

Build the Bioelectrifier

Can you heal yourself and take a poke at the medical establishment at the same time?

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Back by popular demand, this article is reprinted—with a new addendum—from May 1996.

One of the first things a new amateur learns is that electricity and biology are not very compatible. A brush with the AC line can be a painful experience, and accidental contact with the high-voltage supply of a large transmitting tube can be fatal. Because of this early training, occasionally reinforced by an unpleasant accidental jolt, it might surprise some hams that tiny electrical currents can be beneficial to the human body.

For some time, doctors have known that passing a small current through a broken bone will cause it to heal faster. Damaged tendons and nerves also seem to respond to this treatment. Exactly why this works is not known, although a doctor once explained to me that it seemed to focus the body's attention on the area.

Recently, doctors at the Albert Einstein College of Medicine reported discovering that passing a current of

only 50 microamps through the blood can prevent certain viruses, notably the HIV virus, from replicating. The current became even more effective when the polarity was reversed several times a second. The implications are enormous.

Unfortunately, there has been very little interest in this phenomenon by the medical community. Those of us who read Wayne Green's editorials have become aware of a simple device which introduces a small electrical current through the legs by placing electrodes on the ankles. Since the arteries in the legs are large, and the blood has less electrical resistance than the surrounding tissue, this technique results in most of the current flowing through the blood. This is an ideal approach for amateur experimentation, since it is totally external, and the required voltage and current levels are so tiny as to pose no danger. I decided to design such a device, using a simple printed circuit board, and easily

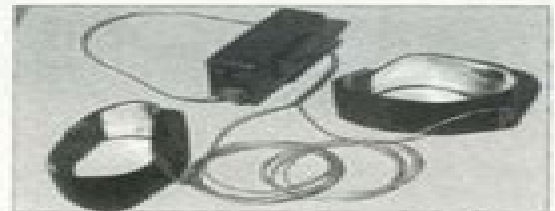


Photo A. The Bioelectrifier with belt clip and ankle electrodes.

obtained parts, so that it could be duplicated by other amateurs.

At this point, let me state that I make no medical claims for this device. To paraphrase a famous Chief Medical Officer, I'm an engineer, not a doctor. Since very few doctors are electronics experts, there are many who would love to research the possibilities of this approach to eliminating viruses in the blood, but are unable to build the needed experimental device. They need your help.

So I present this circuit for those wishing to help doctors experiment in an unknown field, and also as an interesting study in design and construction.

Designing a Bioelectrifier

Before attempting to design any device, it's a good idea to make a list of goals. In this case, it's a simple list:

- (1) The device should produce a current flow of 50 microamps from one ankle to the other. Experimentation has shown that this requires 30 to 35 volts.
- (2) It must be capable of reversing the current flow several times per second. This rate should be adjustable.
- (3) It must be all solid-state—no DPDT relays clacking away, eating up the batteries.

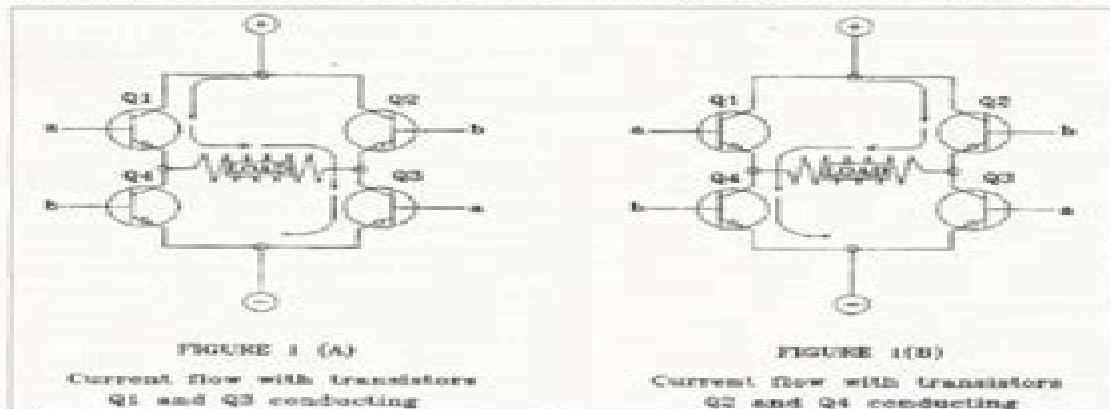


Fig. 1. Four transistors are used to reverse the current flow by being energized in pairs.

