"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

29768
S/194/61/000/006/051/077
D201/D302

Apparatus for acting...

valve generator and is extinguished by means of a diode. An automatic security arrangement is considered. A is mounted on a mobile frame and has a control panel. The circuit and a photograph of A are given. [Abstracter's note: Complete translation]

Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENSON, A.R.

Use of microwaves in physical therapy ("Luch-58" apparatus).
Med. prom. 14 no.5:57-63 My '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya.
(MICROWAVES--THERAPEUTIC USE)
(PHYSICAL THERAPY)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

S/275/63/000/002/015/032
D405/D301

AUTHOR: Livenson, A.H.

TITLE: High-frequency physio-therapeutic equipment in the GDR (East Germany)

PERIODICAL: Referativnyy zhurnal, Elektronika i eye primeneniye, no. 2, 1963, 9, abstract 2V47 (Novosti med. tekhn., no. 1, 1962, 94-105)

TEXT: The plant TuR produces the stationary apparatus KW-3/2 (300 watt) for UHF - therapy, as well as its more advanced model KW-4 (400 watt). The oscillation frequency is 27.12 Mc ±0.6%. An original automatic system effects the resonance tuning of the therapeutic circuit. A number of measures were taken for suppressing the harmonics of the fundamental frequency of the oscillator. The apparatuses are equipped with tuning indicators of the therapeutic circuit and with output-power meters. The treatment clocks with which the apparatus KW-4 is equipped, switch off automatically the output voltage when the treatment is finished. The devices are

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easy to handle and can be manufactured by a technological process; their outward look is aesthetic. For measuring the output power of the UHF - therapy devices, an equivalent (phantom) load was developed in the plant's laboratory. The plant produces in series an electrode which provides for the action of a high-frequency magnetic field on mucular tissue. The special feature of the electrode is the connecting of the middle point of the coil with the common point of the two circuits that ensures minimum action of the electric field-component on the tissue and optimum matching of the electrode with the oscillator output. The apparatuses US2-2 and US-5 for ultrasonic therapy have a maximum power of 40 and 20 watt respectively in the ultrasonic head, and operate at a frequency of 800 kc. The transducers are barium titanate plates of 70% efficiency. The apparatus US-5 is equipped with a light indicator of the ultrasonic contact and with an automatic switch-off system for the vibrator when the head output is $< 50\%$ of the ultrasonic power; this prevents overheating of the head. Pulsed operating conditions of the vibrator with external triggering are provided for. The apparatus is equipped with treatment clocks. Ultrasonic balances

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D405/D301

High-frequency physio-therapeutic ...

are produced which operate by a compensation circuit. In the frequency range of 200-3000 kc the limits of variation of the ultrasonic-oscillation power are 0.2-60 watt. The apparatus RS-2 for electro-diagnosis and electro-therapy by a low-frequency pulse current, permits obtaining a galvanic current of up to 60 mA and a pulse current with a frequency from a few pulses up to 2 kc and a pulse duration of 0.03 milliseconds to 3 seconds; the pulse-front length can be regulated. Pulse modulation by a voltage with a frequency of 15-50 periods per minute is provided for. The apparatus RS-7 is more limited in scope and designed for wide clinical practice. The standards and methods of radio-noise measurement, adopted in East Germany, are listed; these are basically similar to the standards and methods adopted in most European countries. [Abstracter's note: Complete translation]

Card 3/3

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENSON, A.R.

Dosimetric methods in the therapeutic use of the electromagnetic field of centimeter and decimeter waves. Trudy VNITMIO no.3: 12-21 '63 (MIRA 18:2)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

BELOUSOV, B. Ye.; LIVENSON, A.R.

Exhibition of electronic medical equipment at the 5th International Conference of Medical Electronics. Trudy VNIIMIO no.3:87-100 '63 (MIRA 18:2)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENSON, A.R.

Measurement of the complex dielectrical permeability of some biological tissues in the range of decimeter and centimeter waves. Nov. med. tekh. no.2:16-23 '64. (MIRA 18:11)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

L 15120-65 EEC-4/EEC(k)-2/EWT(d) Pg-4/Pk-4/Pl-4/Po-4/Pq-4 AMD

ACCESSION NR: AP4042900 S/0243/64/000/007/0010/0017

AUTHOR: Livenson, A. R.

TITLE: Electric parameters of biological tissues in the microwave range; report II. Methods of measuring electric parameters of biological tissues

SOURCE: Meditsinskaya promyshlennost' SSSR, no. 7, 1964, 10-17

TOPIC TAGS: tissue, electric parameter, dielectric parameter, measurement, microwave range, coaxial transmission line

ABSTRACT: A simplified method of measuring dielectric parameters of biological tissues in a microwave range is described based on the use of a coaxial transmission line. On the basis of the external field distribution of a tissue, the coefficient of the travelling wave is determined on the coaxial measuring line. By probing the same line in the tissue itself, the amplitude distribution of the electric field vector is determined. With determination of these values, the dielectric parameters can be found. Dielectric parameters of ground muscle tissues were measured at frequencies of 460 and 2375 mc and

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L 15120-65

ACCESSION NR: AP4042900

2

the measuring setup is described. Measurement errors for the 460 mc frequency did not exceed 5%, and for the 2375 mc frequency they did not exceed 2.3%. Dielectric parameters of biological tissues with a high water content can be measured quickly and accurately in the microwave range without special equipment. "The author expresses his gratitude to B. Yu. Korel'shtein for assistance in conducting the measurements." Orig. art. has: 3 figures.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya, Moscow (All-Union Scientific-Research Institute of Medical Instruments and Equipment)

SUBMITTED: 10Mar64 ENCL: 00 SUB CODE: LS, EC

NR REF SOV: 004 OTHER: 006

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, Nikolay Mitrofanovich; LIVINSON, A.R., red.

[Electrical medical apparatus; principles of the function, structure and operation] Elektromeditsinskaia apparatura; printsip deistviia, ustroistvo, ekspluatatsiia. Izd.3., dop. i perer. Moskva, Meditsina, 1964. 334 p.
(MIRA 18:2)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

PAVLOVA, N.I.; LIVENSON, A.R.

Electron paramagnetic resonance spectra of the human blood under normal conditions and in leucoses. Biofizika 10 no.1: 169-171 '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumenta i oborudovaniya, Moskva.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENSON, A.R.

Some characteristics of the biophysical action of the electromagnetic field of centimeter and decimeter waves. Vopr. kur., fizioter. i lech. fiz. kul't 30 no.5:434-441 S-O '65.
(MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya (dir. I.P.Smirnov), Moskva.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

L 23084-66 EWT(m)/EWP(j)/T/ETC(m)-6 WW/RM

ACC NR: AP6008026 SOURCE CODE: UR/0243/66/000/002/0060/0062

AUTHOR: Livenson, A. R.; Korel'shteyn, B. Yu.

