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(54) Title: METHODS AND SYSTEMS FOR NEAR-FIELD COMMUNICATION

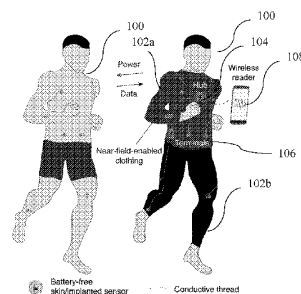


Figure 1(a)

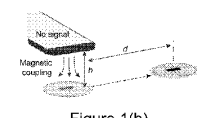


Figure 1(b)

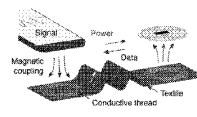


Figure 1(c)

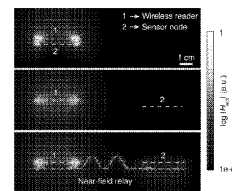


Figure 1(d)

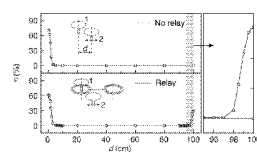


Figure 1(e)

(57) Abstract: Methods and systems for a near-field communication. In one aspect, a method of fabricating a relay for a near-field communication system comprises the steps of providing a flexible substrate; and providing an electric circuit on the flexible substrate, wherein the electric circuit comprises a hub inductor pattern configured to receive and transmit via electro-magnetic induction; one or more terminal inductor patterns laterally spaced apart from the hub inductor pattern relative to a surface of the flexible substrate and configured to receive and transmit via electro-magnetic induction; and a connecting trace between the hub inductor and the one or more terminal inductors.

[Continued on next page]

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