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(54) Title: WIRELESS SENSOR READER WITH MULTIPLE FIXED EXCITATION FREQUENCIES

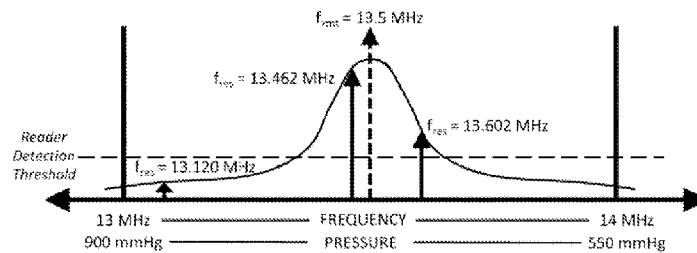


FIG. 1 – Prior Art

(57) Abstract: A wireless sensor reader configured to ascertain the resonance frequency of a sensor may comprise a transmit circuit configured to transmit a wireless energizing pulse at a transmit frequency to the sensor, exciting a resonant circuit within the sensor to resonance at a frequency proportional to a measured parameter and a receiver circuit configured to receive a response signal from the sensor, the response signal being a continuous wave at the sensor resonance frequency. The wireless sensor reader may also comprise a circuit for determining the frequency of the sensor response signal, where the reader selects the transmit frequency of the energizing pulse from a plurality of discrete narrowband frequencies, the selection taking place before the determination of the frequency of the sensor response signal.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER				
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CPC - INV. A61B 5/0215; A61B 5/0031; A61B 90/98; G06K 7/10386; G06K 7/10425				
ADD. G16H 10/65				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) See Search History document				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched See Search History document				
Electronic database consulted during the international search (name of database and, where practicable, search terms used) See Search History document				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 2023/0072070 A1 (ENDOTRONIX, INC) 09 March 2023; Paras. [0036], [0047], [0071], Figs. 1-2	1-27		
A	US 2010/0308974 A1 (ROWLAND ET AL) 09 December 2010; Paras. [0032], [0039], [0043], Fig. 1	1-27		
A	US 2011/0181297 A1 (JOY ET AL) 28 July 2011; Paras. [0009], [0035], Fig. 3	1-27		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.				
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