

PA - 2347

On Recombination on the Occasion of a Collision of Current Carriers in Semiconductors.

The electrons in the conductivity zone can also be produced by illumination of the crystal. If the wave functions for the initial state are considered as plane waves and for the final state of the bound electron as spherically symmetric functions (which are limited to a domain with the radius  $R$ ), the expression  $(1/ ) = C m^{3/2} e^4 E^{1/2} R^3 P^2 / h^3$  is obtained for the probability of recombination. Here the constant  $C$  depends on the number of holes which are able to recombine with the given center. In view of the inaccuracy of evaluation, agreement with the experiment is good. According to the author's opinion the ideas discussed are a convincing argument in favor of the fact that collision recombination may in various cases be the predominant mechanism. This phenomenon apparently plays an important part in the physics of semiconductors. (No illustrations).

ASSOCIATION: Physical Institute of the Polish Academy of Science.  
PRESENTED BY:  
SUBMITTED:  
AVAILABLE: Library of Congress.  
Card 2/2

21 12  
 ✓ Electronic processes at grain boundaries. L. Sosnowski  
 (Inst. Phys., Warsaw). *Phys. and Chem. Solids* 8, 142-6  
 (1958).—The elec. properties of grain boundaries of several  
 kinds, such as the low-angle boundary and the coherent and  
 incoherent twin boundaries, are discussed in connection with  
 expl. work on Si and Ge crystals. The nature of the  
 boundaries was established by optical, x-ray, and electron-  
 microscopy methods. Diffusion of minority carriers, re-  
 combination rates, photovoltaic effects, and transient phe-  
 nomena were investigated. The occurrence of n-p-n junctions  
 at some types of boundaries is assumed. The expl. data  
 are discussed in terms of the d. of electronic states at the  
 boundary. J. M. Hoale

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Distr: 4E3c/4E2c

POLAND/Electricity - Semiconductors

G-3

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27784

Author : Sosnowski L.

Inst : Not Given

Title : Urgent Problems in Semiconductor Physics.

Orig Pub : Postepy fiz., 1958, 9, No 2, 145-150

Abstract : No abstract

Card : 1/1

KOŁODZIEJCZAK, J.; SOSNOWSKI, L.

Thermoelectromotive force and Nernst-~~Ettinghausen~~ effect in InSb.  
Acta physica Pol 21 no.4:399-413 Ap '62.

1. Institute of Physics, Polish Academy of Sciences, Warsaw.

ACCESSION NR: AP4015995

P/0047/63/014/008/0697/0701

AUTHOR: Sosnowski, Leonard

TITLE: Optical investigations of semiconductors

SOURCE: Postepy fizyki, v. 14, no. 6, 1963, 697-701

TOPIC TAGS: semiconductor absorption spectrum, semiconductor emission spectrum, semiconductor reflection spectrum, solid state band theory, solid state physics, lead sulfide, lead telluride, lead selenide, thallium sulfide, cadmium selenide, cadmium telluride, mercury telluride, silicon crystal, magnetooptics, photoconductivity, photoelectric effect, phonon field, photon, energy gap, exciton, boron single crystal

ABSTRACT: Since the 1940's, research in solid state physics at the Hoza School of Physics in Warsaw has centered on semiconductors, particularly on their electrical properties, in view of their technological value and importance in theoretical interpretations (the band theory represents an attempt at understanding the electrical properties of metals and semiconductors). Advances in experimental methods coupled with steady theoretical development account for the fact that optical methods have become the most accurate tool for the study of electron states in

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ACCESSION NR: AP401599

solids. The investigation of absorption, reflection, and emission spectra, particularly in the presence of magnetic fields, provides a wealth of information that is inaccessible otherwise. The author gives a brief discussion of the band theory of solids as illustrated by the case of a semiconductor, relates it to spectral characteristics, and considers the effect of a magnetic field. He concludes with a list of semiconductor research problems investigated at the Hoza School since the 1940's; determination of the energy gap in PbS, PbSe, PbTe and  $Tl_2S$ , discovery of a new electron-hole recombination mechanism, present work on the photoconductivity of boron single crystals, recent emphasis on absorption and reflection spectra from semiconducting single crystals, interpretation of the nature of luminescence observed at p-n junctions in silicon. The latest line of research involves magneto-optics. Orig. art. has: 4 figures.

ASSOCIATION: Uniwersytet Warszawski (University of Warsaw); Instytut Fizyki PAN, Warsaw (Physics Institute of the Polish Academy of Sciences)

SUBMITTED: 00

DATE ACQ: 03Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 000

OTHER: 000

Card 2/2

SOSNOWSKI, Leonard, prof. dr.

Molecular biology. Problemy 19 [i.e. 20] no.1:5 '64.

1. Członek korespondent oraz dyrektor Instytutu Fizyki  
Polskiej Akademii Nauk, i Kierownik Katedry Fizyki Ciała  
Stałego, Uniwersytet, Warszawa.

BOSNOWSKI, PIOTR.

Podziemne osadniki wodne w kopalniach. (Wyd. 1.) Katowice, Wydawn. "Slask," 1957. 176 p. (Underground drains in mines. 1st ed. bibl., diags., forms, graphs, tables)

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958



~~SOSNOVSKIY~~, P. [Sosnowski, Piotr], inzh.; ZHUK V.I. [translator]; ORLOVA, Ye.P., otv. red.; GADZHINSKAYA, A.M., red. izd-va; SHKIYAR, S.Ya., tekhn. red.

[Mine water sumps] Shakhtnye vodootstoiniki. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 171 p. Translated from the Polish. (MIRA 14:9)

(Poland--Hydraulic mining--Equipment and supplies)

SOSNOWSKI, P.

Remarks on durable log headings and the use of LK steel linings.  
Wiadom gorn ll no. ll:394-397 N '60.

SOSNOWSKI, R.

Measurement of the polarization of a neutrino. p.327.

POSTĘPY FIZYKI. Warszawa, Poland. Vol. 9, no. 3, 1958.

Monthly List of East European Accessions Index (EEAI), LC. Vol. 8, No. 9, September 1959  
Uncl.

BOSNOWSKI, A.

Thermonuclear reaction in high energy discharges. p.328.

FOSTEFY FIZYKI. Warszawa, Poland. Vol. 9, no. 3, 1958.

Monthly List of East European Accessions Index (EEAI), LC. Vol. 8, No. 9, September 1959  
Uncl.

SOSNOWSKI, R.

Measurement of electron polarization. p. 445.

POSTĘPY FIZYKI. (Polskie Towarzystwo Fizyczne) Warszawa, Poland. Vol. 9, no. 4, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, August 1959.  
UNCL

POLAND/Nuclear Physics - Installations and Instruments.  
Methods of Measurement and Research

C

Abs Jour : Ref Zhur Fizika, No 8, 1959, 17228

Author : Sosnowski, Ryezard

Inst : -

Title : Measurement of Polarization of Electrons

Orig Pub : Postepy fiz., 1958, 9, No 4, 445-457

Abstract : Survey.  
Bibliography, 15 titles.

Card 1/1

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67357

## AUTHORS:

Sosnowski, R., Sterliński, S.,  
Topa, J., Zylicz, J.

