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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL FORM (to be used for all correspondence during pendency of filed application)	Application Number	09/139,290
	Filing Date	August 24, 1998
	First Named Inventor	Paul E. Nelson
	Group Art Unit Number	2776
	Examiner Name	Unknown
Total Number of Pages in This Submission		5 + refs.
Attorney Docket Number		3533

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Group 2700

ENCLOSURES (check all that apply)	
☐ Fee Transmittal Form (in duplicate) ☐ Check Enclosed ☒ Return Receipt Postcard ☐ Response to Notice to File Missing Parts ☐ Assignment & PTO-1595 ☐ Declaration ☐ Small Entity Statement ☒ Information Disclosure Statement & PTO-1449 ☒ Copies of IDS Cited References ☐ Request for Corrected Filing Receipt ☐ Request for Correction of Recorded Assignment ☐ Amendment/Response: [] Page(s) ☐ After Final ☐ Status Request ☐ Revocation and Power of Attorney	☐ Issue Fee Transmittal ☐ Letter to Chief Draftsperson ☐ Formal Drawing(s): [] Sheet(s) of Figure(s) [] ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) ☐ Certified Copy of Priority Document(s) ☐ After Allowance Communication to Group ☐ ☐ ☐ ☐ ☐
REMARKS:	

SIGNATURE OF ATTORNEY OR AGENT			
Signature:			
Attorney/Reg. No.:	Robert R. Sachs, Registration No. 42,120	Dated:	January 28, 1999

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#8

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Paul E. Nelson, Christopher H. Anderson, Ronald M. Whitman,
Paul C. Gardner and Mark R. David

SERIAL NO.: 09/139,290

FILING DATE: August 24, 1998

TITLE: MULTIMEDIA DOCUMENT RETRIEVAL BY APPLICATION OF
MULTIMEDIA QUERIES TO A UNIFIED INDEX OF MULTIMEDIA DATA
FOR A PLURALITY OF MULTIMEDIA DATA TYPES

EXAMINER: Unknown

GROUP ART UNIT: 2776

ATTY. DKT. NO.: 3533

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Dated: January 28, 1999

By: Robert R. Sachs
Robert R. Sachs, Registration No. 42,120

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

INFORMATION DISCLOSURE STATEMENT
Under 37 CFR §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO-1449 listing references for consideration by the Examiner. A copy is enclosed herewith of each listed reference which may be material to the examination of this application, and with respect to which there may be a duty to disclose.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

PATENT

The Information Disclosure Statement submitted herewith is being filed:

- ☒ within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first official action on the merits, whichever event last occurred.
- ☒ Applicants submit that no fee is required for the consideration of the accompanying Information Disclosure Statement.

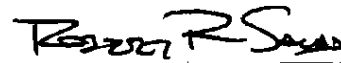
Consideration of the listed references and favorable action are solicited.

Respectfully submitted,

PAUL E. NELSON, ET AL.

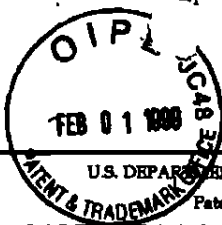
Dated: January 28, 1999

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Sheet 1 of 2

FORM PTO-1449 (REV. 6-89)		U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE		Attorney's Docket No. 3533		Serial No. 09/139,290							
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant PAUL E. NELSON ET AL.		Filing Date August 24, 1998							
				Group Art Unit 2776									
U.S. PATENT DOCUMENTS													
Examiner Initial		Document Number						Date	Name	Class	Subclass	Filing Date if Appropriate	
WH	A	5	8	4	2	2	0	3	11-24-98	D'Elena et al.	707	4	12-01-95
WH	B	5	8	3	2	4	9	5	11-03-98	Gustman	707	102	07-08-96
WH	C	5	8	1	3	0	1	4	09-22-98	Gustman	707	103	07-10-96
WH	D	5	7	4	2	8	1	6	04-21-98	Barr et al.	395	615	
WH	E	5	6	3	0	1	2	1	05-13-97	Braden-Harder et al.	395	604	
WH	F	5	6	1	3	0	3	2	03-18-97	Cruz et al.	386	69	
WH	G	5	2	4	1	6	7	1	08-31-93	Reed et al.	395	600	
WH	H	4	7	1	6	4	0	4	12-29-87	Tabata et al.	340	723	
FOREIGN PATENT DOCUMENTS													
		Document Number						Date	Country	Class	Subclass	Translation Yes No	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)													
WH	I	Arndt, T., "A Survey of Recent Research in Image Database Management," 1990 IEEE Workshop on Visual Languages, pp. 92-97, October 4-6, 1990.											
WH	J	Binaghi, E., Gagliardi, L., Schettini, R., "Indexing and Fuzzy Logic-Based Retrieval of Color Images," IFIP Transactions A-7, Visual Database Systems, II, pp. 79-92, 1992.											
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WH	L	Carson, C., Belongie, S., Greenspan, H., Malik, J., "Region-Based Image Querying," CVPR '97 Workshop on Content-Based Access of Image and Video Libraries, pp. 1-8, 1997.											
WH	M	Cawkell, A.E., "Current Activities in Image Processing Part III: Indexing Image Collections," Critique, Vol. 4, No. 8, pp. 1-11, May 1992, ALSIB, London.											
WH	N	Chang, N.S., Fu, K.S., "Picture Query Languages for Pictorial Data-Base Systems," Computer, Vol. 14, No. 11, pp. 23-33, Nov. 1981.											
WH	O	Chang, S., Shi, Q., Yan, C., "Iconic Indexing by 2-D Strings," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. PAMI-9, No. 3, pp. 413-427, May 1987.											
WH	P	Charles, S., Scrivener, S., "Using Depictive Queries to Search Pictorial Databases," Human Computer Interaction, Interact '90, pp. 493-498, 1990.											
EXAMINER WASSEM H. HAMDAN									DATE CONSIDERED 3/31/2000				
EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.													

