

SERGEYEV, V.M.

Surgical treatment of chronic suppurations of the pleura. Vest.  
AMN SSSR 16 no.8:46-56 '61. (MIRA 14:12)

1. Institut grudnoy khirurgii AMN SSSR.  
(PLEURA\_\_SURGERY)

KOLESNIKOV, S.A.; SERGEYEV, V.M.

Achievements in contemporary chest surgery and the prospects for its further development. Vest. AMN SSSR 16 no.12:92-98 '61. (MIRA 15:2)

1. Problemnaya komissiya po probleme No.30 "Khirurgiya serdtsa, magistral'nykh sosudov, legskikh i pishchevoda" (predsedatel' - prof. S.A.Kolesnikov) pri prezidiume AMN SSSR.  
(CHEST SURGERY)

KOVANEV, V.A., kand.med.nauk; SERGEYEV, V.M., kand.med.nauk

"Current problems in anesthesiology," no.1, 1957, and no.2, 1959.  
Reviewed by V.A.Kovanev, V.M.Sergeev. Sov.med. 25 no.2:154-158  
F '61. (MIRA 14:3)

(ANESTHESIOLOGY)

ALEKSANDROV, N.I.; GEFEN, N.Ye.; YEROGOVA, N.B.; SERGEYEV, V.M.; MATYUK, P.D.;  
SMIRNOV, M.S.

Aerosol immunization by means of dry pulverized vaccines and anatoxins.  
Report No.2: Study on the effectiveness of the aerosol method of  
immunization and reimmunization by means of dry pulverized diphtherial  
anatoxins. Zhur. mikrobiol. epid. i immun. 31 no.7:92-97 J1 '60.  
(MIRA 13:9)

(DIPHTHERIA)

(TOXINS AND ANTITOXINS)

ALEKSANDROV, N.I.; GEFEN, N.Ye.; GAPOCHKO, K.G.; GARIN, N.S.; SERGEYEV, V.M.;  
LAZAREVA, Ye.S.; MISHCHENKO, V.V.; SHLYAKHOV, E.N.

Aerosol immunization with dry live vaccines and anatoxins. Report  
No.6: Study of the reactogenic and immunological effectiveness of  
aerosol immunization with spray vaccines (brucellosis, tularemia,  
anthrax and plague) in man. Zhur. mikrobiol. epid. i immun. 32  
no.7:56-62 Je '61. (MIRA 15:5)

(VACCINATION) (AEROSOLS)  
(COMMUNICABLE DISEASES--PREVENTION)

ALEKSANDROV, N.I.; GEFEN, N.Ye.; GAPOCHKO, K.G.; GARIN, N.S.; SERGEYEV, V.M.;  
SMIRNOV, M.S.

Aerosol immunization with dry live vaccines and anatoxins. Report No.7:  
Organization, methods, and technic of mass aerosol immunization of human  
subjects with atomized vaccines. Zhur. mikrobiol., epid. i immun. 32  
no. 9:3-7 S '61. (MIRA 15:2)  
(VACCINATION) (AEROSOLS)

SERGEYEV, V.M., kand.med.nauk; KRYMOVA, K.B., kand.med.nauk; KLIONER, L.I.

Diagnostic significance of angiobronchographic comparisons in chronic empyemas of the pleura. Khirurgiia 37 no.1:67-74 Ja '61. (MIRA 14:2)

1. Iz legochnogo (zav. - doktor med.nauk N.I. Gerasimenko) i rentgenovskogo (zav. - dotsent M.A. Ivanitskaya) otdeleniy Instituta grudnoy khirurgii (dir. - prof. S.A. Kolesnikov; nauchnyy rukovoditel' - akad. A.N. Bakulev) AMN SSSR.  
(EMPYEMA) (LUNGS---BLOOD SUPPLY)  
(ANGIOGRAPHY) (BRONCHI---RADIOGRAPHY)

KRYMOVA, K.B.; SERGEYEV, V.M.

Bronchography in chronic pleural empyemas. Grud.khir. 3 no.6:  
77-85 N-D '61. (MIRA 15:3)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof.  
S.A. Kolesnikov; nauchnyy rukovoditel' - akad. A.N. Bakulev) AMN  
SSSR.

(EMPHYEMA)

(BRONCHI—RADIOGRAPHY)



SERGEYEV, V.M., kand.med.nauk; KAZMIN, V.P.; GOLOVZKO, R.R.; ISHCHEKHO,  
V.V.

Treatment of complications following prosthetic filling of the  
residual pleural cavity with polyurethane sponge. Khirurgiia  
no.1:77-83 '62. (MIRA 15:11)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof.  
S.A. Kolesnikov; nauchnyy rukovoditel' - akad. A.N. Bakulev)  
AMN SSSR.  
(LUNGS--SURGERY) (URETHANES--THERAPEUTIC USE)

SERGEYEV, V.M., starshiy nauchnyy sotrudnik; KLIONER, L.I. (Moskva)

Diagnostic significance of catheterization of the vessels in the collapsed lung in pleural surgery. Klin.med. no.4:104-110 '62. (MIRA 15:5)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akad. A.N. Bakulev) AMN SSSR. (PLEURA--SURGERY) (LUNGS--COLLAPSE) (CATHETERS)

BYKOVA, V.A., dotsent; SERGEYEV, V.M., starshiy nauchnyy sotrudnik;  
KRIZOVA, K.B., starshiy nauchnyy sotrudnik

Stump and alveolar bronchopleural fistulae following partial  
resection of the lung. Vest.khir. no.5:10-22 '62. (MIRA 15:11)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof.  
S.A. Kolesnikov, nauchn. rukovoditel' - akad. A.N. Bakulev)  
AMT SSSR. Adres avtorov: Moskva, Leninskiy pr., d.8, Institut  
serdechno-sosudistoy khirurgii.  
(LUNGS—SURGERY) (FISTULA, BRONCHIAL) (PLEURA—DISEASES)

KUPRIYANOV, P.A., prof., zasl. deyatel' nauki, red.; GULOVANOV, V.D.,  
prof., red.; ZAYTSEV, G.P., prof., zasl. deyatel' nauki  
RSFSR, red.; PRIOROV, N.N., prof., red.[deceased]; SERGEYEV,  
V.M., kand. med. nauk, red.; PORYADIN, V.T., kand. med. nauk,  
red.; GOL'DGAMMER, K.K., red.; ROMANOVA, Z.A., tekhn. red.

[Transactions of the 27th All-Union Congress of Surgeons]Trudy  
XXVII Vsesoiuznogo s"ezda khirurgov. Moskva, Medgiz, 1962.  
633 p. (MIRA 16:1)

1. Vsesoyuznyy s"yezd khirurgov. 27th, Moscow, 1960. 2. Dey-  
stvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for  
Kupriyanov, Priorov). (SURGERY--CONGRESSES)

SERGEYEV, V.M.

Diagnosis of pleural diseases in a surgical clinic. Sov. Med.  
26 no.9:19-25 S '62. (MIRA 17:4)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof.  
S.A. Kolesnikov, nauchnyy rukovoditel' - akademik A.N. Bakulev)  
AMN SSSR.

SERGEYEV, V.M., kand.med.nauk; PISAREVSKIY, A.A. (Moskva)

Therapy for terminal states. Fel'd. i akush. 27 no.8:41-48  
Ag'62. (MIRA 16:8)

(DEATH, APPARENT) (RESUSCITATION)

KHURAMOVICH, N.I.; SERGEYEV, V.M.; RYZHKOV, Ye.V.

Angiomorphological comparisons in purulent lung diseases.  
Eksper. khir. i anest. 7 no.5:50-56 S-O '62.

(MIRA 17:10)

1. Iz rentgenologicheskogo otdeleniya (zav. M.A. Ivanitskaya)  
i iz patomorfologicheskoy laboratorii (zav.- prof. Ya.L. Rapoport)  
Instituta rukovoditel' - akademik A.N. Bakulev) AMN SSSR.

SERGEYEV, V.M., kand.med.nauk; MEL'NIK, I.Z.

Postoperative pneumonia following pneumonectomy. Vest.khir.  
90. no.2:144-148 F'63. (MIKA 16:7)

1. Iz Instituta grudnoy khirurgii (dir. - prof. S.A.Kolesnikov,  
nauchnyy rukovoditel' - akademik A.N.Bakulev) AMN SSSR. Adres  
avtorov: Moskva, Leninskiy pr., d.8, Institut grudnoy khirur-  
gii.

(LUNGS---SURGERY) (PNEUMONIA)



SERGEYEV, V.M.

Clinical significance of the study of the functions of external respiration in surgery on the pleura. Zdravookhranenie 6 no.3:24-27 My-Je'63 (MIRA 16:11)

1. Iz Instituta serdechno-sosudistoy khirurgii AMN SSSR (dir. prof. S.A.Kolesnikov).

\*

BUYANOV, Valentin Mikhaylovich; KLIONER, Lev Isaakovich;  
SERGEYEV, Viktor Mikhaylovich; KAZNIN, V.P., red.

