Title (en)

SYSTEMS, METHODS, AND DEVICES HAVING STRETCHABLE INTEGRATED CIRCUITRY FOR SENSING AND DELIVERING THERAPY

Title (de)

SYSTEME, VERFAHREN UND VORRICHTUNGEN MIT DEHNBARER INTEGRIERTER SCHALTUNG FÜR MESSUNG UND THERAPIEVERABREICHUNG

Title (fr)

SYSTÈMES, PROCÉDÉS ET DISPOSITIFS AYANT DES ÉLÉMENTS DE CIRCUITS INTÉGRÉS ÉTIRABLES POUR DÉTECTER ET ADMINISTRER UNE THÉRAPIE

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Application

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Abstract (en)

[origin: WO2010102310A2] System, devices and methods are presented that integrate stretchable or flexible circuitry, including arrays of active devices for enhanced sensing, diagnostic, and therapeutic capabilities. The invention enables conformal sensing contact with tissues of interest, such as the inner wall of a lumen, a the brain, or the surface of the heart. Such direct, conformal contact increases accuracy of measurement and delivery of therapy. Further, the invention enables the incorporation of both sensing and therapeutic devices on the same substrate allowing for faster treatment of diseased tissue and fewer devices to perform the same procedure.

IPC 8 full level

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Citation (search report)

- [XI] WO 2007024983 A2 20070301 - ABLATION FRONTIERS [US], et al
- [XI] US 5471982 A 19951205 - EDWARDS STUART D [US], et al
- [XI] US 2008188912 A1 20080807 - STONE CORBETT W [US], et al
- [A] WO 2007116344 A1 20071018 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] EP 0779059 A1 19970618 - CORDIS CORP [US]
- [A] EP 1808124 A2 20070718 - BIOSENSE WEBSTER [US]
- See references of WO 2010102310A2

Citation (examination)

- WO 9520345 A1 19950803 - EP TECHNOLOGIES [US]
- US 2008190438 A1 20080814 - HARLEV DORON [US], et al
- US 2008065061 A1 20080313 - VISWANATHAN RAJU R [US]
- US 6544176 B2 20030408 - MIKUS PAUL W [US], et al
- WO 2008090484 A2 20080731 - KONINKL PHILIPS ELECTRONICS NV [NL], et al

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