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(54) **A three-dimensional adhesive device having a microelectronic system embedded therein**

(57) Accordingly, the present invention relates to a three-dimensional adhesive device to be attached to the body surface of a mammal comprising a microelectronic sensing system characterized by
(a) a three-dimensional adhesive body made of a pressure sensitive adhesive having an upper surface and a bottom surface;
(b) a microelectronic system embedded in the body of the pressure sensitive adhesive;
(c) one or more cover layer(s) attached to the upper sur-

face; and
(d) optionally a release liner releasable attached to the bottom surface of the adhesive device.

Suitably the microelectronic system is a microelectronic sensing system capable of sensing physical input such as pressure, vibration, sound, electrical activity (e.g. from muscle activity), tension, blood-flow, moisture, temperature, enzyme activity, bacteria, pH, blood sugar, conductivity, resistance, capacitance, inductance or other chemical, biochemical, biological, mechanical or electrical properties.

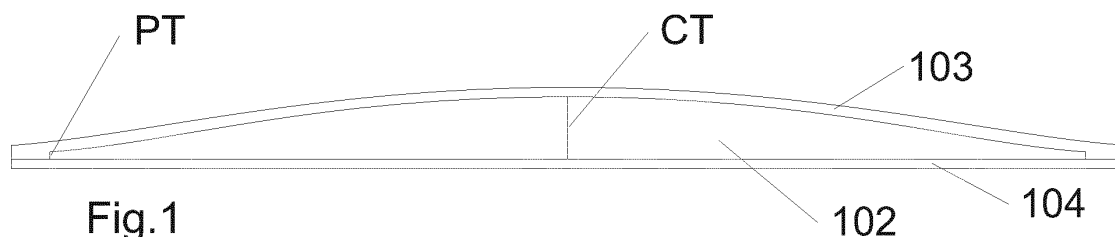


Fig. 1



EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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X	WO 99/13765 A1 (HOME DIAGNOSTICS UK LIMITED [GB]; COURTENAY LUCK NIGEL STEPHEN [GB]; C) 25 March 1999 (1999-03-25) * pages 12-15; claim 1; figure 5 * -----	1,2,4,5	
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A	US 5 311 396 A (STEFFEN FRANCIS [FR]) 10 May 1994 (1994-05-10) * columns 4-6 * -----	1-5	
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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			A61B
2	Place of search Munich	Date of completion of the search 16 October 2012	Examiner Chopinaud, Marjorie
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 11 18 7037

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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16-10-2012

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专利名称(译)	一种三维粘合装置，具有嵌入其中的微电子系统		
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优先权	200500354 2005-03-09 DK 200501748 2005-12-09 DK		
其他公开文献	EP2412306B1 EP2412306A2		
外部链接	Espacenet		

摘要(译)

因此，本发明涉及一种附着在哺乳动物体表上的三维粘合装置，包括微电子传感系统，其特征在于：(a) 由具有上表面和上表面的压敏粘合剂制成的三维粘合体。底面；(b) 嵌入压敏粘合剂体内的微电子系统；(c) 一个或多个覆盖在上表面的覆盖层；(d) 任选地，可释放地附接到粘合剂装置的底表面的剥离衬垫。适当地，微电子系统是微电子传感系统，其能够感测物理输入，例如压力，振动，声音，电活动（例如来自肌肉活动），张力，血流，湿度，温度，酶活性，细菌，pH，血糖。，电导率，电阻，电容，电感或其他化学，生物化学，生物学，机械或电学性质。