ORG: All-Union Scientific Research Institute of Medical Instruments and Equipment, Moscow (Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya)

TITLE: Power divider for the "Luch-58" microwave therapy unit

SOURCE: Meditsinskaya promyshlennost' SSSR, no. 2, 1966, 60-62

TOPIC TAGS: microwave technology, power divider, waveguide

ABSTRACT: The authors describe the newly designed DM-1 power divider developed at the All-Union Scientific Research Institute of Medical Instruments and Equipment for reducing the power fed to the radiator in the "Luch-58" unit by factors of 10 and 50. The power divider (see Fig. 1) consists of a cylindrical waveguide *1* excited by pin *2* which is the end of coaxial cable *3* in the unit. The load placed in the waveguide is a three-liter glass vessel *4* filled with tap water. The vessel is placed on a support *5* made from a high frequency dielectric (polystyrene foam plastic). Pins *6* and *7* enter the waveguide through openings in the support to lead off a portion of the power for feeding the radiators. The radiators are connected to the pins by a flexible coaxial cable through sockets *8* and *9*. The lengths of these pins are cho-

UDC: 815.846 : 621.385.6] : 615.471

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L 23084-66

ACC NR: AP6008026

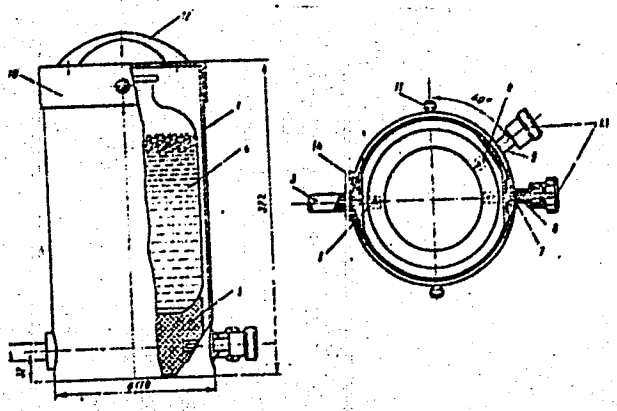

Fig. 1. Power divider.

sen in such a way that 1/10 of the power fed to the divider is taken off from socket *8* while plug *9* leads off 1/50 of the power. The waveguide is closed at the top by cover *10* which is fastened by nuts *11*. The portable divider is carried by handle *12* in the cover. The unused power lead is protected by cover *13*. Measurements show that the division factor for the 1:10 socket varies by ±10% in the working range, while that for the 1:50 socket varies by +20, -10%. Clinical tests conducted at the Central Scientific Research Institute of Natural Medicinal Factors and Physiotherapy showed that the DM-1 divider considerably increases the utility of the "Luch-58" unit. Orig. art. has: 1 figure. [14]

SUB CODE: 09/ SUBM DATE: 27Oct65/ ORIG REF: 002/ ATD PRESS: 4234

Card 2/2 UCR

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSOV, A.V.; MARKOV, M.N.; MERSON, Ya.I.; SHAMILEV, M.R.

Experimental determination of the radiation leaving the earth. Dokl. AN SSSR 146 no.2:344-346 S '62. (MIRA 15:9)

1. Predstavleno akademikom A.A. Blagonravovym.
(Atmosphere, Upper—Rocket observations)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTAL, V. E.

"Fossil Remains of Calcareous Algae in the Pliocene of Azerbaijan," Dok. AN, 51, No. 2, 1946. c1945-.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

CA

221

Fixation of sands in areas adjacent to an oil well. V. R. Livental. U.S.S.R. 68,633, June 30, 1947. Into the sand layer is first pumped a soln. of $Ca(OH)_2$ which wets the sand grains. Next is pumped a liquid non-miscible with the aq. soln., e.g., benzine, and then an aq. soln. of a carbonate is pumped into the sand. The carbonate combines with the Ca, thereby cementing the sand grains and yet leaves the layer sufficiently porous to drain the oil.

M. Hosch

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTAL' V. E.

PA 26/49T56

Jan 49

USSR/Geology
Stratification
Tectonics

"The Paleogenic Method of Stratigraphic Separation of Deposits," V. E. Livental', 2 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 1

Principle of method consists of selecting a representative mineral fauna and composing a table, plotting its phylogenesis against its ontogenesis for several layers, which more or less uniformly characterize the entire stratum according to time of their development. Submitted 11 Sep 48.

26/49T56

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

1. LIVENTAL', V. Ye.

2. USSR (600)

4. Mortality

7. Practical meaning of the mortality curve in the study of fossils. Dokl. AN SSSR. 87, no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTAL', V.E.

Data on paleontological characteristics of Buliminidae in Miocene deposits of the Carpathian Mountain region. Trudy L'vov.geol.ob-va no.2:158-197 '53. (MLRA 10:4)

1. L'vov. Ob"yedineniye Ukrneft'.
(Carpathian Mountain region--Foraminifera, Fossil)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTALS, A.

6557. Electrocardiographic changes in clinical hypertension. A. Liventals *Zin. rakstu Krajums Rigas med. Inst.*, 1954, 3, 209—217; *Referat. Zh. Biol.*, 1956, Abstr. No. 73910.—In 42 patients with clinical hypertension there were found: slowing of sinus rhythm, 8 cases, shortening of PQ interval, 10 cases, shortening of QRS interval, 6 cases, shortening of QRST, 9 cases, raising of T wave, 6 cases, raising of ST wave, 8 cases. The changes in e.c.g. were found in the early stages of the disease when other changes in the heart could not be detected—hence early hospitalisation based on e.c.g. facilitates treatment. (Russian) T. R. PARSONS

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

KURDYUMOV, O.I., inzh.; CHOPOROVA, R.I.; Prinimali uchastiye: AZRILYANT, Ye.A.; BOGANSKIY, G.I.; SMIRNOV, L.F.; PRAVDA, A.I.; LIVENTSEV, A.V.

Design and use of vibration-proof foundations for forging hammers. [Nauch. trudy] ENIKMASha 11:63-77 '65.

(MIRA 18:6)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, F.L., Cand Tech Sci—(diss) "Increasing the effectiveness of diesel units by means of high-temperature cooling with repulsion of steam." Len, 1958. 13 pp (Min of Higher Education USSR. Len Polytechnic Inst im M.I.Kalinin), 150 copies (KL,49-58, 124)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, F.L.

Increasing the efficiency of Diesel engines by using high-temperature cooling with take-off of steam. Trudy LPI no.193: 168-179 '58. (MIRA 12:2)

(Diesel engines--Cooling)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

MEL'NIKOV, G.V.; LIVENTSEV, F.L.; PETROV, V.M.; KOSTIN, A.K.

High-temperature cooling of the 10GK-1 gas motor compressor. Trudy LPI no.221:153-165 '62. (MIRA 15:9)
(Compressors--Cooling) (Gas, Natural--Transportation)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

KOSTIN, A.K., kand. tekhn. nauk, dotsent; LIVENTSEV, F.L., kand. tekhn. nauk, dotsent; MEL'NIKOV, G.V., kand. tekhn. nauk, dotsent

Heat stress of the 10GK-1 gas motor compressor with evaporation cooling. Energomashinostroenie 11 no.6:20-22 Je '65. (MIRA 18:7)

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, F.L., kand.tekhn.nauk, dotsent

High-temperature cooling of piston-type internal combustion enignes. Energomashinostroenie 9 no.12:15-18 D '63. (MIRA 17:1)

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, F.L.; GRIBANOV, V.I., kand. tekhn. nauk, retsenzent

[High-temperature cooling of piston-type internal combustion engines] Vysokotemperaturnoe okhlazhdenie porshnevykh dvigatelei vnutrennego sgoraniia. Moskva, Mashinostroenie, 1964. 191 p. (MIRA 17:9)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

GORODETSKIY, V.I., inzh.; ZYBIN, P.M., inzh.; ISAKOV, Yu.N., inzh.; D'YACHENKO, N.Kh., doktor tekhn.nauk, prof.; LIVENTSEV, F.L., kand.tekhn.nauk, dotsent; MEL'NIKOV, G.V., kand.tekhn.nauk, dotsent

A new gas pipe line compressor station with evaporation cooling of the gas motor compressors. Energomashinostroenie 10 no.1:27-29 Ja '64. (MIRA 17:4)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, I.I., kand.pedagog.nauk

Independent work with books in the biology class. Biol. v shkole no. 6:36-38 N-D '60. (MIRA 14:1)

1. Gorno-Altayskiy pedagogicheskiy institut.
(Biology--Study and teaching)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, I.I.

Demonstrating the infusoria in zoology classes. Biol. v shkole no.1: 84 Ja-F '62. (MIRA 15:1)

1. Volgogradskiy pedagogicheskiy institut.
(INFUSORIA)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

ANISIMOV, L. A., LIVENTSEV, L., BERNARD, F. K.

