

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0215171 A1 FAWCETT et al.

Jun. 27, 2024 (43) **Pub. Date:**

(54) STRAP FOR A WEARABLE DEVICE

(71) Applicant: ARMOUR SURVEILLANCE SECURITY EQUIPMENT AND **TECHNOLOGY LTD**, London (GB)

Inventors: Patrick James FAWCETT, London (GB); Richard DINAN, London (GB)

Appl. No.: 18/389,635 (21)

Filed: (22)Dec. 19, 2023

(30)Foreign Application Priority Data

Dec. 22, 2022 (GB) 2219487.2 Feb. 28, 2023 (GB) 2302890.5

Publication Classification

(51) Int. Cl. H05K 1/18

(2006.01)(2006.01)

A44C 5/00 H05K 1/02 (2006.01)

(52) U.S. Cl.

CPC H05K 1/189 (2013.01); A44C 5/0007 (2013.01); H05K 1/028 (2013.01); H05K 2201/10037 (2013.01); H05K 2201/10098 (2013.01); H05K 2201/10431 (2013.01); H05K 2201/10462 (2013.01)

(57) ABSTRACT

A strap for a wearable device comprises a printed circuit board (PCB) located within said strap. The PCB comprises a first electronic component, coupled to a first flexible portion. The first electronic component is mounted to a cage, the cage comprising a cage pivot mount. The flexible portion is under tension and urges said first electronic component towards said cage pivot mount such that a pivotable connection is formed between said cage and said first electronic component. Also disclosed is a method of manufacture of the strap.

