



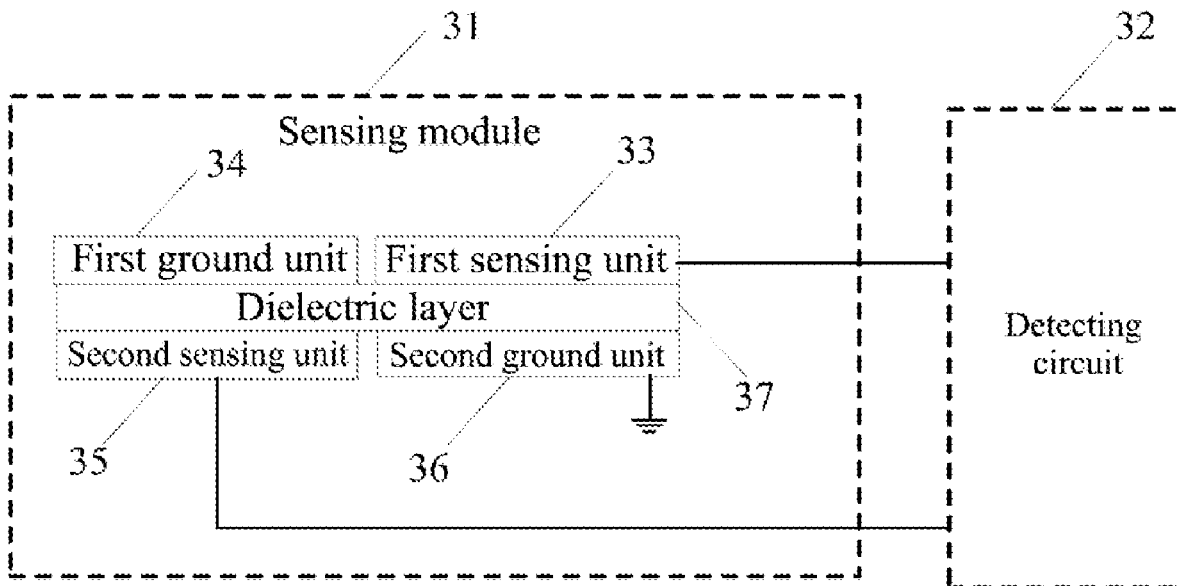
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(19) **United States**(12) **Patent Application Publication**
CHENG et al.(10) **Pub. No.: US 2022/0399892 A1**(43) **Pub. Date: Dec. 15, 2022**(54) **CAPACITANCE DETECTION MODULE AND METHOD***G01R 27/26* (2006.01)*G01D 5/24* (2006.01)(71) Applicant: **SHENZHEN GOODIX TECHNOLOGY CO., LTD.**,
SHENZHEN (CN)(52) **U.S. Cl.**CPC *H03K 17/962* (2013.01); *A61B 5/6802*
(2013.01); *G01R 27/2605* (2013.01); *G01D 5/24* (2013.01); *H03K 17/96* (2013.01)(72) Inventors: **SHUQING CHENG**, SHENZHEN
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ZICHENG GUO, SHENZHEN (CN)(57) **ABSTRACT**(21) Appl. No.: **17/890,212**(22) Filed: **Aug. 17, 2022****Related U.S. Application Data**

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The present application provides a capacitance detection module, a method and an electronic device, including: a sensing module and detecting circuit; a first sensing unit is disposed on the first surface of the sensing module, and a second sensing unit is disposed on the second surface of the sensing module; the first sensing unit and the second sensing unit are respectively connected to the detecting circuit; the detecting circuit is configured to determine, according to the capacitance value of the first sensing unit and the capacitance value of the second sensing unit, the wearing state of the user to the device having the capacitance detection module. Thereby the problem that the capacitance detection is affected by temperature is avoided.

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