Bee Culture

Bee colonies with several queens Pchelovodstvo 29, no. 4, April 1952

9. Monthly List of Russian Accessions, Library of Congress, August 1952, Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N. M.

PA 16T56

USSR/Medicine - Diathermy
Electromagnetic waves

Jul 1947

"A New Method of Short Wave Diathermy," N. M. Liventsev, 6 pp

"Gospital Delo" No 7

Experiments carried out at the Physical Technical Dept, headed by A. N. Obrosov, of the State Scientific and Research Institute of Physiotherapy, directed by A. I. Nesterov. This new method consists of the use of the energy operated by vibrations of high frequencies creating magnetic fields. This energy pierces the tissue of the organs and creates heat within the organ.

16T56

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N. M.

USSR/Medicine - Electricity Jun 48
Medicine - Sleep

"The Problem of Sleep, Narcosis and Lethargy Induced by Electricity," Prof V. A. Gilyarovskiy, Prof I. F. Sluchevskiy, N. M. Liventsev, Z. A. Kirillova, Inst Psychiatry, Acad Med Sci, 5 3/4 pp

"Klin Med" Vol XXVI, No 6

Describes induction of narcosis and lethargy in dogs and human beings by alternating currents. Gives details of surgical operations performed under such conditions.

PA 14/49T58

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M.

Mechanism of narcotic and hyperkinetic reactions in electro-narcosis. Fiziol. zh. SSSR 37 no.6:703-712 Nov-Dec 51. (CIML 21:4)

1. Institute of Psychiatry, Ministry of Public Health USSR.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M.

Electronarcosis in supra-maximal dosage of electric current. Fiziol. zh. SSSR 38 no.1:39-45 Jan-Feb 52. (CIML 21:5)

1. Institute of Psychiatry, Ministry of Public Health, Moscow.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N. M.

OBROSOV, A.N., professor; LIVENTSEV, N.M., kandidat meditsinskikh nauk; MANIKOV, M.Ye., redaktor; KARTSEVA, K.K., tekhnicheskiy redaktor

[Electrodiagnosis and electric stimulation of muscles in diseases of the periferal nerves; new methods and apparatus] Elektrodiagnostika i elektrostimuliatsiia myshts pri porazhenii perifericheskikh nervov; novye metodiki i apparaty. Moskva, Gos. izd-vo med. lit-ry, 1953. 93 p. [Microfilm] (MLRA 7:10)

(Nervous system--Diseases)
(Electrodiagnosis)
(Electrotherapeutics)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

GILYAROVSKIY, Vasiliy Alekseyevich, 1875- ; LIVENTSEV, N.M.; SEGAL', Yu.E.; KIRILLOVA, Z.A.

[Electric sleep; clinical and physiological study] Elektroson; kliniko-fiziologicheskoe issledovanie. Moksva, Medgiz, 1953. 125 p. (MLRA 6:11)
(Electrotherapeutics) (Sleep)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

OBROSOV, A.N., professor; LIVENTSEV, N.M.; NESTEROV, A.I., deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR, zasluzhennyy deyatel' mauki, professor, direktor.

Soviet classification and nomenclature of electrotherapeutic measures and apparatus should be brought up to date. Sov.med. 17 no.5:35-37 My '53. (MLRA 6:6)

1. Akademiya meditsinskikh nauk SSSR (for Nesterov). 2. Gosudarstvennyy institut fizioterapii. (Electrotherapeutics)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVINTSEV, N.M.

Mechanism of various phases of electronarcosis according to the Pavlovian theory. Fiziol. zh. SSSR 39 no.2:153-158 Mar-Apr 1953. (CLML 24:3)

1. Institute of Psychiatry of the Ministry of Public Health USSR, Moscow.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M.

LIVENTSEV, N.M.; VOZDVIZHENSKAYA, V.S.; STRELKOVA, A.F.

Treatment with impulsive current (electronarcosis) of sequelae of traumatic injuries of the brain. Zhur.nevr.i psikh. 54 no.4:328-335 Ap '54. (MLRA 7:5)

1. Nevrologicheskoye otdeleniye kliniki Nauchno-issledovatel'skogo instituta fizioterapii Ministerstva zdravookhraneniya RSFSR.
(BRAIN, wounds and injuries,
*sequelae, ther., electronarcosis)
(WOUNDS AND INJURIES,
*brain, sequelae, ther., electronarcosis)
(ELECTRONARCOSIS, in various diseases,
*sequelae of brain inj.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, Nikolay Mitrofanovich, doktor meditsinskikh nauk, kandidat tekhnicheskikh nauk; KOLOSOV, A.A., redaktor; POPRYADUKHIN, K.A. tekhnicheskiy redaktor.

[Electrical medical (physiotherapeutic) equipment; installation, operation and maintenance] Elektromeditsinskaia (fizioterapevticheskaia) appratura (ustroistvo, ekspluatatsiia i remont); rukovodstvo dlia fiziotekhnikov. Moskva, Gos.izd-vo meditsinskoi lit-ry, 1955. 325 p. (MLRA 8:10)

(ELECTROTHERAPEUTICS--APPRATUS AND INSTRUMENTS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M.

Application of impulse currents in physiotherapy. Med.prom. no.2:6-9 Ap-Je '55. (MLRA 9:12)

1. Institut fizioterapii Ministerstva zdravookhraneniya RSFSR
(ELECTROTHERAPY,
impulse current)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M.; ABRIKOSOV, I.A.; SPICHENKOV, M.N.

Construction of an apparatus for local d'arsonvalization with an electron-tube circuit. Med.prom. no.3:31-35 Jl-S '55. (MLRA 9:12)

1. Institut fizioterapii Ministerstva zdravookhraneniya RSFSR.
(ELECTROTHERAPY, apparatus and instruments,
for local d'arsonvalization with electronic lamp)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSOV, N.M.

Biophysics and its place in medical education. Biofizika 2 no.4: 536-539 '57. (MLRA 10:9)

1. Pervyy Moskovskiy ordena Lenina meditsinskiy institut im. I.M.Sechenova

(BIOPHYSICS) (MEDICINE--STUDY AND TEACHING)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

OBROSOV, A.N., prof.; LIVENTSEV, N.M., prof.

"Physics and its application in biology and medicine" [in German] by W.Beyer, E.Dörner. Reviewed by A.N.Obrozov, N.M.Liventsev. Vop.kur.fizioter. i lech.fiz.kul't. 22 no.6:81-84 N-D '57. (MIRA 11:2)

1. Gosudarstvennyy institut fizioterapii (for Obrosov). 2. Kafedra fiziki I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (for Liventsev)

(PHYSICS) (BEYER, W.) (DORNER, E.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M.

LIVENTSEV, N.M., prof.

Physics in medicine. Zdorov'e 4 no.2:1-3 F '58. (MIRA 11:2)
(PHYSICAL THERAPY)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M., prof.

Achievements of physics in the field of public health. Sov.zdrav. 17 no.12:15-19 D '58. (MIRA 12:2)

1. Iz I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(PHYSICS
physicist's contribution to pub. health
(PUBLIC HEALTH
contribution of physicists

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M.

ARTSYBYSHEV, N.A.; BELOGORSKAYA, N.I.; VINOGRADOVA, L.Yu.; GALANIN, D.D.; GUR'YEVA, V.V.; ZVORYKIN, B.S.; ZORE, V.A.; LIVENTSEV, N.M.; MENSHUTIN, N.F.; MINCHENKOV, Ye.Ya.; POKROVSKIY, A.A.; REZNIKOV, L.I.; SAKHAROV, D.I.; TIKHONOVA, Z.I.; KHLEBODAROV, S.F.; SHEYMAN, M.I.; YUS'KOVICH, V.F.

