AYZ[illegible], Ya.I., insh.; [illegible], A.I., insh.; YEFIMKINA, V.F., insh.

Dustproof and waterproof fluorescent light fixtures. Svetotekhnika 7 no.1:11-14 Ja '61. (MIRA 14:2)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Fluorescent lamps)

AYZENBERG, Yu.B., inzh.; YEFIMKINA, V.F., inzh.

Draft standard on "Light fixtures with flourescent lamps for industrial lighting." Svetotekhnika 7 no.8:23 Ag '61.
(MIRA 14:7)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Fluorescent lighting)

AYZENBERG, Yu. B., inzh.; YEFIMKINA, V. F., inzh.

Presently manufactured fluorescent light fixtures and their principal characteristics. Svetotekhnika 8 no.9:25-27 S '62. (MIRA 15:10)

1. Vsesoyuznyy svetotekhnicheskiy institut.

(Fluorescent lamps)

AYZENBERG, Yu.B., inzh.; YEFIMKINA, V.F., inzh.

Built-in fluorescent light fixtures for industrial lighting.
Svetotekhnika 8 no.12:9-13 D '62. (MIRA 16:1)

1. Vsesoyuznyy svetotekhnicheskiy institut.
(Fluorescent lighting) (Fluorescent lamps)

AYZENBERG, Yu.B.; GORBACHEV, N.V.; GOREV, Z.M.; DEMCHEV, V.I.; YEFIMKINA, V.F.; IVANOVA, N.S.; KOMISSAROV, V.D.; MARKIZOVA, G.B.; MESHKOV, V.V.; OSTROVSKIY, M.A.; RATHER, Ye.S.; SHEFTEL', Ye.B.; YUROV, S.G.

Nikolai Nikolaevich Ermolinskii; obituary. Svetotekhnika 8 no.12:28 D '62. (MIRA 16:1)
(Ermolinskii, Nikolai Nikolaevich, 1894-1962)

BARANOV, V.I.; SERDYUKOVA, A.S.; GORBUSHINA, L.V.; NAZAROV, I.M.; YEFIMKINA, Z.N.; PANASENKOVA, Ye.I., red.

[Laboratory work and problems in radiometry] Laboratornye raboty i zadachi po radiometrii. Moskva, Atomizdat, 1964. 307 p. (MIRA 17:5)

L 29358-66 EEC(k)-2/EWP(k)/EWT(1)/EWT(m)/FBD/ETC(f)/T/EWP(e)/EWP(t)/ETI IJP(c)
ACC NR: AP6018574 SOURCE CODE: UR/0181/66/008/006/1953/1954
RDW/WG/WH/JD

AUTHOR: Grasyuk, A. Z.; Yefimkov, V. F. Zubarev, I. G.; Katulin, V. A.; Mentser, A. N.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN SSSR); Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov)

TITLE: CdSe semiconductor laser with two-photon optical excitation

SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1953-1954

TOPIC TAGS: laser, semiconductor, semiconductor laser, cadmium selenide

ABSTRACT: Laser action is reported in CdSe excited with a Q-switched neodymium-doped glass laser. Since the energy of the exciting radiation $\hbar\omega$ = 1.17 ev is smaller than the width of the forbidden band in CdSe (Δ = 1.88 ev at 77K) the stimulated emission was attributed to two-photon absorption. The 8 x 4 x 2 mm sample was cooled to 77K. The exciting radiation was incident on the 8 x 4 mm face of the sample perpendicular to the Fabry-Perot cavity. The emission observed is shown in Fig. 1. The peak occurred at 6972 Å ($\hbar\omega$ = 1.78 ev). At an excitation density of 1 Mw/cm^2 the halfwidth of the spontaneous emission was

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L 29358-66
ACC NR: AP6018574

3

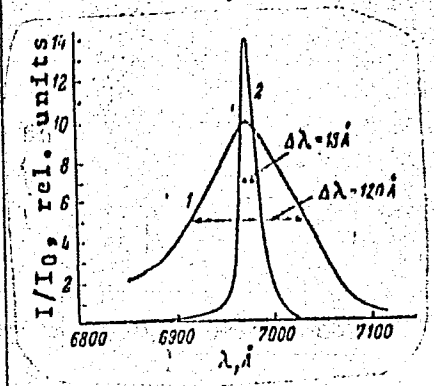


Fig. 1. The emission spectrum of CdSe at an intensity of exciting radiation of 1 Mw/cm^2 (1) and 7 Mw/cm^2 (2)

120 Å. Generation occurred at a density of exciting radiation of 7 Mw/cm^2 (the halfwidth narrowed down to 18 Å, the intensity of emission increased by two orders of magnitude, and directivity was 1—2°). The external quantum efficiency with regard to the energy of the exciting light penetrating the sample was 0.5%. A second harmonic of the exciting radiation at 5300 Å was observed when the pump light was parallel to the c-axis of the sample. The threshold intensity for excitation of CdSe was three times smaller than in optically pumped CdAs. An attempt to attain laser action in CdSe by ruby laser pumping was unsuccessful. Orig. art. has: 1 figure. [CS]

SUB CODE: 20/ SUBM DATE: 03Jan66/ ORIG REF: 003/ ATD PRESS: 5010

Card 2/2 fe

BERMAN, L.D., doktor tekhn. nauk; YEFIMOCHKIN, G.I., inzh.

Experimental study of a water-jet ejector. Teploenergetika 10 no.9:9-15 S '63. (MIRA 16:10)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Steam turbines)

BERMAN, L.D., doktor tekhn. nauk; YEFIMOCHKIN, G.I., inzh.

Operation of a condensing system with a water-jet ejector. Elek. sta. 34 no.7:28-32 Jl '63. (MIRA 16:8)

YEFIMOCHKIN, G.I., inzh.

Testing of steam-jet and water-jet ejectors. Elek. sta. 34 no.8: 2-3 Ag '63. (MIRA 16:11)

BERMAN, L.D., doktor tekhn. nauk, prof.; YEFIMOCHKIN, G.I., inzh.

Special features of the work process and operating mode of a water-jet ejector. Teploenergetika 11 no.2:31-35 F '64. (MIRA 17:4)

1. Vsesoyuznyy teplotekhnicheskiy institut.

BERMAN, L.D., doktor tekhn. nauk, prof.; YEFIMOCHKIN, G.I., inzh.

Calculational relationships for water-jet ejectors. Teploener-
getika 11 no.7:44-48 Jl '64. (MIRA 17:8)

1. Vsesoyuznyy teplotekhnicheskiy institut.

YEFIMOSHKIN, G.I., inzh.

Effect of nozzle design on the operation of a water jet ejector. Elek. sta. 35 no.5:7-11 My '64. (MIRA 17:8)

BERMAN, L.D., doktor tekhn. nauk, prof.; YEFIMOCHKIN, G.I., inzh.

Methods for calculating a water jet ejector. Teploenergetika 11 no.8: 92-94 Ag '64. (MIRA 18:7)

1. Vsesoyuznyy teplotekhnicheskiy institut.

ACC NR: AP6032189 SOURCE CODE: UR/0096/66/000/010/0089/0092

AUTHORS: Berman, L. D. (Doctor of technical sciences, Professor); Yefimochkin, G. I. (Candidate of technical sciences)

ORG: All-Union Heat Engineering Institute (Vsesoyuznyy teplotekhnicheskiy institut)

