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(54) Title: THIN, FLEXIBLE WEARABLE IMMUNOSENSOR FOR DETECTION OF MULTIPLE BIOMARKERS/TARGETS IN BODILY FLUIDS

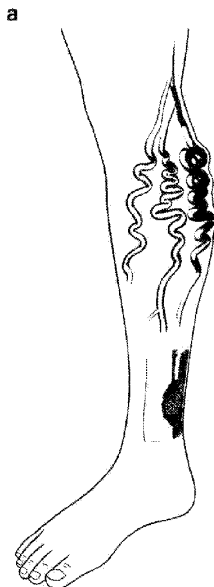


Figure 1

(57) Abstract: The invention provides a layered dressing comprising: permeable wound contact layer for placing in contact with a wound; a breathable barrier layer; a biosensor sensing array configured to detect one or more markers in wound fluid; and a fluid collection layer disposed between the wound contact layer and a breathable barrier layer and configured to deliver wound fluid by capillary action from a wound in contact with the wound contact layer to the biosensor array. In a preferred embodiment, the layered dressing comprises aptamer-based electrodes for detecting TNF- α , IL-6, IL-8, TGF- β and an epitope of *S. aureus*.

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