Read Bioelectrifier 1997

Katrin Zwirglmaier



Read Bioelectrifier 1997:

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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Read Bioelectrifier 1997.

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web untuk itu kita harus men stop putaran motor terlebih dahulu sebelum membalik arah putarannya berikut ini adalah gambar rangkaian kendali dan rangkaian daya dari pembalikan arah putaran motor induksi tiga fasa

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web oct 3 2013 untuk mengubah atau membalik polaritas tegangan rst itu biasanya digunakan rangkaian pengendali mekanik dan magnetik yaitu rangkaian kontaktor dan sebagai pengaman motor dipasang juga pelindung motor thermal overload perhatikan gambar diagram utama daya forward reverse berikut ini rangkaian daya forward reverse

rangkaian utama pembalik putaran motor listrik 3 fasa - Aug 21 2023

web paling mudah untuk membalik putaran motor listrik adalah dengan membalik atau menukar salah satu line input dari sumber listrik yang 3 fasa ke line atau phase yang lainnya menuju ke lilitan stator motor listrik untuk lebih jelas berikut skema rangkaian daya forward reverse 1 putaran arah maju forward

rangkaian membalik putaran motor 3 fasa forward reverse - Jul 20 2023

web rangkaian membalik putaran motor 3 fasa forward reverse motor listrik adalah alat yang memanfaatkan merubah energi listrik menjadi energi gerak putaran dengan prinsip induksi magnetik motor listrik yang bisa digunakan ada dua jenis yaitu motor listrik ac menggunakan sumber listrik bolak balik pln dan motor listrik dc menggunakan

doc laporan motor induksi 3 fasa ria mufaidah academia edu - Dec 13 2022

web laporan resmi praktikum membalik arah putaran motor induksi 3 fasa mata kuliah praktikum mesin listrik dosen pembina dr joko m pd m t praktikum ke 3 kelompok 5 ria mufaidah 15050514028 syafi ul arif 15050514030 bagus dwi

ardiyansyah 15050514050 baghas elmo 15050514067 muhammad arianto

membalikan arah putaran motor listrik 3 fasa - Jan 14 2023

web dalam hal ini jenis motor yang digunakan adalah motor induksi tiga fasa akan membahas tentang rangkaian kendali dan rangkaian daya dari pembalikan arah putaran dari sebuah motor induksi tiga fasa

pembalik arah putaran motor dc crowds - Sep 10 2022

web untuk mengubah putaran dari sebuah motor dapat dilakukan dengan mengubah arah arus yang mengalir melalui motor tersebut pada awalnya motor berputar searah jarum jam kemudian dengan membalik polaritas tegangan yang diberikan maka motor akan berubah arah putarannya

rangkaian pembalik putaran motor listrik 1 fasa - Oct 23 2023

web rangkaian pembalik putaran motor listrik 1 fasa penjelasannya akan saya bagi dua o ya lupa pembahasan motor listrik 1 fasa yang saya maksud di sini adalah motor kapasitor perlu diketahui bahwa motor 1 fasa selalu terdapat dua kumparan yaitu kumparan utama dan kumparan bantu main winding dan auxiliary winding yang berfungsi sebagai

8 cara membalik putaran motor 1 phase general tutorial - Jun 19 2023

web sep 9 2022 teori membalik putaran motor listrik 1 fasa sama halnya dengan motor listrik 3 fasa yaitu dengan dengan cara membalik arah fluksi magnet pada kumparan statornya secara praktek untuk membalik motor listrik 1 fasa yaitu membalik arah kumparan utama terhadap kumparan bantu atau sebaliknya untuk jelasnya dapat di lihat

rangkaian motor bolak balik 3 phase teknik elektro - Apr 17 2023

web sep 3 2021 rangkain forward reverse atau rangkaian motor bolak balik 3 phase adalah suatu rangkain motor listrik yang bertujuan untuk membalik arah putaran motor yaitu searah jarum jam atau berlawanan arah jarum jam

cara membalik arah putaran motor star delta all of life - Jul 08 2022

web untuk membalik arah putaran motor star delta sebenarnya sama saja dengan membalik putaran motor induksi 3 fasa yang beroperasi dalam koneksi delta ataupun motor induksi 3 fasa yang beroperasi dalam koneksi star yaitu dengan membalik salah satu tegangan yang masuk ke motor