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A61B 19/00, A61B 17/34

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(54) **Magnetic resonance and ultrasound imaging apparatus**

(57) An Imaging apparatus, comprising a magnetic resonance imaging apparatus with at least one transmitting coil for exciting the matter of a body (C) under examination or of a part thereof and at least one coil (2) for receiving the signals transmitted by the body under examination or a part thereof, as well as electronic means for processing said received signals to create a diagnostic image and including means (4, 6, 7, 8, 108, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18) for supporting and/or guiding at least one diagnostic and/or therapeutic tool (3, 23), which particularly has an essentially elongated shape, and particularly is to be inserted in the body (C) in a well-determined position and with a precise orientation characterized in that it further comprises an ultrasound imaging apparatus having an ultrasound transmitting and receiving probe (22) and electronic means for driving the probe and for reconstructing an image from the received ultrasound pulses, means being provided for supporting and/or displacing and/or operating the said probe (22).

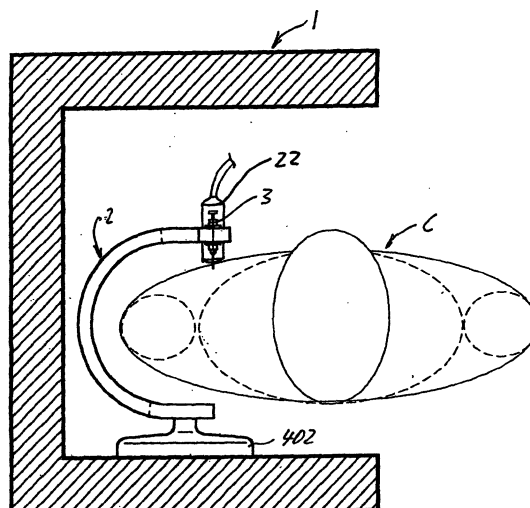


Fig. 1



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Application Number
EP 02 01 8005

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 5 October 2004	Examiner Lersch, W
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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European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 02 01 8005

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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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 5 October 2004	Examiner Lersch, W
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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)	磁共振和超声成像设备		
公开(公告)号	EP1286172A3	公开(公告)日	2004-12-01
申请号	EP2002018005	申请日	2002-08-12
[标]申请(专利权)人(译)	百胜集团		
申请(专利权)人(译)	ESAOTE S.P.A.		
当前申请(专利权)人(译)	ESAOTE S.P.A.		
[标]发明人	SATRAGNO LUIGI BIGLIERI EUGENIO		
发明人	SATRAGNO, LUIGI BIGLIERI, EUGENIO		
IPC分类号	A61B5/055 A61B8/00 G01R33/28 G01R33/34 A61B19/00 A61B17/34		
CPC分类号	G01R33/28 A61B5/0035 A61B5/055 A61B5/4528 A61B8/00 A61B8/4416		
优先权	SV2001000029 2001-08-14 IT		
其他公开文献	EP1286172A2 EP1286172B1		
外部链接	Espacenet		

摘要(译)

1. 一种成像设备，包括具有至少一个发射线圈的磁共振成像设备，所述发射线圈用于激励所检查的身体（C）或其一部分的物质，以及至少一个线圈（2），用于接收由所述身体检查或其一部分，以及用于处理所述接收的信号以创建诊断图像的电子装置，并且包括用于检测所述诊断图像的装置（4,6,7,8,108,9,10,11,12,13,14,15,16，17,18），用于支撑和/或引导至少一个诊断和/或治疗工具（3,23），所述至少一个诊断和/或治疗工具特别地具有基本上细长的形状，并且特别地以适当的方式插入所述主体并且具有精确取向，其特征在于，其还包括具有超声发射和接收探头（22）的超声成像设备以及用于驱动所述探头并且用于从所接收的超声脉冲重建图像的装置，用于支持和/或移动和/或操作所述探针（22）。

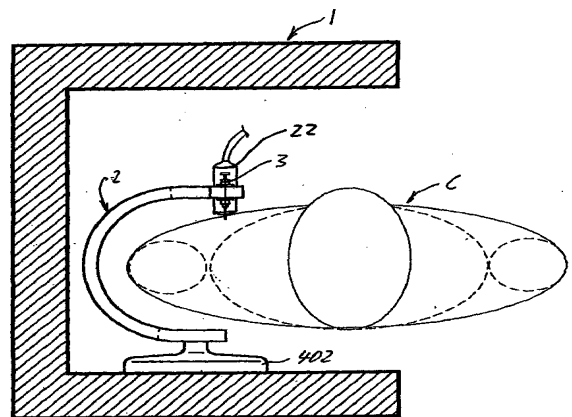


Fig. 1