POL/45-18-6-3/5

## TITLE:

Isomeric Transition in Hg<sup>199</sup>  
19 19

## PERIODICAL:

Acta Physica Polonica, 1959, Vol 18, Nr 6, pp 573-580 (Poland)

## ABSTRACT:

It was the aim of the present paper to investigate the spectrum of internal conversion electrons for the isomeric transition in Hg<sup>199</sup> from the  $i_{13/2}$  to the  $f_{5/2}$ -level. This 370-kev transition was investigated under conditions, which permitted measurement of the ratio K/L and to estimate the E5 contribution. L.A.Sliv and A.M.Band had estimated the E5 admixture to 90%. Preparation of the Hg<sup>199</sup> source is briefly described and shown in figure 1. For measurement of the internal conversion electron spectra, a magnetic spectrometer with a thick lens was used. A G-M counter of the BAT-10 type with a mica window ( $1.3 \text{ mg/cm}^2$ ) served as detector. The spectrometer had a resolution of 3.3%, the counting background did not exceed 3 counts/min; the electron absorption in the window was negligibly small. Measuring results are shown in several

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Isomeric Transition in Hg<sup>199</sup>

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diagrams. They show good agreement with those calculated theoretically for M4 transition in consideration of the finite nuclear dimensions and nuclear field shielding by the electron shell. The authors obtained:  $K:L(M+N) = 1:(0.57 \pm 0.09) : (0.12 \pm 0.07)$ . The mixture ratio of M4 to E5 is shown in figure 7. The maximum E5 admixture is found not to exceed 11%, which is in agreement with what was found by Pound and Wertheim. The authors finally thank Professor A. Soltan for his advice during construction of the spectrometer and for his keen interest. There are 7 figures and 13 references, 4 of which are Soviet.

ASSOCIATION: Institute of Nuclear Research, Polish Academy of Science,  
Warsaw 4

SUBMITTED: April 25, 1959

Card 2/2



SOSNOWSKI, R.

Distr: 4E3c 2 cys

19

Isomeric transition in mercury-199. R. Sosnowski, S. Saterlinski, J. Topa, and J. Zylica (Inst. Badan Jadrowych, Warsaw). *Polish Acad. Sci., Inst. Nuclear Research, Rept. No. 89/I-A, 9 pp. (1969) (in English).*—The transition from the  $i_{11/2}$  to the  $f_{7/2}$  level and the size of the E5 contribution were studied in the internal conversion electron spectra obtained with  $Hg^{199}$  sources 1.2 and 6 mg./sq. cm. thick for 2 hrs. within 2660-1550 gauss-cm. The  $K:L:M + N$  ratio of  $1:0.57 \pm 0.09:0.12 \pm 0.07$  permitted calcn. of the transition energy as  $371.1 \pm 3.5$  e.kv. The E5 contribution to the basic M4 transition did not exceed 11%.  
A. Szwarcinski

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SOSNOWSKI, R.

Distr: 4E3c 2 cys/4E3e

Internal conversion electrons of thulium-167. <sup>2/</sup> S. Choinacki, <sup>19</sup> H. Lancman, <sup>9</sup>  
R. Sosnowski, <sup>3</sup> O. Wolczek, J. Zylicz (Inst. Badan Jadrowych, Warsaw), and I. A. Yutlandov  
Polish Acad. Sci., Inst. Nuclear Research, Rept. No. 113/I-A, 6 pp (1959) (in Russian).  
-Transitions in Tm<sup>167</sup> obtained by irradiating Tm with 660-m.e.v. protons were studied  
in internal conversion electron spectra obtained within 610-4170 gauss-cm. A new  
conversion line representing a 534-e.kv. transition in the K shell was attributed  
to El.

A. Szafranski

(Retyped Clipped Abstract)

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P/045/61/020/012/004/004  
B137/B104AUTHORS: Chojnacki, S., Kopystyński, J., Preibisz, Z., Sosnowski, R.,  
Zylicz, J., and Yutlandov, I.TITLE: Note on positron radiation from Pr<sup>140</sup>

PERIODICAL: Acta Physica Polonica, v. 20, no. 12, 1961, 1021 - 1023

TEXT: In their letter to the editor the authors report on an investigation of the positron spectrum of Pr<sup>140</sup>. Measurements were made with a long-lens spectrometer in which helical baffles were applied to separate positron and electron radiations. The Pr<sup>140</sup> isotope was obtained from a neodymium fraction separated from a tantalum target by the chromatographic method. The target was irradiated with 660-Mev protons (synchrocyclotron of the Joint Institute of Nuclear Research at Dubna). Nd<sup>140</sup> contained in the Nd fraction decays into Pr<sup>140</sup> by electron capture. The Kurie plot is a straight line from 350 keV up to the maximum energy of  $2366 \pm 24$  keV. B. S. Dzhelepov (Zh. eksper. teor. fiz., 37, 857 (1959); Izv. Akad. Nauk SSSR Ser. fiz., 22, 153 (1958); Papers presented at the Second Conference on Neutron Deficient Isotopes of the Rare Earth Elements, Joint Inst. of

Card 1/2

BARTKE, Jerzy; SOSNOWSKI, Ryszard

Twelfth International Conference of Physics of High Energies.  
Postępy fizyki 15 no.6:671-672 '64.

SOSNOWSKI, T.

Training qualified cadres for the clothing industry in the  
Soviet Union. p. 36. ODZIEZ, Lodz. Vol. 7. no. 2, Feb. 1956.

SOURCE: East European Acession (EEAL) Library of Congress  
Vol. 5, no. 8, August 1956.

SOSNOWSKI, W.

(3)  
Sosnowski, W. Sur une interprétation géométrique des éléments complexes. Ann. Soc. Polon. Math. 24 (1951), no. 2, 35-48 (1954).

Von Staudt [Beiträge zur Geometrie der Lage, Heft I, Bauer and Raspe, Nürnberg, 1856] represented each pair of conjugate complex points on a line by the elliptic involution that has these for its invariant points, and distinguished the two by the apparently artificial device of associating

each with one of the senses along the line. The author uses, instead, a projectivity of period 3 and its inverse; there is then just one imaginary point for each such projectivity. He uses the symbol  $(xyz)$  to denote the imaginary point represented by projectivity  $xyz \times yzx$ , where  $x, y, z$  are three real points on the line. Restricting consideration to two dimensions, he gives the dual representation for an imaginary line, and shows that the line joining  $(xyz)$  and  $(xuv)$  is  $tx, ty, tz (=) tx, tu, tv$ , where  $t$  is the point of intersection of the two real lines  $yu$  and  $zv$ . The construction for the intersections of a conic with an exterior line is given in an affine form, for convenience. Making a brief excursion into Euclidean geometry, he remarks that the isotropic lines through any point are represented by the rotations through  $\pm 120^\circ$ . He shows also that projectivities of periods 4 or 6 can be used just as well as those of period 3; in fact, the construction for the intersections of a line and a conic is particularly simple in the case of period 4.

H. S. M. Coxeter (Toronto, Ont.).

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SOSNOWSKI, Waclaw (Lodz, ul. Wigury 17 m.4)

~~Inflammatory lower lobe changes as a result of bronchial stenosis  
in carcinoma and tuberculosis of the lungs. Gruzlica, 26 no.4:297-302  
Apr '58.~~

1. Z Kliniki Fizjologicznej A.M. w Lodzi. Kierownik: prof. dr J. Stopczyk.  
(BRONCHITIS, pathol.)

inflam. lower lobe changes in bronchial stenosis due to  
pulm. carcinoma & tuberc. (Pol))

(TUBERCULOSIS, PULMONARY, compl.)

bronchial stenosis with inflamm. lower lobe changes  
(Pol))

(LUNG NEOPLASMS, compl.)

same (Pol))



SOSNOWSKI, Wacław

Fate of patients treated with pneumothorax complicated by atelectasis. Gruzlica 24 no.8:729-739 Aug 56.