Professor S.A. Artsybyshev; obituary. Fiz. v shkole 18 no.1:95-96 Ja-F '58. (MIRA 11:1)

(Artsybyshev, Sergei Aleksandrovich, 1887-1957)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, Nikolay Mitrofanovich; ABRIKOSOV, Ivan Alekseyevich; KIRILLOVA, Zinaida Alekseyevna; AVERBAKH, M.M., red.; POPRYADUKHIN, K.A., tekhn. red.

[Electricity in the service of health; treatment by light and electricity] Elektrichestvo na sluzhbe zdorov'ia; o lechenii svetom i elektrichestvom. Moskva, Gos. izd-vo med. lit-ry, 1956. 59 p. (MIRA 11:7)

(ELECTROTHERAPEUTICS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

S/003/60/000/002/001/002
B023/B056

AUTHOR: Liventsev, N. M., Professor

TITLE: Future Physicians to Receive an Extensive Biophysical Training

PERIODICAL: Vestnik vysshey shkoly, 1960, No. 2, pp. 30 - 33

TEXT: The great tasks to be performed by medical science in accordance with the decisions of the XXI Congress of the CPSU call for a deeper and more comprehensive development of medical science. N. S. Khrushchev pointed out that the development of biology by way of utilizing achievements of biochemistry and biophysics must be considered an essential condition for raising the level of medical science. Modern biophysics has its own problems, as has been explained by P. P. Lazarev, Academician. Its basic importance is, according to the author, to rouse and develop the dialectic - materialistic viewpoint toward the living organism in physicians, thus forming a basis for their way of thinking. On the basis of his detailed lecture, the author arrives at the conclusion that biophysics should occupy a position that is analogous to that of biochemistry

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

Future Physicians to Receive an Extensive Biophysical Training

S/003/60/000/002/001/002
B023/B056

or a position that might rather be termed "symmetric". In accordance with this principle and these directives, the theoretical part of the scientific plan of medical institutes must be reformed. Such a reformation requires time, and can be performed only in stages. The first on this way is intended to be the reform of courses in physics from a general educational into a special course known as "medical physics" analogous to "biological physics". This terminology is not new. Already for a long time, a branch of science has been known by that name at the Voyenno-meditsinskaya akademiya imeni S. M. Kirova (Military Medical Academy imeni S. M. Kirov). The author then gives a definition of medical physics and enumerates the problems which a reorganized course should comprise: 1) Laws of mechanics; 2) molecular phenomena; 3) simple electric phenomena; 4) main phenomena connected with the nature of light waves; 5) structure of the atomic nucleus; 6) dialectic unity of corpuscular and wave properties of matter. The syllabus comprising all these subjects corresponds to 104 instruction hours as compared to 68 instruction hours of the present course of physics. The author then continues saying that it would also be to the purpose to extend the course on medical physics to two or three terms. It is further necessary to reorganize also the practical part of the course. Practical

Card 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

Future Physicians to Receive an Extensive Biophysical Training

S/003/60/000/002/001/002
B023/B056

work should have the character of laboratory work. Every student ought to solve his problems independently, viz., by means of physical outfit of his own personal use. The usual two hours of laboratory work are not very effective because they permit only a superficial introduction into methods. The structure of the course described will, in future, on the one hand, allow physicians a proper insight into the nature of physiological processes, and, on the other, it will make it possible to convey a minimum of necessary knowledge in the field of diagnostics and therapeutics. This reorganization of the course of physics is intended to be only a transitory stage. In future, biophysics will occupy an independent position within the syllabus, whereas the problems of medical apparatus are to become a special branch of science. These statements were made by the author at a conference of the heads of chairs of physics of medical institutes, which had been convened by the Ministerstvo zdravookhraneniya SSSR i RSFSR (Ministry of Health USSR and RSFSR) in Moscow in October 1959. The new directives were approved by the members of the conference.

ASSOCIATION: 1-y Moskovskiy meditsinskiy institut imeni I. M. Sechenova (First Moscow Medical Institute imeni I. M. Sechenov)

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, Nikolay Nitrofanovich

[Electric medical apparatus; operating principles, installation, and use] Elektro-meditsinskaia apparatura; printsip deistviia, ustroistvo, ekspluatatsiia. Izd.2., dop. i perer. Moskva, Medgiz, 1960. 386 p. (MIRA 13:9)

(ELECTROTHERAPEUTICS--EQUIPMENT AND SUPPLIES)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, Nikolay Mitrofanovich

[Course in physics for medical students] Kurs fiziki dlia medikov. Moskva, Gos.izd-vo lit-ry, 1960. 514 p. (MIRA 14:3)

(Physics)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M.

"Essentials of biological and medical physics" by Ralph W. Stacy and others. Reviewed by N.M. Liventsev. Biofizika 5 no. 4:513-516 '60. (MIRA 13:12)

(BIOPHYSICS) (STACY, RALPH W.)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M.

Regulating features of apparatus for electrotherapy and electrodiagnosis. Vop. kur. fizioter. i lech. fiz. kul't. 25 no. 3:244-247 My-Je '60. (MIRA 14:4)

1. Iz kafedry fiziki I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova i Nauchno-issledovatel'skogo instituta fizioterapii Ministerstva zdravookhraneniya RSFSR.
(ELECTROTHERAPEUTICS—APPARATUS AND INSTRUMENTS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV N.M.

" ELECTRODIAGNOSIS AND ELECTRICAL STIMULATION IN THE TREATMENT OF NEUROMUSCULAR DISEASES"

report to be submitted to the Planning Committe, Third Intl, Congress On Physical Medicine, Washington, D.C. , 21-26 August 1960

Summary availble Intl. Conference File.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M., prof.; GUBAREV, I.D., red.; BIRKENVAL'D, G.V., tekhn. red.

[Special methods in microscopy; optional lecture in a course in physics for physicians and biologists] Spetsial'nye priemy mikroskopii; fakul'tativnaia lektsiia po kursu fiziki dlia medikov i biologov, Moskva, 1-i Mosk. med.in-t im. I.M. Sechenova, 1961. 36 p. (MIRA 15:8)
(Microscopy--Technique)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M., prof.; GUBAREV, I.D., red.; BIRKENVAL'D, G.V., tekhn. red.

[Methodological textbook for the arrangement of practical work in a physics class: Use of a dosimeter in studying X-ray absorption by various substances]Metodicheskoe posobie dlia postanovki i vypolneniia v fizicheskom praktikume raboty: Issledovanie pogloshcheniia rentgenovskogo izlucheniia razlichnymi veshchestvami s pomoshch'iu dozimetra. Moskva, Pervyi MOLMI, 1961. 17 p. (MIRA 15:12)

(Physics—Study and teaching) (X-ray absorption)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M., prof. (Moskva); NESTEROV, V.A., dotsent (Moskva)

Electricity in medicine. Fiz. v shkole 21 no.6:17-25 N-D '61. (MIRA 14:12)

(Medical instruments and apparatus)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, N.M., prof. (Moskva)

Light and sound measurements in physics. Fiz.v shkole 23 no.1:95-98 Ja-F '63. (MIRA 16:4)
(Optics, Physiological) (Sound--Measurement).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, Nikolay Mitrofanovich; LIVENSON, A.R., red.

[Electrical medical apparatus; principles of the function, structure and operation] Elektromeditsinskaia apparatura; printsip deistviia, ustroistvo, ekspluatatsiia. Izd.3., dop. i perer. Moskva, Meditsina, 1964. 334 p.
(MIRA 18:2)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

BANSHCHIKOV, V.M., prof.; LIVENTSEV, N.M., prof.; SERGEYEV, G.V., doktor med. nauk; KULIKOVA, Ye.I. (Lebedinskaya), kand. med. nauk

Conference of doctors of Moscow and Moscow Province on the problem of electrosleep. Vop. kur., fizioter. i lech. fiz. kul't. 30 no.4:375 Jl-Ag '65. (MIRA 18:9)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, V., insh.

