U.S.

BOX ASSIGNMENTS

Case Docket No. PF1.



ARK OFFICE

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

RECORDATION FORM COVER SHEET

To the Honorable Commissioner of Patents and Trademarks. Please record the attached or is in all documents or copy thereof.

PATENTS ONLY

1.	Name of conveying party(ies):	2. Name and address of receiving party(ies):			
	Jing-Shan HU				
	Craig A. ROSEN	Name: Human Genome Sciences, Inc.			
	Liang CAO	Street Address 9410 Key West Avenue			
	Liding CAO	City Rockville, Maryland 20850			
	Additional name(s) of conveying party (Additional name(s)				
	Yes ☐ No ⊠				
		A 11'4' 1 () C			
3.	Nature of conveyance	Additional name(s) of conveying party(ies) attached?			
		Yes No N			
	Security Agreement Change of Name	1.6 🖂			
	Other				
	Other				
	Execution Date: 10/14/98, 10/13/98, and 10/6/98				
	2.160 data. 10.17.17.19.19.19.19.19.19.19.19.19.19.19.19.19.				
4.	Title Vascular Endothelial Growth Factor 2				
5.	Application number (s) or patent numbers (s)	A. Patent Application No. (s)			
	70.1.1	09/107,997			
	If this document is being filed together with a new	B. Patent No.			
	application, the execution date of the application is	Additional numbers attached?			
	***	Yes ☐ No ⊠			
	Name and address of native to the management				
6.	Name and address of party to whom correspondence con	cerning documents should be mailed:			
	Human Genome Sciences, Inc.				
	9410 Key West Avenue				
	Rockville, Maryland 20850				
	Telephone: 301-309-8504 Facsimile: 301-3	09-8439			
7.	Total of applications and patents involved 1				
8.	Total Fee (37 CFR 3.41)	0			
0,	Enclosed (By check in total of filing fee and Assignment Recordation Fee				
	Authorized to be charged to Deposit Account				
9.	Deposit Account No. 08-3425 (Attached dupl	icated copy of this page if paying by deposit			
	account)				
10.	If any additional fees due in connection with the recordat	ion of this Assignment, please charge the same			
	to Deposit No. <u>08-3425</u>				
11.	Statement and Signature				
• 1.	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.				
	M_{i-1}	1. 10/1/1/2 11/10/198			
	Michele M. Wales Name of Person Signing Name of Person Signing				
		Signature ' Date			
	P-43,975				
	Registration No.				
	Total number of pages including cover sheet, attachment, and documents: 4				

11/16/1998 LSNEED 00000002 083425 09107997

04 FC:581 40.00 CH

PATENT REEL: 9584 FRAME: 0588

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Craig A. ROSEN, Jing-Shan HU, and Liang CAO, hereby sells, assigns and transfers to **Human Genome Sciences**, **Inc**. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

Vascular Endothelial Growth Factor 2

for which application for United States Letters Patent was filed on June 30, 1998, and assigned Application Serial No. 09/107,997, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants the power to A. Anders Brookes (Reg. No. 36,373), James H. Davis (Reg. No. 40,582) and Kenley K. Hoover (Reg. No. 40,302) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, Maryland, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF opposite their signature(s):		y the undersigned on the date(s)
Inventor's Signature:	Craig A. Rosen	Date: 18/14/91
Inventor's Signature:	Jing-Shan Hu	Date:
Inventor's Signature:	Liang Cao	Date:

PF112P4

PATENT REEL: 9584 FRAME: 0589

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Craig A. ROSEN, Jing-Shan HU, and Liang CAO, hereby sells, assigns and transfers to **Human Genome Sciences**, **Inc**. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

Vascular Endothelial Growth Factor 2

for which application for United States Letters Patent was filed on June 30, 1998, and assigned Application Serial No. 09/107,997, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Patent Rights").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:	Date:		
	Craig A. Rosen		
Inventor's Signature:	Ing-Shan Hu	_Date: _	10/13/98
Inventor's Signature:		_Date: _	
	Liang Cao		

PF112P4

PATENT REEL: 9584 FRAME: 0590

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Craig A. ROSEN, Jing-Shan HU, and Liang CAO, hereby sells, assigns and transfers to **Human Genome Sciences**, **Inc**. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as:

Vascular Endothelial Growth Factor 2

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:		Date:	
	Craig A. Rosen		
Inventor's Signature:		Date:	
	Jing-Shan Hu		
Inventor's Signature:		Date: Oct. 6, 1988	
	Liang Cao		

PF112P4

PATENT RECORDED: 11/10/1998 REEL: 9584 FRAME: 0591