TITLE: Characteristics and design of low-pressure water-jet ejector pumps

SOURCE: Teploenergetika, no. 10, 1966, 89-92

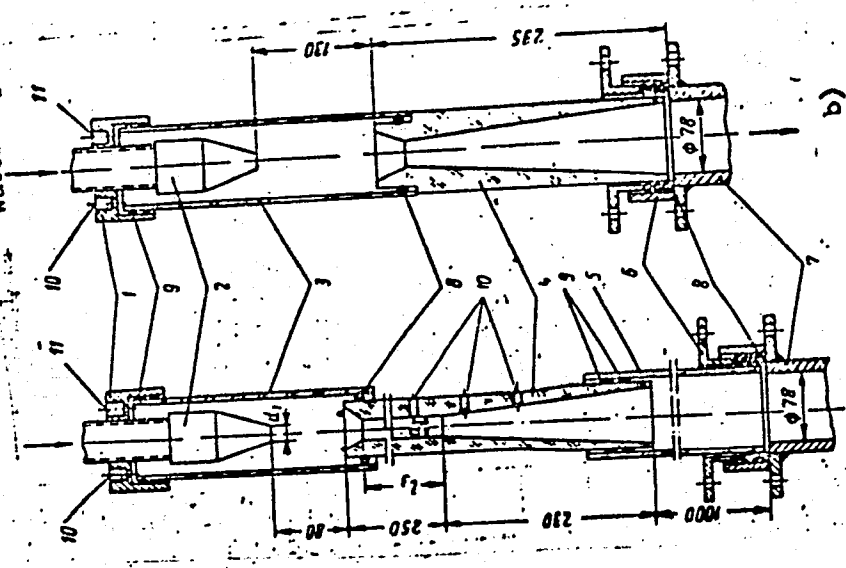
TOPIC TAGS: ejector pump, water pump, fluid pressure, flow characteristic, Reynolds number, fluid viscosity, surface tension, low pressure pump

ABSTRACT: This paper presents tests of low-pressure water-jet ejector pumps, performed to obtain data for designing ejector pumps. Six interchangeable tapered working nozzles with output diameters of 11--22 mm were used in the tests. The length of the cylindrical part of the mixing chamber $l_3 = 8.85d_3$ (d_3 is the diameter of the mixing chamber) and $l_3 = 0$ (see Fig. 1). Air could be admitted into the receiving chamber of the pump through three calibrated apertures with diameters of 1.5, 2.0, and 2.8 mm. The pressure and temperature of the working water were 1.3--5 bar and 5--15C. It was found that the cylindrical section of the mixture chamber expands the range of stable operation of the pump. This work is a continuation of several earlier reports by L. D. Berman and G. I. Yefimochkin

UDC: 621.176.001.24

Card 1/2

ACC NR: AP6032189



a) b)

Fig. 1. Experimental ejector pumps: 1 - cover of receiving chamber; 2 - working nozzle; 3 - receiving chamber; 4 - mixing chamber and exit cone (Plexiglas); 5 - glass overflow pipe; 6 - coupling; 7 - metal overflow pipe; 8 - rubber gasket ring; 9 - packing; 10 - opening for measuring pressure; 11 - calibrated opening for admission of air

(Teploenergetika, No. 7, 1964; No. 8, 1964). Orig. art. has: 3 diagrams, 5 graphs, 4 formulas, and 1 table.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 008

Card 2/2

ACC NR: AP6036153 SOURCE CODE: UR/0018/66/000/011/0093/0096

AUTHOR: Yefimochkin, L. (Major)

ORG: none

TITLE: Route engineering survey

SOURCE: Voyennyy vestnik, no. 11, 1966, 93-96

TOPIC TAGS: military training, military engineering, military bridge, ROAD

ABSTRACT: A roadway engineering company during practical exercises was given an assignment to reconnoiter a 128-km route and prepare it for use by advancing troops. The time limit was 8 hr of daylight, and some of the obstacles included nuclear strike zones, mine fields, and destroyed river bridges. A schematic plan of the action by the road-engineering company is illustrated in a diagram. It is shown that the company commander tackled his assignment by steps, dividing the entire route into five sections. The reconnaissance unit was organized into a forward patrol, conveyed by an amphibious truck, with a commander, an engineering scout, a chemical scout, and a communications technician on board. It was followed by a ZIL-157 truck with a mining-engineering team equipped with mine detection and demolition devices and road signals. In a GAZ-63 truck the road engineer carried explosives for clearing the passage and setting up signs indicating the road cleared through the mine fields. A team with fording equipment and bridging structures brought up the rear of the patrol column. The selection of crossing site and type of bridging used by the

Card 1/2

ACC NR: AP6036153

engineering company as well as recommendations for the design of the heavier structures for advancing troops are described.

SUB CODE: 15, 13/ SUBM DATE: none

Card 2/2

YEFIMOCHKIN, P.M.; ROZENBERG, S.B.

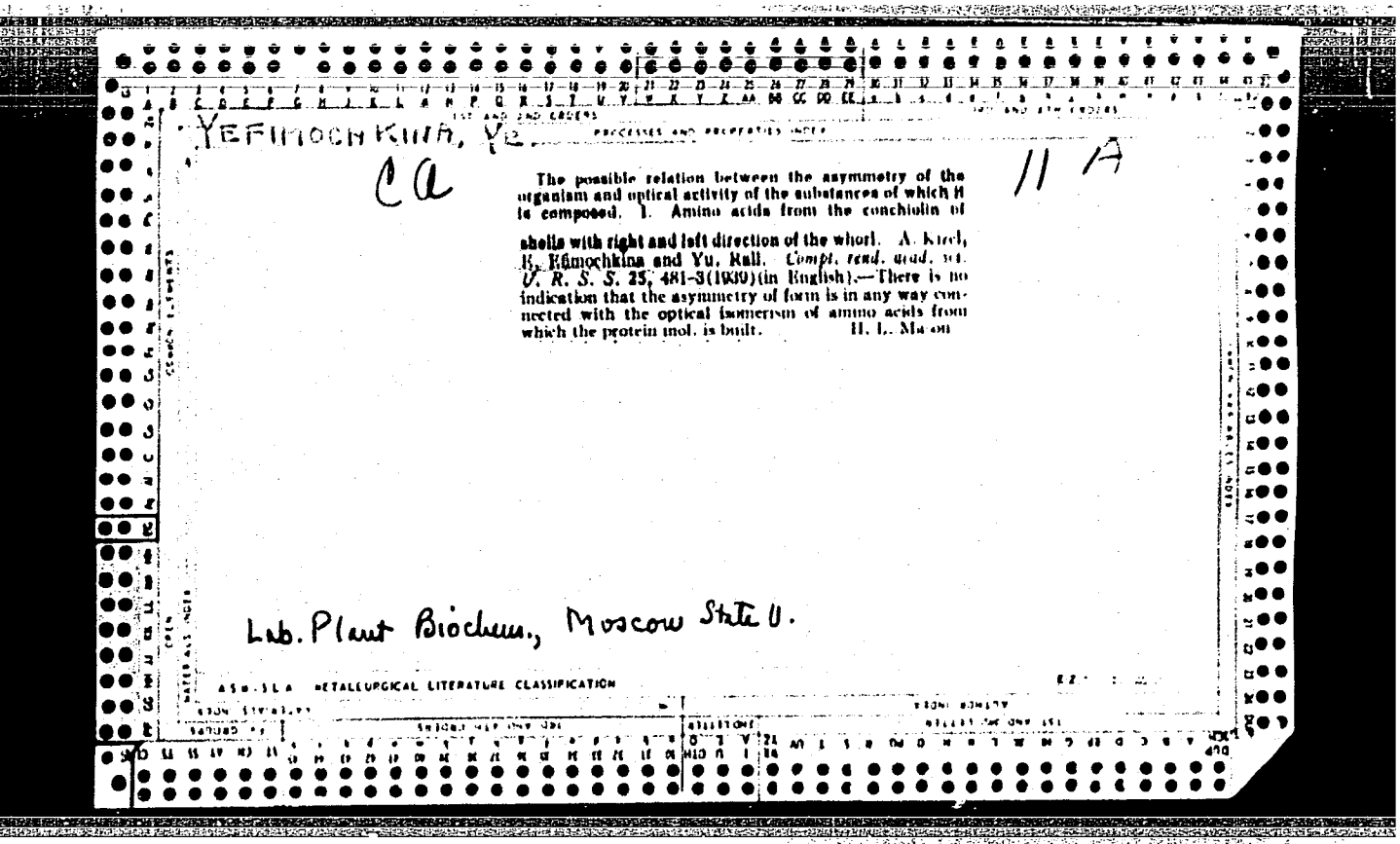
[For early achievement of the planned production; work experience of the "Trudovskaia" Mine no. 5-bis of the Stalinugol' Combine] Za dosrochnoe osvoenie proektnoi moshnosti; opyt raboty shakhty No. 5-bis "Trudovskaia" kombinata Stalinugol'. Moskva, Ugletekhizdat, 1953. 26 p. (MLRA 7:1)

1. Nachal'nik shakhty No. 5-bis "Trudovskaya" (for Yefimochkin). 2. Starshiy nauchnyy sotrudnik DonUGI (for Rozenberg).

(Donets basin--Coal mines and mining) (Coal mines and mining--Donets basin)

YEFIMOCHKINA, Yevgeniya Petrovna; KOZHEVNIKOV, Naum Iosifovich; GONOROVSKIY, I.S., retsenzent; MIKHEYEVA, Ye.A., retsenzent; GAVRILOVA, T.M., red.