1. Z kliniki Ftyzjatrycznej A.M. w Łodzi. Kierownik: prof. dr. J. Stopczyk.

(PNEUMOTHORAX, ARTIFICIAL, compl. atelectasis)

(ATELECTASIS, etiol. and pathogen. pneumothorax, artif.)

STOPCZYK, Jan; SOSNOWSKI, Wacław; ROZNIIEWSKI, Jerzy

Corticotherapy of acute and subacute pulmonary tuberculosis and exudative pleurisy. *Gruslica* 29 no.2:125-137 F '61.

1. Z Kliniki Ftyzjatrycznej Akademii Medycznej w Łodzi Kierownik: prof. dr med. J. Stopczyk.

(TUBERCULOSIS PULMONARY ther)  
(CORTICOTROPIN ther)  
(ADRENAL CORTEX HORMONES ther)

SOSNOWSKI, Waclaw

Results of preliminary antimicrobial therapy with classical drugs in recent pulmonary tuberculosis in adolescents and adults. Gruzlica 30 no.6:547-557 '62.

1. Z Kliniki Ftizjatrycznej AM w Lodzi Kierownik: prof. dr med. J. Stopczyk.

(ISONIAZID) (AMINOSALICYLIC ACID)  
(STREPTOMYCIN) (TUBERCULOSIS, PULMONARY)

SOSNOWSKI, Wacław

Role of hilar and mediastinal lymph nodes and of lympho-  
bronchial fistulae in the development of post-primary  
tuberculosis in adults and adolescents. Gruzlica 31 no.6:  
617-623 Je'63.

1. Klinika Ftizjatryczna AM, Lodz.

\*

SOSNOWSKI, Wacław

10 years of the Department and Clinic of Phthisiology of the  
Academy of Medicine in Lodz (1953-1962). Gruzlica 31 no.10:  
1017-1020 '63.

(TUBERCULOSIS) (SCHOOLS, MEDICAL)  
(HOSPITALS)

SOSNOWSKI, Waclaw

Clinical contribution to chronic pneumonitis (with special consideration to etiopathogenic studies). Gruzlica 31 no.10: 1065-1071 '63.

1. Z Kliniki Ftizjatrycznej AM w Lodzi Kierownik: prof. dr med. J. Stopczyk.

(PNEUMONIA) (DIAGNOSIS, DIFFERENTIAL)  
(LUNG NEOPLASMS) (LUNG ABSCESS)  
(TUBERCULOSIS, PULMONARY) (PNEUMONIA, VIRAL)

SOSNOWSKI, Waclaw; ROZNIECKI, Jerzy

Alveolar or bronchial cancer? (Clinical and histological picture of a case). Gruzlica 31 no.10:1073-1079 '63.

1. Z Kliniki Ftizjatrycznej AM w Lodzi Kierownik: prof. dr med. J. Stopczyk.

(CARCINOMA, BRONCHIOLAR) (PATHOLOGY)  
(DIAGNOSIS, DIFFERENTIAL)

KUCZBORSKI, Stanislaw, SOSNOWSKI, Wacław

Early and late results of the classical chemotherapy of recently diagnosed pulmonary tuberculosis. Gruzlica 32 no.8:615-619 Ag '64.

1. Z Kliniki Ftizjatrycznej Akademii Medycznej w Łodzi (p.c. kierownika: dr. med. W. Sosnowski) i ze Szpitala im. Dr. J. Brudzińskiego w Łodzi (Dyrektor -- ordynator: dr. med. St. Kuczborski).



HORNUNG, Stanislaw; POLONCZYK, Mieczyslaw; DELOFF, Leonard; DERUBSKA,  
Barbara; GARNUSZEWSKI, Zbigniew; JAROSZEWICZ, Wiwa; JAWORSKI,  
Jan; MYSAKOWSKA, Helena; PARYSKI, Edwin; PECAK, Wladyslaw;  
PREGOMSKI, Wladyslaw; SOSNOWSKI, Wacław; WESTFAL, Irena;  
ZIERSKI, Marian

Primary resistance to basic antitubercular drugs in pulmonary  
tuberculosis patients observed in Poland during the period of  
1961-1962. Gruzlica 32 no.8:629-636 Ag '64.

SAPOZHNIKOV, M.M., kandidat tekhnicheskikh nauk; GOLOD, M.S., inzhener, redaktor; SOSULINA, V.N., redaktor; TOKER, A.M., tekhnicheskiy redaktor.

[Handbook on safety measures for installers of boiler equipment]  
Pamiatka po tekhnike besopasnosti dlia montazhnikov kotel'nykh ustanovok. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitecture, 1953. 38 p. (MLRA 7:8)  
(Boilers--Safety measures)

BRODSKIY, N.I.; MALYSHEV, B.D., redaktor; SOSULINA, V.N., redaktor;  
TOKER, A.M., tekhnicheskiy redaktor

[Booklet for workers engaged in the production of calcium carbide]  
Pamiatka dlia rabochikh, zaniatykh v proizvodstve karbida kal'tsia.  
Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954.  
22 p. (MLRA 7:8)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva. Otdel  
tekhniki bezopasnosti i promyshlennoy sanitarii.  
(Calcium carbide--Safety measures)

SHCHEKIN, Aleksandr Abramovich; MILYUTIN, N.A., retsenzent; GUSEVA, M.G.,  
retsenzent; LYAKHOVSKAYA, Ye.A., retsenzent; SOSULINA, V.N., re-  
daktor; EL'KINA, E.M., tekhnicheskiy redaktor.

[Making lace on the multishuttle lace machine] Proisvodstvo kruzhev  
na mnogochelnochnoi kruzhevnoi mashine. Moskva, Gos. nauchno-tekhn.  
izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia  
SSSR, 1954. 287 p. (MIRA 8:2)  
(Lace and lacemaking)

VINOGRADOV, Ivan Mikhaylovich; PETROVA, Stella Vladimirevna; SOSULINA, V.N.,  
redakter; EL'KINA, E.M., tekhnicheskiy redakter.

[Technique of sewing men's suits and coats] Tekhnologiya peshiva  
muzhskikh kostiumev i pal'to. Moskva, Gos. nauchno-tekhnicheskoe  
izd-vo Ministerstva tekstil'noi promyshlennosti SSSR. 1955. 141 p.  
(Men's clothing) (MIRA 9:4)

ГОСУДАРСТВ, V. IV

KOVYUNENKO, Georgiy Alekseyevich; LYULYUKINA, V.F., retsenzent; GORSKOV, V.A., retsenzent; SOSULINA, V.N., redaktor; EL'KINA, E.M., tekhnicheskiy redaktor.

[Production of high grade pottery] Proizvodstvo sortovoi posudy.  
Moskva, Gos.nauchno-tekhn.izd-vo Ministerstva tekstil. promyshl.  
SSSR, 1955. 153 p. (MLRA 8:12)  
(Pottery)

SOSULINA, V.N.