Making efforts to save money. Mast.ugl. 7 no.4:22 Ap '58.
(Coal mines and mining--Costs) (MIRA 11:4)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

PIRKOVSKIY, N. [Pirkovs'kyi, N.]; LIVENTSEV, V.

Marshes retreat. . Znan. ta pratsia no. 1:25 Ja '61. (MIRA 14:4)

(Rovno Province--Reclamation of land)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, V.D.; NUSHNIKOV, G.A.; ZAYTSEV, G.G.; BARABANOV, V.N.; ANUFRIYEV, Yu.P.

Investigating certain properties and the mechanism of the deformation of graphite. Konstr. uglegraf. mat. no.1:175-189 '64. (MIRA 17:11)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

EWG(j)/EWT(d)/EWP(e)/EWT(m)/EWP(w)/EPF(c)/EWP(c)/EWA(d)/EWP(v)/

ACCESSION NR: AT5003516 S/000/64/000/001/0175/0189

AUTHOR: Liventsev, V. D.; Lushnikov, G. A.; Zaytsev, G. G.; Barabanov, V. N.; Anufriyev, ~~Yu. P.~~

TITLE: Investigation of some of the properties of graphite and of its deformation mechanism

SOURCE: Konstruktsionnyye uglegrafitovyye materialy (Carbon and graphite construction materials); sbornik trudov, no. 1. Moscow, Izd-vo Metallurgiya, 1964, 175-189

TOPIC TAGS: acoustic analysis, ultrasonic inspection, nondestructive testing, graphite, tensile property, material strength

ABSTRACT: Acoustic inspection methods based on measurement of the rate of propagation of an ultrasonic signal, measurement of signal attenuation and measurement of natural frequency oscillations (resonance method) are being more and more frequently used in testing graphite finished and semifinished articles. The measurement of elastic and inelastic acoustic parameters makes it possible to determine the strength of an article without destroying it. In order to study

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

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ACCESSION NR: AT5003516

the mechanism of graphite destruction in the case of compression, the authors examined the changes in acoustic parameters (rates of propagation and attenuation of ultrasonic waves) and also investigated the effect of [illegible] properties of the graphite. The experiments were conducted [illegible] The ultrasonic working frequency was [illegible] The ultrasonic propagation time was measured in a direction perpendicular [illegible] compression. The time for passage of the signal was [illegible] V4-7I ultrasonic flaw detector." The accuracy for reading the relative changes in time for passage of the signal is 0.1-0.2% if the experiment is conducted continuously and for a comparatively short duration [illegible] minute. This error is caused chiefly by variations in the power supply voltage. The experiments which were conducted indicated that it is possible to determine the moments of origin and nature of the development of cracks in graphite in the case of both single-stage and repeated compression. During compression, graphite has considerable relative longitudinal deformations, maximum values reaching $10 \cdot 10^{-3}$ which is 3-5 times greater than the tensile deformation limits. The graphite retains considerable residual deformations after the first loading and subsequent unloading. The value of these deformations depends on the given

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

L 38083-65
ACCESSION NR: AT5003516

stress, and on the average is 20% of the overall relative deformations at the [illegible] stress. The Poisson bracket, which is determined [illegible] graphite studied, is equal to approximately [illegible]. After [illegible] cycles, depending on the value of maximum stress, no increase is observed in the residual deformations in the graphite. After this, the values of the relative longitudinal deformations and the module of elasticity become reproducible and an elastic hysteresis loop is observed, i. e. the graphite behaves like an elastic body within stress limits which do not exceed the maximum stresses [illegible] values. Data are obtained on the relative time change, and [illegible] on the change in the rate of propagation of the ultrasonic signal as well as in the values of both the overall and residual deformations and in the module of elasticity as the compressive load is changed. These data may be used for calculating the strength of graphite articles and in developing methods for testing these articles without destroying them. It is proposed that a further study be made of the properties of graphite and of the deformation mechanism in the [illegible] single-stage and repeated bending. It is also proposed that micro-[illegible] and x-ray analysis methods be used. Orig. art. has: [illegible] figures, [illegible] tables.

Card 3/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

L 38083-65
ACCESSION NR: AT5003516

ASSOCIATION: none

SUBMITTED:20Dec63 ENCL: 00 SUB CODE: MT

NO REF SOV: 003 OTHER: 003

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEV, V.V., inzh.

Determination of the permeability parameters of a layer of coal by the seepage of minute quantities of water. Izv. vys. ucheb. zav.; gor. zhur. 6 no.9:88-94 '63. (MIRA 17:1)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki. Rekomendovana kafedroy rudnichnoy i promyshlennoy aerologii i tekhniki bezopasnosti.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

BURCHAKOV, A.S., doktor tekhn. nauk; LIVENTSEV, V.V., gornyy inzh.

Experimental and analytical method of calculating parameters of the wetting of a mine section. Ugol' 39 no.6:56-62 Je '64 (MIRA 17:7)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

SAKHAROV, I.Ye.; LIVENTSEVA, I.F.

Injection of an electron beam into plasma in a strong magnetic field. Radiotekh. i elektron. 9 no.5:838-843 My '64.
(MIRA 17:7)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

L 23907-65 EWT(1)/EWG(k)/EPA(sp)-2/EPA(w)-2/EEC(t)/T/EEC(b)-2/EWA(m)-2
Pz-6/Po-4/Pab-10/Pi-4 IJP(c) AT

ACCESSION NR: AP4038643 S/0109/64/009/005/0838/0843

AUTHOR: Sakharov, I. Ye.; Liventseva, I. F.

TITLE: Introducing an electron beam into plasma located in a strong magnetic field

SOURCE: Radiotekhnika i elektronika, v. 9, no. 5, 1964, 838-843

TOPIC TAGS: electron beam, plasma, plasma amplifier, plasma shf oscillator, plasma proof electron beam

ABSTRACT: A new electron-beam source is described in which the beam is shielded from plasma penetration into the accelerating gap and from ion bombardment of the cathode. A sharp nonuniformity of an external magnetic field created by counter-connected coils is used for shielding. The device used in the experiments (see Fig. 1 of the Enclosure) consisted of a 50-mm-diameter, 500-mm-long, glass cylinder filled with He at 10^{-2} to $(1-2) \times 10^{-7}$ torr. Both the accelerating gap and the discharge gap were in the uniform-magnetic-field region. The anode-discharge-cathode distance was 120 mm. An electron-beam collector with an analyzer permitted evaluating the straggling of electrons in the beam. Stable operation was ob-

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ACCESSION NR: AP4038643

served at pressures of up to 5×10^{-2} torr in He. The magnetic nonuniformity resulted in a reduction in the ion current (through the cathode) by 3 orders of magnitude. The energy straggling of electrons associated with longitudinal motion was 20% or less of the total energy involved. "The authors are deeply indebted to V.Ye. Golant for his constant help and discussing the results." Orig. art. has: 3 figures and 4 formulas.

ASSOCIATION: none

SUBMITTED: 05Jul62 ENCL: 01 SUB CODE: ME, NP

NO REF SOV: 002 OTHER: 002

Card 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

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ACCESSION NR: AP4038643

ENCLOSURE: 1

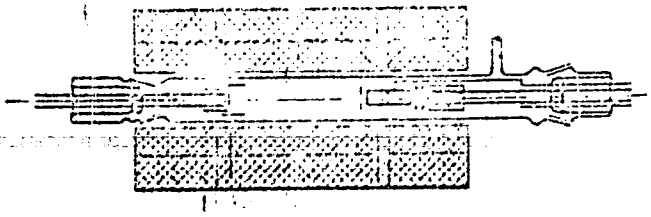

Fig. 1. Experimental device with magnetic coils

Right - an electron projector inserted through a ground-glass joint. Left - a discharge cathode; next to it, a beam collector.

