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## V. KAZNACHEEV

### Kozyrev Mirrors

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[http://www.youtube.com/watch?v=QXJ3FvUBX4E&feature=player\\_embedded#at=614](http://www.youtube.com/watch?v=QXJ3FvUBX4E&feature=player_embedded#at=614)

### Kozyrev Mirrors -- Breaking The Future

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<http://www.lawoftime.org/research/isricapv.html>

#### ISRICA and the PAKAL VOTAN PROJECT

**Invitation to Participate in a Global Telepathic Experiment**  
 ( \*Experiment has already been held, results forthcoming )

#### **Introduction: ISRICA, Russian Cosmism and the Kozyrev Mirrors.**

*ISRICA* - Institute for Scientific Research in Cosmic Anthropoecology - is an organization within the Russian Academy of Sciences, Novosibirsk, Siberia, with which the Research and Development Center of the Foundation for the Law of Time has entered into a collaborative relationship. The work at ISRICA is largely based on original research of N. A. Kozyrev, and to a lesser degree, V. I. Vernadsky, as elaborated upon by V.Kaznacheev and Alexander Trofimov.

Kozyrev's work in particular has been of interest to the Foundation's Research and Development Center because of his extensive investigations into the nature of time. Through his astronomical and mathematical studies, Kozyrev concluded that time is actually a kind of information frequency beam transmitted from stellar cores (which his studies showed to be not hot and dense but relatively cool and more hollow, though quite complex in nature). Based upon Kozyrev's findings, the second axiom of the Law of Time states: The velocity of time is instantaneously infinite. It is this principle of time that accounts for the transmission of telepathy.

Several different streams of thought and research have arisen from Kozyrev's profound and often controversial work. The ISRICA represents the stream based upon and often utilizing the "Kozyrev mirrors," and of which V. Kaznacheev has been the principle researcher.

The Kozyrev mirrors are installed in such a way as to create a closed space in which there is a weakening of the magnetic field of the Earth, and which thereby provides more human access to solar and galactic information. Through numerous experiments using the mirrors with this intention, the ISRICA has focused studies in a number of areas, including human psychophysiology, pathology of disease and health, and the evolvement of telepathic fields and remote sensing. In 1990-91, a precursor of the rainbow bridge experiment was conducted entitled, "The 'Aurora Borealis' Global experiment on Investigation of Distant-Informational Interactions in the Noosphere and their Role in the Planet-Biospheric Homeostasis of the Earth." The conclusions the ISRICA scientists have drawn from the experiments with the Kozyrev Mirrors are often startling to the Western mind, and can best be understood within the context of the Russian school of thought known as Cosmism.

Originally derived from the research of the famous pioneering scientist of the biosphere, V. I. Vernadsky, the grand perspective of Cosmism is stated in the opening paragraph to the book, *Cosmic Consciousness of Humanity: Problems of New Cosmogony* (Kaznacheev and Trofimov, 1992):

"The total world human Intellect in its cosmoplanetary motion is neither derivative from nor some procreation of, the social movement (social cultural historical development). It is the peculiar cosmoplanetary phenomenon in the organization and motion of the Universe Living matter in its earth-adapted manifestation." (p.6)

This point of view plants the notions of mind, thought, intellect and science in the cosmic realm as functions of self-existing thinking layers dispersed throughout the universe and which are adapted by temporal conditions to the evolving

states of planetary biospheres or planetary/stellar noospheres. However, the nature of modern historical civilization has been to separate society from science and to isolate science as a sociocultural mechanism apart from its genuine reality as cosmoplanetary thought stream. Establishment science regulated by totalitarian legislation becomes merely another belief system, so that new science is denounced as false science, and the “defenders of ‘science’ invisibly dress themselves in an infallible cloak of Belief, not science.” (p.7)

According to Vernadsky, the “natural science crisis is the main cause of the close doom of humanity and the planet.” This summary reflection of Vernadsky’s forms the basic premise of the research at ISRICA. “As a matter of fact,” write Kaznacheev and Trofimov, “in the XXth century, Mankind’s world culture and its total intellectual space diverge in the direction of the Necrosphere. The world of the unknown is the only world of our possible salvation.” (p.9)

As a consequence, the research of V. Kaznacheev, utilizing the mirrors in order to engage in cosmoplanetary experimentation, demonstrates that there are shifts in the human intellect at a new horizon, where virtual reality and virtual brain nature - the paranormal activated through ether torsion properties - begin to loosen up, evolving us into a period of new kinds of transpersonal interactions of the human mind. As Kaznacheev himself comments:

“Obviously, it is a great research step, having a possibility of combination of physical methods with psychophysiological human intellect possibilities and its field of ether-torsion properties. Maybe this technology is proposed to study biospheric complexes, considered as basic solar units, as the state of the nearest and least removed cosmic space.

“Thus, a new principle of observation in planet information space is proposed. This principle may open unknown properties of the holographic flows of a living substance in combination of this space with the known substance of the inert world, mentioned by V. I. Vernadsky.” (From a paper, “About Some Observations in the Planet Information Space,” by A.V.. Trofimov (ISRICA, 2001))

It is this methodological premise that informs and is the basis of the ISRICA PAKAL VOTAN Project. It is most interesting that not too long after the discovery of the tomb of the great Pakal in the late 1950s and early 1960s, Russian researchers, also at the Novosibirsk Academy of Sciences, produced a monumental four-volume mathematical analysis of Mayan hieroglyphic texts, the findings of which were confirmed by the Dreamspell codes some 30 years later. Now comes the PAKAL VOTAN Project whose purpose is to create a remote sensing-Kozyrev mirror experiment which combines the research methods of Russian scientists with the hypotheses of holographic resonant information transmissions first presented in the Mayan Factor (1987). Herein we reproduce the ISRICA project proposal, and the dates and times of the séances which are to occur between May 29 (Spectral Moon 28, Resonant World Bridger), and June 3 (Crystal 5, Blue Crystal Monkey), 2005 - Blue Crystal Storm year:

### **The PAKAL VOTAN Project, ISRICA: Working Out and Proof of Methods of Distant Information Interactions Between Civilizations**

The project, realized by the Institute for Scientific Research in Cosmic Anthropoecology (ISRICA), is devoted to the study of the Mayan Factor, which is not only of the past, but an actively operating system of the present and future. Correct application of this system may help to involve humanity in the Galactic Community and persons who have realized their past and future will be able to become interstellar mediators: to direct and receive galactic information from different levels of the universal electromagnetic ocean. (J. Arguelles, 1987,1989)

Following the route of resonant transmission between star systems by use of an installation, condensing energy-time (Kozyrev mirrors), and allowing (according to N.A. Kozyrev’s hypothesis) to transmit (and receive) messages instantly to different points of the universe - and also as an installation, weakening the magnetic field of the Earth more than 600 times, thus bringing the human into an almost direct interaction with cosmic energy-information flows, we should be able to “see” and study in detail the Mayan information flow which reached our planet nearly three thousand years ago.

The project includes a series of ten séances of distant-image translation of information on the basis of a 260-element fractal model as a special holographic scanner - a part of Galaxy’s “mirror” for entrance into another measuring of being and consciousness.

The séances of transmission and receiving of image-symbolic and landscape-architectural information - will be carried out from 29 of May to 3 of June, 2005, from different points of our planet, and in Novosibirsk - from “Kozyrev’s mirrors,” and an installation, weakening the Earth magnetic field. Transmission of information will be carried out by specially trained operators. Other participants may verify their abilities in information transmission only twice: in the second and the eighth séances (see Time Table). It will be necessary to include not less than 5 symbols (signs), being chosen arbitrarily in the program, and state them in the transmission protocol.

Receiving information, in accordance with adjusted timetable, may be held by all comers. During the time designated in the time table, persons who are trying to receive information must stay away from external irritants and stimuli, stay in a state of meditation, and then draw and comment on all information received, and send it on the same day by e-mail:

<isrica2@rambler.ru>, by fax +07 (383 2) 39 14 33, or by post address: A. Trofimov ISRICA, 2 Acad. Timakov's Street, 630117 Novosibirsk, Russia

It will be necessary to sign a protocol and indicate one's date (day, month, year) and place of birth, exact time of séance, place (city, town, type of building: reinforced, brick, or wooden house) and situation (at home, in nature, in presence of other people, switching off TV etc.), during which information was received, and also one's contact information (e-mail and post address). All participants will be notified of the results following analysis of the data received.

The Institute directors thank in advance all who take the decision to participate in this investigation.

Prepared by the Research and Development Center, Rainbow Circle Sanctuary  
Foundation for the Law of Time, Ashland, Oregon

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<http://www.hyder.demon.co.uk/trip.htm>

## THE ROAD TO ERZIN

(Excerpt)

by

**Ken Hyder**

...We do the last gig in a students' club then spend the night drinking. In the morning, it's our last day, and we have nothing to do and we ask : "Is there anyone here who's an expert on shamanism?" Someone suggests we try Vlail Kaznacheev.

He's an expert on bioenergy and cosmology at the Russian Academy of Medical Sciences (Siberian Division). Normally he doesn't see people for long, but he agrees to give us an hour.

He selected the site of his institute by dousing, and when we ask him about shamanism he said: "Shamanism is not a religion. It's a special phenomenon of the intellect and spirit of the human being." He said that we --- meaning society --- have to study shamanism as a unique phenomenon.

His line of argument goes like this. In the beginning, humankind communicated with a different field of the brain but there were cosmological changes in the earth's magnetism. This made it difficult for people to continue communicating in this psychic way --- except for shamans.

And people went on to invent and use language. Experiments in Akademgorodok with hypo-magnetic chambers where the magnetic field is greatly reduced, induces changes in intellectual and spiritual properties.

Humans can transfer thoughts while in the chambers --- and the professor talked about distant-viewing experiments thousands of miles apart.

Some people were seeing the image BEFORE it was transmitted. He talked about carbon 13 disappearing from people's cells as they get older.

But there are some periods of life where there is special growth --- like shamanic ecstasy.

Nuclear tests and a surfeit of radio and tv signals are making the earth very much older.

He says: "We're coming to a new ecology with a deficit of isotopical atoms like carbon and oxygen. Step by step, intellectual properties will move to global craziness. "In order to survive as human kind, the instrument we need is shamanism."

He talked about healing from a distance and experiments which showed how cells anticipated changes due to the eclipse, hours or even up to two weeks beforehand.

We are shown the hypo-magnetic chambers and Professor Kaznacheev says that when scientists looked at a number of prehistoric sites they found that the special power spots --- like altar stones --- tended to be bang on magnetic anomalies. We try out the chambers one switched on, the other not. They look like big bodyscanners. Immediately I felt a tingling on my hands in one, but nothing in the other. Then he talked about Kozyrev's mirrors --- a kind of room where aluminium sheets distort time and space. They use the room for distant viewing experiments.

Kozyrev's space was invented by Russian astro-physicist Nicolai Kozyrev (left) who believed that time was a conduit for energy. Like a lot of scientists, he spent time in the gulag --- where he was said to have had discussions on time and energy and transferring thoughts over a distance with shamans who were also prisoners.

Professor Kaznacheev's assistant Alexander Trofimov (below) asks us if we would like to experience Kozyrev's Mirrors, but warns that people are often not the same when they come out.

He takes us down to the basement and through a door which can be sealed with a wheel like on a submarine.

The room is a kind of spiral and does not look particularly special or weird. He asks us again if we want to go ahead and warns that a lot of people get frightened.

We are to shout stop if we can't take it. So the lights go out. I feel a pressure on my hands, yet at the same time there's a feeling of weightlessness.

Tim feels dizzy and sick and is almost on the point of stopping. I have a sensation of flying. Tim also has physical sensations, twinges.