[Textbook of surgery] Uchebnik khirurgii. Moskva, Meditsina, 1964. 423 p. (MIRA 17:6)

AGAL, E. G.; IMBENIV, V. V. *Journal of Applied Physiology*, 1973, 34, 1, 1-4.  
Koleenikov, E. A.

Comparative analysis of the results of the study of external  
respiration in patients with lung and pleural diseases by the  
spirographic method and modified apparatus. *Izv. Akad. Nauk SSSR  
Ser. Med. Biol. Sci.* 1973, 11-16A.

1. Institut seriyano-ortopediy Khirurgicheskoy Akademii Nauk SSSR,  
E. A. Koleenikov; naukovyye laboratorii Khirurgicheskoy Akademii Nauk SSSR,  
AMN SSSR, Moskva.

BAKULEV, A.N., akademik; BUNYATYAN, A.A., kand. med. nauk;  
BURAKOVSKIY, V.I., doktor med. nauk; BUYANOV, V.M., dots.;  
GULYAYEV, A.V., prof.; ZARETSKIY, V.V., doktor med. nauk;  
IVANOV, V.A., prof.; KOLESNIKOV, S.A., prof.; LOBACHEV,  
S.V., prof.; LOPUKHIN, Yu.M., prof.; MURATOVA, Kh.N., doktor  
med. nauk; PETROVSKIY, B.V., zasl. deyatel' nauki RSFSR, prof.;  
SAVEL'YEV, V.S., prof.; SERGEYEV, V.M., doktor med. nauk;  
SOLOV'YEV, G.M., prof.; SOLOV'YEVA, I.I.; BURAKOVSKIY, V.I.,  
red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po khi-  
rurgii. Moskva, Meditsina. Vol.6. Pt.1. 1965. 577 p.  
(MIRA 18:10)

1. Deystvitel'nyy chlen AMN SSSR (for Petrovskiy).

YAROSHINSKIY, Ye.V.; SERGEYEV, V.N.

Xenoliths in magnetites from dikes in the Tel'bes deposit. Geol.rud.  
mestorozh. no.3:98-102 My-Je '61. (MIRA 14:6)

1. Tomskiy politekhnicheskiy institut S.M.Kirova.  
(Tel'bes region--Xenoliths)

SERGEYEV, V.N.

Review of foreign literature on the marine transportation of  
Sweden. Vest. IGU 17 no.18:129-133 '62. (MIRA 15:10)  
(Sweden—Shipping)

ACC NO: AP6329646

(A)

SOURCE CODE: UR/0413/66/000/013/0098/0098

INVENTOR: Skrabelinskiy, N. V.; Kuptsova, N. I.; Kondrashova, Yu. D.; Fridlyand, V. I.; Bol'shikh, A. S.; Sergeyev, V. N.; Kokashinskaya, S. Z.

CLASS: None

TITLE: A machine for fatigue testing parts or material specimens. Class 42, No. 133490 [announced by the Central Scientific Research Institute of Technology and Machine Building (Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya)]

SYNOPSIS: Izobreteniya, promyshlennyye obratzyy, tovarnyye znaki, no. 13, 1966, 98

TOPIC WORDS: rotor blade, fatigue test, bend test, tensile test

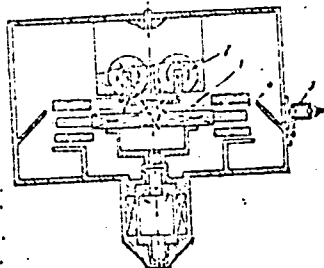
ABSTRACT: This Author's Certificate introduces a machine for fatigue testing parts or material specimens under the simultaneous effect of bending and tension at high temperatures in special media. Blades to be tested are mounted on a rotating disc located in a test chamber and subjected to oscillatory motion generated by an exciter. The unit is designed to produce axial flexural oscillations of the disc, and also for excitation over a broad frequency range from a few dozen to several thousand cycles per second. Design of the machine is simplified by using an electrodynamic exciter made with a short-circuited rotating coil, a stationary pickup (e. g. a ca-

UDC: 620.178.325.2.002.52

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ACC NAI AP0025646

pickoff pickup) and a microscope. The blades are mounted in sockets along the rim of the rotating disc at an angle to the plane of the disc. When the disc rotates, the blades are inclined through an additional angle corresponding to the amplitude of the oscillations generated in the disc.



1—rotating disc; 2—  
electrodynamic exciter;  
3—microscope; 4—blades

SUS CODE: 13, 11/ SUBM DATE: 13Jan64

Card 2/2



SERGEYEV, V.N.

Sea cargo passing through the major ports of Sweden. Vest.LGU  
18 no.6:83-92 '63. (MIRA 16:4)  
(Sweden)

WILSON, W. N.

Magnetic Resonance Formations in the Siberian Platform. Zap.  
Vses. min. obshch. nauch. obshch. 1965-1968 '63. (MIRA 17-9)

SERGEYEV, V.N.

Structural etching with hydrofluoric acid of some minerals of the oxide and silicate classes. Zap.Vses.min.-ob-va 92 no.1:66-73 '63.  
(MIRA 16:4)

1. Tomskiy politekhnicheskii institut, kafedra mineralogii i kristallografii.  
(Etching) (Hydrofluoric acid)

KONSTANTINOV, G.N.; KONSTANTINOVA, L.S.; SERGEYEV, V.O.

Methods for the conversion of a magnetic field in the upper  
discontinuity as revealed by a study made in the western part  
of the Siberian Platform. Trudy SNIIGGIMS no. 30:127-139 ' 64.  
(MIRA 19:1)

CONFIDENTIAL - SECURITY INFORMATION

1. Submitted Primary Log, 1965.

(MIRA 18:10)

85581

S/048/60/024/007/017/032/XX  
B019/B056

24.6720

AUTHORS: Grigor'yev, Ye. P., Sakharov, S. L., and Sergeev, V. O.

TITLE: The  $\gamma$ -Spectra of the Isotopes of the Lanthanum Fraction

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,  
Vol. 24, No. 7, pp. 839-840

TEXT: This paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which took place from January 19 to January 27, 1960 at Moscow. The measurements were carried out by means of a scintillation  $\gamma$ -spectrometer. The lanthanum fraction of rare earths obtained by irradiation of tantalum with protons was investigated. The authors were able to find a very intensive 470-kev  $\gamma$ -line with a half-life of 18 hours. This line may be ascribed to the  $\text{La}^{135}$ . By using the decay scheme set up by Mitchell et al. (Ref. 2), it was possible to determine the relative yield of  $\text{La}^{135}$  in the nuclear reaction. From the discussion of their own results and those obtained by other authors, the authors draw the conclusion that, if  $\text{La}^{133}$  (half-life 4 hours) exists at all, it does not exceed 10% of  $\text{La}^{132}$ . This

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The  $\gamma$ -Spectra of the Isotopes of the  
Lanthanum Fraction

S/048/60/024/007/017/032/XX  
B019/B056

opinion is confirmed by results obtained by Riddel (Ref. 6) and Cameron  
(Ref. 7), which are given in Table 1. Therefore, the largest fraction of  
 $\gamma$ -emission is ascribed to  $\text{La}^{132}$ . The yield ratio of  $\text{La}^{132}$  to  $\text{La}^{135}$  is given  
as 100 : 80. There are 1 figure, 1 table, and 8 references: 1 Soviet, 6 US.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo  
gos. universiteta im. A. A. Zhdanova (Scientific Research  
Institute of Physics of Leningrad State University imeni  
A. A. Zhdanov)

Card 2/2

46720  
AUTHORS:

GILGERTZ, Ye. P.; LARSON, O. T.; SHKIN, N. I.,  
SABUROV, S. L. and SERGEY, F. O.