MODESTOVA, Tat'yana Alekseyevna; VIKHROV, Pavel Georg'yevich; SHELIKHOV,  
Nikolay Nikolayevich; SOSULINA, V.N., redaktor; MEDVEDEV, L.Ya.,  
tekhnicheskiy redaktor

[Textile fabrics and sewing supplies; merchandise guide for the  
clothing industry] Materialovedenie shvelnogo proizvodstva. Mo-  
skva, Gos. nauchno-tekhn. izd-vo Ministerstva promysh. tovarov  
shirokogo potrebleniia SSSR. 1955. 190 p. (MLRA 8:6)  
(Textile fabrics) (Sewing--Equipment and supplies)

SAMAROV, Grigoriy Abramovich; CHEREMNYKH, Aleksandr Ivanovich; SOSULINA, V.N.,  
redaktor; MEDVEDEV, L.Ya., tekhnicheskii redaktor.

[The modeling and cutting of men's suits and coats] Modelirovanie  
i konstruirovaniye muzhskoi verkhnei odezhdy. Izd. 3-e dop. i perer.  
Moskva, Gos.nauchno-tekhn.izd-vo Ministerstva promyshlennykh tovarov  
shirokogo potrebleniya SSSR, 1955. 234 p. (MIRA 8:4)  
(Tailoring)



GALANINA, Ol'ga Dmitriyevna; MAKSIMOVA, Yuliya Alekseyevna; YESIPENKO,  
V.N., inzh., retsenzent; NADEZHINA, N.P., kand.tekhn.nauk,  
nauchnyy red.; SOSULINA, V.N., red.; KL'KINA, E.M., tekhn.red.

[Jacquard knitting] Risunchatyi trikotazh. Moskva, Gos.nauchno-  
tekhn.izd-vo M-va tekstil'.promyshl. SSSR, 1955. 303 p.  
(Knitting. Machine) (MIRA 12:3)

SLIVKER, Isay Semenovich; SIVASHINSKIY, Vul'f Moiseyevich; ZMLNV, Moisey Vasil'yevich; SOSULINA, V.N., redaktor; MEDVEDEVA, L.A., tekhnicheskii redaktor

[Organizing the procurement of waste products] Organizatsiia zagotovki vtorichnogo syr'ia. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva tekstil'noi promyshl. SSSR, 1956. 125 p. (MLRA 9:8)  
(Salvage (Waste, etc.))

SECRET #  
ZUBKOVA, Tamara Aleksandrovna; SMIRNOVA, Tat'yana Nikolayevna;  
MAKSIMOVA, Yu.A., retsenzent; SOSULINA, V.N., redaktor; MEDVEDEVA, L.A.,  
tekhnicheskiiy redaktor

[Knitting] Viazanie na spitsakh. Moskva, Gos. nauchno-tekhn. izd-vo  
M-va legkoi promyshl. SSSR, 1957. 198 p. (MIRA 10:5)  
(Knitting)

~~SOSUL'NIKOV~~, A.; STAFEYEV, A.; ALEKSANDROV, N.; SITNIKOV, V.; LEVIN, A.;  
KHOKHLUSHIN, V.; KARSHENBAUM, S.

Take into consideration experience in changing over to the seven-hour and six-hour day. Sots. trud. no.6:99-117 Je '58. (MIRA 11:6)

1. Zamestitel' nachal'nika otдела organizatsii truda Kuznetskogo metallurgicheskogo kombinata (for Sosul'nikov). 2. Nachal'nik otдела organizatsii truda gornogo upravleniya Kuznetskogo metallurgicheskogo kombinata (for Stafeyev). 3. Nachal'nik otдела truda i zarabotnoy platy Upravleniya khimicheskoy promyshlennosti Moskovskogo oblastnogo sovnarkhoza (for Sitnikov). 4. Starshiy inzhener otдела truda i zarabotnoy platy Upravleniya khimicheskoy promyshlennosti Moskovskogo oblastnogo sovnarkhoza (for Levin). 5. Direktor Moskovskogo instrumental'nogo zavoda "Kalibr" (for Khokhlushin). 6. Nachal'nik otдела truda i zarabotnoy platy Moskovskogo instrumental'nogo zavoda "Kalibr" (for Karshenbaum).  
(Hours of labor) (Industrial management)

SOSUL'NIKOV, A.

Production standards and planned assignment. Sots.trud 4 no.6:  
83-86 Ja '59. (MIRA 12:8)  
(Production standards)

SOSUL'NIKOV, A.

Planning wage funds under conditions of the new bonus system.  
Sots. trud 6 no.5:123-126 My '61. (MIRA 14:6)

1. Kuznetskiy metallurgicheskiy kombinat.  
(Stalinsk--Steel industry)  
(Wage payment systems)

ZHIDKOV, V.I., inzhener; SOSUL'NIKOV, B.V., inzhener.

Efficient grouping of packed columns in chemical plants. Stroi.prom.  
32 no.3:17-21 Mr '54. (MLRA 7:5)

1. Giprokauchuk. (Packed towers) (Chemical plants)

ACC NR: AP6033520

SOURCE CODE: UR/0413/66/000/018/0159/0159

INVENTOR: Selivanov, M. P.; Turbin, B. G.; Levin, L. P.; Semenov, Yu. M.;  
Ugryumov, M. S.; Shvedunenko, L. A.; Sosul'nikov, G. B.

ORG: none

TITLE: Electromechanic signal converter.<sup>25</sup> Class 62, No. 186296

SOURCE: Izobreteniya, promyshlennyye obrasty, tovarnyye znaki, no. 18, 1966,  
159

TOPIC TAGS: electromechanic converter, electromechanic signal converter,  
electromagnetic device, servomechanism, electrohydraulic servomechanism,  
electropneumatic servomechanism

ABSTRACT: The proposed electromechanical signal converter is intended  
primarily for electrical hydraulic and pneumatic servomechanisms. It contains a  
housing, a permanent-magnet electromagnetic device, pole pieces with adjustment  
screws, a coil and a portable system unit which includes an elastic element, an  
armature terminal, an operating slide element, and a magnetically permeable  
bushing. To improve operational reliability, ensure the possibility of operating in

Card 1/2

UDC: 629.19 629.135/138 629.132

Soviet Union



ACC NR: AP6033520

corrosive liquids, and improve the dynamic properties of the converter, the operating slide element is hermetically separated from the electromagnetic device and by an air gap from the magnetically permeable bushing. The slide element and the armature are a single unit, and the sealing element also serves as the elastic element of the portable system. The adjusting screws are fixed to the poles of the permanent magnet so as to make it possible to use the converter for servo-mechanising with various output characteristics and in order to ensure the smooth tuning of converter characteristics [Translation]

SUB CODE: 09/SUBM DATE: 22Jul64/

Card 2/2

L 38735-66 EWT(d)/EWT(m)/EWP(k)/EWP(h)/T-2/EWP(w)/EWP(v) IJP(c) EM

ACC NR: AP6025671

SOURCE CODE: UR/0413/66/000/013/0144/0144

INVENTOR: Sosul'nikov, I. L.; Chernov, Yu. G.