We experienced other things in this space which we don't want to talk about.

The whole thing made us determined to check out the phenomena when we got back.

Summing it all up, Professor Kaznacheev talks about art and music and shamanism. And magnetic anomalies. And communicating with the mind over long distances. And how music and art are really holograms.

He says : "It's not just a flat painting that you see, but also the way the painter was seeing the sky, or his girlfriend yesterday, or in the pub the day before. While the time and place is fixed, the rhythm of nature and music is a hologram of time, and rhythm in time.

"So if you create this hologram right you can heal people. But it can also kill people."

The Akademgorodok coda took us by surprise. In Siberia it seemed the shamans were doing their thing while the scientists were trying to figure out how they did it.

I trawled the net for information on Kozyrev. Information is limited and few British scientists are aware of his work. We still don't know the secret of Kozyrev's Mirrors.

It looks like we'll have to go back again.

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## **Kozyrev's Mirrors and Electromagnetic Null Zones: Reflections of Russian Cosmic Science**

**Interview with Alexander V. Trofimov, MD  
by Carol Hiltner**

IMAGINE STANDING UNDER A VAST, SCINTILLATING AURORA BOREALIS, and seeing it change colors as you changed your thoughts. This exact situation led Russian medical doctor Alexander V. Trofimov into his groundbreaking research on human consciousness, in collaboration with Vlail P. Kaznacheev, and following in the footsteps of the great 20th century physicist Nikolai Kozyrev.

Essentially, Kozyrev devised reproducible experiments that prove the existence of a "torsional energy field" beyond electromagnetism and gravity, which travels much faster than light. He called it the "flow of time." Others, Einstein among them, have called it "ether." Others call it "zero point energy."

Within this "flow of time," the past, present, and future all exist at the same time, and in every place. This discovery sets the stage for all psychic phenomena to be scientifically explainable. Trofimov and Kaznacheev have, for the past thirty years, been experimentally developing the practical explanations, and have made some surprising discoveries.

When I visited Trofimov's laboratories at the International Scientific Research Institute for Cosmic Anthro-ecology in Novosibirsk, where he is general director, he enthusiastically showed us his two main experimental apparati — two hollow, metal, person-sized tubes, equipped with mattresses and drinking water.

The first, dubbed “Kozyrev’s Mirrors,” reflects thought energy (which exists within the “flow of time”) back to the thinker. This apparatus, invented by Kozyrev, gives access to intensified consciousness and altered states, including non-linear time — similar to a deep meditational state.

Trofimov’s work has consisted of “remote viewing” experiments across both distance and time. They discovered that results are more positive when the “sender” is in the far north, where the electromagnetic field is less powerful. So they invented a second apparatus that shields an experimental subject from the local electromagnetic field. Within this apparatus, their subjects can reliably access all place and time — past, present, and future — instantaneously. Construction specifications for these apparati are published in Russian scientific literature.

Among Trofimov and Kaznacheev’s conclusions are:

- 1) our planet’s electromagnetic field is actually the “veil” which filters time and place down to our everyday Newtonian reality — enabling us to have the human experience of linear time,
- 2) in the absence of an electromagnetic field, we have access to an energy field of “instantaneous locality” that underlies our reality,
- 3) that the limiting effect of the electromagnetic field on an individual is moderated by the amount of solar electromagnetic activity occurring while that person was in utero, and
- 4) that once a person has accessed these states, his or her consciousness remains so enhanced.

The implication is that the global electromagnetic soup of cell phones, radio, television and electric appliances actually impedes our innate communication abilities. The further implication is that expanded human consciousness is mechanically producible now, which raises the vast ethical question of how these apparati can be most beneficially used.

Carol: Alexander, why did you begin doing research in this field?

Trofimov: I very clearly remember the moment. It was March, 1975. After my post-graduate education, my first expedition as junior scientific researcher was to Dixon — a small village in the far north, which is located above 73 degrees latitude. It was to study adaptation of human organism to the conditions of the far north — a great experiment of U.S.S.R. Academy of Sciences. I worked with Kaznacheev, who was the creator of the civilian department of this Academy. I began my investigation as a cardiologist, studying the reaction of the cardiovascular system and the importance of different magnetic conditions.

I stepped outside our hospital to see the aurora borealis, which was like a cone over our building. This first impression was wonderful! I felt that we were interacting, that what I thought was changing the colors of the aurora borealis. I didn’t know whether it was my consciousness or cosmic consciousness. Only later did we learn about cosmic consciousness. But it was a beginning for me.

I continued my investigation as a doctor, and from approximately 1990, with Academician Kaznacheev, we began new cycle of work — the study of cosmic consciousness. Let me show you Kozyrev’s Mirrors. This apparatus is the grandfather of Kozyrev’s Mirrors — the first generation. Now we have seven generations. Carol: But why is this called a mirror? Where is the mirror?

Trofimov: We use the law of optical reflection — which also applies to streams other than light. When the surface is curved, according to this law, the energy is focused.

Kozyrev was also an astronomer. He created a small mirror to put inside a telescope, which he focused on one of the stars. And he programmed it for three times: one year in the past, the present, and one year in the future.

Carol: And how did he program that?

Trofimov: He simply calculated, using some mathematical methods. He had the know-how to calculate where it was, where it should be, and where it is — its projected location. So he realized that the star is present everywhere — in the past, present, and future.

Carol: But that is common knowledge. What was the discovery?

Trofimov: We wanted to prove it in a scientific way. Kozyrev proved it in astronomical terms. Our task was to prove it in biological terms. So the legacy of Kozyrev was that, if people could create such kinds of apparatus that are capable of creating density of the energy of time, from this point they could have the opportunity to visit any place in the universe.

We created such an apparatus, and called it Kozyrev's Mirrors. It takes the energy not out of the stars, but out of the human being — being a star. (Carbonaceous life forms, such as those on Earth, are one stage of a star's evolution.) And these streams coming out of human beings, they are not allowed to go everywhere in the space, but they are concentrated here, creating this density of the streams of time and energy. But a human being should be specially prepared, and when he spends some time inside, he finds himself in a particular state of mind. He can travel to any part of the planet. And there is a special "ray" enabling him to be in this or that part of the planet. We used this kind of apparatus for our experiment for distant communication with Dixon.

Basically, there was a person inside the mirrors who was given symbols that he was supposed to project, and there were people all around the world who were supposed to receive.

Carol: Were they also in mirrors?

Trofimov: No, they were in an ordinary life situation, but they knew the time. There were three special sessions for investigating the role of television and radio. The person inside the mirrors projected the symbols and they made a television recording of it. They showed these recording to people from Dixon. They also made television recordings of three sessions in which a person projected symbols, but was not inside the mirrors. And almost 80% of the people who took part in this experiment received the information. The results using the television recording were even better than straight from the mirrors.

Another interesting detail: the people who were receiving the information were asked to simply switch on their television, without even sound or images, but just power, and it gave the opportunity to receive this information more effectively. So this space around the planet, and television and radio space interrelate. And they approached the world with special precautions so that people would know the interrelationship of space and radio waves. It was very important. So, fifteen years ago, they made this research and realized these consequences.

Carol: Well, the whole planet is an electronic soup, with radio waves on all frequencies.

Trofimov: Yes, exactly. So, to the next room. This is a "cosmobiotron" clinical device. There are two here — the only ones in the whole world. Inside this apparatus, the electromagnetic field is reduced almost to nothing, which allows us to go anywhere in space. Just to be free, out of the magnetic field of the earth.

Carol: How does it do that?

Trofimov: Inside this shell are several layers of a special steel called "permalloy" that has magnetic "receiving qualities," that is sensitive to magnetism. Inside the tube, the magnetic field is diminished 600 times.

Currently, the Earth's magnetic field has 49,000 nano-Teslas. It has been decreasing by about 50-70 nano-Teslas per year. By the end of the millennium, we'll have only 100-200 nano-Teslas. So, this apparatus allows us to emulate the situation that we will have 1000 years in our future.

[He sat down on the open end of the tube]. Where I'm sitting now, the magnetic field is how it will be on Earth in 100 years. As I move further into the apparatus, the magnetic field is decreased, as it will be on Earth further into the future. We measure the results every 15 centimeters, which is equivalent to 100 years. In a thousand years, we will be somewhere in the middle of this apparatus.

This apparatus is the most important research instrument for assessment of the evolutionary consequences of the fluctuation of Earth's magnetic field.

Carol: What is the result of that diminished magnetic field?

Trofimov: As the force of the magnetic field is decreased, the sun's energies will penetrate more.

Carol: So the magnetic field protects us from the solar rays?

Trofimov: Yes, and also cosmic rays — galactic protons, for example. The less protection there is, the more particles can reach us.

Carol: Is the ozone layer a different mechanism?

Trofimov: Somewhat different. The ozone layer filters only the ultraviolet part of the spectrum.

So we have a profound opportunity to really emulate what will happen with any living creature or human being, century by century — how we will co-exist with these energies from space. What will happen? Either our mind reserves or extra

abilities will open, or on the contrary they will be limited, and some catastrophe will happen. So basically, this is like a theatrical stage, where we can see how the fate of human life will play in a thousand years.

We have been working more than 15 years, so we do have results. Part of our results have been published, and we are preparing to publish more.

Now I will say something important. As we investigate brain activity — either with an electro-encephalogram, or by assessing brain functions like intellect level, memory, and other functions, we realize that we currently use only 5% of the capacity of our brains throughout our whole lives. And then, after we spend some time inside the apparatus — in a space without magnetism — we repeat the same tests, and we see a drastically different picture. We see that our mind's additional reserves and abilities are activated. We see an increase in memory capacity, increased IQ, and changing zones of electric activity of the brain.

Carol: Is this because of the reduction in magnetic field?

Trofimov: When the magnetic field is decreased, we see an increasing ability to use the reserves and capacity of the human brain, and that's good. But there is still a question of whether it is good for everyone. How quickly should these reserves be opened in real life, and for what would these resources be used. Why should we access these resources? What is the practical use of this opportunity? Just opening the resources is not a panacea.

We need a scientifically rigorous forecasting model — not a purely theoretical one — about what will happen with us, and how this knowledge can be used right now to educate. For example, how long should a person be inside to increase his memory capacity without waiting a hundred years. We are now doing practical research on how to make use of this phenomenon.

There's another important point. When a person is inside, his brain function is in direct correlational dependency not only with solar energies, but with galactic rays. So we thereby open a request for information from the galaxy.

We believe that this is the mechanism by which cosmic human consciousness is currently being opened, with the decreasing electromagnetic field. This shift is opening people's "cosmophile" properties — properties that we are lacking right now in this "cosmophobe" world. But we cannot bring the whole of humanity onto this cosmophilic life-raft, because we are only in the experimental scientific stage that allows us to make a forecast and back it up experimentally.

According to the Russian writer and philosopher Gumilev, balance or imbalance in the number of cosmophobes or cosmophiles in any society or ethnic group defines the fate of this society or ethnic group.

So what can we do? For the survival of our civilization, we have to foster the cosmophiles. And for this, we need to open these resources. While we can give people this possibility, we cannot order or force them to be cosmophiles. We need a well-coordinated system to guide people to this source.

Translation by Nina Goncharova and Elena Kopteva

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**Alexander V. Trofimov**, MD, is General Director of the International Scientific Research Institute for Cosmic Anthropo-Ecology, which was founded in 1994 for scientific investigation, and is located in Academic City, Novosibirsk, Russia.

