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Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies): G. Steven Bova, M.D. Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): The John Hopkins University 720 Rutland Avenue Baltimore, MD 21205-2196 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 11/02/2001			
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: 09/727,594 B: Patent No(s).: Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name/address of party to whom correspondence concerning document should be mailed: JOHN F. HAYDEN Fish & Richardson P.C. 601 Thirteenth Street, NW Washington, DC 20005		6. Total number of applications/patents involved: 1	
		7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.	
		8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.	
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9. Statement and Signature: <i>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.</i>			
John F. Hayden Reg. No. 37,640 Name of Person Signing		 Signature	<u>12/19/01</u> Date
Total number of pages including coversheet, attachments and document: 3			

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ASSIGNMENT

For valuable consideration, I, G. STEVEN BOVA, M.D. of Baltimore, MD 21231,

hereby assign to:

The John Hopkins University, a Maryland corporation having a place of business at:

720 Rutland Avenue
Baltimore, MD 21205-2196; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by me, entitled INTEGRATED MULTIDIMENSIONAL DATABASE, filed December 4, 2000, and assigned U.S. Serial Number 09/727,594, and I authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Baltimore, Maryland,
this 2nd day of November, 2001

G. Steven Bova L.S.
G. STEVEN BOVA, M.D.

State of Maryland :

County of Baltimore : ss.

Before me this 2nd day of November, 2001, personally
appeared G. STEVEN BOVA, M.D. known to me to be the person whose name is subscribed to
the foregoing Assignment and acknowledged that he executed the same as his free act and deed
for the purposes therein contained.

Brenda Yvette Mills
Notary Public

My Commission Expires:

[Notary's Seal Here]

Brenda Yvette Mills, Notary Public
Baltimore County
State of Maryland
My Commission Expires Mar. 14, 2005

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