[Problems in the theory of probability] Zadachi po teorii veroiatnostei. Moskva, Mosk. aviatsionnyi in-t im. Sergo Ordzhonikidze, 1963. 96 p. (MIRA 17:7)



YEFIMOCHKINA, Ye.

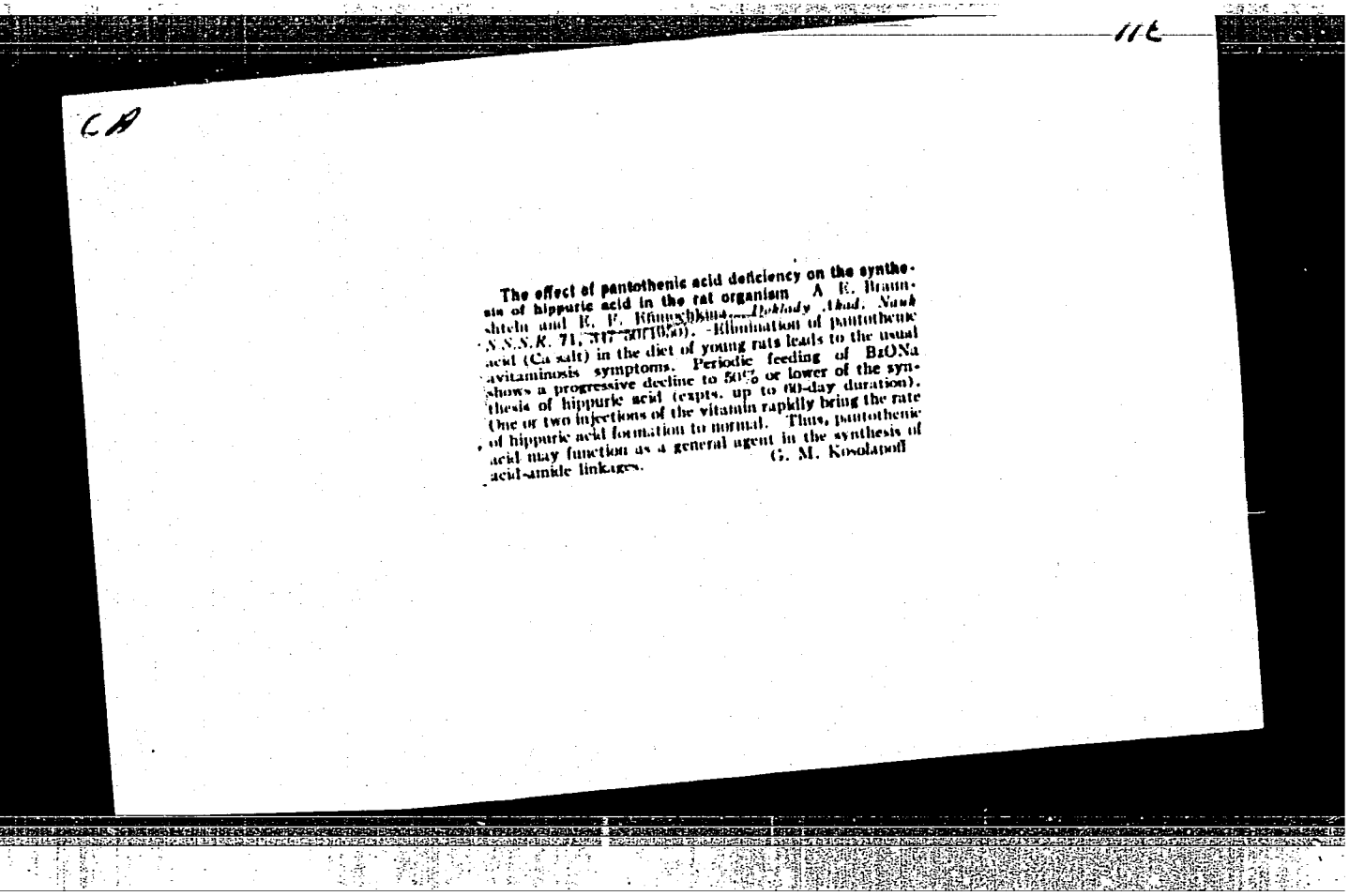
CA

11 A

The possible relation between the asymmetry of the organism and optical activity of the substances of which it is composed. I. Amino acids from the conchiolin of shells with right and left direction of the whorl. A. Kizel, E. Kämochkina and Yu. Kull. *Compt. rend. acad. sci. U. R. S. S.* 25, 481-3(1939)(in English).—There is no indication that the asymmetry of form is in any way connected with the optical isomerism of amino acids from which the protein mol. is built. H. L. Mason

Lab. Plant Biochem., Moscow State U.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



11E

CA

The effect of pantothenic acid deficiency on the synthesis of hippuric acid in the rat organism. A. E. Braunshtein and E. F. Rimarchuk. *Doklady Akad. Nauk S.S.S.R.* 71, 317–20(1950). Elimination of pantothenic acid (Ca salt) in the diet of young rats leads to the usual avitaminosis symptoms. Periodic feeding of BzONa shows a progressive decline to 50% or lower of the synthesis of hippuric acid (expts. up to 60-day duration). One or two injections of the vitamin rapidly bring the rate of hippuric acid formation to normal. Thus, pantothenic acid may function as a general agent in the synthesis of acid-amide linkages. G. M. Kosolapoff

USSR/Chemistry - Biochemistry 21 Sep 51

"The Influence of Pantothenic Acid Deficiency on the Synthesis of Hippuric Acids in Homogenized Tissues of Rat Livers," E. F. Efimochkina, Inst of Biol and Med Chem, Acad Med Sci USSR

"Dok Ak Nauk SSSR" Vol LXXX, No 3, pp 405-408

The hippuric acid yield from livers of rats fed on diets contg PA (pantothenic acid) is about 7 micro - M per g of tissue, but in PA deficient rats, the yield is very low. When fumaric acid is added as a cofactor, the synthesis of hippuric acid is increased. In PA deficient rats the addn

210T36

USSR/Chemistry - Biochemistry (Contd) 21 Sep 51

of either ATP or cofactors (fumaric acid + cytochrome S + cozymase) alone does not raise the yield but when added together, there is a significant increase. The synthesis of para-aminohippuric acid is similarly effected. The inorg and labile phosphate content in living rat livers is practically the same for control and PA deficient rats. The decrease in hippuric acid synthesis in PA deficient rats is explained not by a drop in ATP, but with the decreased intensity of aerobic resynthesis in the homogenate contg the high energy bonds of ATP.

210T36

EFIMOCHKINA, E.

CH

11F

Biological synthesis of 4,4'-diaminoörnithuric acid and 4,4'-diaminolysuric acid. E. F. Rfimochkina. *Doklady Akad. Nauk S.S.S.R.* 80, 709-[illegible]. Chicks were fed *p*-aminobenzoic acid along with gelatin (lowest feeding as a source of ornithine; extn. of the feces with hot 70% KtOH gave solns. suitable for detn. of free and bound *p*-aminobenzoic acid eliminated in this manner (analysis done spectroscopically on diazo coupling product with 8-hydroxyquinoline). Chicks and pigeons produce *in vivo* some 60% bound *p*-aminobenzoic acid, partly probably the *N*-Ac deriv., the rest (estd. by chromatography) appears to be 4,4'-diaminoörnithuric acid. *In vitro* none of the pigeon tissues were able to form this substance from the components, but chick kidney tissue yielded small amts. If instead of ornithine the 2nd component supplied is proline (DL form) or L-glutamic acid, no synthesis of the ornithuric acid is observed. However, coupling products with L-arginine, DL-citrulline, δ-benzoyl-DL-ornithine and DL-lysine do form readily; the former products react as precursors of ornithine, but lysine forms α,ε-bis(aminobenzoyl)-lysine (4,4'-diaminolysuric acid), confirmed by chromatographic tests (to be reported later). This synthesis occurs most satisfactorily *in vitro* in chick kidney slices.

