



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	WO 00/10455 A (EMORY UNIVERSITY; LITT, BRIAN; VACHTSEVANOS, GEORGE; ECHAUZ, JAVIER; E) 2 March 2000 (2000-03-02) * page 2, line 8 - page 3, line 29; claims 1,2,4,6 *	1,3,5, 59,104, 134,156	A61N1/18 A61N1/08 A61B5/04
X	----- GB 2 336 211 A (CHENNA KESAVALU * RAJAGOPAL) 13 October 1999 (1999-10-13) * abstract; claim 1; figure 1 *	1,3,5, 13,59, 104,134, 156	
A	----- US 5 995 868 A (DORFMEISTER ET AL) 30 November 1999 (1999-11-30) * column 4, line 43 - column 6, line 62; claim 1 *	1-187	
A	----- US 6 018 682 A (RISE ET AL) 25 January 2000 (2000-01-25) * abstract *	1-187	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			A61N A61B
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 15 February 2005	Examiner Chopinaud, M
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			

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

EP 01 99 3260

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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15-02-2005

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专利名称(译)	多级控制下神经干扰预测和控制的自适应方法和装置		
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[标]申请(专利权)人(译)	宾夕法尼亚大学		
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CPC分类号	A61B5/0476 A61B5/0482 A61B5/076 A61B5/4094 A61B5/486 A61B5/7203 A61B5/726 A61B5/7264 A61B5/7267 A61B5/7275 A61N1/36082 G06K9/00523 G16H20/70 G16H40/63 G16H50/20 G16H50/30		
优先权	09/735364 2000-12-12 US		
其他公开文献	EP1341580A2		
外部链接	Espacenet		

摘要(译)

一种用于预测和控制人类神经异常的方法和装置，例如癫痫发作或其他脑部紊乱。该系统基于多级控制策略。使用一种或多种类型的生理测量，例如脑电，化学或磁活动，心率，瞳孔扩张，眼球运动，温度，某些物质的化学浓度，从预编程离线选择特征集包含在监督控制架构内的高级控制器中的特征库。此高级控制器将功能库存储在笔记本电脑或外部PC中。监督控制还包含知识库，该知识库在离散步骤中连续更新，反馈信息来自可植入设备，其中实现所选特征集（特征向量）。该高级控制器还通过智能程序建立初始系统设置（离线）和后续设置（在线）或通过外部控制回路进行调整，该过程包含知识产生。系统的后续自适应设置与驻留在可植入设备内的低级控制器一起确定。该设备具有预测脑干扰，控制干扰或两者的能力。通过指示在一个或多个时间范围内即将发作的癫痫发作的概率来实现预测，这通过内环控制法和通过电学，化学，认知，感觉和预防或控制神经事件所必需的反馈来实现。/或磁刺激。

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		A61N A61B	
1	Date of completion of the search 15 February 2005		Searcher Chopinoud, M
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant taken alone Y: particularly relevant if considered with another document of the same category A: document of the same category D: non-written disclosure F: intermediate document		1. theory or principle underlying the invention E: earlier patent document, fully published on, or after the filing date D: document cited in the application I: document cited for other reasons & / member of the same patent family, corresponding document	