44  
B

ORG: none

TITLE: Device for controlling an aircraft-flap suspension mechanism. Class 62, No. 183596

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 144

TOPIC TAGS: aircraft actuating equipment, aircraft control equipment, aircraft wing, aircraft flap

ABSTRACT: An Author Certificate has been issued for a device for controlling an aircraft-flap suspension system, which consists of guide tracks and carriages

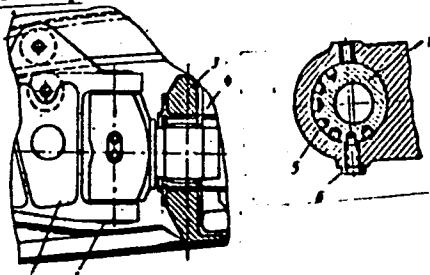


Fig. 1. Device for controlling an aircraft-flap suspension mechanism

- 1 - Eccentric shaft; 2 - carriage;
- 3 - longeron; 4 - flap; 5 - hole; 6 - screw.

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UDC: 629.135/138

L 38735-66

ACC NR: AP6025671

attached to the flaps (see Fig. 1). For greater reliability the shaft linking the carriage to the flap's longeron is graduated, with a cam in its center and a seat in its butt, which is intended for a wrench for turning the shaft. The shaft has a hole for a set screw which can be secured when the carriage and track are butted during the superposition of their longitudinal surfaces. Orig. art. has: 1 figure. [KT]

SUB CODE: 01/ SUBM DATE: 23Jun65/ ATD PRESS: 5048

Card 2/2 *AD*

SOSUNOV, A. V.

Chemical Abst.  
Vol. 48  
Apr. 10, 1954  
Biological Chemistry

*Chem Pharmacology*

(3)  
Technique of inducing experimental uremia in white rats.  
A. V. Sosunov and V. Avshalimov (I. P. Pavlov Med. Inst.,  
Ryazan). *Farmkol. i Toksikol.* 16, No. 5, 60-3(1953).—  
Uremia, induced in rats by painting the exposed kidneys  
with 10% tincture of I, was fatal in 1 to 45 days. Residual  
N content of arterial blood, normally 27-39, rose to 55 mg.  
%l in venous blood, normally 29-38, to 68 mg. %. There  
were also changes in the arginase, urease, and carboxylase  
activities in lungs, kidneys, spleen, and gastric mucosa.  
Julian F. Smith

PARFENT'YEVA, V.F.; SOSUNOV, A.V.

Pathomorphology of experimental gastritis. *Biul. eksp. biol. i med.*  
37 no.1:74-77 Ja '54. (MIRA 7:3)

1. Iz kafedry operativnoy khirurgii s topograficheskoy anatomiyey  
(zaveduyushchiy - professor V.A.Ivanov) II Moskovskogo meditsin-  
skogo instituta im. I.V.Stalina i kafedry operativnoy khirurgii  
s topograficheskoy anatomiyey (zaveduyushchiy - professor M.A.  
Yegorov).  
✓  
*Yegorov M.A. med. 7*

SOSUNOV, A. V.

PARGENT YEVA, V.F.; SOSUNOV, A.V.

Histomorphologic modifications of the liver in dogs under prolonged stimulation of the vagus nerve. *Biul. eksp. biol. i med.* 37 no. 2: 68-71 F '54. (MIRA 7:6)

1. Iz kafedry operativnoy khirurgii s topograficheskoy anatomiyei (zav. prof. V.A. Ivanov) II Moskovskogo meditsinskogo instituta imeni I.V. Stalina i kafedry operativnoy khirurgii s topograficheskoy anatomiyei (zav. prof. M.A. Yegorov) Ryazanskogo meditsinskogo instituta imeni I.P. Pavlova.

(LIVER, physiology,

\*eff. of prolonged stimulation of vagus nerves, histol. & morphol. changes in dog)

(NERVES, VAGUS, physiology,

\*eff. of stimulation on liver, histomorphol. changes in dogs)

SOSUNOV, A. V., Doc Med Sci (diss) -- "Material on the pathomorphology of the lungs in brain insultus and brain tumors". Ryazan'-Chita, 1957. 55 pp  
(Ryazan' Med Inst im Acad I. P. Pavlov, Chair of Path Anatomy, Chita Med Inst, Chair of Path Anatomy), 250 copies (KL, No 11, 1960, 137)

1. SOBUNOV, B. I.
2. USSR (600)
4. Sage
7. Obtaining high yields of musc sage. Dost. sel'khoz. No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



SOSUNOV, G.I., dots., kand.tekhn.nauk.

Mechanical strength of anthracite. Nauch.trudy MGI no.13/14:  
197-207 '54.

(MIRA 10:10)

(Anthracite--Testing)

*Sosunov, G.I.*

ANDREYEV, S. Ye.; BOKIY, B. V.; GORODETSKIY, P. I.; GREYVER, N. S.; SHCHUKIN, A. A.  
GERONT' YEV, V. I.; SKOCHINSKIY, A. A.; TERPIGOR'EV, A. M.; SHEVYAKOV, L. D.;  
SPIVAKOVSKIY, A. A.; VERKHOVSKIY, I. M.; VORONKOV, I. M.; YELANCHIK, G. M.;  
KASHIN, N. V.; SLOBODKIN, M. I.; GUZENKOV, P. G.; ZEMSKOV, V. D.; NOVIKOV, F. S.  
OS'ETSKIY, V. M.; SOSUNOV, G. I.; YASYUKEVICH, S. M.; KHAN, G. A.; POPOV, V. M.

In memory of Professor Levenson. Gor.zhur. no.9:60 S '55.  
(MIRA 8:8)

(Levenson, Lev Borisovich, 1878-1955)

SOSUNOV, G.I.; RUDENKO, N.F., prof., doktor tekhn.nauk, otv.red.

[Theoretical and experimental investigations on rock cutting  
by mechanical methods] Teoreticheskie i eksperimental'nye issledo-  
vaniia po razrusheniiu gornykh porod mekhanicheskim sposobom;  
kratkii obzor. Moskva, Mosk.gornyi in-t im. I.V.Stalina, 1959.  
101 p. (MIRA 13:11)

(Rocks)

(Mining machinery)

SOSUNOV, G.I., dotsent, kand. tekhn. nauk

Theory of percussion boring. Nauch. dokl. vys. shkoly; gor. delo  
no.1:51-59 '59. (MIRA 12:5)

1. Predstavlena kafedroy Prikladnoy mekhaniki Moskovskogo gornogo  
instituta im. I.V. Stalina.  
(Boring machinery--Testing)

SOSUNOV, G.I., dotsent, kand.tokhn.nauk

. Relation between the type of change in rock cutting force and the  
geometric shape of the tool. Nauch.trudy MGII no.29:129-137 '59.

(MIRA 14:4)

(Rock drills)

SOSUNOV, G. I., dotsent

Mechanism of breaking and force required in straight cutting  
of brittle solids. Izv. vys. ucheb. zav.; gor. zhur. no.10:  
60-65 '61. (MIRA 15:10)

1. Moskovskiy gornyy institut imeni I. V. Stalina. Rekomendovana  
kafedroy prikladnoy mekhaniki.

(Mining engineering)

KOZLOVSKIY, Nikolay Sergeyevich, st. prepod.; SOSUNOV, G.I.,  
dots., kand. tekhn. nauk, red.