The Determination of the Half-life of  $^{139}\text{La}$ , No. 160, Pt. 166  
and La 173

PERIODICAL: *Investitsiya Akademii nauk SSSR, Seriya Fizicheskaya*, 1960,  
Vol. 24, No. 7, pp. 841-844

65505

5/048/60/024/001/010/032/II  
1019/2096

NOTE: This paper was read at the 10th All-Union Conference on Radiat. Measurements, which took place from January 19 to January 21, 1960 at Leningrad. The isotopes investigated were obtained by the irradiation of the isotopes  $^{139}\text{La}$  and  $^{173}\text{La}$  in the synchrotron of the Obninsk Institute for Atomic Energy (IAE) of the Academy of Sciences of the USSR. A subsequent chemical and chromatographic separation was carried out in a half-life end-window counter was used, which was protected by a 28-cm-thick lead  $\text{Pb}$  - 139  $\pm$  10 days, which agrees with the data obtained by other Card 4/2

The determination of the half-life of  $^{139}\text{La}$  and  $^{173}\text{La}$   
No. 160, Pt. 166, and La 173  
5/048/60/024/001/019/030/II  
1019/2096

authors. For No. 160, a  $T_{1/2} = 4.76 \pm 0.10$  hours was determined. B. S. Dabizhev et al. obtained  $T_{1/2} = 5.3 \pm 0.2$  hours, and G. M. Gorodinskii et al. obtained 5 hours (Table 1), whereas Vilkins and Hils obtained  $4.6 \pm 0.1$  hours. In Table 2 the value of  $T_{1/2} = 7.74 \pm 0.08$  hours determined is given for No. 166. Gorodinskii obtained  $T_{1/2} = 9.8$  and Vilkins et al.  $T_{1/2} = 7.7 \pm 0.1$  hours. The half-life of  $^{173}\text{La}$  was determined by measurements with an end-window counter after separation of the lanthanum fraction. The authors obtained  $T_{1/2} = 480 \pm 30$  days. The values obtained by other authors: Alibekov 510 days; Vilkinson 500 days; Richard 480 days; Gorodinskii 200 days; R. A. Prokhorovskii et al. 150-200 days; V. Berman et al. 160 days. The three values showing considerable deviations were obtained at the Institute of Atomic Energy (IAE) of the Academy of Sciences of the USSR, the Institute of Physics and Technology at Leningrad. There are 3 figures, 5 tables, and 18 references to Soviet and 12 US. ASSOCIATION: *Fizicheskii Institut Akademii Nauk SSSR, Seriya Fizicheskaya*  
Inst. of Physics of Leningrad State University Inst.  
A. A. Zhidnev

Card 2/2



СЕРГЛЫЕВ, В. С.

24.1/20

SHKORIN, V. P., LARIONOV, O. V., KILITIN, M. E.,  
SHEKHIN, O. E. and SERGEYEV, V. O.

PHYSICAL: The  $\beta$ -Spectrum of the Isotopes of the Technetium Fraction  
Investive Akademi nauk SSSR. Seriya fizicheskaya, 1960,  
Vol. 24, No. 7, pp. 845-846

85786

8/19/60/024/001/019/032/12  
8019/3056

NOTE: This paper was read at the 10th All-Union Conference on Nuclear Spectroscopy, which took place from January 19 to January 27, 1960 at Moscow, in the symposium of the OIYAI, a T-Target was irradiated with 60Co- $\gamma$  rays, following which, Tantalum was separated and the radioactive Tantalum was investigated by means of an automatic relative  $\beta$ -spectrometer. According to the half-life of the  $\beta$ -lines, the T-Isotopes may be subdivided into two groups. There are some isotopes with a half-life  $T_{1/2}$  of roughly 8 hours, and others with  $T_{1/2} = 9$  hours. The energy and the relative intensities of the  $\beta$ -lines of those T-Isotopes shown in Table 1.

Card 1/2

E	55	115.5	216-10	270	350	500	1150	1700
I	100	10	2	2	0.5	0.1	0.3	

Comparison with data obtained by other authors, the authors draw the conclusion that in their fraction the isotopes Tc-176 (8 hours) and Tc-177 (11 hours) are present. In Table 2, the energies and the relative intensities of the  $\beta$ -lines of the Tc-Isotopes of a half-life of 8 hours are given.

These hard lines may possibly belong to a Tc-176-isotopy. From the data obtained here, the authors conclude that the mass difference between Tc-176 and Tc-177 is more than 3 Mev. There are 2 figures, 2 tables, and 1 reference. 1 hour-1-1/2 days and 6 BS-ASSOCIATION: Moscow-Leningradskyi fizicheskiy institut Leningradskogo gosudarstvennogo universiteta. In: A. A. Zhdanov (Glennville Research Institute of Physics of Leningrad State University Issue) A. A. Zhdanov

Card 2/2

GRIGOR'YEV, Ye. P.; PEREGUD, B. P.; SERGEYEV, V. O.; SKOPINA, V. I.

On  $Tu^{166}$  decay. Izv. AN SSSR. Ser. fiz. 16 no.12:1488-1491  
D '62. (MIRA 16:1)

1. Fizicheskiy institut Leningradskogo gosudarstvennogo uni-  
versiteta Fiziko-tekhnicheskogo instituta AN SSSR im. A. A.  
Zhdanova.

(Thulium—Decay)

GRIGOR'YEV, Ye. P.; NOVIKOV, G. S.; SERGEYEV, V. O.

On the genetic relation between the isomer states of  $\text{Ho}^{160}$ .  
Izv. AN SSSR. Ser. fiz. 16 no.12:1523-1524 D '62.  
(MIRA 16:1)

1. Nauchno-issledovatel'skiy fizicheskoy institut Leningradskogo  
gosudarstvennogo universiteta im. A. A. Zhdanova.

(Isomerism) (Holmium--Isotopes)

S/048/62/026/012/007/016  
B117/B186

AUTHORS: Grigor'yev, Ye. P., Peregud, B. P., Sergeyev, V. O., and Skopina, V. I.

TITLE: Decay of  $Tu^{166}$

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 12, 1962, 1488 - 1491

TEXT: A check was carried out on the divergent statements on  $Tu^{166}$  decay in papers by Harmatz (B. Harmatz, T. H. Handley, J. W. Mihelich, Phys. Rev., 123, 1758 (1961)) and Grigor'yev (Ye. P. Grigor'yev, K. Ya. Gromov, B. S. Dzhelepov, Zh. T. Zhelev, V. Zvol'ska, I. Zvol'skiy, Izv. AN SSSR. Ser. Fiz., 25, 1217 (1961)). The quantum characteristics of the upper levels of  $Tu^{166}$  were determined more accurately. Experiments using a double focusing  $\gamma$ -prism spectrometer and a  $\gamma$ -scintillation spectrometer confirmed as correct the results obtained by Grigor'yev et al. for the energies of the transitions and for the relative intensities of the conversion lines. The two high levels with energies of 2134 and 2161 keV are heavily occupied when  $Tu^{166}$  captures electrons; their  $\gamma$ -transitions both take place to the  
Card 1/2

Decay of  $Tu^{166}$

S/048/62/026/012/007/016  
B117/B186

same lower-lying level of  $Er^{166}$ . To determine their exact characteristics, the multipole orders of the  $\gamma$ -transitions with energies of 2054 and 2081 keV were calculated from the conversion coefficients  $\alpha_K$ . It was shown that agreement between theoretical and experimental values is possible only if both transitions, or at least the one with an energy of 2054 keV, have a multipole order of M2. Transitions with an energy of 2054 keV take place from the 2134 keV energy level to the  $2^+$  level of the first rotational band. The 2134 keV energy level was assumed to have odd parity and, most probably, a spin of 3. This paper was read to the 12th Annual Conference on Nuclear Spectroscopy held in Leningrad from January 26 to February 2, 1962. There are 3 figures and 2 tables. ✓

ASSOCIATION: Fizicheskiy institut Leningradskogo gos. universiteta (Physics Institute of the Leningrad State University); Fiziko-tekhnicheskiy institut Akademii nauk SSSR im. A. A. Zhdanova (Physicotechnical Institute of the Academy of Sciences USSR imeni A. A. Zhdanov)

Card 2/2

S/048/62/026/012/015/016  
B117/B102

AUTHORS: Grigor'yev, Ye. P., Novikov, G. S., and Sergeyev, V.O.

TITLE: Genetic relation between the isomeric states of Ho<sup>160</sup>

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,  
no. 12, 1962, 1523 - 1524

TEXT: In order to determine the genetic relation between the 28-min Ho<sup>160</sup> and the 4.7-hr Ho<sup>160</sup> - i.e. to prove that the decay of the long-lived isomer occurs via a state with the half-life 28 min -  $\delta$ -spectra of Ho<sup>160</sup> in the range of 500 - 900 keV were investigated using a  $\delta$ -scintillation spectrometer. It was shown that in the decay of Er<sup>160</sup> purified from Ho<sup>160</sup> the intensity of the 728-keV line increases in a different way from the intensity of the isomeric 60-keV transition and the transitions that occur in the Ho<sup>160\*</sup> isomer decay. Because of a comparative longevity of the Ho<sup>160</sup> ground state the intensity of the 728-keV line increases after the separation of Er from Ho at first slowly and then rapidly. If the isomers Ho<sup>160</sup> and Ho<sup>160\*</sup> are in equilibrium, the 728 keV-line can easily be distinguished

Card 1/3

S/048/62/026/012/015/016  
B117/B102

Genetic relation between ...

from harder transitions of the Compton background. The half-life of the  $\text{Ho}^{160}$  ground state was difficult to estimate from the data obtained. In spite of this it could be concluded, that the 720-kev transition does not occur immediately after the  $\beta$ -decay of the 4.7-hr isomer but after the decay of the 28-min isomer. This paper was presented at the 12th Annual Conference on Nuclear Spectroscopy in Leningrad from January 26 to February 2, 1962. There are 2 figures.

