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(54) Title: SWEAT SENSING DEVICE AND METHOD FOR FORMING THE SAME

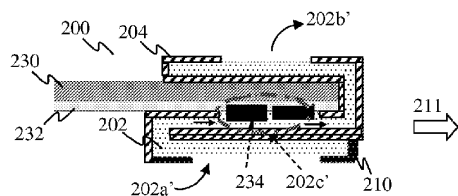


FIG. 2F

(57) **Abstract:** According to embodiments of the present invention, a sweat sensing device is provided. The sweat sensing device includes a continuous piece of hydrophilic paper including a first region for receiving sweat, a second region opposite the first region, and a third region therebetween; a flexible hydrophobic film having an opening; and a sensor unit. The hydrophobic film and the hydrophilic paper are arranged adjacent to each other with the opening aligned to and exposing the second region. The sensor unit is configured to facilitate a measurement based on the diffused sweat. The hydrophobic film and the hydrophilic paper are collectively folded in a stacked manner such that the sensor unit is sandwiched between the third and second regions. The hydrophilic paper is adapted for the received sweat to diffuse laterally along the hydrophilic paper. According to further embodiments, a method for forming the sweat sensing device is also provided.