G. M. Kosolapoff

YEFIMOCHKINA, Ye.F. (Moskva)

Role of Russian scientists in developing the problem of enzymatic synthesis of proteins. Vop.med.khim. 4:26-46 '52. (MIRA 11:4)
(PROTEIN METABOLISM) (ENZYMES)

The nature of rapid-adaptation changes in the activity of the tryptophan-peroxidase system in the liver of animals. E. P. Efimochkina (Inst. Biol. and Med. Chem., Acad. Med. Sci. U.S.S.R., Moscow). *Biokhimiya* 19, 65–79 (1954).—When tryptophan was fed to rats with their food, a heightened activity of the tryptophan-peroxidase system (I) was observed after 5–6 hrs. Intraperitoneal injection of tryptophan caused a 5–8-fold increase in the activity of I within one hr. Hunger reduced and administration of casein increased the activity of I in the liver. No increase in its activity was observed upon the administration of indoleacetic acid or of phenylalanine. A rapid increase in I took place in incubated liver sections in the presence of L-tryptophan. In liver exts. the activity of I under similar conditions did not increase, and the oxidation of tryptophan proceeded steadily at the normal rate. In the absence of I in the exts. and sections of the liver, rapid deactivation of I occurred; upon the addn. of tryptophan to such liver exts. an increase in the secondary activity of I took place; in the case of liver exts. deactivation of I was nonreversible. The exptl. evidence proved insufficient for a detn. of the mechanism of the rapid-adaptation rise in the activity of I. It cannot be ascribed to the appearance in the system of low-mol. thermostabile activators (Knox and Mehler, *C.A.* 45, 5793*h*; 46, 8160*e*). B. S. Levine

– Nitrogen Exchange Chem. Lab.,

Full translation in /M.

YEFIMOCHKINA, Ye.F.; POZNANSKAYA, A.A.

Biological synthesis of purine and pyrimidine substances and mononucleotides. Vop.med.khim. 3 no.4:243-254 Jl-Ag '57.
(MIRA 10:11)

1. Laboratoriya obmena azotistykh soyedineniy Instituta biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR, Moskva.
(PURINES, metabolism,
biosynthesis, review (Rus))
(PYRIMIDINES, metabolism,
same)
(NUCLEOSIDES AND NUCLEOTIDES, metabolism,
mononucleotides, biosynthesis, review (Rus))

YEFIMOCHKINA, Ye.F.

YEFIMOCHKINA, Ye.F.; OTTESEN, B.V.; ALEKSYEV, I.V.; BICHIN, L.P.

Studies on the metabolism of ammonium citrate, glycine and DL-glutamic acid labeled with N^{15} in rats under normal conditions and in vitamin B^6 deficiency [with summary in English]. Vop.med. khim. 3 no.6:440-450 N-D '57. (MIRA 11:2)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva
(CITRATES, metabolism,
ammonium citrate, labeled with radionitrogen, in normal & vitamin B^6 defic. rats (Rus))
(GLYCINE, metabolism,
in normal & vitamin B^6 defic. rats, radionitrogen labeled (Rus))
(GLUTAMATES, metabolism,
DL-glutamic acid, labeled with radionitrogen, in normal & vitamin B^6 defic.rats)
(VITAMIN B6 DEFICIENCY, experimental,
ammonium citrate, glycine & DL-glutamic acid labeled with radionitrogen metab. (Rus))

YEFIMOCHKINA, Ye.F.

Combined method for recovering amino acids from small quantities of hydrolyzed protein [with summary in English]. Vop.med.khim.4 no.4:309-314 Jl-Ag '58. (MIRA 12:2)

1. Laboratory of Nitrogenous Metabolism, Institute of Biological and Medical Chemistry Academy of Medical Sciences of the U.S.S.R., Moscow.

(AMINO ACIDS, determination,
in small quantities of protein hydrolysates (Rus))

YEFIMOCHKINA, Ye.F.

Deamination of l-amino acids and glycine in liver and kidney tissues of birds [with summary in English]. Biokhimiia 23 no.5:683-688 S-O '58 (MIRA 11:11)

1. Laboratoriya obmena azotistykh soyedineniy Instituta biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR, Moskva.
(GLYCINE, metab.
kidneys & liver, deamination in birds (Rus))
(KIDNEYS, metab.
l-amino acids & glycine deamination in birds (Rus))
(LIVER, metab.
same (Rus))
(AMINO ACIDS, metab.
kidneys & liver, deamination of l-amino acids in birds (Rus))

YEFIMOCHKINA, Ye.F.

Pathways of native amino acid deamination in liver and kidney tissues of birds [with summary in English]. Biokhimiia 24 no.1:53-62 Ja-F '59. (MIRA 12:4)

1. Laboratory of Nitrogen Metabolism, Institute of Biological and Medical Chemistry, Academy of Medical Sciences of the U.S.S.R., Moscow.

(KIDNEYS, metab.
deamination of natural amino acids in birds (Rus))
(LIVER, metab.
same)
(AMINO ACIDS, metab.
deamination of natural amino acids in liver & kidneys in birds (Rus))

YEFIMOCHKINA, Ye.F.

Synthesis of adenylic acid from inosinic acid in muscle tissue extracts. Biokhimiia 25 no.4:607-616 Jl-Ag '60. (MIRA 13:11)

1. Laboratory of Nitrogen Metabolism, Institute of Biological and Medical Chemistry, Academy of Medical Sciences of the U.S.S.R., Moscow.
(MUSCLE) (ADENYLIC ACID) (INOSINIC ACID)

YEFIMOCHKINA, YE. P. (USSR)

"Formationof Adenylsuccinic Acid by Pigeon Muscle Extracts."

Report presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-16 Aug 1961

ARTEM'YEV, Fedor Andreyevich; KHMELEV, N.S., redaktor; VINOGRADOV, N.A., redaktor; ZHUKOV, G.I., redaktor; YEFIMOCHKIN, V.P., redaktor; YEVDOKIMOVA, Z.N., tekhnicheskiy redaktor.

[Periods of work and rest] Rabochee vremia i vremia otdykha. Moskva, Gos.izd-vo meditsinskoi lit-ry, 1955. 47 p. (Bibilioteka vrache-organizatora. Lektsii po organizatsii zdravookhraneniia dlia vrachei. Zakonodatel'stvo po upravleniiu zdravookhraneniem i trudu meditsinskikh rabotnikov, lektsiia 3) (MLRA 8:11)
(Hours of labor)

YEFIMOCHKIN, V.P.

ARTEM'YEV, F.A.; KHMELEV, N.S., redaktor; VINOGRADOV, N.A., redaktor. ZHUKOV, G.I., redaktor; YEFIMOCHKIN, V.P., redaktor; YEVDOKIMOVA, Z.N., tekhnicheskiy redaktor.

[Wages, guarantees and compensations] Oplata truda, garantii i kompensatsii. Moskva, Gos.izd-vo med.lit-ry, 1955. 86 p. (Biblioteka vracha-organizatora. Lektsii po organizatsii zdravookhraneniia dlia vrachei. Zakonodatel'stvo po upravleniiu zdravookhraneniem i trudy meditsinskikh rabotnikov, lektsiia 4)
(Wages) (MLRA 8:11)

YEFIMOCHKIN, VALERIY PETROVICH

SBORNIK OSNOVNYKH I OSOBYKH USLOVIY POSTAVKI (COLLECTION OF BASIC AND SPECIAL SPECIFICATIONS FOR SUPPLIES) MOSKVA, GOSYURIZDAT, 1956-

V.TABLES.

LIB. HAS VYP. I (19560

YEFIMOVSKIKH, YE. P.

"History of the Development of Probability Theory in Russia in the 19th Century." Cand Phys-Math Sci, Moscow Oblast Pedagogical Inst, Min Education RSFSR, Moscow, 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 ug 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

BARUZDIN, V.I.; YEFIMOCHKINA, Ye.P.; KOZHEVNIKOV, N.I.; SHAFALOVICH, A.F., red.; CHISTYAKOVA, K.P., tekhn.red.

