (CURA-74)

01-31-2001

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PATENT APPLICATION

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(Rev. 6-93) OMB No. 0651-0011 (exp. 4/94)

FORM PTO-1595

Please record the attached original documents or copy thereof. 1. Name of conveying party(ies) (date executed): 2. Name and address of receiving party(ies) Catherine Burgess (01/10/01) Name: CuraGen Corporation Richard A. Shimkets (01/10/01) Corine Vernet (01/10/01) Ferenc Boldog (01/10/01) Internal Address: Intellectual Property Department Meijia Yang (01/10/01) William J. LaRochelle (01/10/01) Stacey Minskoff ((01/10/01) Street Address: 555 Long Wharf Drive, 11th Floor Additional name(s) of conveying party(ies) attached? Yes No New Haven, CT 06511 3. Nature of conveyance: Assignment Merger Additional name(s) & address(es) attached? Yes No Security Agreement Change of Name Other 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): 09/675,016 filed September 28, 2000 Additional numbers attached? ☐Yes No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: [1] Concerning document should be mailed: 7. Total fee (37 CFR 3.41) \$40.00 Name: Ivor R. Elrifi MINTZ, LEVIN, COHN, FERRIS Address: \boxtimes Enclosed GLOVSKY and POPEO, P.C. The Commissioner is authorized to charge Deposit Account One Financial Center No: 50-0311, Reference No. 15966-574 (CURA-74). Boston, MA 02111 DO NOT USE THIS SPACE 9. Statement and signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Kristin E. Konzak, Reg. No. 48,848 January 19, 2001 Name of Person Signing Signature Date

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Total number of pages including cover sheet, attachments, and document: [6]

BOX ASSIGNMENT Commissioner of Patents and Trademarks Washington, D.C. 20231

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PATENT REEL: 011465 FRAME: 0427

Express Mail Label No.: Date of Deposit:

EK611913464US

01/19/01

Attorney Docket No. 15966-574 (CURA-74)

ASSIGNMENT

We, Catherine Burgess, Richard A. Shimkets, Ph.D., Corine Vernet, Ph.D., Ferenc L. Boldog, Ph.D., Meijia Yang, Ph.D., William J. La Rochell, and Stacey Minskoff, Ph.D., the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to CuraGen Corporation, a Delaware corporation, with offices at 555 Long Wharf Drive, 13th Floor, New Haven, CT 06511 and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) my entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

NOVEL HEPATOMA-DERIVED GROWTH FACTOR-LIKE PROTEINS. POLYNULCEOTIDES ENCODING THEM AND METHODS OF USE

filed with the U.S. Patent and Trademark Office on September 28, 2000 and assigned Serial No. 09/675,016, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

> **PATENT** REEL: 011465 FRAME: 0428

APPLICANTS: Burgess et al.

FILING DATE: September 28, 2000

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 01-10-01	Signature of: Catherine Burgess
State of My Clear Country of Cietech State	
Subscribed and sworn to before me this <u>/</u>	My commission expense LL MARIE LAWSON NOTARY PUBLIC MY COMMISSION EXPIRES FEB. 28, 2004
Date: $\frac{1}{\sqrt{t}/6}$	Signature of: Richard A. Shimkets, Ph.D.
State of Chrocleut Country of Upp CO Sla	Tes,
Subscribed and sworn to before me this	Notary Public Notary Public JENELL MARIE LAWSON NOTARY PUBLIC MY COMMISSION EXPIRES FEB. 28, 2004

PATENT

REEL: 011465 FRAME: 0429

APPLICANTS:	Durgess et at.		
FILING DATE:	September 28, 2000		
Date: 1/10/6/		Sound	
/		Signature of: Corine V	Vernet, Ph.D.
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	-	My commission expli	ENELL MARIE LAWSON NOTARY PUBLIC COMMISSION EXPIRES FEB. 28, 2004
Date: //10/0/		Signature of: Ferenc I	Boldog Ph.D.
State of Country of	edicella		
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	-	My commission expir	JENELL MARIE LAWSON es <u>Notary Public</u>
		•	MY COMMISSION EXPIRES FEB. 28, 2004

APPLICANTS:	Burgess et al.	
FILING DATE:	September 28, 2000	
Date: 61/10/0/	<i>,</i>	(C) Emol
_		Signature of: Meljia Yang, Ph.D.
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Country of	W V	
Subscribed and sworn	to before me this <u>/ ()</u>	day of January 102
	H	JENELL MARIE LAWSON NOTARY PUBLIC M. commission expire MY COMMISSION EXPIRES FEB. 20, 2004
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Date: $D_1/IO/O$)	Mulliam Likoulel
3.1.7		Signature of: William J. LaRochelle
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Subscribed and sworn	to before me this ://	Iday of away 102
		maleon
		Notary Public
		My commission expires ENELL MARIE LAWSON .
		MY COMMISSION EXPIRES FEB. 29, 2004

APPLICANTS: Burgess et al.

FILING DATE: **September 28, 2000**

Signature of: Stacey Minskoff, Ph.D.

Subscribed and sworn to before me this 10 day of

RECORDED: 01/19/2001

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