[Fundamentals of the design of mechanical drives; manual  
on the course "Machine parts."] Osnovy proektirovaniia  
mekhanicheskikh privodov; uchebnoe posobie po kursu  
"Detali mashin." Moskva, Mosk. gornyi in-t, 1961. 50 p.  
(MIRA 17:8)

SOSUNOV, G.I.

Force necessary for the blocked cutting of brittle solid.  
Nauch. trudy Mosk. inst. radioelek. i gor. elektromekh.  
no. 49 pt.2:194-196 ' 64 (MIRA 19:1)



SOSUNOV, M.N.

PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

Call No.: TN686.T54

BOOK

- Authors: EFROIMOVICH Yu.E., Cand. of Tech. Sciences  
 KRICHEVSKIY, G.M., Engineer  
 LEVITANSKIY, B.A., Engineer  
 MALAYA, R.Yu., Cand. of Tech. Sciences, deceased.  
 NEIFAKH, G.M., Cand. of Tech. Sciences  
 POPOV, M.D., Engineer  
 SMORODINSKIY, Ia.M., Cand. of Tech. Sciences  
 SOSUNOV, M.N., Engineer  
 STASYUK, V.N., Engineer  
 TAITTS, A.A., Engineer  
 FEDOSEEV, L.M., Engineer  
 FEIGIN, V.I., Engineer  
 CHELYUSTKIN, A.B., Engineer  
 SHERENTSIIS, A.N., Engineer

Full Title: A HANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL INDUSTRIES.

Transliterated Title: Spravochnik elektrika predpriyatii chernoi metallurgii  
Publishing Data

Originating Agency: None.  
Publishing House: State Publishing House of Scientific-Technical Literature on Ferrous and Nonferrous Metallurgy (Metallurgizdat). Moscow.

Date: 1952

No. pp.: 1167

No. copies: 14,000

1/2

SOSUNOV, M.N.

CG000058

2/2

Call No.: TN686.T54

Full Title: A HANDBOOK FOR ELECTROTECHNICAL PERSONNEL IN FERROUS METALLURGICAL INDUSTRIES

Editors: Shalyapin, M.G.  
Levitanskiy, B.A.

Appraiser: None.

Text Data

Coverage: A detailed handbook containing technical data on specifications, standards, design and operation of various types of electrical equipment in ferrous metallurgical industries: electric power supply plants and their distributing systems, transforming stations and transmission lines (high and low tension), blast furnace works, rolling mill plants, open-hearth plants, mines, electrical steel smelting and ferroalloy furnaces, sintering plants, coke plants, and electrical transport. Tables and diagrams. Subject index.

Purpose: A handbook for electrotechnical personnel, engineering technicians, machine operators, and planning personnel of metallurgical industries.

Facilities: None.

No. of Russian references: References listed at end of each chapter.

Available: Library of Congress.

SMIRNOV, V.P.; SOSUNOV, N.A.

Welding of plastics with the electric resistance method.  
Plast.massy no.3:59-61 164. (MIRA 17:3)

SOSUNOV, N.

Automotive transportation at the Exhibition of Achievements of  
the National Economy of the U.S.S.R. Avt. transp. 38 no. 5:56  
My '60. (MIRA 14:2)

1. Glavnyy inzh.-metodist pavil'ona "Transport SSSR" na  
Vystavke dostizheniy narodnogo khozyaystva SSSR.  
(Transportation, Automotive—Exhibitions)

SOSUNOV, N.

Machinery for the loading and unloading of cement. Mor. flot 21  
no. 6:11-12 Je '61. (MIRA 14:6)

1. Glavnyy inzh.-metodist pavil'ona "Transport SSSR" na Vystavke  
destizheniy narodnogo khozyaystva SSSR.

(Cement---Transportation)  
(Cargo handling---Equipment and supplies)

SOSUNOV, N.

Automatic gripping devices for loading mechanisms. Avt. transp. 39  
no.1:12-15 Ja '61. (MIRA 14:3)  
(Loading and unloading—Technological innovations)

SOSUNOV, N.

Washing unit for motortrucks. Avt.transp. 39 no.9:25-26 S '61.  
(MIRA 14:10)

1. Glavnyy inzh.-metodist pavil'ona Transport SSSR na Vystavke  
dostizheniy narodnogo khozyaystva.  
(Motortrucks--Maintenance and repair)

*SOSUNOV, N.F.*

**SOSUNOV, N.F.**

Observations on the activity of Avacha Sopka and Mutnaya Sopka from  
June 1 through October 1, 1939. Biul.Vulk.sta. no.11:11-13 '47.  
(Avacha Sopka) (Mutnaya Sopka) (MLRA 8:11)



L 11202-63

EWT(d)/BDS

ACCESSION NR: AP3001016

S/0193/63/000/004/0029/0030

53

AUTHOR: Sosunov, N. I.

TITLE: Tank for <sup>14</sup>ultrasonic cleaning of machine parts in aggressive fluids

SOURCE: Byul. tekhniko-ekonomicheskoy informatsii, no. 4, 1963, 29-30

TOPIC TAGS: ultrasonic waves, aggressive fluids, cleaning of machine parts, galvanizing, UZVT-1

ABSTRACT: Generally in ultrasonic cleaning tanks waves are transmitted from the emitter to the working fluid through an intermediate water layer. A new type of tank invented by A. F. Zakatov increases the ultrasonic pressure in the working fluid by subjecting the intermediate water layer to extra pressure. Diagrams of two types of tank are shown. Increased ultrasonic pressure speeds time consuming cleaning processes and intensifies galvanizing processes. Machine parts of complex configuration can be cleaned from grease and impurities in 4 to 6 min. Production of types UZVT-1, UZVT-2, and UZVT-3 for ultrasonic cleaning of machine parts in aggressive fluids is planned for 1963. Orig. art. has: 1 figure.

ASSOCIATION: none

~~CONFIDENTIAL~~

SOSUNOV, P.F.

Thermal treatment of logs before barking. Der. prom. 14 no.6:  
11-12 Je '65. (MIRA 18:7)

1. Sverdlovskiy nauchno-issledovatel'skiy institut pererabotki  
drevesiny.

9(2)

06278  
SOV/107-59-6-42/50

AUTHOR: Sosunov, V. (Saratov)

TITLE: LF Amplifier

PERIODICAL: Radio, 1959, Nr 6, p 51 (USSR)

ABSTRACT: A simple LF amplifier is described without transformer coupling having an output of 100 milliwatts. The amplifier was shown at the 15th All-Union Exhibition of Radio Amateur Designs in Riga. A n-p-n transistor of type P101A and a so-called compound transistor, consisting of one P6A and one P2B transistor are used. The circuit diagram is shown in Figure 1. A dynamic loudspeaker of type "1GD-9" is used. The power is required by three elements of FBS-0.25 batteries. There is 1 circuit diagram.

Card 1/1

SOSUNOV, V. (g. Saratov)

"Temp" 2-V-2 transistor radio. Radio no.6:38 Je '61.

(MIRA 14:10)

(Transistor radios)

L 47355-65 EEC-4/EEC(b)-2/EWA(h)/EWT(1) Pi-4/Pj-4/Pm-4/Pac-4/Peb

ACCESSION NR: AR5009720

UR/0058/65/000/002/H039/H039

SOURCE: Ref. zh. Fizika, Abs. 2Zh265

AUTHOR: Sosunov, V. A.; Shibayev, A.A.

