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(54) **Systems and methods for communicating with implantable devices**

(57) Systems and methods for communicating with an implant within a patient's body using acoustic telemetry includes an external communications device attachable to the patient's skin. The device includes an acoustic transducer for transmitting acoustic signals into the patient's body and/or for receiving acoustic signals from the implant. The device includes a battery for providing electrical energy to operate the device, a processor for ex-

tracting data from acoustic signals received from the implant, and memory for storing data. The device may include an interface for communicating with a recorder or computer, e.g. to transfer data from the implant and/or to receive instructions for controlling the implant. The device is secured to the patient's skin for controlling, monitoring, or otherwise communicating with the implant, while allowing the patient to remain mobile.

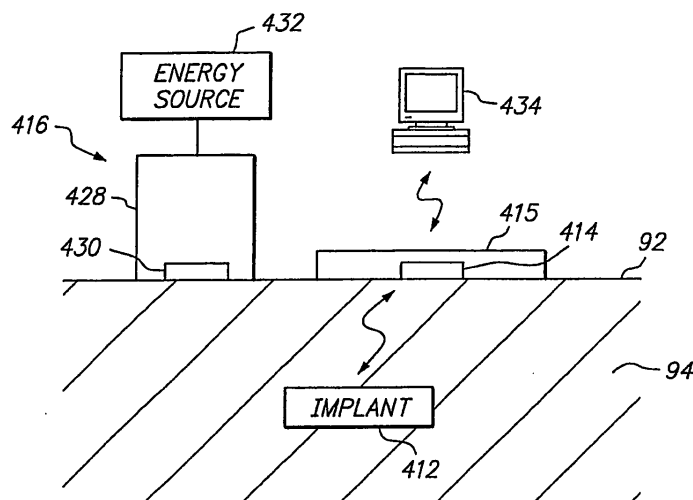


FIG. 3



EUROPEAN SEARCH REPORT

Application Number
EP 10 07 5193

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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 13 August 2010	Examiner Ließmann, Frank
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.**

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专利名称(译)	用于与可植入设备通信的系统和方法		
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优先权	10/989912 2001-11-19 US		
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外部链接	Espacenet		

摘要(译)

使用声学遥测技术与患者体内的植入物通信的系统和方法包括可附接到患者皮肤的外部通信设备。该装置包括声换能器，用于将声信号传输到患者体内和/或用于从植入物接收声信号。该装置包括用于提供电能以操作该装置的电池，用于从植入物接收的声信号中提取数据的处理器，以及用于存储数据的存储器。该装置可以包括用于与记录器或计算机通信的接口，例如，从植入物传输数据和/或接收用于控制植入物的指令。该装置固定到患者的皮肤上，用于控制，监测或以其他方式与植入物通信，同时允许患者保持活动。

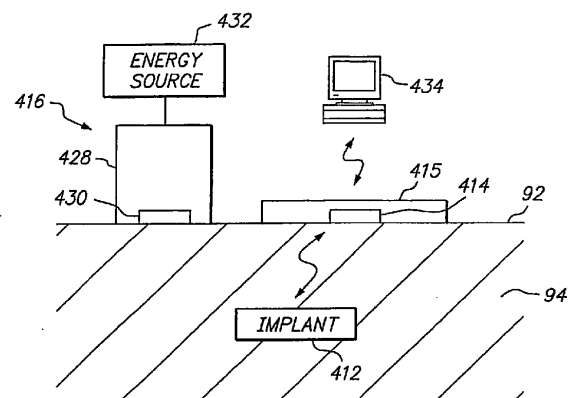


FIG. 3