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L 6313-66 EWT(1)/EWT(m)/EPF(c)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2/EWP(t)/EWP(b) IJP(c)

ACC NR: AP5028318 JD/GG/AT SOURCE CODE: UR/0057/65/035/011/2034/2041

AUTHOR: Golant, V.Ye.; Zhilinskiy, A.P.; Liventseva, I.F.; Sakharov, I.Ye.

ORG: Leningrad Polytechnic Institute im. M.I.Kalinin (Leningradskiy politekhnicheskiy institut)

TITLE: Electromagnetic radiation from an electron beam traversing a plasma in a magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 11, 1965, 2034-2041

TOPIC TAGS: helium plasma, plasma beam interaction, plasma, plasma oscillation, plasma wave, cyclotron resonance, electron beam

ABSTRACT: The authors have investigated the microwave (3 cm wavelength) fields in and radiation from plasmas produced by 20 to 900 mA beams of 0.8 to 2 keV electrons traversing helium at pressures from 5×10^{-3} to 1×10^{-1} mm Hg in the presence of a 2kOe or weaker uniform longitudinal magnetic field. The plasmas were produced in a 5 cm diameter 40 cm long glass tube containing at one end an electron gun producing a 0.5 cm diameter beam. The electron gun was operated with 2 μsec pulses at a repetition rate of 50/sec. The radial distribution of the longitudinal microwave electric field was determined with the aid of a uhf probe consisting of a section of twinlead with 4 mm spacing, and the radiated microwaves were received with an open onded wave-

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ACC NR: AP5028318

guide section located close to the discharge tube. The uhf signals were recorded with a superheterodyne receiver with a 2 Mc passband and a sensitivity of 5×10^{-12}W. One conductor of the uhf probe was employed also as a Langmuir probe to determine the plasma density. The discharge tube contained in the end opposite the electron gun an anode and a directly heated cathode, with the aid of which a gas discharge plasma could be produced. This plasma was employed to calibrate the Langmuir probe in the presence of the magnetic field and in some other auxiliary experiments. The plasma produced by the electron beam was found to extend far beyond the limits of the beam. The microwave field strength and radiation intensity were investigated as functions of the magnetic field strength, gas pressure, beam current, and electron energy, and the results are presented graphically and discussed. The intensity of the uhf radiation varied greatly with the conditions of operation, but such radiation was observed at magnetic field strengths an order of magnitude lower than that corresponding to the electron cyclotron resonance, and in some cases in the absence of a magnetic field. Further work will be required to elucidate the nature of the coupling between the longitudinal plasma oscillations and the transverse electromagnetic waves which makes the radiation possible. Orig. art. has: 9 figures. [15]

SUB CODE: ME, EM/ SUBM DATE: 18Feb65/ ORIG REF: 011/ OTH REF: 006/. ATD PRESS: 4143

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Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

AL'BITSKAYA, O.N.; LIVENTSEVA, N.D.; SHAPOSHNIKOVA, N.A.; YAMANOV, S.A.

Investigating the resistance of dielectrics to moisture and fungi in a moist tropical climate. Trudy VEI no.62:217-239 '58. (Dielectrics) (MIRA 11:11)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSEVA, YE.

Bee Culture

Determining the germination of the Phacelia seed. Pchelovodstvo 29 no. 3:42-44 Mr '52.

9. Monthly List of Russian Accessions, Library of Congress, July 1952 Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

L 09974-67 EWT(m)

ACC NR: AP6035348 SOURCE CODE: UR/0243/66/000/010/0017/0024

AUTHOR: Livenson, A. R.

ORG: All-Union Scientific Research Institute of Medical Instrumentation (Vsesoyuznny nauchno-issledovatel'skiy institut meditsinskogo priborostroyeniya)

TITLE: Determination of the coefficient of reflection for multilayered systems of biological tissues in the microwave range

SOURCE: Meditsinskaya promyshlennost' SSSR, no. 10, 1966, 17-24

TOPIC TAGS: ~~microwave~~ radiation biologic effect, radiation dosimetry, microwave ~~dosimetry~~

ABSTRACT: The author presents diagrams showing some results of his dosimetric survey using cattle and pig specimens. A diagram of the dosimeter is shown in Fig. 1.

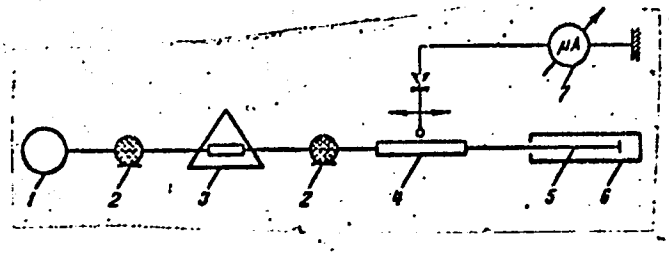

Fig. 1. Setup for measuring the coefficient of reflection for various biological tissues

1 - Generator: 2 - coaxial cables; 3 - attenuator; 4 - measuring line; 5, 6 - thermostatic specimen holder; 7 - microammeter.

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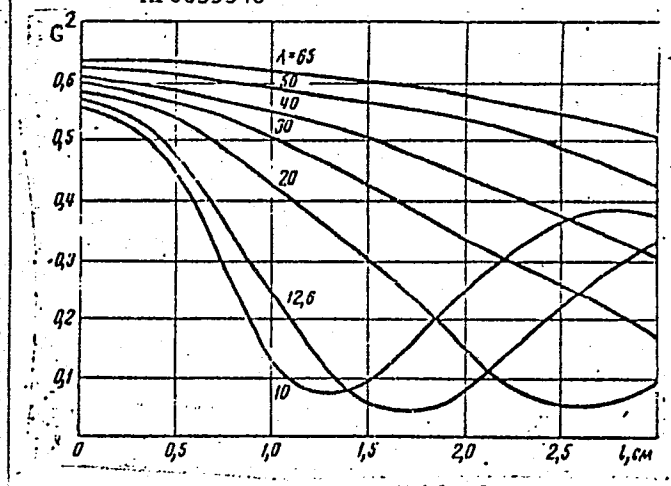

Fig. 2. Dependence of the coefficient of reflection, G^2, (according to power) on the thickness of the fatty layer when a two-layer system of fat and muscle is used

1 - for wavelength λ - from 10—65 cm.

Table 1.

	λ=12,6 см					λ=65 см				
	Z_e	R	X	θ rad	λ_e (см)	Z_e	R	X	θ rad	λ_e (см)
	ом					ом				
Muscle.....	52,5	52	8	0,155	1,7	44	41,5	14,7	0,34	8,1
Skin.....	56,6	55,4	9,6	0,172	1,9	52,5	49,5	16,7	0,318	9,5
Fat.....	186	181	22,3	0,122	6,4	170	163	44	0,264	30,5

Table. 1. Calculated wave resistance and wave length parameters for some biological tissues

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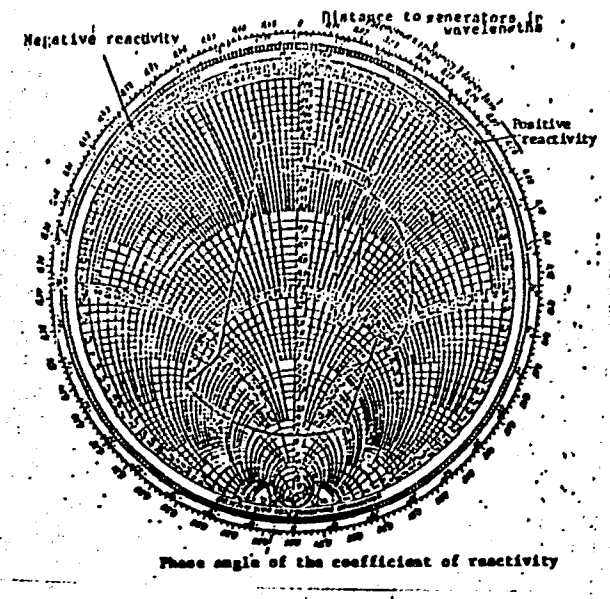