#### About Carol Hiltner

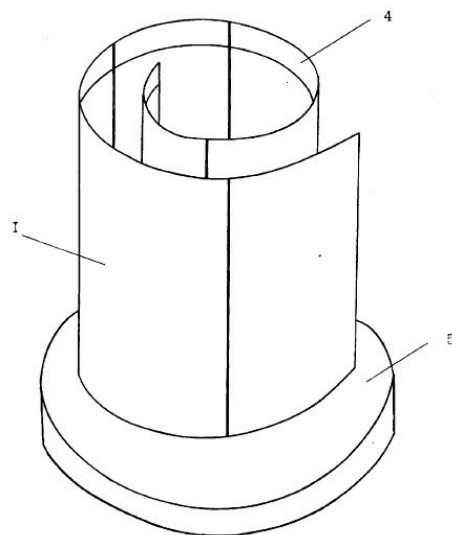
Carol Hiltner, (Carol@AltaiBooks.com), is founder of Altai Books, [www.AltaiBooks.com](http://www.AltaiBooks.com), which publishes books about Spirit-inspired routes to human sustainability on Earth, and Altai Mir University, [www.AltaiMir.org](http://www.AltaiMir.org), which brings people together to access peace by creating a knowledge bridge between ancient wisdom and today's world, focusing on the unique cultural/spiritual heritage of the Altai Republic in southern Siberia. She is a prolific visionary artist and author of several books, including two Altai Chronicles: Tablets of Light and Out of Time, as well as many articles for Spirit of Ma'at. Phone: 206-525-2101 Email: [info@AltaiMir.org](mailto:info@AltaiMir.org)

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( "KOZYREV MIRROR" )

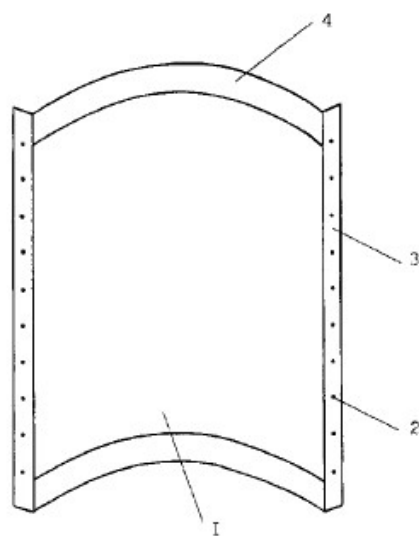
**DEVICE FOR CORRECTION OF MAN'S PSYCHOSOMATIC DISEASES**

**KAZNACHEEV V P; TROFIMOV A V**

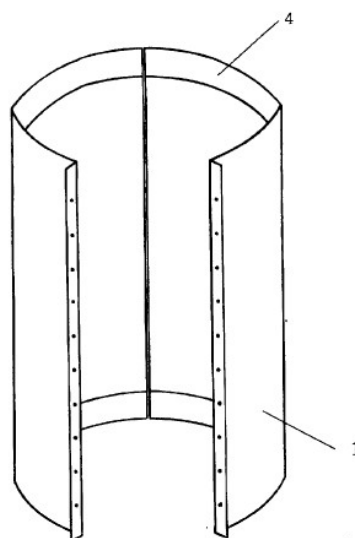
Фиг. 4

EC: IPC: A61N1/16; A61N5/02; A61N1/00 (+3)  
1998-11-27

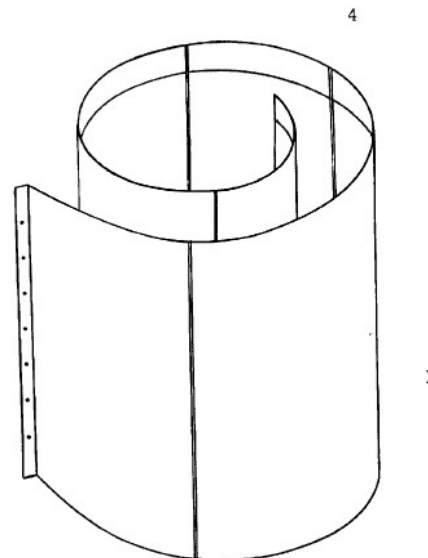
**Abstract** ~ FIELD: scientific and practical medicine; may be used for treatment of arterial hypertension, gastric and duodenal ulcer, neuroses, and for removal of chronic fatigue syndrome and state of psychoemotional stress after psychical and physical loads. SUBSTANCE: device has construction which limits a working space. Construction consists of aluminum-alloy plates, 0.5 mm thick, up to 280 cm high and 120 cm wide, with ground surface and curvature providing for focus at a distance of 50 cm from operating surface. Plates are connected to one another and they form spiral-shaped surface. Construction may be mounted on platform coupled to motor responsible for rotation. EFFECT: enhanced correction efficiency.



Фиг. 1



Фиг. 2



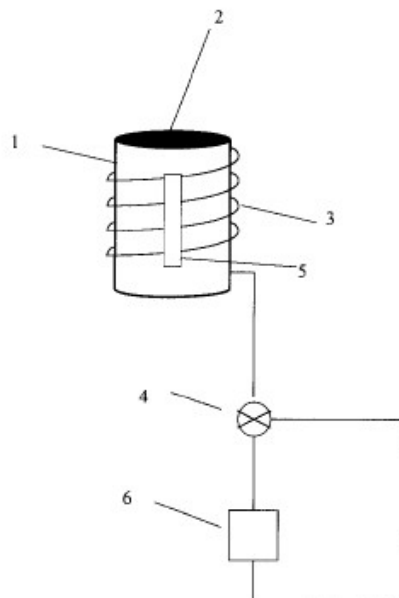
Фиг. 3

**RU2163491**

**DEVICE FOR REMOTE INFORMATION TRANSMISSION FROM MEDICINAL PREPARATION TO  
HUMAN ORGANISM**

**KAZNACHEEV V P; TROFIMOV A V**[ [PDF](#) ]





EC: IPC: A61N5/00; A61N5/00; (IPC1-7): A61N5/00  
2001-02-27

**Abstract** ~ Medicine, applicable for treatment of diseases requiring pharmacologic correction. SUBSTANCE: device has a medicinal preparation and a hollow closed cylinder of non-conducting material with a cover. A light conductor connected to a light source is coiled outside around the cylinder. The medicinal preparation is positioned inside the cylinder. EFFECT: reduced side-effects, simplified design.

## DESCRIPTION

### DEVICE FOR REMOTE DATA TRANSFER with drugs ON THE HUMAN BODY

The invention relates to medical engineering and can be used for remote influence on the human body the drug solution.

A device for the transport properties of drugs on the human body used for the testing of drugs and comprising a source of electrical current, an ammeter, testirovochnuyu platform for drug driven in contact with the active electrode and brought into contact with the patient passive electrode (1). The disadvantage of this device is the lack of direct transfer of information from the drug on the human body.

The closest to the claimed device is the energy exchange between objects (2) comprising an electromagnetic field generator, made in the form of a coil connected to a power source; a working platform of a conductive material to house a medicament, electrically connected to the generator. A disadvantage of the known device is that in addition to the transfer of information from a drug on the human body, it exerts on its organs and systems undesirable direct impact electromagnetic field.

The task to be solved by the claimed invention is to reduce the side effects of the device, ensuring its environmental safety for humans, simplifying design.

This object is achieved in that the device is entered a hollow cylinder with a closed lid from a non-conductive material, around which the outside of the helically twisted optical fiber connected to the light source, and the drug is located within the cylinder.

The drawing shows a diagram of the proposed device.

The apparatus includes a hollow cylinder 1 is closed with a cover 2 of a non-conductive material (e.g., plastic), around which the outside of the helically twisted fiber 3 connected to the light source 4; located within the cylinder 5 drug. The light source 4 is connected to a power supply 6. The light source can be a light bulb, power supply - electric battery or mains supply 127-220 V. The light source may also be a helium-neon laser. If necessary, drug packing 5, if it does not provide a stable position inside the cylinder 1 may be fixedly locked.

Depending on the light source and the power supply device design can be made in different embodiments. For example, when using an electric bulb 2.8V and electric batteries entire device may be placed in a housing made of non-conductive

material (plastic). In this embodiment, the cylinder diameter is equal to 5 cm, height - 10 cm. In this case, the entire device is placed on the patient's body at the moment of impact.

When used as a light source 4, a He-Ne laser cylinder 1 may be placed in a separate housing movably connected to the rest of the apparatus located in another housing. In this case, the patient is placed on the body during part of the session exposure apparatus in which the cylinder 1.

A method of operating the device Inside the cylinder 1 is placed a glass ampoule or a vial with a solution of the drug 5, the cylinder cover 2 is closed. Includes a light source 4. The device is put on a three-minute availability. After this time the device or part thereof is located in cylinder 1 is mounted on the body of the patient in the patient's body or pathological nidus. Transfer of information is carried out for a time specified in the table exhibits, if necessary, under the control of the relevant dynamics of biochemical or physiological parameters (heart rate, blood pressure, blood sugar, etc.) depending on the nature of the pharmacological action of the drug. After the procedure is switched off the light source 4, 3-5 minutes the instrument is ready to re-use it.

Using a vial of the drug - carrier correcting information it is possible to conduct multiple procedures. Turning the device on 10-15 reveals signs of intolerance to the patient the drug. The economic impact in the delivery of emergency, emergency, ambulatory care from repeated use of expensive drugs is very large.

#### DETAILED DESCRIPTION OF THE INVENTION

1. Transfer of information on the human insulin A series of experiments on the transport properties of insulin in the human body by the action of using the claimed device (option 2) on the projection area of the liver. The light source apparatus used in a helium-neon laser. The subjects were informed about the nature of the actions carried out, but did not feel the time on and off the device and do not warn about it.

Prior to the impact of the test were placed in a supine position, measured the blood sugar level, and then placed in the cooking chamber device with insulin vial, place the device on the body of the subject in the projection area of the liver included the device. Exposure duration was 5 to 23 min. After switching off the device determines the blood sugar.

Example 1. Patient K. The blood sugar level before exposure - 113 mg / dL. After exposure for 8 minutes, there was a decline to 98 mg / dL.

Example 2. C. Patient blood sugar level before exposure - 103 mg / dL. After exposure to blood sugar dropped to 93 mg / dL.

Thus, two patients received a decrease in blood sugar, confirming effect of remote information transfer on the human insulin.

2. The transfer of information from a solution of adrenaline on the human body The subject was placed in the supine position, was placed on the heart area is not included unit (option 1). After 15 min, the device was carried out and the session exposure for 5 min. Before, during and after exposure shot ECG standard lead (100 complexes in each dimension), which is determined on the basis of RR-interval and the accuracy of its variation. The value of this parameter is used as a control reaction test on remote effects of adrenaline.

Example 3. Patient A. The values of the RR-interval before exposure - to 1,049, while the impact of - 1,004 to after effects - 0.967 seconds. Thus we have obtained a significant decrease in the values of the RR-interval, which confirms the effect held remote transfer of information from adrenaline on the human body.

#### List of sources

1. German Patent N 3413540, cl. A 61 H 39 / 00.1989.
2. Russian Patent 2033138, cl. A 61 H 39/00, 1995.

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**Referenced by the preceding patent :**

**RU2033138**

**DEVICE FOR ENERGETIC EXCHANGE BETWEEN OBJECTS**

Inventor(s): LUPICHEV NIKOLAJ L

The invention relates to medical engineering, in particular to devices capable of energy transfer properties of objects, such as medicinal substances on a carrier which may be water, sugar, activated materials, and moreover, acupuncture system rights.

A device for the transport properties of medicines used in drug testing, comprising the contact members (on which the objects are located) connected to an electric circuit, designed as a regulated power supply.

