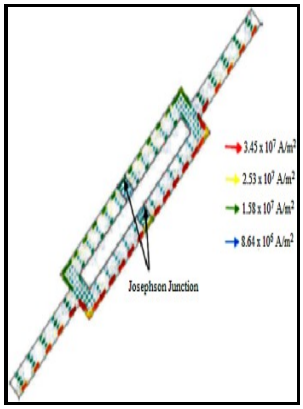
Magnetic detection of cardiac signals usiong a Josephson junction.

- - Josephson magnetic random access memory system and method by Northrop Grumman Systems Corporation



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Physics ThesesMagnetic detection of cardiac signals usiong a Josephson junction.
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The pulses are switched by Josephson junctions instead of conventional transistors. First, the AFMO linewidth Δ ω is independent of the generation frequency in the limit , which is caused by the fact, that the average motion and fluctuations of phase, described by the equation 8 , are independent.

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Australian patent AU2011245710 is one of over a million that we feature on IP in Australia which covers the entire spectrum of patents in Australia. TDK is also working on the development of a biomagnetic field measurement system with a resolution of a few pT.

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The recorded time signatures of the decaying magnetic fields are then analysed to determine the presence of unseen deep magnetic anomalies. Superconductivity can be induced in a semiconductor material by the proximity effect. The JMRAM of claim 9, wherein the at least one magnetic Josephson junction comprises a pair of parallel magnetic Josephson junctions, the HMJJD further comprising a discrete inductor interconnecting the pair of parallel magnetic Josephson junctions and directly coupled to the bit-read line, the discrete inductor being inductively coupled to the word-read line to induce a current in the HMJJD in response to the word-read current.

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However, in practical terms, an extremely highly sensitive magnetic sensor that can replace the SQUID flux meter is required for development and spread of the magnetocardiograph.

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The three Josephson junctions are oriented so that no two are in the same plane. It will be clear that a single Josephson junction can be rotated in space and can replace the three separate Josephson junctions.

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The Josephson junction is an example of a device, operating on quantum mechanical principles, that is responsive to the magnetic vector potential. In a SQUID flux meter, it was difficult to change the arrangement of sensors inside the Dewar for cooling, and a separate device was necessary for each targeted part, such as a magnetoencephalography for brain magnetic fields and a magnetocardiograph for cardiac magnetic fields. Thus the detecting apparatus can determine when the apparatus itself is on the path line.

Theoretical analysis of the new microwave detector based on a Josephson heterostructure

If a rotating field is established which defines a - line to the generating apparatus, the three Josephson junction detecting apparatus can be used to determine if the detecting apparatus is still aligned with the rotating field. Its main prediction that every elementary particle has a complex conjugate counterpart—an antiparticle—has been confirmed by numerous experiments. Receiver 21 includes, in the preferred embodiment, a thin dielectric sheet sandwiched between a pair of superconductors in an appropriate cryogenic environment.

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