**TITLE OF INVENTION: STRETCHABLE ELECTROCARDIOGRAM (ECG) APPARATUSES**

## ABSTRACT

In certain examples, methods and structures are directed to an apparatus having a plurality of stretchable leads, with each of the plurality of stretchable leads including an associated electrode which is to receive electrical signals generated in response to a subject-s heart and to pass the received electrical signals along a respective one of plurality of stretchable leads. The apparatus also includes a patch integrating the stretchable substrate with the plurality of stretchable leads and with the patch having an area for circuitry to reside for collecting the electrical signals passed along each of the plurality of stretchable leads, wherein each of the plurality of stretchable leads is to be on a subject side of the patch. In more particular examples, the circuitry is used to provide a multi-lead ECG based on the electrical signals.

FIG. 2