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(54) Title: ELASTIC CONDUCTIVE STRIPE AND METHODS OF UTILIZING THEREOF

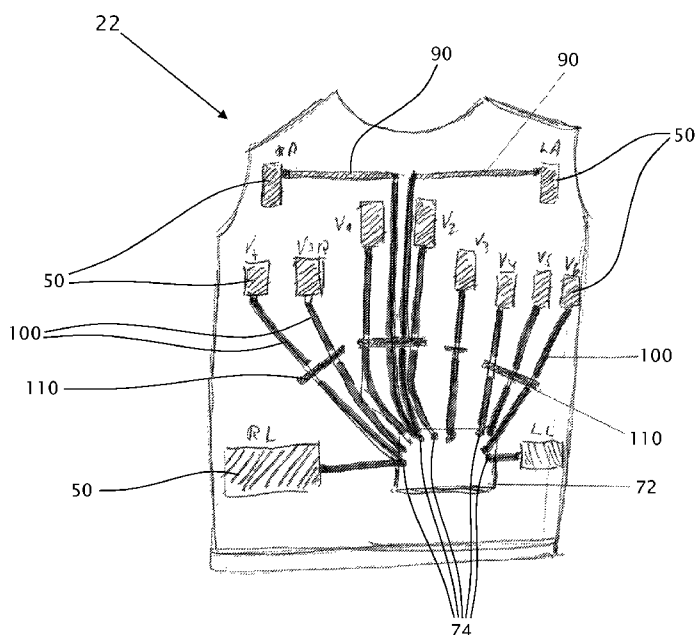


Fig. 4

(57) Abstract: According to the teachings of the present invention there is provided a knitted smart garment. The garment includes a tubular form having variable elasticity and at least one conductive textile electrode for sensing an electrical vital signal, such as a clinical-level ECG signal. The garment further includes at least one elastic and loose conductive stripe, having a first end and a second end. The first end of the at least one conductive stripe is securely attached to a respective conductive textile electrode, and the second end of the at least one conductive stripe is operatively connected with a processor. The elasticity and looseness of the at least one conductive stripe is configured to prevent a pulling force from being applied to the respective conductive textile electrode, when the garment is stretched.



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