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(71) Applicant: **SATTVA MEDTECH PVT LTD** [IN/IN];
Aanand Towers, Municipal No.4, Rajaram Mohan Roy Rd,
Ward No. 77, Sampangiramanagar, Bangalore Karnataka
560025 (IN).

(72) Inventors: **JOSHI, Vibhav**; AANAND TOWERS,
MUNICIPAL NO.4, RAJARAM MOHAN ROY RD,
WARD NO. 77, SAMPANGIRAMANAGAR, BAN-
GALORE KARNATAKA 560025 (IN). **KAULGUD,**
Sumedh; Aanand Towers, Municipal No.4, Rajaram Mo-
han Roy Rd, Ward No. 77, Sampangiramanagar, Bangalore
Karnataka 560025 (IN). **MATHUR, Aditya**; Aanand Tow-
ers, Municipal No.4, Rajaram Mohan Roy Rd, Ward No. 77,
Sampangiramanagar, Bangalore Karnataka 560025 (IN). **S,**
Adaikkammai; Aanand Towers, Municipal No.4, Rajaram
Mohan Roy Rd, Ward No. 77, Sampangiramanagar, Banga-
lore Karnataka 560025 (IN).

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(54) Title: A MEDICAL ELECTRODE AND SYSTEM THEREOF

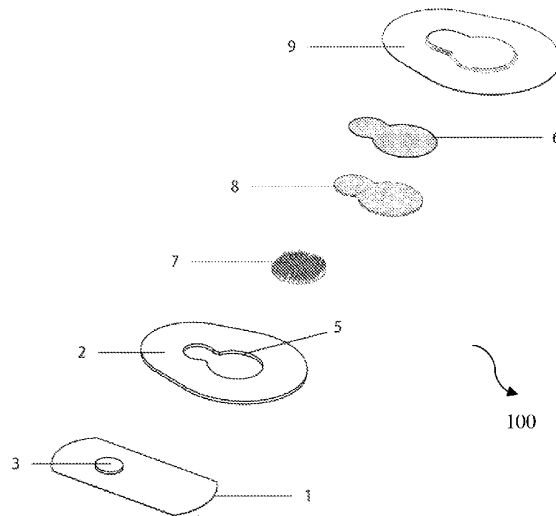


Figure 1A

(57) Abstract: The instant invention is a medical electrode comprising: an electrolyte; an absorbent material being in contact with the electrolyte, said absorbent material comprising a plurality of strands such that each strand is infused with the electrolyte; a pressing means being in contact with the absorbent material, said pressing means comprising a plurality of protrusions to push the strands of the absorbent material through the stratum corneum of a target skin area on a patient; and an electrically conductive means located adjacent to the pressing means, said electrically conductive means being in contact with the absorbent material. The instant medical electrode system achieves reduction of skin impedance at the site where the electrode is placed and generates low baseline noise, enabling accurate measurement of small or weak signals.

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