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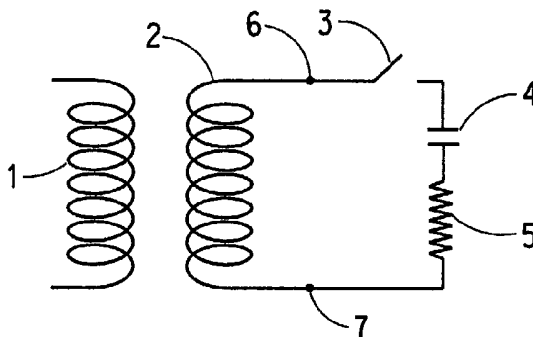
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(54) Title: Q-DAMPING OF A HIGH TEMPERATURE SUPERCONDUCTOR SELF-RESONANT COIL IN A NUCLEAR QUADRUPOLE RESONANCE DETECTION SYSTEM



(57) Abstract: The use of a bias controlled diode in the Q-damping circuit of a high temperature superconductor transmit, receive, or transmit and receive self-resonant coil in a nuclear quadrupole resonance detection system results in improved performance. The diode is operated with a forward bias such that the diode is resistive with a resistance of about 10 to about 1000 ohms.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01R33/44				
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B. FIELDS SEARCHED				
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 6 291 994 B1 (KIM YONG-WAH ET AL) 18 September 2001 (2001-09-18) abstract column 7, lines 33,34 - column 12, lines 22-29; figure 12 column 17, lines 41-46	1-28		
A	WO 99/45409 A (BTG INTERNATIONAL LTD; ROWE, MICHAEL, DAVID; SMITH, JOHN, ALEC, SYDNEY) 10 September 1999 (1999-09-10) page 23, paragraph 4	1-28		
A	WO 00/70356 A (INTERMAGNETICS GENERAL CORPORATION) 23 November 2000 (2000-11-23) abstract page 2, paragraph 3	1-28		
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° Special categories of cited documents :				
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 03/040761 A (THORLOCK INTERNATIONAL LIMITED; RUDAKOV, TARAS, NIKOLAEVITCH; MIKHALTS) 15 May 2003 (2003-05-15) abstract page 4, lines 1-30 - page 4, paragraph 1 -----</p>	1-28

INTERNATIONAL SEARCH REPORT

Information on patent family members

Interr

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