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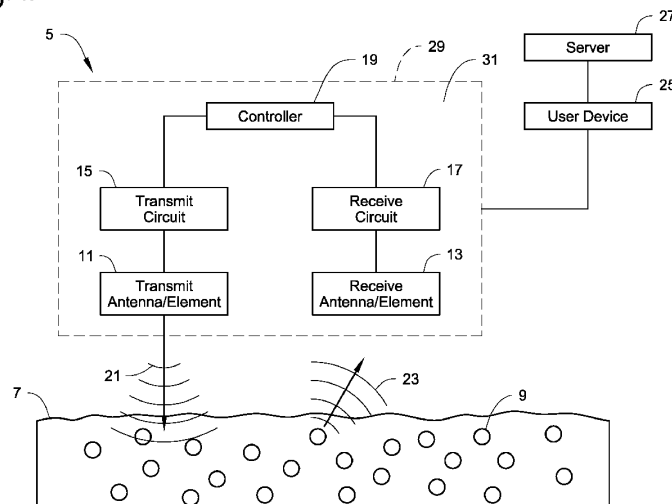
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(54) Title: FIXED OPERATION TIME FREQUENCY SWEEPS FOR AN ANALYTE SENSOR

Fig. 1



(57) Abstract: Sensors that detect an analyte via spectroscopic techniques using non-optical frequencies such as in the radio or microwave frequency range of the electromagnetic spectrum or optical frequencies in the visible range of the electromagnetic spectrum. An analyte sensor described herein includes a detector array having at least one transmit element and at least one receive element. The transmit element and the receive element can be antennas or light emitting elements such as light emitting diodes. The sensor is controlled to implement first and second frequency sweeps and the frequency sweeps have at least one overlapping range of frequencies where the operation times are the same between the first and second frequency sweeps.

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