[Collection of problems on the probability theory] Zadachnik po teorii veroiatnostei. Moskva, Mosk.aviatsionnyi in-t, 1959. 46 p. (MIRA 13:9)

(Probabilities--Problems, exercises, etc.)

YEFIMOCHKINA, Yevgeniya Petrovna; DOBRUSHIN, R.L., doktor fiz.-mat. nauk, retsenzent; MOISEYENKO, Ye.V., red.

[Elements of the theory of random processes] Elementy teorii sluchainykh protsessov. Moskva, Mosk. aviatsionnyi in-t im. Sergo Ordzhonikidze, 1962. 37 p. (MIRA 17:4)

BERRI, L.; YEFIMOV, A.

Urgent problems in planning production specialization in machinery manufacturing. Vop. ekon. no.9:24-38 S '58. (MIRA 11:10)
(Machinery industry)

Battelle Technical Review
July 1954
Chemical Engineering

1/

(3)

9232* Some Laboratory Test Results of Preparation No. 1. (Substitute for Copper Sulfate.) (Russian.) A. Efimov, V. Orshanskaia, and N. Sokolova. *Dostizhenila Nauki i Peredovogo Opyta v Selskom Khoziaistve*, 1954, no. 1, Jan., p. 78-81.
Experimental procedure. Photographs.

10-12-54
mrd

YEFIMOV, A.

USSR/ Miscellaneous - Electric welding

Card 1/1 : Pub. 89 - 21/28

Authors : Efimov, A.

Title : Welding instead of soldering

Periodical : Radio 1, 47-48, Jan 1954

Abstract : The application of electric welding in radio-amateur work is discussed and explained. Drawings.

Institution: .....

Submitted: .....

USSR/Radio, Amateur Jan 48
Radio Broadcasting

"On the 14 Meter Band," A. Yefimov, 1 p

"Radio" No 1

State recently authorized radio amateurs to use the 14-meter band. Briefly describes activity on this band, and identifies stations using it most frequently.

[redacted] 3/49T98

YEFIMOV, A., kandidat tekhnicheskikh nauk.

Television today and tomorrow. Znan.-sila no.2:7-13 F '55.
(Television) (MLRA 8:3)

SOV/106-58-7-13/18

AUTHOR: Yefimov, A.

TITLE: A propos A.K. Oksman's Letter (Po povodu pis'ma A.K. Oksmana)

PERIODICAL: Elektrosvyaz', 1958, Nr 7, pp 70 - 71 (USSR)

ABSTRACT: With regard to A.K. Oksman's first point, A.Yefimov reports that during the course of the experiments, the observer preferred to take up a position not at the point where the line structure disappeared but at a point where the entire image occupied the most sensitive portion of the retina. As regards the second point, Yefimov admits that this aspect becomes a serious problem in the case of rural television where transmission may take place between regions having unsynchronized supplies. It is also mentioned that the results described were obtained under the author's guidance at the Tsentr tekhnicheskogo radiokontrolya ministerstva svyazi SSSR (Technical Radio-control Centre of the Ministry of Communications, USSR).

1. Television receivers--Performance

Card 1/1

YEFIMOV, A.

Green light to the new method. Zashch.rast.ot vred.i bol. 7 no.5:19 My '62. (MIRA 15:11)

1. Glavnyy inzh. oporno-pokazatel'nogo kolkhoza imeni Lenina, Demidovskiy rayon, Smolenskoy oblasti.
(Spraying and dusting in agriculture)

YEFIMOV, A.

Dairy Products

Let's raise the output of high quality canned milk products, Mol. prom, 13, No. 3, 1952.

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

YEFIMOV, A.

Hidden resources in the meat industry. Mias.ind.SSSR. 25 no.4: 43-44 '54. (MLRA 7:8)

1. Leningradskiy myasokombinat.
(Meat industry)

YEFIMOV, A.; TERAUD, V.; DUBROVIN, L.

Shortcomings in the method of calculating the cost of products.
Mias. ind. SSSR 29 no. 4:42-44 '58. (MIRA 11:8)

1. Leningradskiy myasokombinat.
(Packing-house products--Costs)

YEFIMOV, A.

27-11-19/31

AUTHOR: Yefimov, A., and Dolgopolova, Ye.

TITLE: The FZU Schools to the Foodstuffs Industry (Shkoly FZU promyshlennosti prodovol'stvennykh tovarov)

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, 1957, # 11, p 27 (USSR)

ABSTRACT: The basic source for training qualified workmen are the educational institutions of the Labor Reserves, except for some branches of industry where the training is supplied by the FZU schools (Fabrichno-zavodskoye uchenichestvo- Industrial Training) where every year about 10,000 young workmen of various food specialities are trained. Thus, 25 to 50 % of the laborers in the bread and confectionery factories are former pupils of FZU schools. Many FZU school graduates of the Uzbekkonserv-trest occupy positions of acting technologists, acting chemists and instructors of practical training. The article mentions two men who have distinguished themselves, one working in the Pervukhin Sugar Plant (Pervukhinskiy sakharnyy zavod) and the other in the Kupyansk Sugar Plant (Kupyanskiy sakharnyy zavod). At a conference of the FZU school directors attached to the food industry, it was proved that during the last few years the instructional-pedagogical work at these schools has con-

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YEFIMOV, A.

Developing interbranch relations in industry during the process of transition to communism. Vop. ekon. no.12:26-37 D '61.
(MIRA 14:11)
(Industrial organization)

YEFIMOV, A.

Introducing mathematical methods into economic research. Tekh. mol. 29 no.9:2 '61. (MIRA 14:10)

1. Direktor Nauchno-issledovatel'skogo instituta Gosekonomsoveta SSSR.

(Economic research) (Matematical statistics)

YEFIMOV, A.

Comprehensive use of chemistry and the problems of the proportional development of the national economy. Vop. ekon. no.1:3-12 Ja '64. (MIRA 17:3)

L 44337-66 EWT(d)/EWT(m)/EWP(h)

ACC NR: AN6012087 (N) SOURCE CODE: UR/9008/66/000/099/0002/0002

AUTHOR: Yefimov, A. (Lieutenant general, Twice hero of the Soviet Union, Military pilot first class); Shindler, V. (Colonel, Military navigator first class)

ORG: none

57

TITLE: You are taken off the active list? Then you shall be an aircraft controller

SOURCE: Krasnaya zvezda, 28 Apr 66, p. 2, col. 1-3

B

TOPIC TAGS: airforce personnel, aircraft, fighter aircraft, airborne radar

ABSTRACT: Enormous flying speeds have proportionately increased the space covered during air combat. A pilot must therefore be always ready to assume the initiative in combat, but because a modern airplane is a collective instrument he cannot fulfill his assignment alone. From takeoff to the instant the target is sighted on the airborne radar screen, the skill and training of the aircraft controller are of primary importance, because he must indicate to the pilot the course, the speed, and the altitude, and remain informed on flight conditions and the intentions of the enemy. Perfect and flexible guidance of a fighter plane approaching the target is essential. The aircraft controller must therefore be both a specialist and a tactician.