ASSOCIATION: Nauchno issledovatel'skiy fizicheskiy institut Leningradskogo gos. universiteta im. A. A. Zhdanova (Scientific Research Institute of Physics of the Leningrad State University imeni A. A. Zhdanov)

Card 2/3

DZHELEPCV, Boris Sergeevich; PEKER, Leon Kaufmanovich; SERGEYEV,  
Viktor Olegovich; KHOL'NOV, Yu.V., otv. red.; BARKOVSKIY,  
I.V., red.izd-va; SMIRNOVA, A.V., tekhn.red.

[Decay schemes of radioactive nuclei at  $A > 100$ ] Skhemy ras-  
pada radioaktivnykh inder  $A \geq 100$ . Moskva, Izd-vo AN SSSR,  
1963. 1958.p. (MIRA 16:11)  
(Radioactive substances--Decay)



SERGEYEV, V.O.

Convergence of Galerkin's method for ordinary differential  
equations. Metod. vych. no.2:39-44 '63.

(MIRA 18:11)

GRIGOR'YEV, Ye.F.; YEGOROV, Yu.S.; ZOLOTAVIN, A.V.; SERGEYEV, V.O.; SOVTSOV,  
M.I.

On Mo<sup>90</sup> decay. Izv. AN SSSR. Ser. fiz. 29 no. 5: 721-728 My '65.  
(MIRA 18:5)

L 31404-66 EWT(m)

ACC NR: AP6022576

SOURCE CODE: UR/0048/66/030/003/0530/0553

57  
50  
B

AUTHOR: Avotina, M. P.; Grigoryev, Ye. P.; Dzhelepov, B. S.; Zolotavin, A. V.;  
Sergeyev, V. O.

ORG: Scientific Research Physics Institute, Leningrad State University (Nauchno-  
issledovatel'skiy fizicheskiiy institut Leningradskogo gosudarstvennogo Universiteta)

TITLE: Decay of Ho sup 160 <sup>19</sup> This paper was presented at the 16th Annual Conference  
on Nuclear Spectroscopy and Nuclear Structure held in Moscow 26 Jan-3 Feb 1966

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 3, 1966, 530-553

TOPIC TAGS: spectrometer, radioactive decay, nuclear physics conference, conversion  
electron spectrum, beta spectroscopy, particle accelerator target, synchrocyclotron,  
rare earth element, chromatography,

ABSTRACT: This is partly a review and partly an experimental  
paper reporting a continuation of work on the decay of  $Er^{160} +$   
 $Ho^{160*} + Ho^{160}$  under improved conditions for studying the conver-  
sion electron spectrum. The study was carried out with two  
modernized, high-resolution, double focussing beta spectrometers:  
one with an equilibrium orbit of 140 mm; and the other, 500 mm.  
The  $Ho^{160*}$  and  $Ho^{160}$  samples were obtained from the isotope  $Er^{160}$ .  
A tantalum target was irradiated by 660 mev protons for 1.5 to  
8 hrs. in a synchrocyclotron, and the rare earth group was sepa-  
rated chemically and then fractioned in a chromatographic column.

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ACC NR: AP6022576

7

Extensive information was gathered on the conversion electron spectrum of  $Er^{160} + Ho^{160}$  and is presented in a 3-page table which shows transition energies, conversion lines,  $I_e$ , multipolarity of the gamma transition, conversion coefficient, gamma ray intensity, total intensity of the transition, and position of the transition in the decay scheme. Detailed data is also given on many  $Dy^{160}$  levels and transitions, and three rotational bands are established. Experimental results are compared with theory and the results of other authors. The multipolarity and intensity of the isomeric transition of  $Ho^{160}$  is discussed, as well as the quantum characteristics of its levels, positron decay, and electron capture. The authors thank K. Ya. Gromov and Zh. T. Zhelev for their interest and assistance, L. K. Peker and V. G. Solov'ev for discussing the results, N. A. Lebedev for the chemical isolation of  $Er^{sup} 160$ , and G. A. Mironov and M. I. Covysov for help with the measurements. Orig. art. has: 8 figures and 10 tables. [JPRS]

SUB CODE: 20, 18/ SUBM DATE: none/ ORIG REF: 018/ OTH REF: 012

Card 2/2 CC

SERGEYEV, V.P.

PRIKHOT'KO, A.F.

24(7) | 3 PHASE I BOOK EXPLOITATION SOV/1365

L'vov. Universitet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii. t. 1: Molekulyarnaya spektroskopiya (Papers of the 10th All-Union Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy) [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies printed. (Series: Itsi: Pizychnyy zbirnyk, vvp. 5/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii. Ed.: Jazer, S.L.; Tech. Ed.: Saranyuk, T.V.; Editorial Board: Landsterg, G.S., Academician (Resp. Ed., Deceased), Neporent, B.S., Doctor of Physical and Mathematical Sciences, Pabelinskiy, I.L., Doctor of Physical and Mathematical Sciences, Pabrizhskiy, V.A., Doctor of Physical and Mathematical Sciences, Kornitskiy, V.G., Candidate of Technical Sciences, Rayskiy, S.M., Candidate of Physical and Mathematical Sciences, Klimovskiy, L.K., Candidate of Physical and Mathematical Sciences, Milyanchuk, V.S., Candidate of Physical and Mathematical Sciences, and Glauberman, A. Ye., Candidate of Physical and Mathematical Sciences.

Card 1/30

Postovskiy, I. Ya., L.F. Trefilova, Yu. N. Sheynker, and S.G. Bogomolov. Coplanarity of Phenol Nuclei in Diphenyl Derivatives	388
Yegorov, Yu. P., and Ye. A. Chernyshev. Spectra of Silicoorganic Compounds With an Aromatic Ring	390
Gerasimov, F.M., I.A. Tel'tevskiy, S.V. Mezmelov, and V.P. Sergeyev. Bimolletes in the Range From 2.5 to 600 Microns	394
Kiselev, B.A. Double Monochromator With Diffraction Gratings	397
Yaroslavskiy, M.G., B.A. Zheludov, and A. Ye. Stansovich. Methods and Apparatus for Registration of Long-wave Infrared Spectra	399

Card 25/30

15-57-10-15002  
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,  
p 281 (USSR)

AUTHOR: Sergeyev, V. P.

TITLE: The Use of Automatic Alternating-Current With Choke  
Coils for Mine Hoisting Installations in Inclined  
Workings (Primeneniye avtomatizirovannogo elektroprivoda  
peremennogo toka s drosselyami dlya shakhtykh pod'yem-  
nykh ustanovok po naklonnym vyrabotkam)

PERIODICAL: V sb.: Avtomatizatsiya v ugol'noy promyshlennosti.  
Moscow, Ugletekhizdat, 1956, pp 142-163

ABSTRACT: The author considers the problems of remotely controlled  
automation of endless cable haulage winches and terminal-  
haulage winches along inclined workings by using a  
saturation choke. He describes the working of the  
electric drive under these conditions. The motor is  
started by means of a combination active and inductive  
resistance in the rotor circuit. The design proposed

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15-57-10-15002

The Use of Automatic Alternating Current With Choke Coils (Cont.)

rated speed; a speed-indicating generator measured the actual speed. The difference in current, proportional to the difference in speed, is transmitted to the magnetic booster that activates the choke coil. The author also shows the results of tests made on the system with the choke coil in the starter. These results are similar to the results with the choke in the rotor. Also discussed is the sensitive element of the design of regulating with spark-proof parameters. The construction of the single-phase choke used in the system is described.

V. K. Yasnyy

Card 3/3

SERGEY V. V. P.

forms  
V. P.

EXCERPTA MEDICA Sec 13 Vol 13/5 Dermatology May 59

1293. TRIAL OF OXYGEN THERAPY AS A SUPPLEMENTARY METHOD OF TREATMENT OF SKIN DISEASES (Russian text) - Sergeev V. P. - NAUCH. ZAP. GORK. INST. DERM. I VENER. KAF. KOZHNO-VENER. BOLEZ. GGMI 1956, 7 (142-148)

S. c. administration of oxygen was employed in addition to other general therapeutic measures in 65 patients with various skin disorders. A course consisted on the average of 13 insufflations of 200 to 500 ml. oxygen per dose. The patients tolerated this treatment well. The best results were obtained in cases of acute eczema, toxicoderma, neurodermatitis etc., and less satisfactory results in chronic eczema and lupus erythematosus. It is pointed out that s. c. oxygen therapy should be associated with other general therapeutic measures. (S)



SERGEYEV, V.P.; PLETNEV, B.D.

Methodology of the organization of health education in the skin  
and venereology dispensary. Zdrav.Ros.Feder. 3 no.9:23-26  
S '59. (MIRA 12:11)

1. Iz Chuvashskogo respublikanskogo kozhno-venerologicheskogo  
dispansera (glavnyy vrach V.P.Sergeyev).  
(CHUVASHIA--PUBLIC HEALTH)

SERGEYEV, V.P.; PLETNEV, B.D.; LAPTEKOV, K.T.