This device allows the energy (energy-information) exchange or transfer of the properties of drugs from one object, such as the drug to another object, which previously did not possess these properties. However, in the known device for carrying out the operation described takes considerable time, and the transfer quality is low, i.e. the resulting object is not completely repeats the features of the original.

The aim of the invention is to increase the intensity of the exchanges between the objects and reduce procedure time and improve the properties of the resulting object as close to the original.

FIG. 1 is a schematic diagram of the device; FIG. 2 embodiment of the circuit device; FIG. 3 is a view along arrow A in Fig. 2.

Device for the exchange of energy between objects includes voltage driving circuit having a power source 1, which is associated with operating elements 2 acting elements 3 are formed as the inductance coil 4 at least one. The inductor core 5 is formed as a torus.

The inductance can be distributed both across the torus, and occupy only a portion thereof. Furthermore, the inductor may have a secondary and tertiary windings 6, i.e. the conductor forming a coil, as for the core of the secondary coil.

The power supply can be a source of AC and DC power source. Kind of the applied voltage affects the operation of the device. AC voltage with the resonance frequency (determined separately for each substance) increases the intensity of the exchange. When using a DC power source unit is simplified, but the exchange efficiency between targets is reduced. Given an element 2 is placed on the pad, which is made of a conductive material and connected to one end of the inductor 7 4.

The device may have additional core 8 disposed inside the torus perpendicular to the plane. An additional core makes it possible to move a portion of the properties of the drug substance to the surface effects. One end of an additional core made sharp, which leads to increased impact energy. The core can be made of various materials, ferromagnetic and paramagnetic. The choice of material affects the selectivity of action.

In the simplest embodiment, the operation of the device is as follows.

The energy exchange between the objects is performed by placing one of them, such as the drug in the contact area, and the other (the neutral carrier acupuncture system of human, water, sugar and other substances) acting on the element 3, namely above the plane of the spiral coil. The intensity of the exchange depends on the distance from the coil. With increasing distance from the coil decreases the intensity of exposure. By varying the amount of current flowing in the circuit, it is possible to change and regulate the intensity of the exchange, and hence the time required for the transmission properties of the drug entity. You can carry out the adjustment resulting potency homeopathic remedies.

Stress intensity energy exchange can be achieved in the following way. A second coil placed on the contact element, which by means of electrical conductor connected to the second voltage driving circuit comprising a coil, etc. Thus formed preamplification.

This device can reduce the time to increase the intensity of exchange and improve transmission quality.

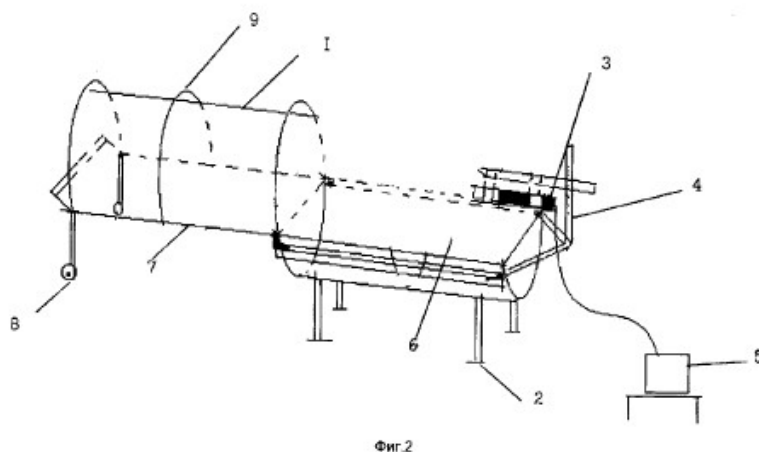
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**RU2141357**

**DEVICE FOR CORRECTION OF MAN'S BIOPHYSICAL FIELD**

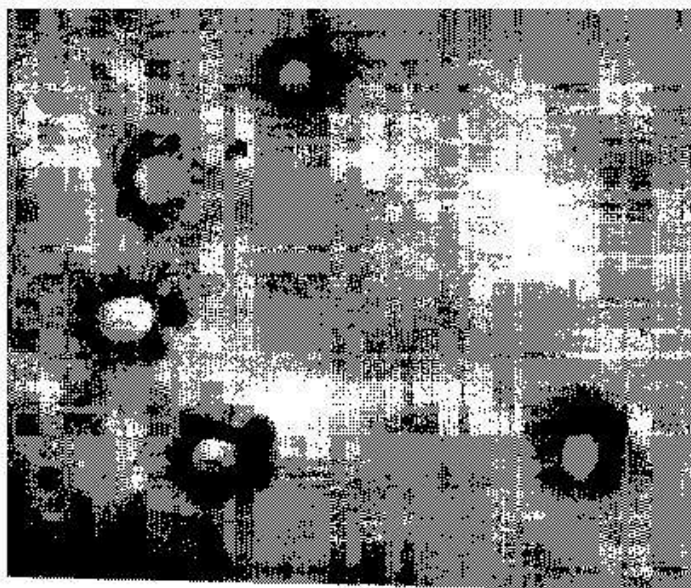
**KAZNACHEEV V P; SHATARNIN A JU**

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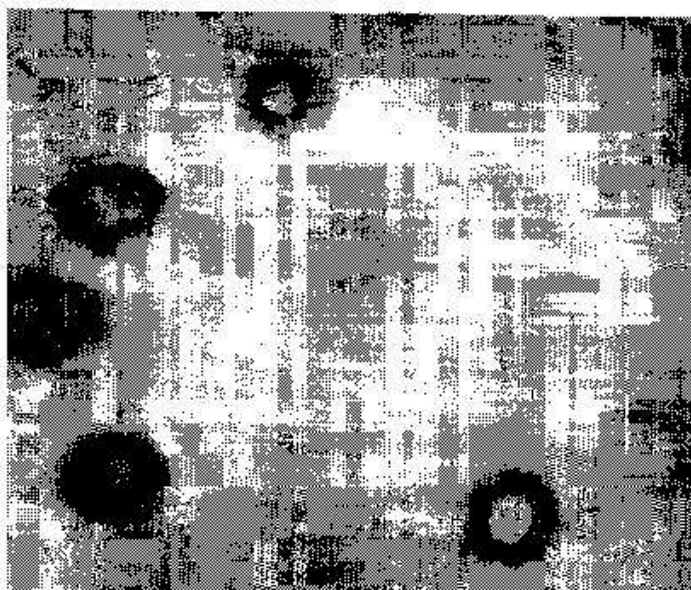


EC: IPC: A61N1/16; A61N1/00; (IPC1-7): A61N1/16  
1999-11-20

**Abstract** ~ FIELD: scientific and practical medicine. SUBSTANCE: device may be used for correction of functional disturbances and diseases of man caused by change in biophysical field. Device has hollow cylinder of aluminum alloy with ground internal surface, 1.5-2 mm thick, at least 110 cm wide and not less than 200 cm long, positioned horizontally on supports. Cylinder accommodates helium-neon laser apparatus secured to cylinder body in its "head" end on moving support so that laser beam is directed along central longitudinal axis of cylinder above patient's body. Platform intended for patient's arrangement is secured to cylinder walls in lower part of cylinder in horizontal position. Platform is made of nonmetallic material, and its length and width correspond to cylinder sizes at point of its attachment. EFFECT: efficient removal of biophysical field distortions. 2 cl, 8 dwg

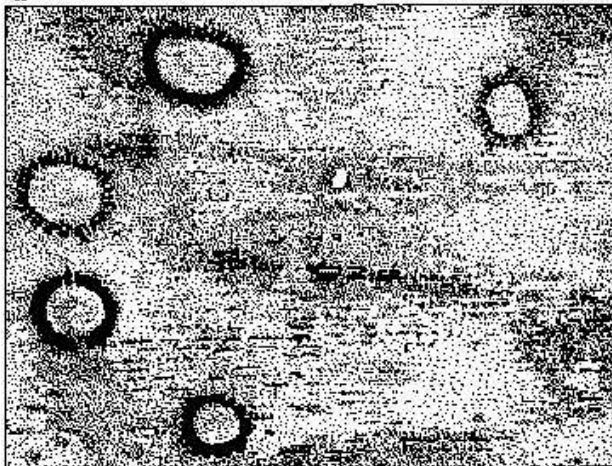


Фиг. 3а



Фиг. 3б

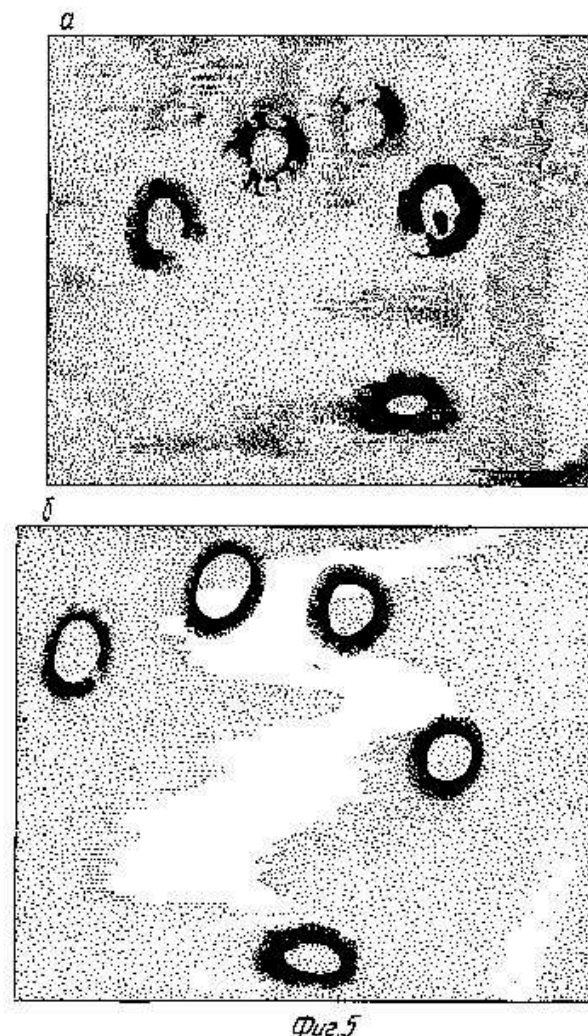
*α*



*β*



*Fig. 4*



RU2208779

## FACILITY AND METHOD TO RECORD ENERGY-INFORMATION EFFECT ON TESTED OBJECT

TROFIMOV A V (RU); KAZNACHEEV V P (RU)

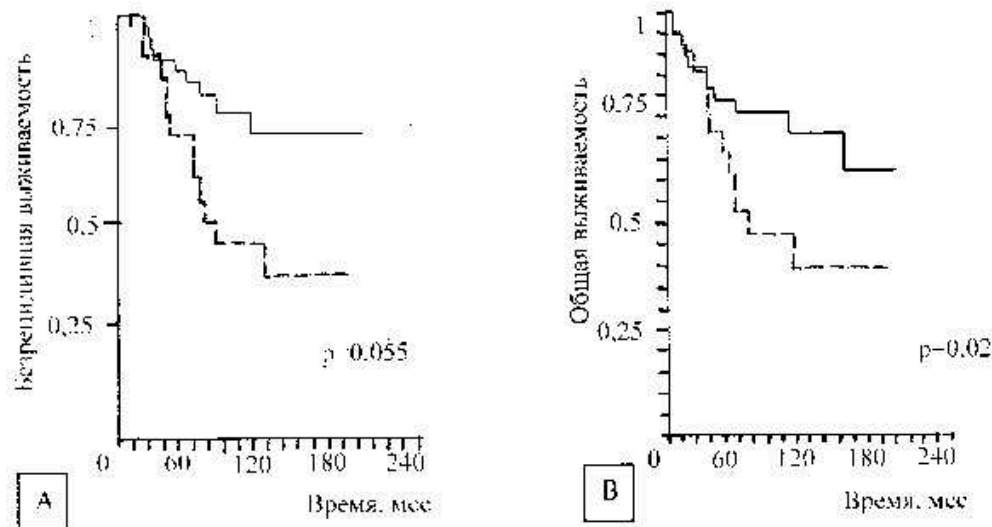
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EC: IPC: G01N27/00; G01N27/00; (IPC1-7): G01N27/00  
2003-07-20