TITLE: Directional couplers for microwave frequencies

CITED SOURCE: Napravlenyye otvetviteli sverkhvysokikh chastot. Saratov, Privolzhsk. kn. izd-vo, 1964, 134 str.

TOPIC TAGS: directional coupler, <sup>25</sup>waveguide coupler, microwave coupler

TRANSLATION: The book is designed for senior students specializing in radio engineering and for engineering-technical personnel. It considers problems involved in the theory, design, and construction of microwave directional couplers. Principal attention is paid to waveguide directional couplers with optimal frequency characteristics. Bibliography, 48 titles.

SUB CODE: EC

ENCL: 00

Card 1/1 CC

MOMOT, Yevgeniy Grigor'yevich [deceased]; SOSUNOV, V.N., red.; SOBOLEVA,  
Ye.M., tekhn.red.

[Use of a generator with a shunting diode] Generator s shuntirui-  
shchim diodom i ego primeneniye. Moskva, Gos.energ.izd-vo, 1959.  
155 p. (MIRA 12:9)

(Electronic apparatus and appliances)

SOSUNOVA, A.D., akusherka

Training of medical personnel. Fel'd.i akush. no.8:63 Ag '55.

1. Isetskaya rayonnaya bol'nitsa Tyumenskoy oblasti  
(MEDICINE--STUDY AND TEACHING)

*Sosunova, A. N.*

USSR/Microbiology - Medical and Veterinary  
Microbiology

F-6

Abs Jour : Ref Zhur-Biologiya, No 1, 1957, 739  
Author : I. K. Karakulov, N. V. Tamarovskaya,  
and A. N. Sosunova  
Inst :  
Title : Experiment on the Liquidation of a  
Focus of Brucellosis  
Orig Pub : Zdravookhr. Kazakhstana, 1956, No 1,  
35-38  
Abstract : No abstract.

Card 1/1



СССР УМР ВТИ, А. И. :

17 (2, 6)

SOV/16-60-4-13/47

AUTHOR: Shuter, M.F., Lopatukhina, L.G., Sosunova, A.N. and Yastrebova, Ye.N.

TITLE: The Effects of Brucellosis Vaccination on the Course of the Infectious Process in Guinea Pigs Infected With Brucella Melitensis

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunologii, 1960, No. 4, pp 58 --60 (USSR)

ABSTRACT: Experiments were performed to determine the effects of brucellosis vaccination on persons infected with brucellosis by extrapolating the results of vaccination of guinea pigs, experimentally infected with Br. melitensis. Vaccination of the infected animals 2 - 3 months after infection with Br. melitensis did not provoke chronic infection. No increase in the multiplication or spread of brucella could be noted in the animal's organs. The vaccinal strain probably reacted by stimulating the body's defensive mechanism, clearing the body more rapidly of Br. melitensis. It thus reacted similarly to vaccine therapy with killed brucella. It was difficult to achieve superinfection in animals infected with Br. melitensis by the administration of a vaccinal culture of low virulence; the vaccinal strain either refused to take or

Card 1/2

ASSOCIATION: Sredneaziatskiy protivochumnyy institut (Central Asian Anti-Plague Institute)

SUBMITTED: July 11, 1959

Card 2/2

S/C16/60/000/06/03/05:

AUTHORS: Shmuter, M.F., Lopatukhina, L.G., Sosunova, A.N. and Yastrebova, Ye.N.

TITLE: The Comparative Characteristics of Three Vaccinal Strains of Brucella (19-BA, 19 and M) in Experimental Subcutaneous and Skin Administration

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, No. 6, pp. 12 - 16

TEXT: At the proposal of the Ministerstvo zdavookhraneniya SSSR (Ministry of Health of the USSR), the authors studied the characteristics of the three vaccinal strains of Brucellus abortus (19-BA, 19 and M) used in the USSR for immunizing people against brucellosis. Guinea pigs were immunized subcutaneously or dermally with the strains, killed off after 1, 5, 15, 30, 45, 60, 90 or 180 days and studied for pathological lesions, the isolation of brucellae from various organs and for their immune response. Strain M had greater residual virulence than strains 19-BA and 19, caused more extensive pathological lesions and led to a greater spread of brucella through the organs and tissues. No essential difference was noted in the residual virulence of strains 19-BA and 19, since both caused identical lesions in the internal organs, affected the same tissues and caused the same immune

Card 1/2

S/016/60/000/06/03/051

The Comparative Characteristics of Three Vaccinal Strains of Brucella (19-BA, 19 and M) in Experimental Subcutaneous and Skin Administration

response. The immune response from the M strain lasted longer and was more intense than that caused by strains 19-BA and 19. All three strains were highly immunogenic. Dermal vaccination caused slightly less lesions and the same depth of immunity as subcutaneous immunization. Strain 19 is therefore to be recommended for vaccination purposes. If strain M is used, care must be taken in selecting the correct dosage in view of its greater residual virulence. There are 2 tables and 6 Soviet references.

ASSOCIATION: Sredneaziatskiy protivochumnyy institut (Central Asian Anti-plague Institute)

SUBMITTED: July 11, 1959

Card 2/2

UZBEKOVA, B.R.; ALIMKHODZHAYEV, A.A.; SOSUNOVA, A.N.; LOPATUKHINA, L.G.

Bacteriological characteristics of Brucella cultures taken from  
people in Akmolinsk Province. Zdrav. Kazakh. 21 no.8:59-62 '61.  
(MIRA 14:9)

1. Iz Sredne-Aziatskogo protivochumnogo instituta (direktor -  
kand.med.nauk M.K.Tleugatylov).  
(AKKOLINSK PROVINCE--BRUCELIA)