Individual packet for first aid in minor skin injuries. Vrach.delo  
no.11:1211 N '59. (MIRA 13:4)

1. Cheboksarskiy respublikanskiy kozhno-venerologicheskiy dispanser  
Ministerstva zdravookhraneniya Chuvashskoy ASSR.  
(FIRST AID IN ILLNESS AND INJURY)

SERGEYEV, V.P.

Epidemiology of favus in the Chuvash A.S.S.R. Vest.derm. i ven.  
34 no.8:39-40 '60. (MIRA 13:11)

1. Iz Chuvashskogo respublikanskogo kozhno-venerologicheskogo  
dispansera (glavnyy vrach V.P. Sergeyev; rukovoditel' raboty --  
zav. mikologicheskim otdelom Tsentral'nogo nauchno-issledovatel'-  
skogo kozhno-venerologicheskogo instituta prof. A.M. Ariyevich).  
(CHUVASHIA--FAVUS)

SERGEYEV, V. P.; PLETNEV, B. D.

Diagnostic problems in microsporosis caused by *Microsporium ferrugineum*.  
Vest. dermat. i ven. 34 no.1:28-29 Ja '60. (MIRA 14:12)

1. Iz Cheboksarskogo respublikanskogo kozhno-venerologicheskogo  
dispansera (glavnyy vrach V. P. Sergeyev).

(MICROSPORUM)

OLEYNIK, I.P., kand. ekon. nauk, nauchn. sotr.; VOINOV, A.M., nauchn. sotr.; SEMENOV, I.I., nauchn. sotr.; PLAKSIN, S.V., nauchn. sotr.; KACHALOV, I.P., nauchn. sotr.; SEMENOVA, L.S., nauchn. sotr.; STOROZHEV, I.V., nauchn. sotr.; GERTSOVICH, G.B., nauchn. sotr.; SERGEYEV, V.P., nauchn. sotr.; ALIKHODZHICH, A., nauchn. sotr.; LISOV, V.Ye., red.; NIKOLAYEV, D.N., red.; PONOMAREVA, A.A., tekhn. red.

[International socialist division of labor] Sotsialisticheskoe mezhdunarodnoe razdelenie truda. Pod red. I.P.Oleinika. Moskva, Izd-vo ekon. lit-ry, 1961. 350 p. (MIRA 14:11)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy. 2. Institut ekonomiki mirovoy sotsialisticheskoy sistemy AN SSSR (for all except Lisov, Nikolayev, Ponomareva). (Communist countries--Division of labor)

SERGEYEV, V.P.; TARNOVSKIY, O.I.; MITROFANOVA, N.M.; SHMELEV, N.P.;  
SHABUNINA, V.I.; SKVORTSOVA, A.I.; VASIL'TSOV, V.D.;  
KRASNOGLAZOV, B.P.; BELYAYEV, Yu.N.; KURAKIN, V.A.; YUMIN,  
M.N.; SERGEYEV, V.P.; ZOTOVA, N.A.; MATVIYEVSKAYA, E.D.;  
STUPOV, A.D., otv. red.; LISOV, V.Ye., red. izd-va;  
NOVICHKOVA, N.D., tekhn. red.

[Economic cooperation and mutual aid in socialist countries]Eko-  
nomicheskoe sotrudnichestvo i vzaimopomoshch' sotsialisticheskikh  
stran. Moskva, Izd-vo Akad. nauk SSSR, 1962. 272 p.

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisti-  
cheskoy sistemy. (MIRA 16:2)

(Communist countries--Foreign economic relations)  
(Communist countries--Industries)

SOROKIN , G.M.; OLEYNIK, I.P., doktor ekon. nauk; RYABUSHKIN, T.V., doktor ekon. nauk; DUDINSKIY, I.V., kand. ekon. nauk; MIROSHNICHENKO, B.P., kand. ekon.nauk; SERGEYEV, V.P., kand. ekon. nauk; TARNOVSKIY, O.I., kand. ekon. nauk; STOROZHEV, V.I., kand. ist. nauk; KONOVALOV, Ye.A., kand. ekon. nauk; GERTSOVICH, G.B., kand. ekon. nauk; POPOV, K.I., kand. ekon. nauk, red.; ZEVIN, L.Z., red.; NIKOLAYEV, D.N., red.; PAK, G.V., red.; GERASIMOVA, Ye.S., tekhn. red.

[The building of communism in the U.S.S.R. and cooperation among the socialist countries]Stroitel'stvo kommunizma v SSSR i sotrudnichestvo sotsialisticheskikh stran. Pod obshehei red. G.M.Sorokina. Moskva, Ekonomizdat, 1962. 334 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy. 2. Chlen-korrespondent Akademii nauk SSSR (for Sorokin).

(Communist countries--Foreign economic relations)

L 5421-66 EWT(1) IJP(c)

ACCESSION NR: AP5019762

UR/0051/65/019/002/0270/0278

535.421:535.417

AUTHOR: <sup>44.55</sup> Gerasimov, F. M.; <sup>44.55</sup> Sergeev, V. P.; <sup>44.55</sup> Tel'tevskiy, I. A.; <sup>38</sup> Sergeev, V. V.; <sup>B</sup> Marichev, B. V. <sup>44.55</sup>

TITLE: The use of moire interference fringes to control the ruling of diffraction gratings

SOURCE: Optika i spektroskopiya, v. 19, no. 2, 1965, 270-278

TOPIC TAGS: diffraction grating, light interference, light diffraction

ABSTRACT: A method is described for the control of a ruling engine, based on moire fringes which are formed by a system consisting of a transparent and a reflecting diffraction grating. The control method is claimed to be simpler than that of G. R. Harrison and co-workers (J. Opt. Soc. Am. v. 49, 205, 1959 and earlier papers; G. V. Stroke, ibid. v. 51, 1321, 1961), who used a Michelson interferometer. The equipment is described and the properties and accuracy of the method are examined. The mechanical part of the equipment does not differ markedly from a standard ruling engine and the optical system is illustrated in Fig. 1 of the Enclosure. About 100 gratings with 200, 300, 800, 1200, and 2400 lines/mm were prepared with an experimental ruling engine, and their qualities were on the whole superior to

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L 5421-66

ACCESSION NR: AP5019762

those of gratings prepared with mechanical ruling engines. Rowland ghosts were almost completely eliminated. Orig. art. has: 6 figures and 2 formulas.

ASSOCIATION: none

SUBMITTED: 21May64

ENCL: 01

SUB CODE: OP

NR REF SOV: 002

OTHER: 005

Card 2/3

L 5421-66

ACCESSION NR: AP5019762

ENCLOSURE: 01

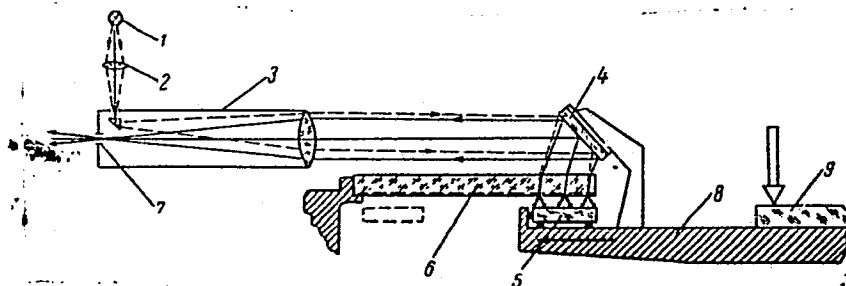


Fig. 1. Diagram of the optical part of the apparatus

- 1 - Incandescent lamp, 2 - condenser, 3 - collimator,
- 4 - swinging mirror, 5,6 - gratings, 7 - exit slit.
- 8 - ruling carriage, 9 - ruled grating

*Beh*

Card 3/3

BOCHVAR, A. A., KUZNETSOVA, V. G., and SERGEYEV, V. S.

" -Uranium Self-Diffusion

paper to be presented at 2nd UN Intl.' Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sept 58.

*publ. in -*

*izvestiya sovetskikh uchenykh; yadernoye goruycheye i reaktoroye metally.*  
(Reports of Soviet Scientists; Nuclear Fuel and Reactor Metals) Moscow,  
Atomizdat, 1959. 670 p. (Series: *Izvestiya*; Trudy, vol. 3, 8,000 copies  
printed.

**COVERAGE:** This is volume 3 of a 6-volume set of reports on atomic energy,  
presented by Soviet scientists at the Second International Conference on the  
Peaceful Uses of Atomic Energy, held in Geneva from September 1 to 13, 1958.  
Volume 3 consists of two parts. The first part, edited by A.I. Zubov, is  
devoted to geology, prospecting, concentration and processing of nuclear  
source material. The second part, edited by G.L. Zverev, includes 27 reports  
on metallurgy, metallography, processing technology of nuclear fuels and  
reactor metals, and neutron irradiation effects on metals. The titles of the  
individual papers in most cases correspond word for word with those in the  
official English language edition on the Conference proceedings.

