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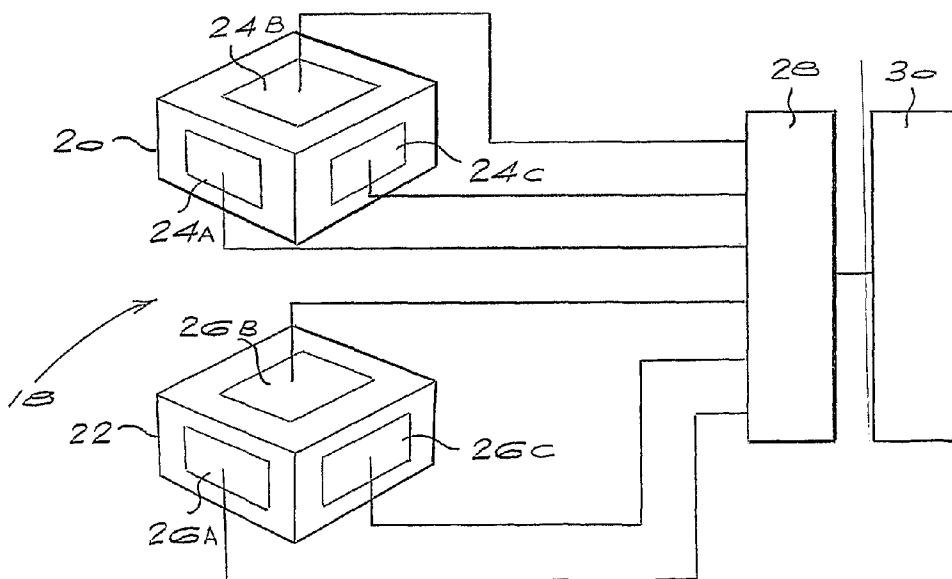
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[Continued on next page]

(54) Title: LOW TEMPERATURE SQUID TRANSIENT ELECTROMAGNETIC RECEIVER SYSTEM



(57) Abstract: A receiver system (18) for an electromagnetic prospecting system is disclosed. The electromagnetic prospecting system comprises a transmitter for transmitting a primary electromagnetic field so as to generate a secondary electromagnetic field from a terrain that is being prospected, the secondary electromagnetic field having a transient, decaying time domain profile. The receiver system (18) comprises first and second sensors (20, 22) for detecting the secondary electromagnetic field, wherein the second sensor (22) is less sensitive than the first sensor (20) so as to detect the secondary electromagnetic field over a first time period, with the first sensor (20) being used to detect the secondary electromagnetic field after the first time period. Typically, each sensor (20, 22) comprises three orthogonal SQUID magnetometers, with the second sensor (22) being approximately 10 times less sensitive than the first sensor (20).

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
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