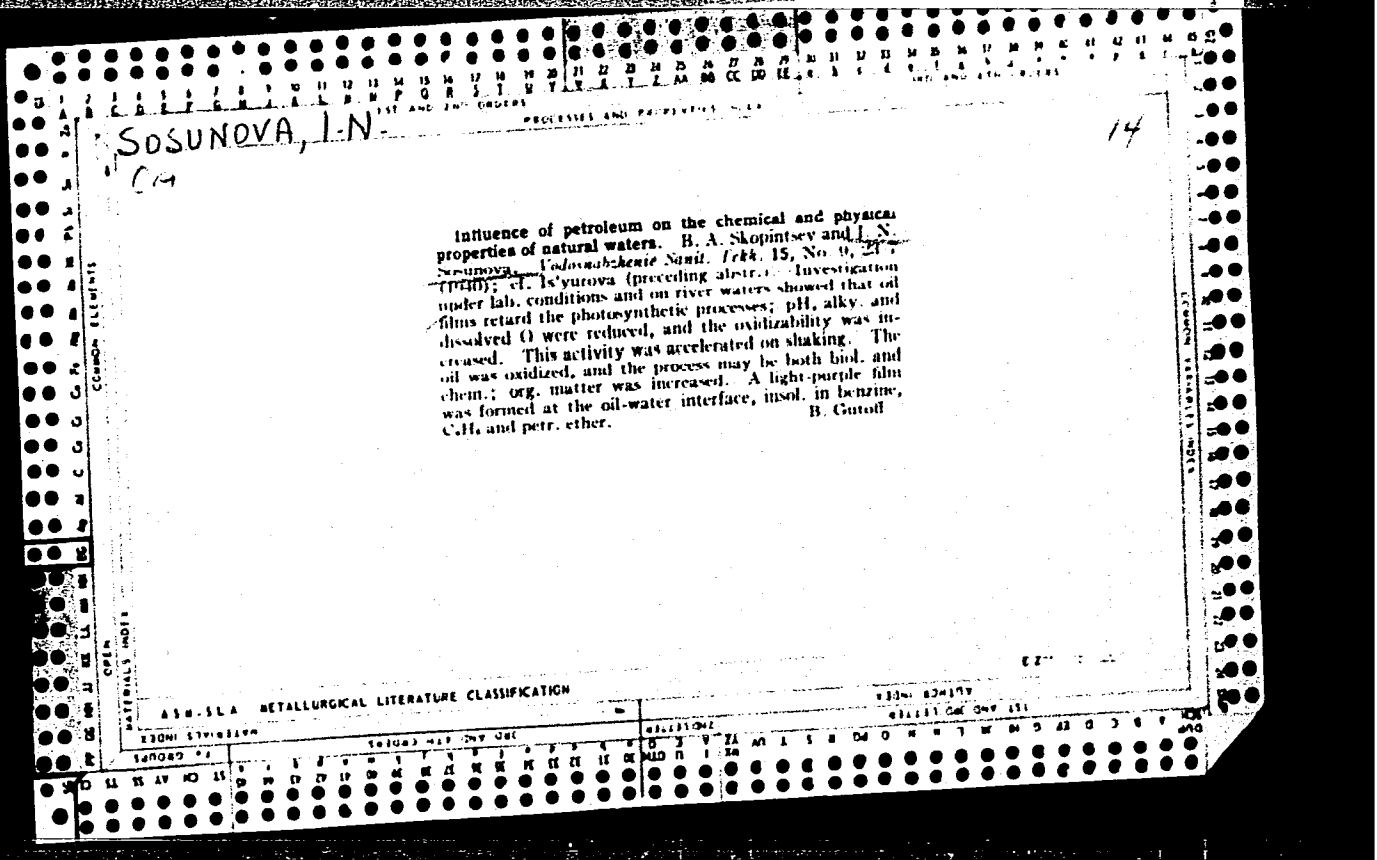
ANISIMOVA, T.I.; ANISIMOV, P.I.; SOSUNOVA, A.N.

Mechanism of natural immunity to plague in greater gerbils.

Zhur. mikrobiol., epid. i immun. 40 no.3:96-100 Mr '63.

(MIRA 17:2)

1. Iz Sredne-Aziatskogo protivochumnogo instituta Ministerstva  
zdravookhraneniya SSSR.



DRACHEV, S.M.; SOSUNOVA, I.N.

Conversion of organic matter in a polluted river having a regulated  
flow. Trudy Gidrobiol.ob-va 5:109-117 '53. (MLRA 7:5)

1. Tsentral'nyy nauchno-issledovatel'skiy sanitarnyy institut im.  
F.F.Erismana. (Fresh-water biology)

SOSUNOVA, I. N.

2886. The determination of lead in water. I. N. Sosunova. *Inform. Metod. Materialy Gos. Nauch. Izdatov. Sanit. Inst.*, 1954, (5), 32-35; *Ref. Zhur., Khim.*, 1955, (17), Abstr. No. 37,516.—Pour the sample (100 ml) into a cylinder with a ground glass stopper, add 4 ml of 25 per cent.  $\text{NH}_4\text{Cl}$  soln., 1 ml of 1 per cent.  $\text{CaCl}_2$  soln., 10 ml of 25 per cent. aq.  $\text{NH}_3$  soln., and 1 ml of 1 per cent.  $\text{Na}_2\text{CO}_3$  soln. Insert the stopper and shake, then allow to stand for 24 hr. At the same time treat 100 ml of twice-distilled  $\text{H}_2\text{O}$  similarly for use as a blank. Coloured waters are boiled before pptn., adding 5 ml of 5 per cent.  $(\text{NH}_4)_2\text{S}_2\text{O}_8$  soln. and 50 ml of distilled  $\text{H}_2\text{O}$  to 100 ml of the sample, and evaporating down to 100 ml. The following day, separate the ppt. from the clear liquid (used for determination of Cu) and wash with 3 ml of aq.  $\text{NH}_3$  soln. (5 ml of 25 per cent. aq.  $\text{NH}_3$  made up to 100 ml), remove the wash liquor and centrifuge out the ppt. Pour off the liquid, add 2 ml of 2 per cent.  $\text{HCl}$  to the ppt., transfer to the cylinder in which pptn. took place, washing out the centrifuge tube twice. The ppt. dissolves completely in the  $\text{HCl}$ . Transfer the soln. to a 10-ml colorimeter tube and make up to the mark. Then add 1 ml of 50 per cent.  $\text{KNa}$  tartrate soln., 1 ml of 30 per cent.  $\text{NaOH}$  soln., and 0.1 ml of 15 per cent.  $\text{Na}_2\text{S}_2\text{O}_5$  soln. (aq. or in glycerol), and mix. A yellow-brown colloidal suspension of  $\text{PbS}$  is formed, which is compared with permanent painted standards or with freshly prepared liquid standards containing 0 to 300  $\mu\text{g}$  of  $\text{Pb}(\text{NO}_3)_2$  per litre. The accuracy of the method is within  $\pm 20$  per cent. C. D. KOPKIN

Chem

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DRACHEV, S.M., prof.; RAZUMOV, A.S.; SKOPINTSEV, B.A.; KABANOV, N.M.;  
BRUYEVICH, S.V.; SOSUNOVA, I.N.; GOLUBEVA, M.T.; BRUK, Ye.S.;  
MOGILEVSKIY, Ia.A.; RUFFEL', M.A.; KORSH, L.Ye.; ANOKHIN, V.L.;  
BYLINKINA, A.A.; MEL'NIKOV, Ye.B., red.; BEL'CHIKOVA, Yu.S.,  
tekhn.red.

[Methods of studying waters from the point of view of sanitation]  
Priemy sanitarnogo izucheniia vodoemov. Pod red. S.M.Dracheva.  
Moskva, Gos.izd-vo med.lit-ry, 1960. 354 p.

(MIRA 13:11)

(Water--Analysis)

KIBAL'CHICH, I.A.; BELOVA, I.M.; BRUK, Ye.S.; SOSUNOVA, I.N.; GUTKOVSKAYA,  
A.I.; ZHAKOV, Yu.A.; TIMOFEEVA, T.Z.

Sanitary evaluation of the consequences of flooding tree plant-  
ations during the construction of reservoirs. Gig.i san. 25 no.1:  
15-20 Ja '60. (MIRA 13:5)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta sanitarii  
i gigiyeny imeni F.F. Erismana Ministerstva ziravookhraneniya RSFSR.  
(WATER RESOURCES DEVELOPMENT--HYGIENIC ASPECTS)

DRACHEV, S.M.; BYLINKINA, A.A.; SOSUNOVA, I.N.

Significance of surface adsorption phenomena in the self-purification of bodies of water. Trudy Gidrobiol. ob-va 14:66-73 '63. (MIRA 17:6)

1. Institut obshchey i kommunal'noy gigiyeny imeni A.N. Sysina AMN SSSR, Moskva.

GOSTINOVA, P.D. --

"The Regional Varieties of Corn of the Zakarpatskaya Oblast of the USSR."  
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