SERGEYEV, V.S., tehnik

In the repair column of communication workers. Avtom.telem.  
i aviaz' 4 no.8:31-32 Ag '60. (MIRA 13:8)

1. Tartuskaya distantsiya signalizatsii i svyazi Estonskoy  
dorogi.

(Telecommunication--Employees)  
(Socialist competition)

SERGEYEV, V.S.

Preparation of samples for analysis by means of homogenization.  
Vop. pit. 20 no.4:82 JI-Ag '61. (MIRA 14:7)  
(HOMOGENIZATION)

RADCHENKO, M.G.; ZABELINA, Z.V.; SERGEYEV, V.S.

Bacteriological indices for cold horses' oeuvres. Vop.  
pit. 21 no.2:86-87 Mr-Apr '62. (MIRA 15:3)

1. Iz Nauchno-issledovatel'skoy i Tsentral'noy sanitarno-  
pishchevoy laboratorii Upravleniya obshchestvennogo pitaniya,  
Leningrad.

(FOOD--MICROBIOLOGY)

SERGEYEV, V.S.; LIVSHITS, M.M.; KARNACHEVA, Z.G.

Quantitative determination of proteins in dinner foods.  
Vop. pit. 21 no.2:89 Mr-Apr '62. (MIRA 15:3)

1. Iz Nauchno-issledovatel'skoy i Tsentral'noy sanitarno-pishchevoy laboratorii Upravleniya obshchestvennogo pitaniya, Leningrad.

(FOOD—ANALYSIS)  
(PROTEINS)

LAKEDEMONSKIY, A.V.; PROSYANIK, G.V.; ANOPOVA, A.I.; SERGEYEV, V.S.

Casting fluid convert parts. Lit. proizv. no. 1:18-20 Ja '57.  
(Automobiles--Transmission devices) (Founding) (MIRA 10:3)



LOZHICHEVSKIY, Aleksey Simonovich; SERGEYEV, V.S., inzh., retsenzent;  
SIROFIN, A.I., inzh., red. izd-va; GERASIMOVA, Ye.S., tekhn. red.;  
UVAROVA, A.F., tekhn. red.

[Metal patterns; design and construction] Metallicheskie modeli;  
proektirovanie i izgotovlenie. Izd.2., dop. Moskva, Gos. nauchno-  
tekhn. izd-vo mashinostroit. lit-ry, 1958. 349 p. (MIRA 11:8)  
(Patternmaking)

ALEKSEYEV, S.A.; BALABIN, V.V.; BARBASHIN, N.N.; GORSHKOV, A.A.;  
ZHAROV, N.T.; MARIYENBAKH, L.M.; RUETSOV, N.N., doktor tekhn.  
nauk, prof.[deceased]; SERGEYEV, V.S.; SOSNENKO, M.N.; FROLOV,  
V.V.; KONSTANTINOV, L.S., kand. tekhn. nauk, red.; CHERNYAK,  
O.V., red. izd-va; UVAROVA, A.F., tekhn. red.; TIKHANOV, A.Ya.,  
tekhn. red.

[Fondryman's handbook; general information on founding]Spravochnik  
liteishchika; obshchie svedeniia po lit'iu. [By]S.A.Alekseyev  
i dr. Pod obshchei red. N.N.Rubtsova. Moskva, Mashgiz, 1962.  
524 p. (MIRA 16:1)

(Founding--Handbooks, manuals, etc.)

... ..

... .. in the Estonian S.S.R. and prospects for its develop-  
ment. Khok. tekhn. 43 no.4:5-6 31-Ag '65. (MIRA 18:9)

1. Pervyiy zamestitel' nachal'nika Upravleniya pishchevoy promyshlen-  
nosti Soveta narodnogo khozyaystva Estonskoy SSR (for Strizh).
2. Glavnyy spetsialist Gosudarstvennogo komiteta Soveta Ministrov  
Estonskoy SSR po koordinatsii nauchno-issledovatel'skikh rabot.

L 3466-66 EWT(m)/EPF(n)-2/T/EWP(t)/EMP(b)/EWA(c) IJP(c) ES/JD/JG/WW

ACCESSION NR: AP5016929

UR/0089/65/018/006/0601/0608  
621.039.542.32

AUTHORS: Bochvar, A. A.; Kuznetsova, V. G.; Sergeyev, V. S.; Butra, F. P.

47  
B

TITLE: Self diffusion in the alpha and beta phases of uranium

SOURCE: Atomnaya energiya, v. 18, no. 6, 1965, 601-608

TOPIC TAGS: metal diffusion, uranium, metal phase system, activation energy

ABSTRACT: This is paper no. 333 presented by the SSSR at the Third Geneva Conference in 1964. The authors investigated by an autoradiography method the dependence of the rate of self-diffusion on the crystallographic direction in the two low-temperature phases of uranium. Earlier data on the self-diffusion in these phases are contradictory. Apparatus was developed in which the self-diffusion coefficient was calculated from the rate of change of the  $\alpha$  activity on the surface of the sample during the course of annealing, as well

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L 3466-66

ACCESSION NR: AP5016929

as by autoradiography of the surface of the sample. The investigations were made on single crystals, polycrystalline samples with large perfect grains, and polycrystalline samples with imperfect grains. The test procedure and the method of calculating the self-diffusion coefficients from the change of  $\alpha$  activity and from the autoradiograms are described. The results for  $\alpha$ -uranium are listed in Table 1 of the Enclosure. The results for  $\beta$ -uranium are similar to those for  $\alpha$ -uranium, but the experimental conditions did not make it possible to establish the directions with the maximum and minimum self diffusion coefficients. The coefficient obtained for the temperature range 700 --750C from the variation of the  $\alpha$  activity lies in the range (2--6)  $\times 10^{-11}$  cm<sup>2</sup> sec. The results demonstrate convincingly the presence of anisotropy of self-diffusion in the  $\alpha$  and  $\beta$  phases of uranium. Orig. art. has: 7 figures, 4 formulas, and 1 table.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 01

SUB CODE: NP, MM

NR REF SOV: 001

OTHER: 010

Card 2/3

L 3466-66

ACCESSION NR: AP5016929

ENCLOSURE: 01

Table 1. Values of the self-diffusion coefficients in different crystallographic directions in alpha-uranium.

Grain number	Crystallogr. direction	Self diffusion coeff. cm <sup>2</sup> /sec
2	[010]	$\leq 10^{-14}$
8	[010]	$\leq 10^{-14}$
1	[021]	$6.3 \cdot 10^{-14}$
5	[210]	$6.4 \cdot 10^{-14}$
7	[130]	$10^{-13}$
6	[153]	$1.6 \cdot 10^{-13}$
4	[111]	$1.8 \cdot 10^{-13}$
3	[001]	$2.1 \cdot 10^{-13}$

Card. 3/3

DP

SERGEYEV, V.V.

Fresh-water pelecypods in the Samara coal basin. Trudy Lab.geol.  
ugl. no.9:253-277 '59. (MIRA 13:4)  
(Samara Basin--Lamellibranchiata, Fossil)

USSR/Pharmacology, Toxicology. Chemotherapeutical Preparations

V-7

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 23467

Author : Sergeyev, V.V.  
Inst : Institute for Tuberculosis Academy of Medical Sciences USSR  
Title : On the Therapeutic Resistance of Tubercular Bacteria, Excreted with the Sputum and From Various Pulmonary Areas of Tubercular Patients.

Orig Pub : Tr. In-ta tuberkuleza Akad. med. nauk SSSR, 1956, 8, 39-47

Abstract : The therapeutic resistance of 65 strains of tubercular bacteria (TB), excreted from 72 pulmonary areas in 17 patients, (surgical and section material) was studied. The resistance of TB to streptomycin, phthivazid and paraaminosalicylic acid was determined by a deep placing of the cultures obtained on a synthetic medium containing various concentrations of the antibacterial drug. In the study of resistance of TB from various pulmonary sections, it was found that various degrees of resistance were shown more often to streptomycin, rarely - to phthivazid, very rarely to paraaminosalicylic acid. The resistance of TB, excreted from the inner wall of the cavern

Card : 1/2



USSR/Pharmacology, Toxicology. Chemotherapeutical Preparations

V-7

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 23467

and from the sputum, was in the majority of cases the same with reference to all the three drugs. A higher degree of TB resistance was found in cases, where processes of necrosis and fibrosis were expressed and in incapsulated centers as compared to TB from an area of a fresh infection. The resistance of TB from the contents of a cavern with solid fibrous walls was considerably higher than the resistance of TB from the contents of a thin-walled cavern. Some culture bacteria may as a result of the therapy acquire a different resistance to chemiotherapeutical preparations.