Card 1/3

While the pilot guesses the moves of the enemy from the data shown on his instrument panel, the aircraft controller watches for developments and corrects the instruments. After the target is sighted and the attack has begun, he carefully follows the moves of the target and is always ready to assist the pilot. Guidance by study of the radar screen must not be neglected. An officer aircraft controller simultaneously guiding two interceptors to two different targets happened to overlook the turning of a plane. Receiving no order, the pilot of the plane slowed down and missed his target. If the aircraft controller had consulted his instruments, this would not have happened. Although aircraft controllers are often the best guides for fighter planes in combat, they are, as a rule, selected from among pilots "taken off the active list" for reasons of health. The aircraft controller must learn the dynamics of interceptor flight, but this is far different from tactical flight control and guidance with the assistance of a radar screen, a plotting board and other special equipment. Because technological equipment has been replaced to a considerable extent, aircraft controllers need a solid theoretical and technical background. But command points are all on permanent duty and are widely scattered, and, men cannot assemble easily. The system of selection of aircraft controllers should be improved and organization of their training should be centralized. At present good

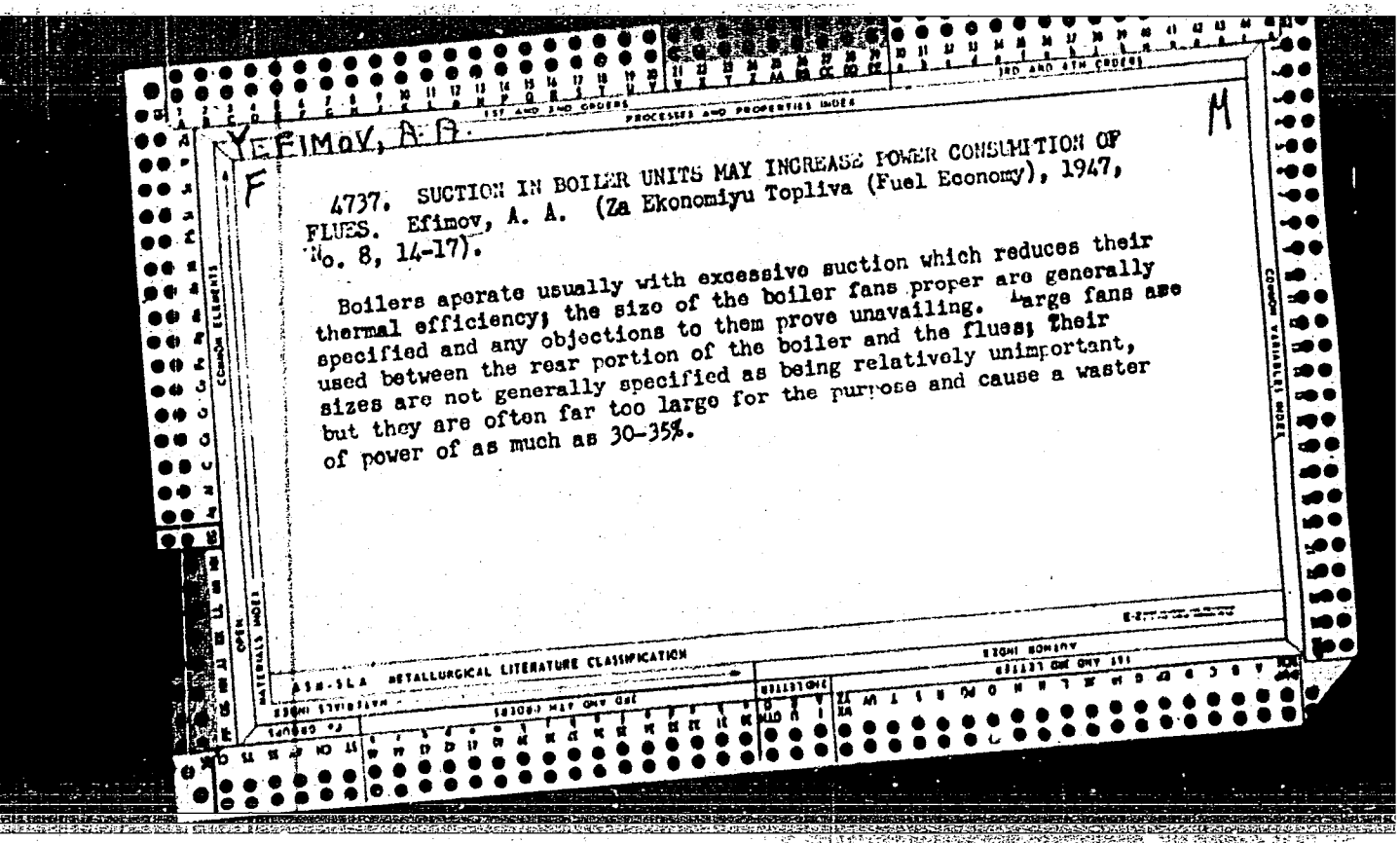
L 44387-66

ACC NR: AN6012087

aircraft controller courses are few. The system in which two days of rest follow one day of duty is not efficient. Training with the use of combat aircraft leads to premature deterioration of costly equipment. A special, commercially built plane should be used to train aircraft controllers. [GC]

SUB CODE: 05, 15/ SUBM DATE: none

Card 3/3 ozh



YEFIMOV, A. A.

F

4737. SUCTION IN BOILER UNITS MAY INCREASE POWER CONSUMPTION OF FLUES. Efimov, A. A. (Za Ekonomiyu Topliva (Fuel Economy), 1947, No. 8, 14-17).

Boilers aperate usually with excessive suction which reduces their thermal efficiency; the size of the boiler fans proper are generally specified and any objections to them prove unavailing. Large fans are used between the rear portion of the boiler and the flues; their sizes are not generally specified as being relatively unimportant, but they are often far too large for the purpose and cause a waster of power of as much as 30-35%.

M

YEFIMOV, A.A.

Deduction of Einstein's special theory of relativity from the laws of conservation of energy and momentum. Izv. GAO 24 no.1: 153-164 '64. (MIRA 18:3)

[redacted], A. A.:

[redacted], A. A.: "On laboratory methods of investigating the [redacted] deflection of vertical instruments." Leningrad, 1955. Acad Sci [redacted]. Main Astronomical Observatory. (Dissertation for the Degree of Candidate of Physicomathematical Sciences)

SO: Knizhnaya letopis' No. 44, 29 October 1955. Moscow.

3/058/61/000/008/015/044
A058/A101

AUTHORS: Yefimov, A. A., Otryashenkov, Yu. M., Sukharev, L. A.

TITLE: Photoelectric method for reading the circle of meridian instruments

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1961, 167, abstract 8G106 ("Tr. 14-y astrometr. Konferentsii SSSR, 1958". M.-L., AS USSR, 1960, 165-168. Disc. 168, English summary)

TEXT: A photoelectric micrometer system for limb reading with an accuracy of the order 0.1 μ is described. Images of the limb marking and of the index are projected by means of an optical system onto a slit behind which a photoelectric receiver is set up. The images are displaced along the slit at a uniform rate, e.g. by means of rotation of a plane-parallel plate located in front of the slit. At the instant the marking image passes through the slit there arises a photocurrent pulse which triggers an electronic commutator, while passage of the index image shuts off the commutator. Through the commutator pass pulses from a quartz-stabilized oscillator; these pulses are counted by an electronic scaler. Thus the number of counted pulses is proportional to the time between the passage of the marking and the index, i.e. to the distance

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between them. For measuring the distance between an index and a second marking a second system is used. Measurements on an experimental laboratory set-up demonstrated the feasibility of securing the above mentioned accuracy. It is proposed to use this device for automatic reading of the circle of the Pulkovo meridian instrument.

G. Neugmin

[Abstracter's note: Complete translation]

3.1200

78022
SOV/33-37-1-22/31

AUTHOR: Yefimov, A. A., Ostryashenkov, Yu. M.

TITLE: A Photoelectric Method for Recording Circle Readings of Meridian Instruments

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol 37, Nr 1, pp 146-150 (USSR)

ABSTRACT: The usual methods of reading the circles of meridian instruments with microscopes do not assure sufficient accuracy and are labor consuming. More than one attempt has been made recently to introduce photoelectric devices for this purpose. The authors describe an arrangement which has been introduced experimentally at the Pulkovo Observatory (see Fig. 2). Here, 1 is the lamp illuminating the portion of the circle; 2, a portion of the circle; 3, an objective lens; 4, a thin plate with an engraved index; 5, another lens; 6, a plane-parallel plate which is moved up and down with a cam; 7, a slit; 8, a photocell; 9, a cam which operates the movements of plate 6; and 10, an electronic circuit which receives the

Card 1/3

A Photoelectric Method for Recording Circle Readings of Meridian Instruments

78022
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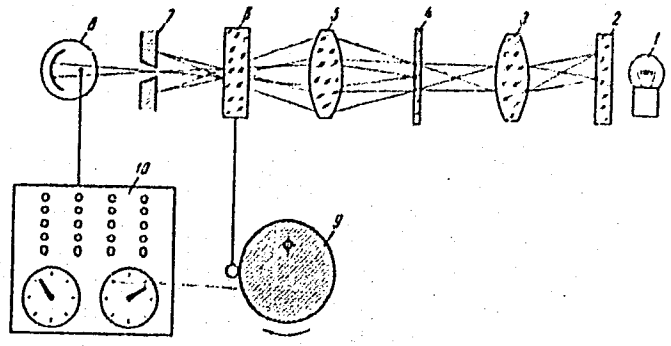

Fig. 2. Optical diagram of the experimental arrangement.

signals of photocell 9. A uniform rotation of the cam will send, alternatively, the images of the divisions of the circle and of the index engraved on plate 4 through the photocell to the electronic circuit. This automatic

Card 2/3

A Photoelectric Method for Recording Circle Readings of Meridian Instruments

78022
SOV/33-37-1-22/31

reading has an error (not exceeding 0.1μ in linear units) which depends only slightly on the quality of the divisions and is caused mainly by imperfections in the mechanical connections. The only drawback is that readings become impossible when the index coincides with a division of the circle. So far, the observatory has installed only one such instrument on the Toepfer Meridian Circle and it will be necessary to construct another one at a point 180° from the first. There are 5 figures; and 2 references, 1 Soviet, 1 German.