**Abstract** ~ FIELD: study and analysis of biological materials, organic and inorganic substances and materials made of them, radio electronic devices. SUBSTANCE: invention can find use for recording of superfaint energy-information effects on tested objects and can be utilized in medicine, ecology, biophysics. Facility to record energy-information effect on tested object includes signal detector, signal amplification and conversion unit, resistance coupling unit, signal processing unit connected in series. Signal detector comes in the form of four silicon monocrystals arranged on common substrate connected to power supply source. Each monocrystal is connected through separate channel to its own input of signal amplification and conversion unit. Each channel of the latter incorporates instrument amplifier, general assignment amplifier, band-pass filter, microcontroller with built-in analog-to-digital converter common for all channels connected in series. Input of converter is connected to band-pass filters and its output is linked to input of resistance coupling unit, all elements of signal amplification and conversion unit are connected to voltage stabilizer connected to power supply source. Output of resistance coupling unit is connected to input of signal processing unit that incorporates data storage circuit and mathematical data processing unit. Method recording energy-information effect on tested object includes evaluation of substance-information carrier before and after energy- information action. Specific feature of method lies in utilization of silicon or its compound in the capacity of substance-information carrier. Substance-information carrier is placed for at least 24 h into hollow cylindrical open chamber made of aluminum alloy arranged horizontally before exposure to energy-information effect. Energy-information effect of tested object on substance-information carrier is exercised outside of chamber. Substance-information carrier is positioned at distance not more than 3 mm from signal detector of proposed facility. Dynamics of varying voltage reflecting inherent noise emerging in signal

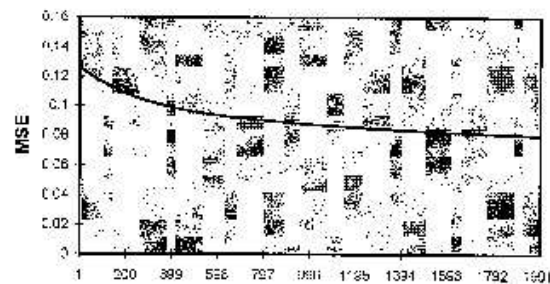


detector under effect of substance- information carrier is recorded in each detector channel for more than one minute before and after energy-information effect and presence or absence of energy- information effect is recognized by means of computer program based on neuron networks. EFFECT: direct evaluation of energy-information effect of tested object on substance-information carrier, possibility of utilization of substances-information carriers in solid phase without any change of their state or any other effect on them coupled to necessity of recording energy-information effect, reduced labor input to method.



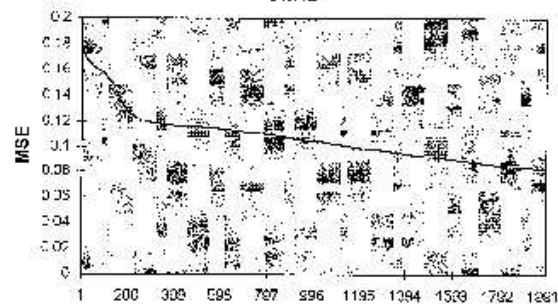
Безрецидивная выживаемость (а) и общая выживаемость (б)

больных УМ с Вах положительными опухолями (прерывистая линия) и Вах отрицательными опухолями (сплошная линия).



Длительность обучения

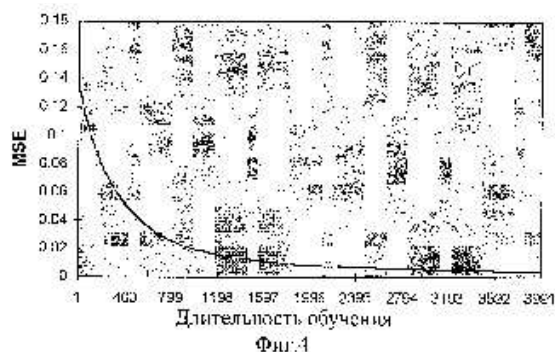
Фиг. 2



Длительность обучения

Фиг. 3






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RU2085108

[ [PDF](#) ]

# **METHOD FOR PROGNOSTICATING HUMAN ORGANISM VERSUS HELIOGEOPHYSICAL FACTORS FUNCTIONAL DEPENDENCE**

**KAZNACHEEV VLAIL P (RU); TROFIMOV ALEKSANDR V (RU)**

## **(54) METHOD FOR PROGNOSTICATING HUMAN ORGANISM VERSUS HELIOGEOPHYSICAL FACTORS FUNCTIONAL DEPENDENCE**

### **(57) Abstract:**

FIELD: medicine; helioclimatopathology; cosmic anthropoecology. SUBSTANCE: proposed method resides in inputting into data base relevant data on outer space situation during last 6-8 decades, data representing day-to-day information on following seven parameters: Wolf number, surface area of Sun spots, Sun radio-frequency emission, interplanetary magnetic field, geomagnetic activity indices, number of magnetic storms and Moon phase position. Next person's birth date is inputted and combination of heliogeophysical variables is calculated for any out of 40

weeks of intrauterine fetation, whereafter combination of these variables and extent of their effect upon organism are evaluated during formation of main functional systems of organism and during critical ontogenesis periods. Human organism's specific functional system is singled out on basis of evidence that it has experienced most intensive impact of above-enumerated heliogeophysical variables, and that they produce short-time hypogeomagnetic "load" onto organism. EFFECT: possibility to determine specific form of functional heliogeophysical dependence if any specific human being.

EC: IPC: A61B5/00; A61B5/00; (IPC1-7): A61B5/00  
1997-07-27

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RU2085107

# **METHOD FOR DIAGNOSING HUMAN ORGANISM VS HELIOGEOPHYSICAL VARIABLES FUNCTIONAL DEPENDENCE AT VARIOUS STAGES OF ONTOGENESIS**

**KAZNACHEEV VLAIL P (RU); TROFIMOV ALEKSANDR V (RU)**

[ [PDF](#) ]

**(54) METHOD FOR DIAGNOSING HUMAN ORGANISM VS HELIOGEOPHYSICAL VARIABLES FUNCTIONAL DEPENDENCE AT VARIOUS STAGES OF ONTOGENESIS**

(57) Abstract:

FIELD: medicine; helioclimatopathology; cosmicanthropoecology. SUBSTANCE: proposed method resides in taking into consideration following heliogeophysical variables influencing person's health: Wolf number, surface area of Sun spots, solar radio-frequency emission, interplanetary magnetic field, geomagnetic activity indices, number of magnetic storms and Moon phase position. Predominance of one or more of said heliogeophysical factors is established during critical periods of

person's intrauterine fetation time to determine functional dependence of person's organism and dependence extent from short-time effects of hypogeomagnetic field. Finally, person's health condition is related to its functional dependence from effect of natural heliogeophysical disturbances at various stages of ontogenesis. EFFECT: possibility to determine, whether this or that specific person is sensitive to effects of various natural heliogeophysical disturbances.

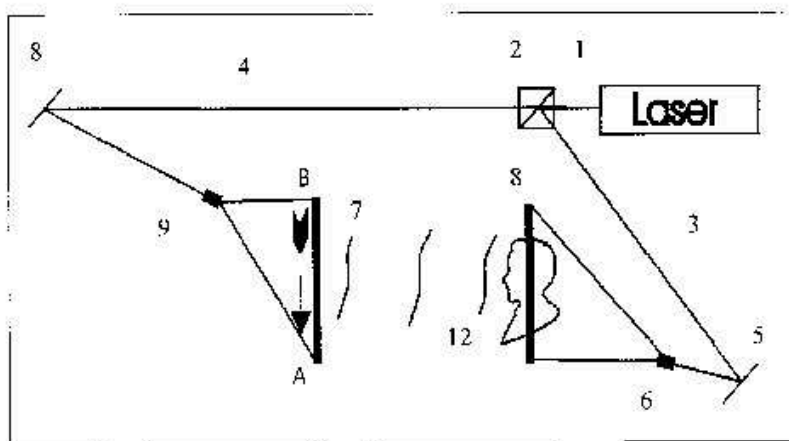
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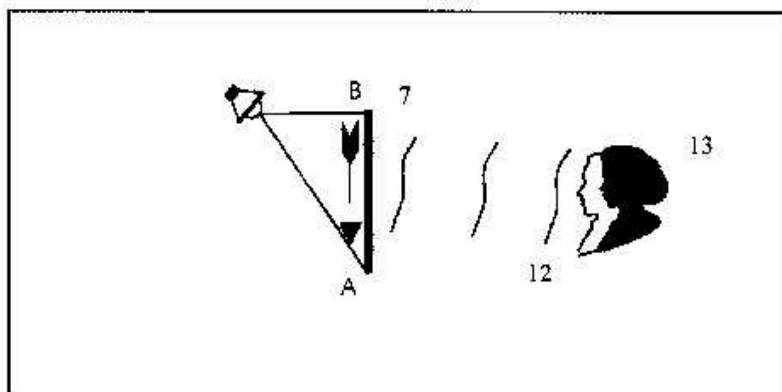
**METHOD FOR FORMING A HOLOGRAM CONTAINING NON-VISUALIZED PHYSIOLOGICALLY IMPORTANT INFORMATION**

**TROFIMOV A V (RU); KAZNACHEEV V P (RU)**

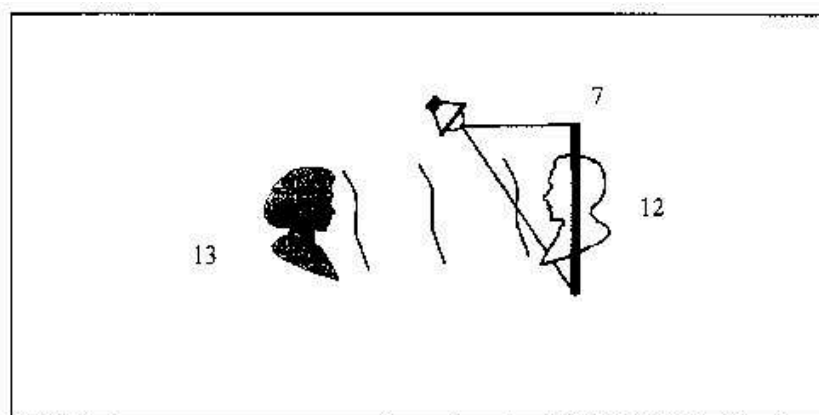
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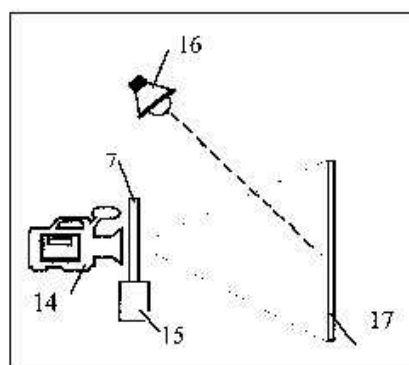
Фиг.1б