Card : 2/2

AUTHOR: Sergeyev, V. V. SOV/20-120-5-48/67

TITLE: On the Age of the Karaganda Series of the Karaganda Basin  
(O vozraste karagandinskoy svity Karagandinskogo basseyna)

PERIODICAL: Doklady Akademii nauk SSSR, Vol. 120, Nr 5,  
pp. 1103 - 1105 (USSR)

ABSTRACT: The opinions of scientists as to this problem diverge: the mentioned series is classified as Visean of the Lower Carboniferous time (Refs 2,3,6,7) or as Namurian of the Middle Carboniferous (Refs 1,5 and others). There are only weak proofs for both assumptions. The Lamellibranchiata of fresh water cited by the authors are represented only by a small number of known species. A short survey of facts known about fresh water Pelecypoda and Lamellibranchiata (Refs 1,3) is given. The fresh water Lamellibranchiata discussed in this article were collected from boreholes of the mentioned series during a systematic processing of the cores. The fauna is enumerated according to the individual zones of the series and 6 new species (Anthraconauta amotus sp.n., A. samarskiensis sp.n., A. dgilandensis sp.n., A. Butovi sp.n., A. inaratus sp.n. and A. orbiculata sp.n.) are found besides numerous already known species. The appearance

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On the Age of the Karaganda Series of the Karaganda Basin

SOV/20-120-5-48/67

and disappearance of individual species is brought into connection with the series. Thus, the fresh water fauna of the Karaganda series of the ~~Sauarskoye~~ deposit differs only little from the Middle Carboniferous deposits of the Donets basin (Donbass) and of the Western Europe (Zapadnaya Yevropa). At both places Pelecypoda start developing in the Namurian and reach their full development at the end of this period. At the end of the Middle Carboniferous time the number of their species is gradually reduced and becomes less varied. There are 11 references, 0 of which are Soviet.

ASSOCIATION: Tsentral'no-Kazakhstanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedr Kaz SSR (Geological Administration of Central Kazakhstan of the Ministry of Geology and Protection of Mineral Resources of the Kazakh SSR)

PRESENTED: March 1, 1958, by D.V. Nalivkin, Member, Academy of Sciences, USSR

Card 2/3

On the Age of the Karaganda Series of the Karaganda  
Basin

SOV/20-120-5-48/67

1. Geological time--Determination

1. Geological time--Determination

Card 3/3

SERGEYEV, V.V.

Using UZTM drilling rigs in hoisting operations. Razved. i  
okh.nedr 25 no.11:34-36 N '59. (MIRA 13:5)

1. Glavgeologiya RSFSR.  
(Boring machinery) (Hoisting machinery)

BORIS, V. V., HOLOV, V. Ya., KONKOV, E. A., BONDARENKO, O. A., CHERNOMIR, V. Y. 37  
and UCHENOV, G. N.

"Single-Phase Superheat Experimental Set-Up at the First Atomic Power  
Station Reactor."

report presented at the IAEA Symposium on Power Reactor Experiments in Vienna  
Austria, 23-27 Oct 1961.

(report presented by I. I. Bondarenko)

STEPANYAN, E.S., kand.med. nauk; SERGEYEV, V.V., kand.med.nauk

Drug resistance of Mycobacterium tuberculosis in cycloserine  
treatment of pulmonary tuberculosis. Probl. tub. no.8:84-87'62.  
(MIRA 16:9)

1. Iz Tsentral'nogo instituta tuberkuleza Ministerstva zdavo-  
okhraneniya SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof.  
N.A.Shmelev).

(MYCOBACTERIUM TUBERCULOSIS)  
(ISOKAZOLIDINONE) (BACTERIA, EFFECT OF DRUGS ON)

PUGACHEV, A.N.; SERCEYEV, V.V.

The SKVD-6 double-disk sowing apparatus for corn planters.  
Trakt. i sel'khoz mash. 33 no.4:32-33 Ap '63. (MIRA 16:10)

1. Tsentral'naya mashinoispytatel'naya stantsiya.  
(Planters (Agricultural machinery))  
(Corn (Maize))



CHUVIN, V.P.; KULIKOV, O.T., inzh.; LADIN, M.N., inzh.; LATSKIY, V.I., inzh.;  
ZIMIN, V.A., inzh.; LEVCHENKO, K.P., inzh.; LEVIN, S.S., inzh.;  
SERGEYEV, V.V., inzh.

"Ural-61" boring machine. Gor.zhur. no.2:53-55 F '64.  
(MIRA 17:4)

1. Glavnyy instruktor Magnitogorskogo zavoda gornogo oborudovaniya  
(for Chuvina). 2. Nauchno-issledovatel'skiy i proyektno-  
konstruktorskiy institut gornogo i obogatitel'nogo oborudovaniya,  
Sverdlovsk (for Latskiy, Zimin, Levchenko, Levin, Sergeyev).

SERGEYEV, V.V.

All-Union  
Aluminum-Magnesium  
Inst.

Silica subchloride. P. F. Antipin and V. V. Sergeev. *Zhur. Priklad. Khim.* 27, 784-8 (1954).—To det. the conditions of formation of  $\text{SiCl}_2$  and some of its properties,  $\text{Cl}_2$  was passed over  $\text{Si}$  in a quartz tube maintained at different temps. All of the  $\text{Cl}_2$  reacted at the entrance end of the tube so that only  $\text{SiCl}_2$  passed on to the high-temp. zone of the reactor; the quartz condensers placed at the exit end of the tube were clean at the lower temps. and covered with elemental  $\text{Si}$  at the higher temps.; this indicates that the product formed ( $\text{SiCl}_2$ ) decompd. The mol. ratio  $\text{Cl}_2/\text{Si}$  in the gas phase plotted as a function of the temp. gave the following values for the ratio at the temps. 1173, 1223, 1273, 1373, 1473, 1573, and 1673°K.: 4, 4, 3.95, 3.75, 3.18, 2.35, and 2.105, resp. The calcd. values of the equil. const. for the reaction  $\text{SiCl}_2 + \text{Si} \rightleftharpoons 2\text{SiCl}$  were 0.0257, 0.1428, 0.695, 4.72, and 18 at 1273, 1373, 1473, 1573, and 1673°K., resp. For the corresponding temps. the free energies of the reaction were calcd. as +18.7, +11.0, +3.52, 3.6, and -10.7; the free energies of formation from the elements of  $\text{SiCl}_2$  were then (by difference) -42.39, -44.7, -46.84, -48.8, and -50.7, resp. The increase in stability with temp. corresponds to the same effect with similar compds.:  $\text{CO}$ ,  $\text{SiO}$ , and  $\text{AlCl}$ . I. Bencowitz

SERGEYEV, V.V.

Thermodynamics of the reaction of titanium tetrachloride with  
various metals. TSvet.met. 29 no.11:63-69 N '56. (MLRA 10:1)

1. Vsesoyuznyy alyuminiyevy-magniyevyy institut.  
(Thermodynamics) (Titanium chlorides)

SERGEYEV, V. V.

<sup>A</sup>  
Protecting vacuum pumps. V. V. Sergeyev and S. M. Borisov. U.S.S.R. 109,163, Dec. 25, 1957. Traps charged with MgCl<sub>2</sub> and Mg shavings are placed between the separator retort and the vacuum pump to protect the latter from water and acid vapors in the treatment of Ti sponge.  
M. Hosh.

//

gk

4

SOV/137-58-9-18798

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 92 (USSR)

AUTHORS: Strel'ts, Kh.L., Voynitskiy, A.I., Ivanov, A.I., Petrov, V.I.,  
Sergeyev, V.V., Forsblom, G.V.

TITLE: Studies in the Metallurgy of Titanium (Raboty v oblasti metal-  
lurgii titana)

PERIODICAL: V sb.: Legkiye metally. Nr 4. Leningrad, 1957, pp 114-120

ABSTRACT: A review of studies of titanium metallurgy in the USSR com-  
prising the production of anhydrous  $TiCl_4$ , the development of  
processes and equipment for reduction of  $TiCl_4$  by Mg and Na,  
the purification of Ti sponge, the electrolysis of Ti and  $TiO_2$   
chlorides, the electrolytic refining of Ti, etc. The studies and  
investigations performed have made it possible to organize  
large-scale industrial extraction of Ti in the USSR.

Ye.Z.

1. Metallurgy--USSR 2. Titanium--Study and teaching

Card 1/1

SERGEYEV, V.V.; KACHANOVSKAYA, I.S.

Treatment of the reaction pulp for production of spongy titanium.  
Biul. TSIIN tsvet. met. no.4:20-23 '58. (MIRA 11:5)  
(Titanium)

S/598/61/000/006/006/034  
D245/D303

AUTHORS: Sergeyev, V.V., Golov, A.G., Kushkin, B.N., and Sokolon, I.I.