ASSOCIATION: Central Astronomical Observatory of the Academy of Sciences of USSR (Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR)

SUBMITTED: July 8, 1959

Card 3/3

YEFIMOV, A.A.; IVANOVA, L.P.

Metasomatic zoning in contacts of Uralian platinum-bearing dunites and pyroxenites. Dokl. AN SSSR 151 no.6:1424-1427 Ag '63. (MIRA 16:10)

1. Ural'skoye geologicheskoye upravleniye. Predstavleno akademikom D.S.Korzhinskim.

YEFIMOV, A.A.

Photoelectric spiral micrometer for limb readings. Astron. zhur. 41 no.3:559 566 My-Je '64. (MIRA 17:6)

1. Glavnaya astronomicheskaya observatoriya AN SSSR.

Yefimov, A.A.

LAPSHIN, N.P.; CHELNOKOVA, L.M., inzhener; YEFIMOV, A.A., nachal'nik lentochno-rovnichnogo tsekha; STERIN, L.I.; RATOV, N.S.; NOVIKOV, N.V.; KABANOVA, Ye.V.; BASHKER, A.F.; KLEYENKINA, L.G.; IVANOV, N.Ye.; YUSHAKOV, A.N., inzhener.

Readers' efficiency suggestions. Tekst.prom.17 no.1:37-43 Ja '57. (MLRA 10:2)

1. Fabrika "Krasnaya Talka (for Chelnokova). 2. Prepodavatel' Morshanskogo tekstil'nogo tekhnikuma (for Sterin). 3. Nachal'nik otdel'nogo tsekha Shuyskoy ob"yedinennoy fabriki (for Ivanov).

(Textile industry)

YEFIMOV, A.A.; KUUSPALU, T.I.

Anorthite gabbro of the Serebryanskyy Kamen' and the related copper mineralization. Dokl.AN SSSR 145 no.1:181-184 Jl '62. (MIRA 15:7)

1. Ural'skaya kompleksnaya s"yemochnaya ekspeditsiya, Sverdlovsk. Predstavleno akademikom D.S.Korzhinskim.

(Ural Mountains--Gabbro) (Ural Mountains--Copper ores)

YEFIMOV, A.A.

Contact phenomena in the formation of "kytlymites" in the Kytlym platinum-bearing massif. Mat.po geol.i pol.iskop.Urala no.10: 117-146 '62. (MIRA 16:2)
(Kytlym region—Rocks) (Kytlym region—Platinium)

YEFIMOV, A.A.

Basic migmatites (kytlymites) of the Kytlym platinum-bearing massif. Sov.geol. 6 no.2:45-57 F '63. (MIRA 16:4)

1. Ural'skoye geologicheskoye upravleniye.
(Kytlym region—Migmatites)

YEFIMOV, A.A.; IVANOVA, L.P.

Some metasomatic phenomena accompanying the formation of pyroxenite veins in dunites. Dokl. AN SSSR 148 no.2:427-430 Ja '63. (MIRA 16:2)

1. Ural'skoye geologicheskoye upravleniye. Predstavleno akademikom D.S. Korzhinskim.
(Denezhkin Kamen'—Pyroxenite) (Denezhkin Kamen'—Dunite)
(Metabolism)

YEFIMOV, A.A.

New principles for the development of a physical theory. Izv.GAO 23 no.2:118-151 '63.

Experimental verification of the postulate on the independence of the velocity of light from the motion of the emission source. Ibid.:152-158 (MIRA 16:12)

ACCESSION NR: AP4040848 S/0033/64/041/003/0559/0566

AUTHOR: Yefimov, A. A.

TITLE: Photoelectric spiral micrometer for making circle readings

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 3, 1964, 559-566

TOPIC TAGS: astronomic instrument, geodetic instrument, circle reading automation, circle reading precision, photoelectric spiral micrometer

ABSTRACT: A method is proposed and a device described which make it possible to replace mechanicooptical micrometers currently used with photoelectric spirals (rotating Archimedes spirals) to automate and improve the accuracy of geodetic and astronomic circle readings. A mockup of this device was designed, produced, and tested at the Pulkovo Observatory by the author in cooperation with Yu. M. Otryashenkov and L. L. Voronets. Details of the design and methods of making observations with this instrument are described. The tests run with this instrument showed that its design and the proposed method of observation make it possible to observe ten divisions of

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ACCESSION NR: AP4040848

the circle at one observation, thus improving the reading accuracy by a factor of 2--3 and the period of observation required by a factor of 10. Orig. art. has: 5 figures and 1 formula.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR (Chief Astronomical Observatory, Academy of Sciences, SSSR)

SUBMITTED: 29Jul63 ATD PRESS: 3083 ENCL: 00

SUB CODE: ES, EC NO REF SOV: 001 OTHERS: 000

ACCESSION NR: AT4012207 S/2797/63/023/002/0152/0158

AUTHOR: Yefimov, A. A.

TITLE: Experimental verification of the postulate that the velocity of light is independent of the motion of the radiative source

SOURCE: Pulkovo. Astron. observ. Izvestiya, v. 23, no. 2(173), 1963, 152-158

TOPIC TAGS: absolute velocity, Bonch-Bruyevich experiment, interference, Michelson experiment, relative velocity, unified field theory, light velocity, relativity, relativity theory

ABSTRACT: A new method is proposed which would enable experiments to be conducted under laboratory conditions to test the verity of the postulate that the velocity of light is independent of the motion of the source of radiation. The main point of the method is the comparison of the velocities of two beams of light produced by sources of radiation which move with a differential speed. This comparison could be done by observing the interference patterns. If the velocity of light is simply added to the velocity of motion of the source, significant displacement of the interference bands can be obtained in a reasonably small apparatus. The article points out the deficiencies of previous experiments conducted to prove the postulate. The conclusion is that further experiments are required. Orig. art. has: 2 figures and 2 formulas.

Card 1/2

ACCESSION NR: AT4012207

ASSOCIATION: none

SUBMITTED: 00	DATE ACQ: 27Feb64	ENCL: 00
SUB CODE: GP	NO REF SOV: 001	OTHER: 000

Card 2/2

IVANOVA, L.P.; YEFIMOV, A.A.

Metasomatic zoning in the exocontacts of gabbro-pegmatic veins. Dokl. AN SSSR 158 no.6:1333-1336 O '64. (MIRA 17:12)

1. Ural'skoye geologicheskoye upravleniye. Predstavleno akademikom D.S. Korzhinskim.

YEFIMOV, A.A.; IVANOVA, L.P.

Olivine rocks containing enstatite of the Isovsk dunite body (Kytlym massif, the Northern Urals). Trudy Inst. geol. UFAN SSSR no.70:51-53 '65. (MIRA 18:12)

EFIMOV, A.D.

1. EFIMOV A.D., BARKAN D.D., GUTSALENKO I.S.

2. USSR (600)

4. Vibration

7. Use of vibration in construction of foundations for buildings, Latv.PSR Zin.Akad.Vestis no.6, 1951.

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

YEFIMOV, A.D., inzhener; PAVLOV, V.I., inzhener; CHURENKOV, A.V., tekhnik; SERGEICH, V.I., tekhnik; TSARENKOVA, B.S., motoristka.