Fig. 3. Diagrammatic calculation (impedances) of the coefficient of reflection for a three-layer system of skin-fat-muscle when the fatty layer is 1 cm thick and the skin is 0.2 cm thick. 1—6 wavelength 65 cm; 1'—6' wavelength 12.6 cm

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Fig. 4. Diagram of the disposition of tissue layers in a three-layer system

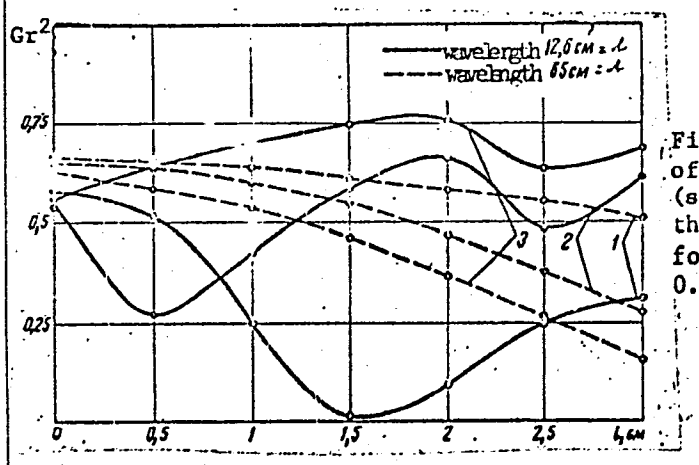

Fig. 5. Dependence of the coefficient of reflection for a three-layer system (skin-fat-muscle) on the thickness of the fatty layer when the skin is of the following thickness: 0.2 cm (1); 0.4 cm (2); no skin (3).

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The following types of generators were used: GSS-12 (100—1000 Mc; GSS-15 (1000—2000 Mc); GSS-22 (2000—3000 Mc). Results of the dosimetric surveys are shown in the following figures. It was concluded that a comparison of experimental measurements with calculated data rendered the practical use of analytical and graphic analytical methods of calculation possible. The latter is more effective owing to its simplicity and visual quality. Approximately 50% of the microwave energy used in medical practice (460—2375 Mc) is reflected from the surface of the body. At a frequency of 460 Mc, this value fluctuates between 35 and 63% and at a frequency of 2375 Mc, between 25 and 76% depending on skin and fat thickness. A quarter-wave matching strip (Mycalex 1-cm thick) substantially increases the percentage of tissue-absorbed energy during 12-cm-range medical procedures. Orig. art. has: 5 figures.

SUB CODE: 06/ SUBM DATE: 06Apr66/ ORIG REF: 002/ OTH REF: 006/
ATD PRESS: 5105

Card 5/5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

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3.5110

AUTHORS: Liventsov, A. V., Markov, M. N., Merson, Ya. I., Shamilev, M. R.

TITLE: Experimental determination of outward terrestrial radiation

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 146, no. 2, 1962, 344-346

TEXT: So far only mean values of terrestrial radiation could be calculated for the troposphere and stratosphere, and sometimes the data were unreliable. In view of this, the emissive terrestrial radiation was measured by means of high-altitude sounding rockets at altitudes from 100 to 500 km. A special infrared radiation-measuring device was used. It comprised an optical mirror system for focusing the thermal radiation emitted upward (spectrum range from 2.5 to 40 μ) onto a low-inertia bolometer, signal amplifiers, automatic recorders of the magnetic and galvanometric type, and radio-telemetering systems for monitoring the recorded data to Earth. The modulation principle was employed with a frequency of 80 c/sec. Operational difficulties through the spectrum band being close to the modulator band were overcome by differential modulation

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of heat flux radiation both from the Earth and from cosmic space used as control gauge. During 1958 - 1961 four tests were carried out over specific territorial sections of the central regions in the European part of the USSR at altitudes of 100 km (during the total solar eclipse on February 15, 1961), 200 km (two tests), and 470 km. Data from single territorial sections were obtained by scanning of the lower hemisphere in the optical system. Scanning angle was 180°, scanning intervals were 30 sec. Integral radiation within this wave range was recorded. Solar short-wave radiation was filtered out by frosting the mirrors or by dusting them with PbS. The spatial resolving power of the device was 0.5°. Before testing, the device was calibrated to radiator gauges and the sensitivity was automatically controlled by a special built-in gauge radiator over intervals of 30 sec. Q and T_{eff} were calculated according to Lambert's law as numerical values. They were compiled in a table together with comparative data from other authors. Differences in radiation flux due to meteorological factors were observed. Results:

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	Test 1	Test 2	Test 3	Test 4
Q w/cm^2	$1.2 \cdot 10^{-2}$	$0.9 \cdot 10^{-2}$	$1.4 \cdot 10^{-2}$	$1.8 \cdot 10^{-2}$
T_{eff}, K^o	216	200	224	238
Conditions	no clouds	medium overcast	medium overcast	continuous overcast solar eclipse

Conclusion : it was possible to measure infrared terrestrial radiation over a broad spectrum range (40 μ) in practice. At the same time a new method, has been developed which can be applied both to studies in geophysics and to terrestrial atmosphere research. The mechanical part of the radiation-measuring device was designed by V. Ye. Shervinskiy. There is 1 table.

PRESENTED: April 9, 1962, by A. A. Blagonravov, Academician
SUBMITTED: March 13, 1962
Card 3/3

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

AVER'YANOV, I.P.; KASATKIN, A.M.; LIVENTSOV, A.V.; MARKOV, M.N.; MERSON, Ya.I.; SHAMILEV, M.R.; SHERVINSKIY, V.Ye.;

Measurement of the emerging heat radiation of the earth from a high-altitude geophysical automatic station during the total solar eclipse of Februrary 15, 1961. Isk.sput.Zem. no.14:49-56 '62. (MIRA 15:11)

(Heat--Radiation and absorption)
(Atmosphere, Upper--Rocket observations)

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S/560/62/000/014/003/011
A001/A101

3,5800

AUTHORS: Aver'yanov, I. P., Kasatkin, A. M., Liventsov, A. V., Markov, M. N., Merson, Ya. I., Shamilev, M. R., Shervinskiy, V. Ye.

TITLE: The measurement of Earth's thermal radiation into space during the total eclipse of February 15, 1961, from an altitude geophysical automatic station

SOURCE: Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli. no. 14, 1962, 49 - 56

TEXT: To improve calculational methods of determining radiation of the atmosphere at high altitudes, the study of optical properties of its upper layers, using the measurements of its thermal radiation, is necessary. These studies have been conducted in the USSR since 1958 by means of altitude geophysical rockets. The article describes one of these experiments performed during the total solar eclipse of February 15, 1961, in the middle part of the European part of the USSR. The general scheme of the experiment is shown in Figure 1 and the block-diagram of the device mounted on an altitude geophysical automatic

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station (rocket) is shown in Figure 2. The rocket was lifted to an altitude of about 100 km. During the operation at high altitudes the device performed about 5 cycles of scanning, three of which were satisfactory and were used for processing. The recorder of radiation functions on the differential system of registration; the speed of scanning motion is 6° per one sec.; the threshold of bolometer sensitivity amounts to 10^{-9} w/cps at a frequency of 80 cps; the spectral sensitivity of the bolometers is uniform within the range from 1 to 40 μ. The mean magnitude of the thermal flux, averaged for the total scanning angle, was determined to amount to 1.8×10^{-2} w.cm^{-2}. The experiment conducted, as well as the previous measurements of the Earth's thermal radiation, is the first attempt of this kind. There are 5 figures.

SUBMITTED: March 10, 1962

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A001/A101

The measurement of Earth's thermal...

Figure 1. The scheme of an experiment
Legend: 1 - Altitude geophysical automatic station; 2 - recorder of Earth's radiation; 3 - area on the Earth whose radiation is being measured; 4 - belt of total eclipse phase; 5 - band of scanning; 6 - lunar umbra.