TITLE: Separation of drilled reaction mass

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i yego splayv. no. 6, 1961. Metallotermya i elektrokhimiya titana, 38 - 40

TEXT: The authors studied the separation of Ti sponge from the reaction mass by drilling methods which they consider to have the following advantages: Equally good quality of Ti sponge, less contamination of the sponge with Fe, economy in labor and ease of mechanization. The main drawback of the drilling method is the need to carry out the operations in a room with a dry atmosphere and the criteria of humidity control for this purpose are specified as a maximum air humidity of 0.1 - 0.2 g/cubic meter and an air consumption of 700 - 1000 nm<sup>3</sup>/hour. There are 1 figure and 2 tables.

Card 1/1

ZAYKOV, M.A.; TSELUYKOV, V.S.; KAMINSKIY, D.E.; DABOCHKIN, N.V.; IAR'KINA,  
P.G.; MESHCHERYAKOV, P.A.; Primalni uchastiye: PERMYAKOV, V.M.;  
MERYUKOV, V.N.; PRONOP'YEV, KAPITANOV, M.F.; MARAMYGIN, G.F.;  
ZHURAVLEV, M.A.; MARININ, P.G.; NASIRUDIN, A.S.; KANCHEVSKIY, I.V.;  
FEIYAVSEIY, M.A.; SERGEYEV, V.V.; CHVANOV, L.K.; ROBYLEV, V.K.;  
KUCHKO, I.I.; MIRENSKIY, M.L.

Pressure of the metal on rolls in rolling carbon and alloyed steels  
on a three-high billet mill. Izv. vys. ucheb. zav.: chern. met. 4  
no.8:78-83 '61. (MIRA 14:9)

1. Sibirskiy metallurgicheskiy institut.  
(Rolling mills)



SERGEYEV, Vasil'y Vasil'yevich; PETROVA, Ye., ved. red.; VORONOVA, V.V.,  
tekh. red.

[Handbook on assembling casing pipes] Spravochnik po kompletovaniu  
obsadnykh kolonn. Moskva, Gostoptekhizdat, 1962. 146 p.  
(MIRA 15:7)

(Oil well casing)

SMIRNOV, N.A., prof.; DAVIDSON, M.G.; PORADNYA, A.I.; STABNIKOV,  
V.N.; VEBER, M.A.; ZHADOVICH, V.K.; KRUPSKIY, A.S. [deceased];  
MELAMEDOV, N.K.; SERGEYEV, V.V.: Primalni uchastiye:  
AMMOSEV, N.G., inzh.; AKIMOVA, L.D., kand. tekhn. nauk,  
dots.; FILIPPOV, N.A., inzh., nauchn. red.; SMIRNOV, N.A.,  
prof., red.; DNEPROVA, N.N., red. izd-va; PUL'KINA, Ye.A.,  
tekhn. red.

[Technology of building] Tekhnologiya stroitel'nogo proiz-  
vodstva. [By] N.A. Smirnov i dr. Leningrad, Gosstroizdat,  
1963. 435 p. (MIRA 17:2)

POBOYKOVA, Ye.G.; PETROVA, N.V.; SERGEYEV, V.V.

Manufacture of soluble glass at the Ingichka factory. TSvet. met. 36  
no.11:90 N '63. (MIRA 17:1)

ZEMSKOVA, Z.S. SERGEYEV, V.V.

Pythivazide therapy of experimental tuberculosis caused by pythivazide-resistant mycobacteria tuberculosis. Probl. tub. no.2167-71 '64.

(MIRA 17:12)

1. Patomorfologicheskaya (zav. - prof. V.I.Puzik) i mikrobiologicheskaya (zav. - prof. A.I.Kagramanov) laboratorii Tsentral'nogo instituta tuberkuleza Ministerstva zdoravookhraneniya SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.A.Shmolev), Moskva.

SIBIRYEV, Viktor Vasil'yevich; GALITSKIY, Nikolay Vladimirovich;  
RICELEV, Vasilii Pavlovich. Prinsipal uchastiye KOZLOV,  
V.M.; GUS'KOV, V.M., red.

[Metallurgy of titanium] Metallurgiya titana. Moskva, Izd-  
vo Metallurgiya, 1964. 207 p. (MIRA 17:7)

ZIMIN, Vyacheslav Aleksandrovich, inzh.; LEVIN, Samuil  
Samsonovich, inzh.; LEVCHENKO, Klavdiya Pavlovna,  
inzh.; SERGEYEV, Viktor Viktorovich, st. inzh.;  
ANTONOVA, N.N., inzh., red.

[Pneumatic-percussive boring of blast holes in stone  
quarries; experience of the Shartash Granite Quarry of  
the "Uralnerud" Trust] Pnevmodarnoe burenie vzryvnykh  
skvazhin na kamennykh kar'erakh; opyt Shartashskogo gra-  
nitnogo kar'era tresta "Uralnerud." Moskva, Stroiizdat,  
1964. 24 p. (MIRA 18:4)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii,  
mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
2. Zaveduyushchiy laboratorii' burovoy tekhniki Nauchno-  
issledovatel'skogo i proyektno-konstruktorskogo instituta  
gornogo i obogatitel'nogo mashinostroyeniya, g. Sverdlovsk  
(for Zimin).
3. Nauchno-issledovatel'skiy i proyektno-  
konstruktorskiy institut gornogo i obogatitel'nogo mashino-  
stroyeniya, G. Sverdlovsk (for Levchenko, Sergeyev).

L 5421-66 EWT(1) IJP(c)

ACCESSION NR: AP5019762

UR/0051/65/019/002/0270/0278

535.421:535.417

38  
B

AUTHOR: <sup>44.55</sup> Gerasimov, F. M.; <sup>44.55</sup> Sergeev, V. P.; <sup>44.55</sup> Tel'tevskiy, I. A.; <sup>44.55</sup> Sergeev, V. V.; <sup>44.65</sup> Marichev, B. V.

TITLE: The use of moire interference fringes to control the ruling of diffraction gratings

SOURCE: Optika i spektroskopiya, v. 19, no. 2, 1965, 270-278

TOPIC TAGS: diffraction grating, light interference, light diffraction

ABSTRACT: A method is described for the control of a ruling engine, based on moire fringes which are formed by a system consisting of a transparent and a reflecting diffraction grating. The control method is claimed to be simpler than that of G. R. Harrison and co-workers (J. Opt. Soc. Am. v. 49, 205, 1959 and earlier papers; G. V. Stroke, ibid. v. 51, 1321, 1961), who used a Michelson interferometer. The equipment is described and the properties and accuracy of the method are examined. The mechanical part of the equipment does not differ markedly from a standard ruling engine and the optical system is illustrated in Fig. 1 of the Enclosure. About 100 gratings with 200, 300, 800, 1200, and 2400 lines/mm were prepared with an experimental ruling engine, and their qualities were on the whole superior to

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L 5421-66

ACCESSION NR: AP5019762

those of gratings prepared with mechanical ruling engines. Rowland ghosts were almost completely eliminated. Orig. art. has: 6 figures and 2 formulas.

ASSOCIATION: none

SUBMITTED: 21May64

ENCL: 01

SUB CODE: OP

NR REF SOV: 002

OTHER: 005

Card 2/3



L 5421-66

ACCESSION NR: AP5019762

ENCLOSURE: 01

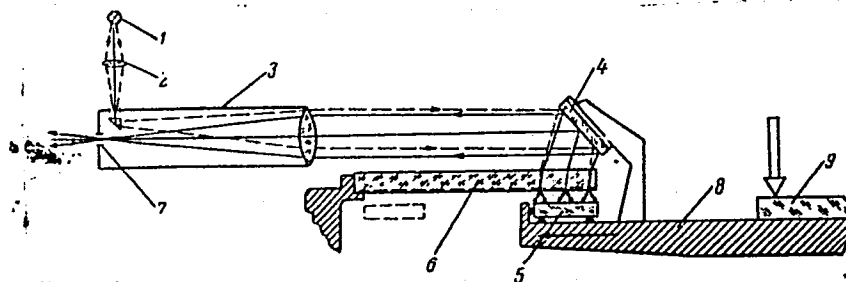


Fig. 1. Diagram of the optical part of the apparatus

- 1 - Incandescent lamp, 2 - condenser, 3 - collimator,
- 4 - swinging mirror, 5,6 - gratings, 7 - exit slit.
- 8 - ruling carriage, 9 - ruled grating

*beb*  
Card 3/3

NEKSLAVSKAYA, L.I.; SERGEYEV, V.V.

Method of approximate determination of the specific  
surface area of a titanium sponge. Zhur.prikl.khim.  
38 no.9:1966-1972 S '65. (MIRA 18:11)

VELT, I.D., inzh.; LAMOCKINA, T.L., inzh.; NIK-TIN, E.I., inzh.;  
PETRUSHAYTIS, V.I., inzh.; SERGEYEV, V.V., inzh.

Induction fluid-flow pickups with a unified output signal.  
Priberostroenie no. 10:20-22 Q '65 (MIRA 19:1)

Wool Carding

Wool Carding

Mechanical removal of burdock burs from wool. Tekst. pron, No. 5, (1952)

Monthly List of Russian Acquisitions, Library of Congress, August, 1952. UNCLASSIFIED