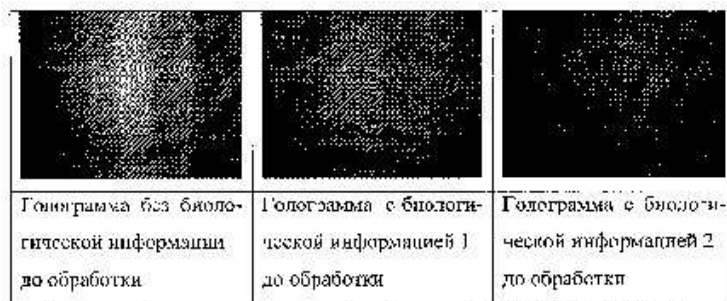
Фиг.2а



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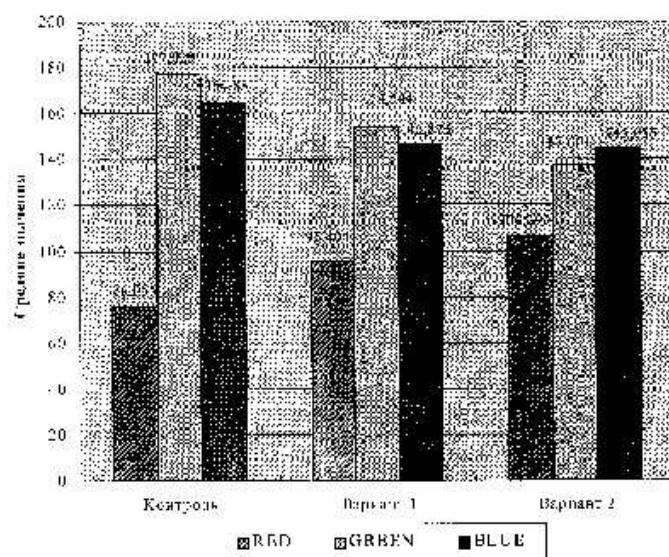
Фиг. 3



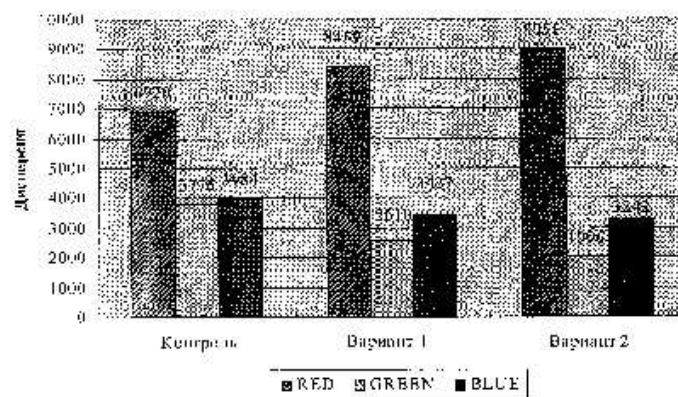
Фиг. 4а

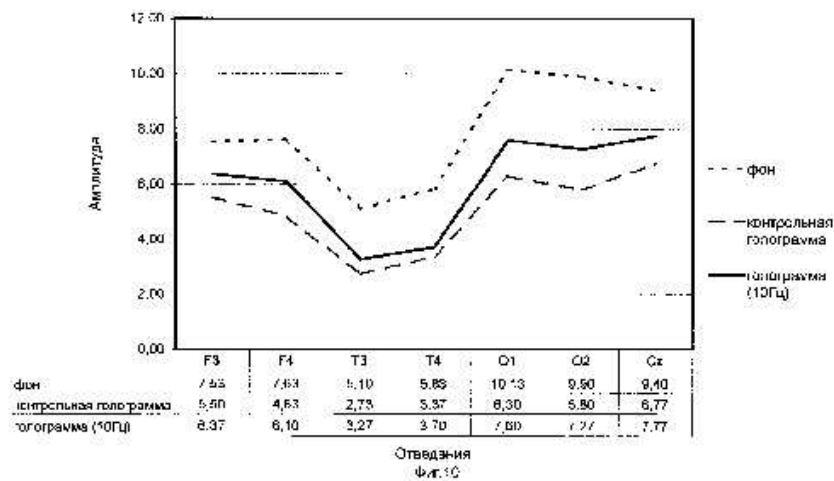
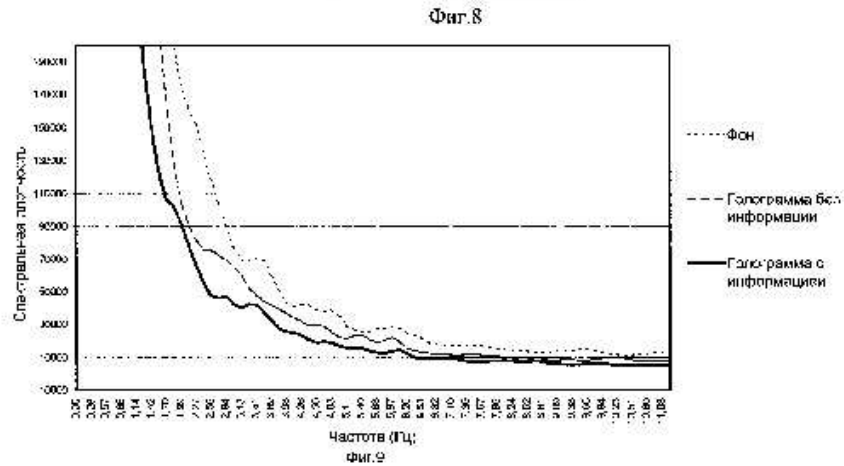
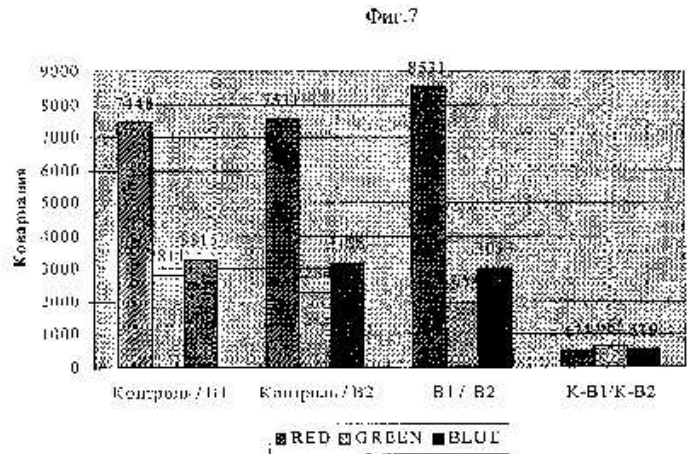
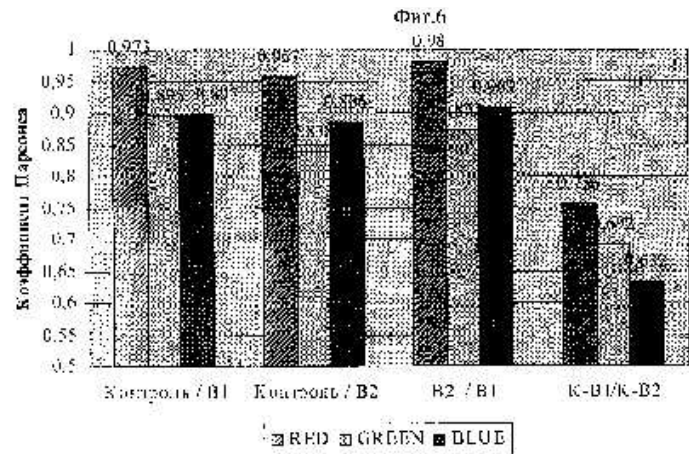


Фиг. 4б



Фиг. 5





EC: IPC: G03H1/00; G03H1/04; G03H1/00 (+3)  
2004-11-10

**Abstract** ~ FIELD: holography. SUBSTANCE: method includes separation of laser beam by means of light-dividing cube on support and object branches, direction of support branch of beam onto lens expander, forming a spherical wave front, lighting of object by received light beam, which object is placed in such a way, that light beam deflected from it surface falls along normal line with deviation of no less than 35 on same side of photo-plate, receiving a hologram by development, fixing and drying with whitening of photo-plate, receiving reflective hologram by recording a hologram from photo-plate containing source hologram and used as hologram object, onto second photo-plate, not containing a hologram, while second photo-plate is placed in plane of focusing of copied actual holographic image, lighted on opposite side by non-modulated spherical wave front received on basis of support branch of laser beam at 45 angle, and processed according to method said above with no whitening. When recording source hologram method includes use of carrier of non-visualized physiologically important information as hologram object, being in state of active or passive information transfer, and/or as light beam diffuser placed in place of output from lens expander of spherical wave front received on basis of subject branch of laser beam. EFFECT: higher efficiency.

## Method for reducing the surface of silicon dioxide US2003129116

[0001] The invention relates to a method for reducing the surface area of silicon dioxide.

[0002] Silicon dioxide (silicic acid, silica, silicea, silicium dioxidatum) in drug and food technology serves as an inorganic hydrogen former, as an adjuvant in the production of tablets and capsules, as a lubricant, as an adsorbent, as a separating agent, as a flowability-preserving agent and as an active ingredient carrier, but is also contained in its natural form in various medicinal herbs and foodstuffs.

[0003] Although silicon and its compounds have not been recognized as essential nutrients by official nutrition authorities, the essentiality of silicon and its compounds to the human organism has been discussed and affirmed in scientific publications already for decades (cf. W. Pfannhauser, *Essentielle Spurenelemente in der Nahrung*, Springer (1988), pages 5-10; A. Mancinella, *Ill. silicio, un oligoelemento essenziale per gli organismi viventi*, Clin. Ter. 137:343-350 (1991); K. Schwarz, B. A. Ricci, et al: Inverse relation of silicon in drinking water and atherosclerosis in Finland, *The Lancet* (1977), 538-539; E. M. Carlisle, *Silicon as an essential trace element in animal nutrition* (1986), *Silicon Biochemistry*, Wiley, Chichester (Ciba Foundation Symposium 121), 123-139; E. M. Carlisle, *Silicon as a trace nutrient*, *The Science of the Total Environment*, 73 (1988), 95-106).

[0004] The above-mentioned publications describe the essentiality of silicon as a structural component of the connective tissue, but also as being substantial in regard to the functions of the heart/circulation system, immune system, bone metabolism, ageing processes and as an aluminum antagonist (in the context of morbus Alzheimer).

[0005] In addition to said biochemical properties, silicon and its compounds are supposed to exhibit also elementary biophysical functions in organic organisms (plants, animals, man). Due to its position in the periodic system of elements (fourth period), the function of a semiconductor is attached to the element silicon, for which reason it is widely used in application technology (semiconductor physics, laser and computer technologies). Accordingly, silicon in organic living beings also is supposed to play a role in the intracellular and intercellular transfer of signals and exhibit an elementary function in storage and transformation.

[0006] The selective and controlled modification of the biophysical properties of highly disperse silicon dioxide, in particular in terms of surface structure or adsorption qualities in respect to the substances to be adsorbed, has so far been achieved in the prior art only by applying mechanical influences. Such mechanical influences are, however, frequently difficult to control, exhibiting a large variance in terms both of local preciseness and reproducibility.

[0007] It is, therefore, the object of the present invention to modify the supermolecular structure of silicon dioxide and related silicon/oxygen compounds without exerting any mechanical influence.

[0008] In accordance with the invention, this object is achieved by a method for reducing the surface area of silicon dioxide, which method is characterized in that silicon dioxide is introduced into an electromagnetic shielding device selected from an aluminum/magnesium metal shielding device and a hypomagnetic chamber of Permalloy steel, and is incubated for a period of at least 3 hours, preferably at least 6 hours.