PTO-1449
REV: 12/96

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Sheet 2 of 2

FORM PTO-1449 (REV. 6-89)		DEPARTMENT OF COMMERCE Patent and Trademark Office		Attorney's Docket No. 3533	Serial No. 09/139,290
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant PAUL E. NELSON ET AL.	
				Filing Date August 24, 1998	
				Group Art Unit 2776	
WH	Q		Davis, J., "DMA Technical Overview," http://www.parc.xerox.com/ist/members/dniaprimer.html , pp. 1-8, May 3, 1998.		
WH	R		Fay, C., "Summary of the DMA Successes at AIIM '98," http://www.aiim.org/dma/d_successatim98.html , pp. 1-2, 1998.		
WH	S		Goble, C., O'Docherty, M., Crowther, P., Ireton, M., Daskalakis, C., Oakley, J., Kay, S., "The Manchester Multimedia Information System," IEEE, Multimedia Systems, Interaction and Applications, 1 st Eurographics Workshop, Chapter 18, pp. 244-268, April 1991.		
WH	T		Grosky, W.L., Neo, P., Mehrotra, R., "A Pictorial Index Mechanism for Model-Based Matching," Data & Knowledge Engineering 8, pp. 309-327, 1992.		
WH	U		Gupta, A., Weymouth, T., Jain, R., "Semantic Queries with Pictures: The VIMSYS Model," Proceedings of the 17 th International Conference on Very Large Data Bases, pp. 69-79, Barcelona, Sept. 1991.		
WH	V		Kato, T., Kurita, T., Shimogaki, H., "Intelligent Visual Interaction with Image Database Systems, Toward the Multimedia Personal Interface," Journal of Information Processing, Vol. 14, No. 2, pp. 134-143, 1991.		
WH	W		Lee, E.T., "Similarity Retrieval Techniques," Lecture Notes in Computer Science, Pictorial Information Systems, pp. 128-176, 1980.		
WH	X		Lee, S., Shan, M., Yang, W., "Similarity Retrieval of Iconic Image Database," Pattern Recognition, Vol. 22, No. 6, pp. 675-682, 1989.		
WH	Y		Lu, Z., Callan, J.P., Croft, W.B., "Measures in Collection Ranking Evaluation," University of Massachusetts, Technical Report TR96-39, 1996.		
WH	Z		"The Need for Document Management System Interoperability," http://www.aiim.org/dma/dma_exec_overview.html , pp. 1-5, 1998.		
WH	AA		Manmatha, R. and Ravela, S., "A Syntactic Characterization of Appearance and its Application to Image Retrieval," Proceedings of the SPIE Conference on Human Vision and Electronic Imaging II, Vol. 3016, February, 1997, San Jose, California.		
WH	BB		Manmatha, R., "Indexing and Retrieval Research at the Center for Intelligent Information Retrieval," Proceedings of Symposium on Document Image Understanding SDIUT97, Annapolis, Maryland, April 30, 1997.		
WH	CC		O'Docherty, M.H., Daskalakis, C.N., "Multimedia Information Systems - The Management and Semantic Retrieval of all Electronic Data Types," The Computer Journal, Vol. 34, No. 3, pp. 225-238, 1991.		
WH	DD		Stanchev, P.L., Smeulders, A.W.M., Groen, F.C.A., "An Approach to Image Indexing of Documents," Visual Database Systems, II, pp. 63-77, 1992.		
WH	EE		Tamura, H., Yokoya, N., "Image Database Systems: A Survey," Pattern Recognition, Vol. 17, No. 1, pp. 29-43, 1984.		
WH	FF		Tortora, G., Costagliola, G., Arndt, T., Chang, S., "Pyramidal Algorithms for Iconic Indexing," Computer Vision, Graphics, and Image Processing 52, pp. 26-56, 1990.		
WH	GG		Woolsey, K.H., "Multimedia Scouting," IEEE Computer Graphics & Applications, pp. 26-38, 1991.		
WH	HH		Wu, V., Manmath, R., Riseman, E.M., "TextFinder: An Automatic System to Detect and Recognize Text in Images," Transactions on Pattern Analysis & Machine Intelligence, CIIR technical report, pp. 1-35, November 18, 1997.		
EXAMINER WASSEEM H. HANIDAN			DATE CONSIDERED 3/31/2000		
EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

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