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(54) **Ultrasonic image searching apparatus and ultrasonic image transmission and reception system adopting the same**

(57) An ultrasonic image searching apparatus is provided, which includes an input unit for inputting a key word for selecting an object to be searched and an ultrasonic image, a feature extraction unit for extracting the feature of the ultrasonic image inputted via the input unit, a storage unit for storing a plurality of previously acquired ultrasonic images and a database of commentary information and image feature information with respect to each ultrasonic image, a display, and a control-

ler for comparing the key word input from the input unit or the feature extracted from the feature extraction unit with the commentary information and the image feature information in the storage unit and outputting the ultrasonic images contained in the storage unit on the display according to a degree of similarity. Thus, a massive amount of the prestored ultrasonic images can be efficiently searched, and connection with the network such as a web server provides an effect of searching the ultrasonic image.



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EUROPEAN SEARCH REPORT

Application Number
EP 00 30 5772

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	"I2Cnet: content-based similarity search in geographically medical images by content" TECHNICAL REPORTS OF THE CENTER FOR MEDICAL INFORMATICS AND HEALTH TELEMATICS APPLICATIONS FORTH-ICS/TR-161, 'Online! January 1996 (1996-01), pages 1-23, XP002183641 Greece Retrieved from the Internet: <URL:http://www.ics.forth.gr/ICS/acti/cmi_hta/publications/technical_reports/tr161/tr161.pdf> 'retrieved on 2001-11-21! * abstract * * page 5, paragraph 2.5 * * page 10, line 12 - line 19; figures 4-8 * * page 12, paragraph 3.3 *	1-18	G06F17/30
A	DE 41 38 188 A (NOWAK ROLF ;ULLRICH WERNER (DE)) 19 May 1993 (1993-05-19) * the whole document *	1,2,6,7,10,12,13	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
X	LONG ET AL: "Internet access to digital medical X-rays by image features and associated text" SIGNALS, SYSTEMS & COMPUTERS, 1998. CONFERENCE RECORD OF THE THIRTY-SECOND ASILOMAR CONFERENCE ON PACIFIC GROVE, CA, USA 1-4 NOV. 1998, PISCATAWAY, NJ, USA, IEEE, US, 1 November 1998 (1998-11-01), pages 900-904, XP010324278 ISBN: 0-7803-5148-7 * abstract * * page 901, left-hand column, paragraph 2 - page 903, left-hand column, line 4 *	1-3,6-15	G06F
A	4 -/--		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21 November 2001	Examiner Fournier, C
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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Application Number
EP 00 30 5772

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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X	JP 01 103735 A (HITACHI LTD;OTHERS: 01) 20 April 1989 (1989-04-20) * page 2, column 4, line 1 - line 16 * -----	1-3,6-11	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
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CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 30 5772

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	超声波图像搜索装置和采用其的超声波图像发送和接收系统		
公开(公告)号	EP1103900A3	公开(公告)日	2002-01-16
申请号	EP2000305772	申请日	2000-07-07
申请(专利权)人(译)	MEDISON CO. , LTD.		
当前申请(专利权)人(译)	MEDISON CO. , LTD.		
[标]发明人	KIM SANG HYUN		
发明人	KIM, SANG HYUN		
IPC分类号	A61B8/00 G06F17/30 G06Q50/22 G06Q50/24 G06T1/00 G16H10/60		
CPC分类号	G06F16/58 G06F16/583 G06F19/321		
代理机构(译)	看 , MATTHEW CHARLES		
优先权	1019990052913 1999-11-26 KR		
其他公开文献	EP1103900A2		
外部链接	Espacenet		

摘要(译)

提供一种超声波图像检索装置，包括：输入单元，用于输入用于选择待搜索物体的关键词和超声波图像;特征提取单元，用于提取经由输入单元输入的超声波图像的特征，存储装置用于存储多个先前获取的超声图像的单元和关于每个超声图像的评论信息和图像特征信息的数据库，显示器和用于比较从输入单元输入的关键字或从特征提取的特征的控制器提取单元，其具有存储单元中的评论信息和图像特征信息，并根据相似度在显示器上输出包含在存储单元中的超声图像。因此，可以有效地搜索大量预先存储的超声图像，并且与诸如网络服务器的网络的连接提供了搜索超声图像的效果。



European Patent Office

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EP 00 30 5772

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X	"ISNet: content-based similarity search in geographically medical images by content" TECHNICAL REPORTS OF THE CENTER FOR MEDICAL INFORMATICS AND HEALTH TELMATICS APPLICATIONS FORTH-ICS/TR-161, Online! January 1996 (1996-01), pages 1-23, XP002183641 Retrieved from the Internet: <URL: http://www.ics.forth.gr/ICS/act1/cm1/hta/publications/technical_reports/tr161/tr161.pdf> retrieved on 2001-11-21! * abstract * * page 5, paragraph 2.5 * * page 10, line 12 - line 19; figures 4-8 * * page 12, paragraph 3.3 *	1-18	G06F17/30
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A	1 November 1998 (1998-11-01), pages 980-904, XP010324278 * abstract * * page 901, left-hand column, paragraph 2 * * page 903, left-hand column, line 4 * -/-	4	

The present search report has been drawn up for all claims

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1: theory or principle underlying the invention 2: known prior art document, not published in, or after the filing date 3: document cited for its application 4: document cited for other reasons A: member of the same patent family, corresponding document		