[0009] Surprisingly, the biophysical properties of a silicon structure could be modified by incubation in an electromagnetic shielding device according to the invention to the effect that the mean surface area of the silicon dioxide preparation, measured in a BET test (isothermal analysis by nitrogen adsorption at -77[deg.] K, measured by ASAP-2400 of Micromeritics/U.S.A.), was reduced. The electromagnetic shielding device in the first place is to be suitable-similar to

a Faraday cage-to shield magnetic influences and enable structural changes in the biophysical properties of silicon dioxide on account of such shielding. By the treatment according to the invention it is feasible to selectively modify, for instance, the adsorption capacity or adsorption selectivity of silicon dioxide. This was completely surprising also because of the fact that the treatment according to the invention was carried out without any mechanical influence, while nevertheless enabling structural modifications.

[0010] The aluminum/magnesium metal shielding device according to the invention is comprised of an aluminum/magnesium alloy preferably further containing silicon. Preferred metal shields contain 80-98%, preferably 90-95%, aluminum, 2-20%, preferably 3-7%, magnesium and 0-2%, preferably 1-1.5% silicon. It has, furthermore, been shown according to the invention that the effects of the invention cannot be achieved by means of a metal shielding device made of pure aluminum.

[0011] The hypomagnetic chamber according to the invention likewise must be comprised of a special material which ensures the effects according to the invention to occur, that is to say of Permalloy steel or a Permalloy alloy. By Permalloy alloys or steels, Fe-Ni-based magnetic materials containing 72-83% Ni portions and preferably Mo, Cu and Cr as additives are generally understood. The materials according to the invention have comparatively high permeability values ranging between 30,000 and 150,000, a low magnetic power loss during magnetic reversal, and rectangular hysteresis loops (cf. Lueger, Lexikon der Technik, Vol. 16, "Magnetische Werkstoffe; in particular, point 5.1.2.2.). According to the invention, the final magnetic field through the chamber is attenuated to preferably {fraction (1/600)}, in particular {fraction (1/5000)}, attenuation being a function also of the chamber size.

[0012] Preferred structural variants of this electromagnetic shielding device are described, for instance, in RU patents Nos. 2012175 and 2122446.

[0013] Particularly suitable devices used to realize the shielding according to the invention are described in the Examples below. The time of incubation according to the invention, during which the silicon dioxide will remain in the electromagnetic shielding device according to the invention is not critical, as a rule. Yet, the effect according to the invention will be the stronger the longer the incubation time. To be sure, this direct dependence of the effect according to the invention, on the time of incubation also is a function of the efficacy of the electromagnetic shielding, but will reach a plateau at approximately 72 hours (for instance, in the devices according to the invention). Preferably, the incubation according to the invention is, therefore, carried out over a period of 12 to 200 hours, preferably during 24 to 100 hours, whereby a period of approximately 72 hours has proved to be the procedural optimum to provide the optimum electromagnetic shielding system.

[0014] Since a silicon dioxide whose biophysical property has been modified without any mechanical influence has so far been neither described nor rendered obvious, the present invention also relates to a silicon dioxide whose surface properties have been biophysically modified in respect to the starting preparation without applying any mechanical influence. In particular, the present invention relates to a silicon dioxide that is obtainable by the method according to the invention.

[0015] The invention will be explained in more detail by way of the following examples, to which it is, however, not limited, and the accompanying drawings, wherein:

**[0016] FIGS. 1 to 4 illustrate a hypomagnetic chamber, and**

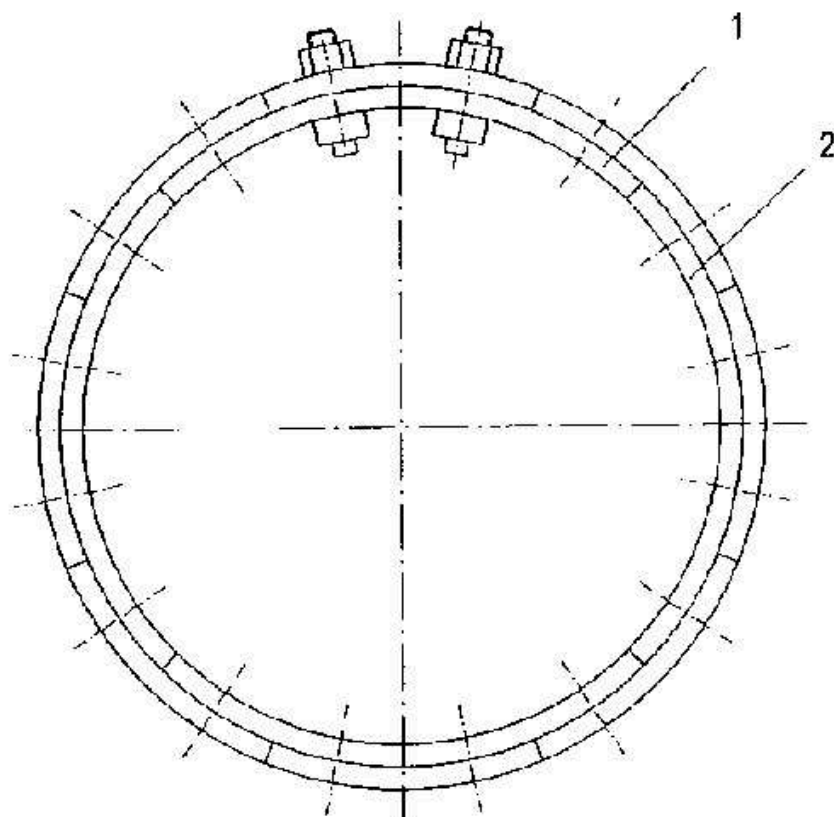


FIG. 1



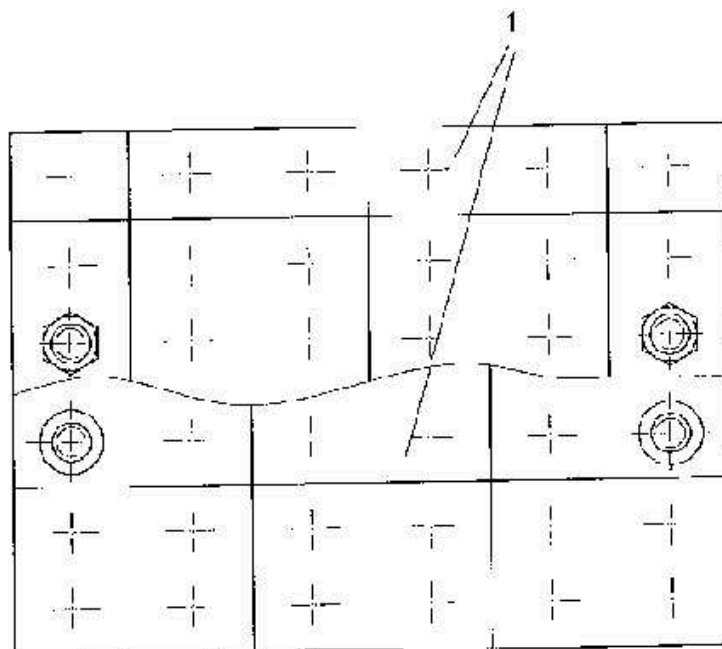
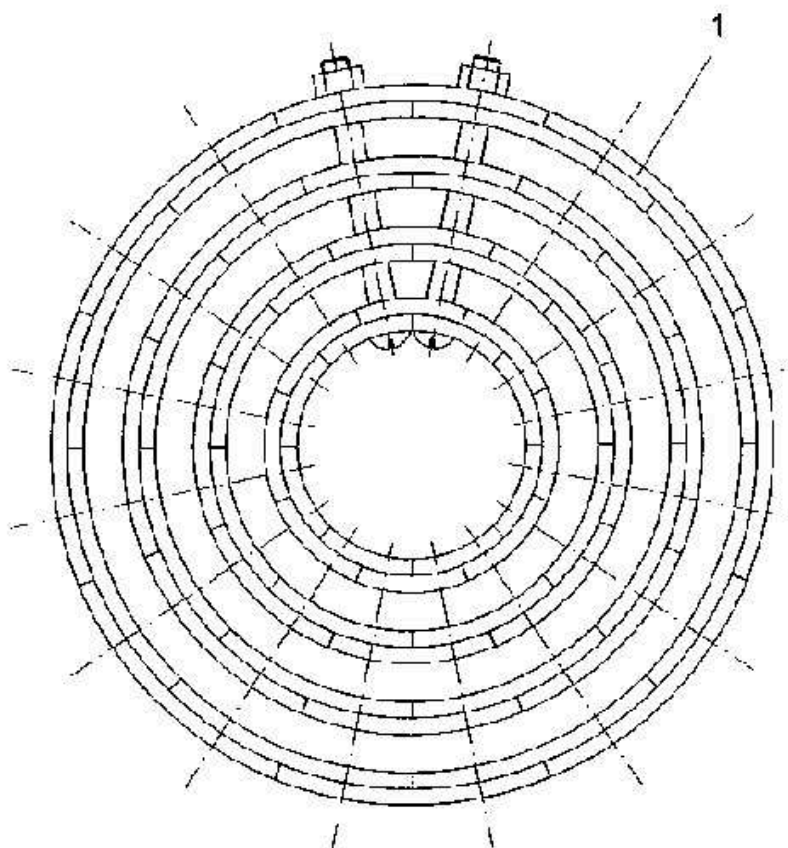


FIG. 2



**FIG. 3**

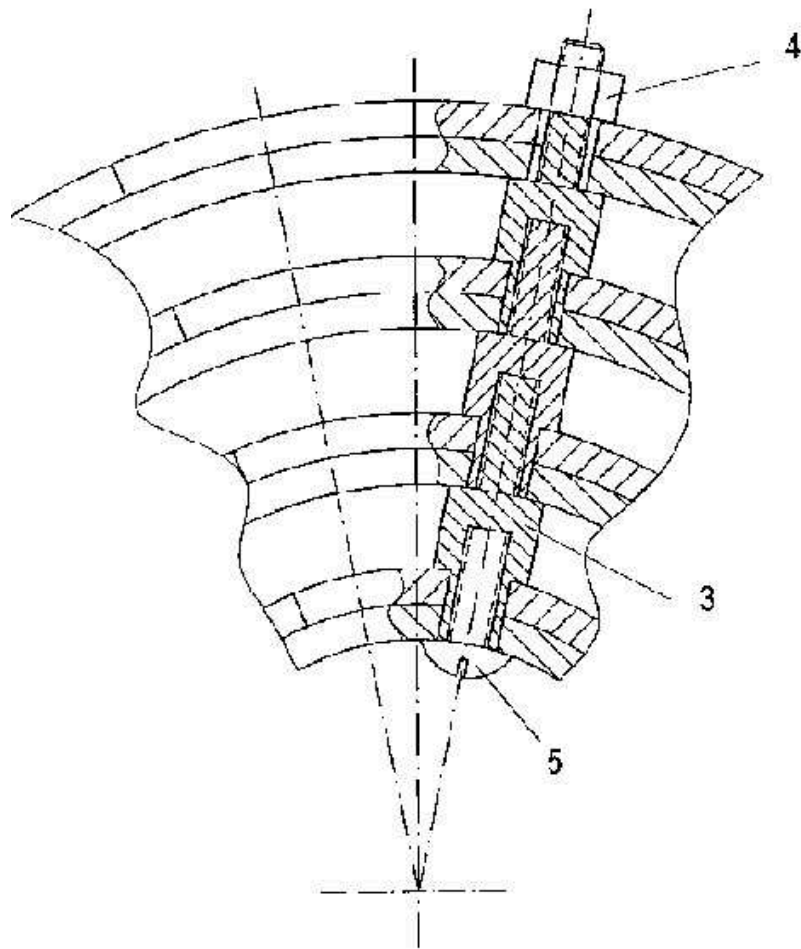


FIG. 4

[0017] FIGS. 5 to 8 depict a metal shield according to the invention.

