US 20230231330A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2023/0231330 A1**

**WEST** (43) **Pub. Date: Jul. 20, 2023**

(54) **SPRING LOCKING ELECTRODE CONNECTOR APPARATUS WITH MULTICONDUCTIVE CONTACTS AND METHODS THEREOF**

(71) Applicant: **ADVANTAGE MEDICAL ELECTRONICS, LLC**, CORAL SPRINGS, FL (US)

(72) Inventor: **IAN WEST**, PARKLAND, FL (US)

(73) Assignee: **ADVANTAGE MEDICAL ELECTRONICS, LLC**, CORAL SPRINGS, FL (US)

(21) Appl. No.: **18/156,948**

(22) Filed: **Jan. 19, 2023**

**Related U.S. Application Data**

(60) Provisional application No. 63/300,823, filed on Jan. 19, 2022.

**Publication Classification**

(51) **Int. Cl.**

| | |
|---|---|
| ***H01R 11/24*** | (2006.01) |
| ***A61B 5/273*** | (2006.01) |
| ***A61B 5/28*** | (2006.01) |

(52) **U.S. Cl.**

CPC ..... ***H01R 11/24*** (2013.01); ***A61B 5/273*** (2021.01); ***A61B 5/28*** (2021.01); *H01R 2201/12* (2013.01); *A61B 2562/227* (2013.01)

(57) **ABSTRACT**

A novel ECG electrode connector adapted for attachment to a biomedical patient electrode by either pinch or snap connection is disclosed. A closed-end electrical connector includes a pair of pivotally connected members including a main connector body having two electrically conductive contacts located in proximity to one side of an ECG stud, and a jaw pivotally connected thereto and resiliently biased to a closed position. An ECG electrode connector in accordance with the present disclosure may further be fabricated of radiolucent materials.