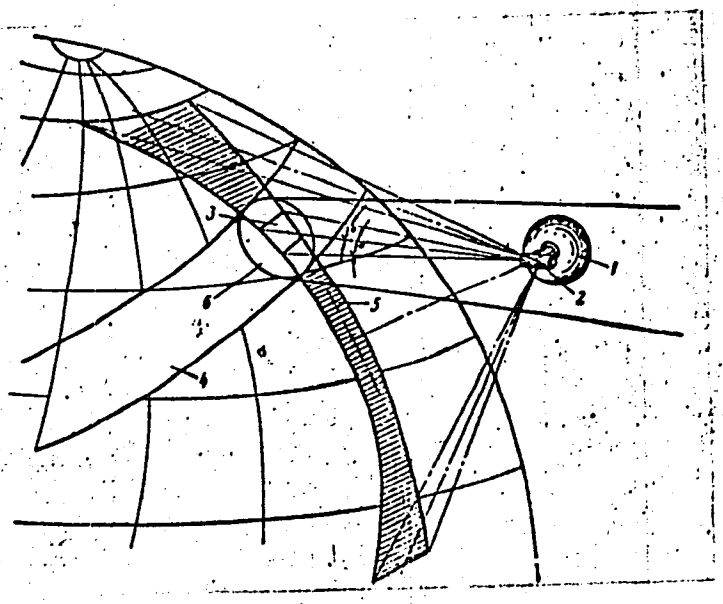

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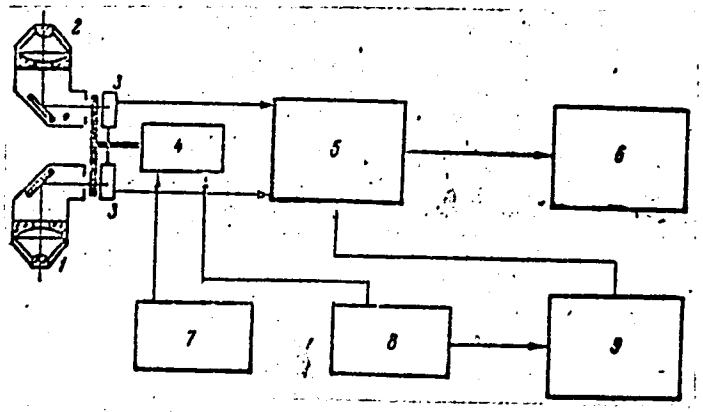
Figure 2. The block-diagram of a device for recording Earth's thermal radiation
Legend: 1 - scanning optical head; 2 - optical head of zero signal; 3 - bolometers; 4 - mechanism of scanning; 5 - amplifier; 6 - telemeasuring system; 7 - motor supply source; 8 - commanding device on board; 9 - supply source (autonomous).



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L 45735-65 EWG(v)/EWT(1)/EEC(t)/FSS-2 Pe-5/Po-4/Pae-2 GW/GS
ACCESSION NR: AT5011155 UR/0000/64/000/000/0051/0054

45
42
B+1

AUTHOR: Liventsov, A. V.; Markov, M. N.; Merson, Ya. I.; Shamilev, M. R.

TITLE: Experimental determination of the outgoing radiation from the earth, and investigation of the thermal radiation from the earth into outer space during the time of the total solar eclipse, using high altitude geophysical rockets

SOURCE: Mezhvedomstvennoye soveshchaniye po aktinometrii i optike atmosfery. 5th, Moscow, 1963. Aktinometriya i optika atmosfery (Actinometry and atmospheric optics); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 51-54

TOPIC TAGS: earth radiation, thermal radiation, geophysical rocket, high altitude rocket, solar eclipse, infrared radiation

ABSTRACT: The results reported were obtained since 1958 with geophysical rockets shot to altitudes of 100 - 450 km. The authors stress the results of one of the experiments carried out during the total solar eclipse of 15 February 1961 in the central belt of the European part of the Soviet Union. The radiation receiver was a bismuth bolometer. The null drift caused by instability of the bolometer bridge and the

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dc amplifier were eliminated by using a modulation scheme. The specifications of the equipment are briefly described. The first essential result obtained during the experiments was a direct measurement of the average values of the radiation outgoing from the earth, measured from outer space. The results indicate that the radiation flux from the earth varies smoothly with angle, and does not decrease abruptly toward the earth's rim. This indicates that the high layers of the upper atmosphere have a strong influence on the angular distribution. The considerable change in the energy flux during the total phase of the eclipse also offers evidence of the appreciable contribution from the upper layers, since the thermal conditions in the lower layers and in the ground could not change noticeably during the total eclipse. The results cannot be directly compared with those by others, in view of the different experimental conditions. The data obtained make it possible to estimate the screening effect of the moon on the daytime thermal radiation of the earth's atmosphere and lead to the conclusion that although the main theoretical values of the outgoing flux are in sufficiently good agreement with the experiment, the theoretical angular distribution needs considerable modification. "I. P. Aver'yanov, A. M. Kasatkin, and V. Ye. Shervinskiy participated in the experiment during the eclipse and in the development of the corresponding apparatus." Orig. art. has: 3 figures and 1 table. [02]

Card 2/3

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

L 45735-65
ACCESSION NR: AT5011155

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR, Moscow (Physics Institute AN SSSR)

SUBMITTED: 25Nov64 ENCL: 00 SUB CODE: AA, NS

NR REF SOV: 000 OTHER: 000 ATD PRESS: 4001

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L 45154-66 FSS-2/EWT(1) GW

ACC NR: AP6028339 SOURCE CODE: UR/0293/66/004/004/0592/0600

60
51
B

AUTHORS: Liventsov, A. V.; Markov, M. N.; Merson, Ya. I.; Shamilev, M. R.

ORG: none

TITLE: Investigation of the angular distribution of the earth's thermal radiation in outer space during the launching of a geophysical rocket on 27 August 1958

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 4, 1966, 592-600

TOPIC TAGS: thermal radiation, infrared radiation, geophysic rocket, earth atmosphere, geophysic experiment, radiation measurement

ABSTRACT: The experimental apparatus and the recorded data of a geophysical experiment conducted on a rocket, launched on 27 August 1958, are discussed. In part I of the report, the instrument is described that was used in measuring the angular distribution of the earth's IR-radiation. The various components and electrical circuitry of the radiometer are described in great detail. The two halves of the optical ends of the instrument were placed end-to-end on a small rotor to scan simultaneously in the vertical the earth's atmosphere and outer space. The instrument was calibrated using a low temperature radiation source. The rocket flew to an altitude of 450 km during which time a total of 50 scanning cycles was completed. In part II, the recorded results are given in graphical form as radiation intensity versus angular distribution and altitude curves, observed along a horizontal direction.

Card 1/2 UDC: 551.521.32

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The results show characteristics of nonisothermal radiation in the earth's atmosphere and several maxima in the IR-radiation at various altitudes. The following persons participated actively in the work: V. M. Yermakova, V. P. Glazunov, V. A. Zinov'yev, and S. S. Dudukin. The mechanical developments were the work of V. Ye. Shervinskiy, and the magnetic recordings were performed by A. F. Polyanskiy. The authors express their thanks to G. G. Boldyrev, A. M. Petryakhin, and K. A. Razin for their constant interest and influence on the work. Orig. art. has: 9 figures. [04]

SUB CODE: 04/ SUBM DATE: 15Mar65/ ORIG REF: 006/ ATD PRESS: 5081

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930230002-2

LIVENTSOV, I.I.

Experiment illustrating plant respiration. Biol. v shkole no. 3:88-89 My-Je '58. (MIRA 11:8)

1. Gorno-Altayskiy pedagogicheskiy institut.
(Botany--Study and teaching)
(Plants--Respiration)

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