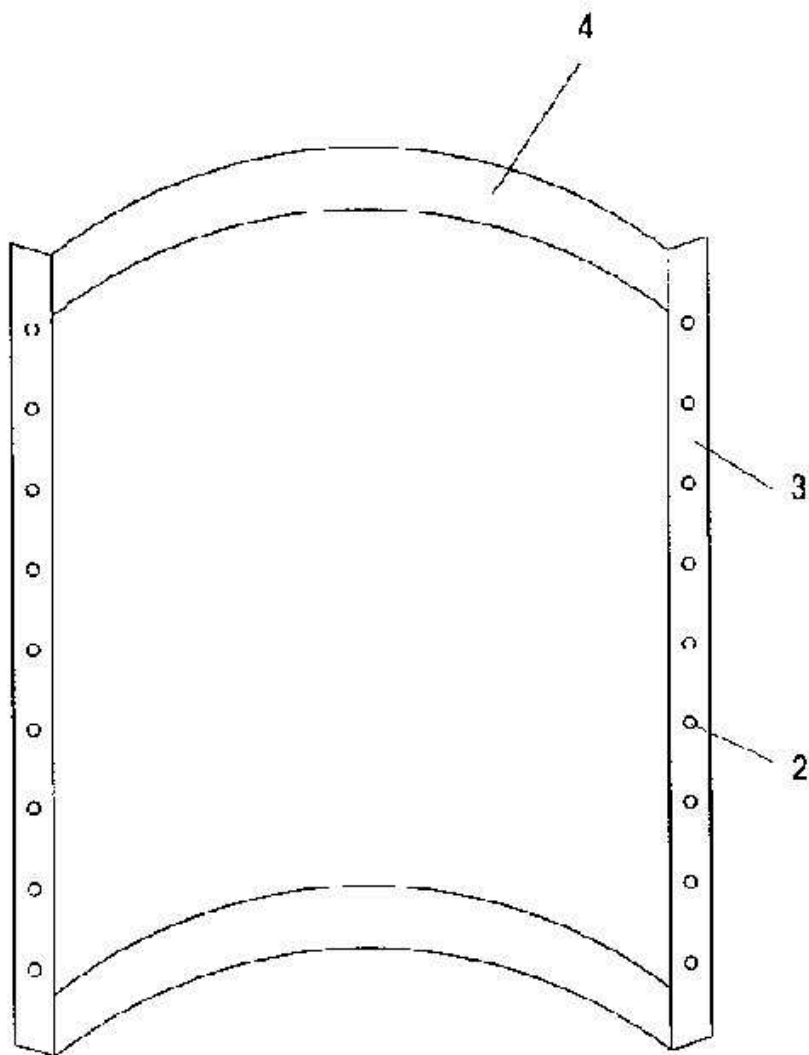


FIG. 5

FIG. 6

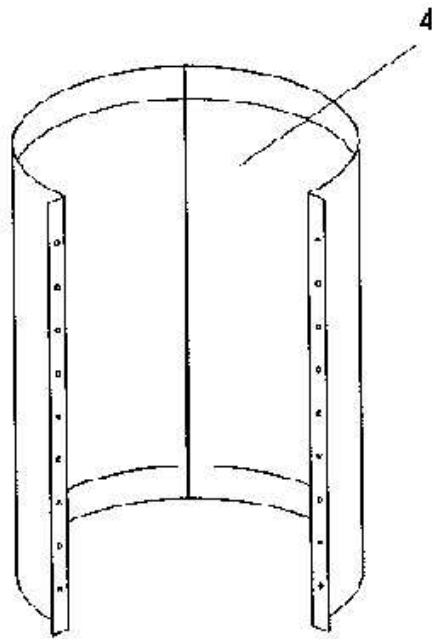
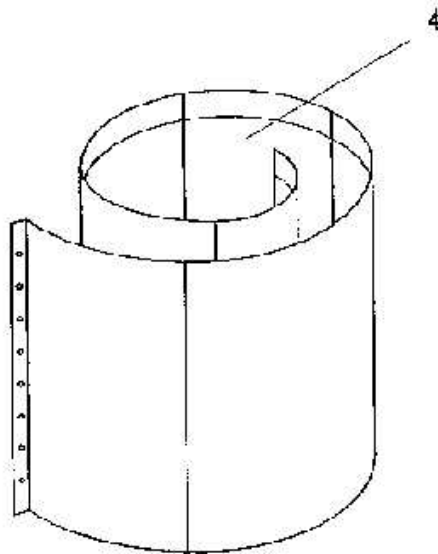


FIG. 7



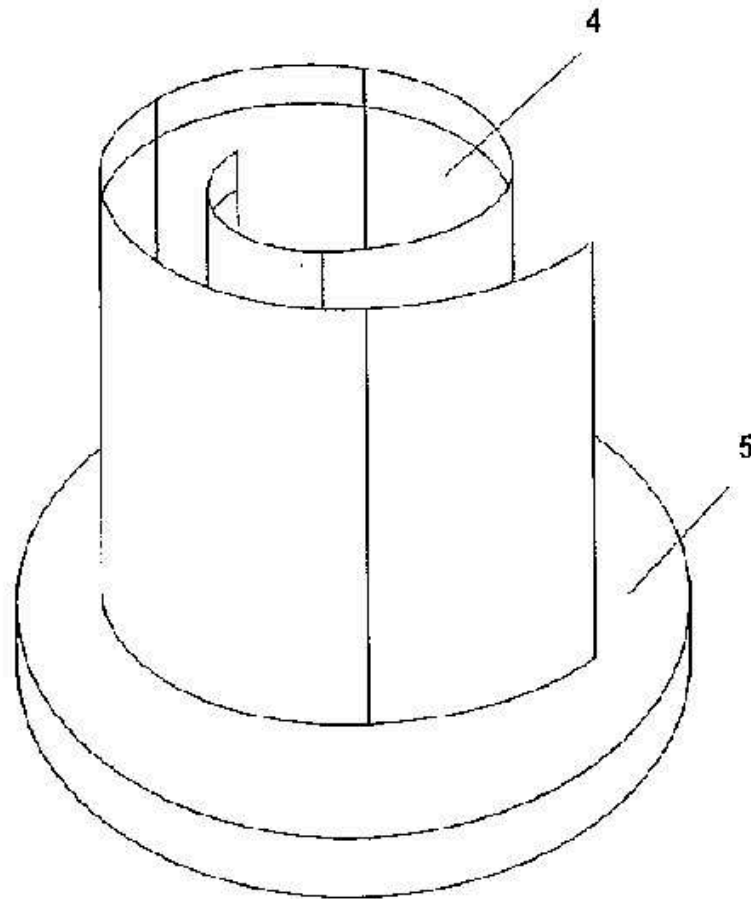


FIG. 8

## EXAMPLES

### [0018] A) Devices

#### [0019] Device 1 (hypomagnetic chamber):

[0020] This device of Permalloy steel serves to shield semiconductor elements such as silicon and its compounds against magnetic influences in a biophysical experiment and during biophysical applications. The chamber provided for this purpose is comprised of four bowls of ferromagnetic material (1, 2) including spacers (3) and fastening means (5, 4), and serves to shield the encased space against magnetic influences from the environment. External diameter 2 m, internal diameter 1.2 m, length 3.8 m.

[0021] A test specimen of the chamber having an internal diameter of 1200 mm, an external diameter of 2000 mm and a length of 3900 mm was made of a strip 79 mm, thickness 1.5 mm, width 250 mm.

#### [0022] Device 2 (metal shield):

[0023] This metal shield is comprised of a metal plate structure made of an aluminum alloy (93.2% Al, 5.4% Mg, 1.4% Si), thickness 1.5 mm, height up to 280 cm, width 129 cm, having a ground surface and a curvature that ensures the distance of the focus from the working surface to be 50 cm (FIG. 5). The plates are interconnected so as to form a spiral-shaped surface. Each of the structural elements is connected with the other structural elements by butt joints and fastened by means of 15 fastening screws (2) and metallic angular mounting plates (3) having the dimensions 5.0\*5.0\*280 cm, which are riveted from two sides to the working surface of each element. An aluminum ring (4) having the same curvature as the working surface and the dimensions 120.0\*15.0 cm renders the structure more rigid both in the upper

and lower parts of each element. The elements may be interconnected and fastened by butt joints, thus forming a cylinder (of 4 or 6 elements) (FIG. 6) that is open in its entry region, yet also a left-handed or right-handed spiral-shaped structure comprising 8 to 10 elements (FIGS. 7, 8) and defining a working volume in the form of a nonclosed cylinder including a bottom element (6) is conceivable.

[0024] B) Influence of device 1 (hypomagnetic chamber) and of device 2 (metal shield) on the surface of two modifications of highly disperse silicon dioxide, i.e., Aerosil 200 and Aerosil 380, respectively:

[0025] Two highly disperse silicic acid preparations (having the trade names Aerosil 200 (mean surface according to  $BET=200 \text{ m}^2/\text{g}$ ) and Aerosil 380 (mean surface according to  $BET=200 \text{ m}^2/\text{g}$ )) are introduced for 72 hours into the hypomagnetic chamber and metal shield, respectively. An appropriate comparative sample of the same batch is stored under normal conditions outside the two devices. After this, the samples to be measured as well as the comparative sample are degassed (or dried) at  $50[\text{deg.}] \text{ C.}$  for 20 hours under high vacuum and their surfaces are determined by means of the BET method. In doing so, the individual samples are consecutively numbered as follows:

[0026] Sample No. 1=Aerosil 200 control sample

[0027] Sample No. 2=Aerosil 200 after hypomagnetic chamber

[0028] Sample No. 3=Aerosil 200 after metal shield

[0029] Sample No. 4=Aerosil 380 control sample

[0030] Sample No. 5=Aerosil 380 after hypomagnetic chamber

[0031] Sample No. 6=Aerosil 380 after metal shield

[0032] The determinations of the silicon dioxide surfaces according to BET (each carried out three times) are summarized in the following Table (as well as in the annexed individual results):

Original Weight	BET ( $\text{m}^2/\text{g}$ )	BET ( $\text{m}^2/\text{g}$ )
weight of (after	(based on	(based on
Sample	sample degassing	% Loss the sample degassed
No. (g)	at $50[\text{deg.}] \text{ C.}$	in mass weighed in) sample)
1	0.1210 0.1024 15.4 197 233	
2	0.1638 0.1452 11.4 198 223	
3	0.2781 0.2658 4.4 199 208	
4	0.1923 0.1671 13.1 335 386	
4-2	0.1828 0.1588 13.1 329 379	
5	0.3048 0.2804 8.0 315 342	
6	0.1902 0.1713 9.9 302 335	

[0033] The measured results (of sample no. 1 to sample no. 3 and sample no 4 to sample no. 6) demonstrate the reduction of the surface areas of the silicon dioxide samples employed, after introduction of the same into the hypomagnetic chamber and metal shield, respectively. The investigation results, in addition, show a stronger decrease of the surface areas after introduction into the metal shield compared to those samples introduced into the hypomagnetic chamber.

[0034] The measured results indicate that it is possible to modify the surfaces of silicon compounds without mechanical influences, an effect apparently induced by a change in the supermolecular bonds of individual silicon dioxide molecules due to changes in the electromagnetic environment. It is, thus, feasible by changing the supermolecular structures (measurable by surface changes according to the BET method) of silicon compounds of inorganic and organic (vegetable and fossile) origin and other semiconductor elements, to modify and standardize the biophysical properties of the thus

changed substances.

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