Autoclave porous-concrete building products from waste cinder. Rats.i izobr.predl.v stroi. no.55:18-19 '53. (MLRA 7:3)
(Cinder blocks)

Yefimov, A.D.

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5324

Author: Goryaynov, K. E., Yefimov, A. D., Avrutin, M. A., Yakub, I. A.

Institution: None

Title: Gas Concrete Based on Entrainment Ash of Leningrad Heat and Power Stations

Original Publication: Novaya tekhn. i peredov. opyt v str-ve, 1956, No 6, 11-14

Abstract: It was found that on the basis of entrainment-ash of Leningrad electric power stations it is possible to produce gas concrete with a volumetric weight of 820-950 kg/m^3 and a compression strength of 80-100 kg/cm^2. Expenditure of Portland cement is of 160-230 kg/m^3, that of aluminum powder 200-300 g/m^3. There is described the technology of production of large gas concrete wall blocks, the manufacture of which is being set up at the Leningrad plant of Trust No 20.

Card 1/1

YEFIMOV, A.D.

Creative cooperation. Biul tekh. inform. 3 no.10:37-38 O '57.
(MIRA 10:12)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR, zamestitel' nachal'nika Glavleningradstroya.
(Construction industry)

YEFIMOV, A.D.

VASIL'KOVSKIY, S.V.; YEFIMOV, A.D.; KUSKOV, I.N., arkhitektor; SIZOV, A.A., inzh.

Plans for an experimental large-panel apartment house with lightweight structural components. Biul. tekh. inform. 3 no.12:3-9 D '57. (MIRA 11:1)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury (for Vasil'kovskiy, Yefimov).
(Apartment houses) (Architecture--Designs and plans)

YEFIMOV, A.D.

Second International Conference on Reinforced Concrete Shell Roofs.
Biul. tekh. inform. 4 no.1:20-22 Ja '58. (MIRA 11:2)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury.
(Oslo--Roofs, Shell--Congresses)

YEFIMOV, A.D.

GOBYAYNOV, K.M., doktor tekhn. nauk; YEFIMOV, A.D.; VOLCHEK, I.Z., kand. tekhn. nauk; AVRUTIN, M.L., inzh.; LIZOGUB, A.A., inzh.; ZASHDATELEV, I.B., inzh.

Large wall blocks made of autoclave hardened lightweight concrete. Biul. tekh. inform. 4 no.2:1-5 F '58. (MIRA 11:3)

1. Chlen-korrespondent Akademii stroitel'stva arkhitektury (for Yefimov).

(Concrete blocks) (Lightweight concrete)

MOROZOV, A.P.; YEFIMOV, A.D.

Prospects for using precast reinforced concrete spatial elements in building roofs for industrial and public buildings. Biul. tekh. inform. 4 no. 6:3-6 Je '58. (MIRA 11:7)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury(for Morozov). 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury (for Yefimov).

(Roofing, Concrete)

MOROZOV, A.P.; YEFIMOV, A.D.

Spatial and suspended structural solutions in pavilions of the Brussels World Fair in 1958. Biul. tekhn. inform. 4 no.9:29-32 S '58. (MIRA 11:10)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury (for Morozov). 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury (for Yefimov).
(Brussels--Pavilions) (Precast concrete construction)

GORYAYNOV, K.E., doktor tekhn.nauk; YEFIMOV, A.D.; VOLCHEK, I.Z.; AVRUTIN, M.L.; ZASEDATELEV, I.B.; NECHAYEV, G.A., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Large aerated-cement wall blocks; practices of the Main Administration for Housing and Public Construction in the city of Leningrad] Krupnye gazobetonnye stenovye bloki; iz opyta Glavleningradstroia. Pod red. K.E.Goriainova. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1959. 102 p. (MIRA 13:1)
(Leningrad--Building blocks) (Lightweight concrete)

YEFIMOV, A.D.

Experimental housing construction in Leningrad. Biul.tekh.inform. 5 no.1:3-5 Ja '59. (MIRA 12:4)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(Leningrad--Apartment houses)

KLYACHKO, A.L., inzh.; ODINOV, M.I., inzh.; GLUKHOVSKIY, K.A., kand. tekhn. nauk, inzh., red.; GVOZDEV, A.A., doktor tekhn. nauk, prof., red.; GORENSHTEYN, B.V., kand. tekhn. nauk, red.; KOSTYUKOVSKIY, M.G., kand. tekhn. nauk, red.; KRYLOV, N.A., doktor tekhn. nauk, red.; KUREK, N.M., kand. tekhn. nauk, red.; LEVINSKIY, L.G., inzh., red.; LOBANOV, N.D., inzh., red.; MOROZOV, A.P., inzh., red.; ONIASHVILI, O.D., doktor tekhn. nauk, prof., red.; SAKHNOVSKIY, K.V., doktor tekhn. nauk, prof., red.; FILIN, A.P., doktor tekhn. nauk, prof., red.; YEFIMOV, A.D., inzh., nauchn. red.

[Three-dimensional structural elements in the U.S.S.R.; materials of the All-Union Conference on Precast Reinforced Concrete Three-Dimensional Elements held in November 13-17, 1962 in Leningrad] Prostranstvennye konstruktsii v SSSR; po materialam pervogo Vsesoiuznogo soveshchaniia po sbornym zhelezobetonnym prostranstvennym konstruktsiiam, sostoiavshegosia 13-17 noiabria 1962 g. v Leningrade. Leningrad, Stroiizdat, 1964. 461 p. (MIRA 17:11)

1. Nauchno-tekhnicheskoye obshchestvo stroitel'noy industrii SSSR. Leningradskoye otdeleniye.

PA - 2895

AUTHOR: YEFIMOV,A.F.

TITLE: The Evaluation of the Stability Modulus of the Functions of the Class $\tilde{H}_2^1$. (Otsenka modulya nepreryvnosti funktsiy klassa $\tilde{H}_2^1$, Russian).

PERIODICAL: Izvestiia Akad. Nauk SSSR, Ser. Mat., 1957, Vol 21, Nr 2, pp 283 - 288 (U.S.S.R.)

Received: 5 / 1957 Reviewed: 6 / 1957

ABSTRACT: The present work asymptotically sets up an accurate equation for the upper limit of the stability modulus of the periodic quasi-smooth functions.

By $\tilde{H}_2^1(M)$ the author here denotes the class of the steady functions $f(x)$ with the period 2π which satisfy the condition $|f(x + h) - 2f(x) + f(x - h)| \leq Mh$ in the case of any x and $h > 0$. For this class the following problem is raised at $M = 1$:

$\omega(h) = \sup_{f \in \tilde{H}_2^1(1)} \omega(h,f)$ is to be found,

where $\omega(h,f)$ denotes the stability modulus of the function $f(x)$.

Several previous works by Soviet authors and some results contained therein are given in short.

Card 1/2

PA - 2895

The Evaluation of the Stability Modulus of the Functions of the Class $\tilde{H}_2^1$.

In the present work a theorem and a lemma is now proved:

Theorem: $\omega(h) = \sup_{f \in \tilde{H}_2^1(1)} \omega(h,f) = \frac{1}{2\ln(\sqrt{2}+1)} h\ln(1/h) + O(h)$

Lemma: If it is assumed that Z is the sub-class of the odd functions of the class $\tilde{H}_2^1$, it applies that

$$\varphi_1(x) = \sup_{f \in Z} |f(x)| = \frac{1}{2\ln(\sqrt{2}+1)} x\ln(1/x) + O(x)$$

(No illustrations or tables).

ASSOCIATION: Not given.
PRESENTED BY: M.A.LAVRENT'EV. Member of the Academy
SUBMITTED: 31.5.1956
AVAILABLE: Library of Congress

Card 2/2

[illegible] ... Artamonova, and A. [illegible] ... 9, No. 6, Ser. Fiz. ... —Anhyd. $Pb(TaO_3)_2$ and $Pb(NbO_3)_2$, obtained by heating Ta_2O_5 and Nb_2O_5 mixed with [illegible] (in 1:1 mol. ratio) at 1200° for 4 hrs., had well-developed crystal structures and were light yellow. Reaction begins below 800°, m.p. exceeds 1200°, volatility at [illegible]° not measurable. Sp. cond. of satd. soln. at [illegible] ... ohm⁻¹ cm.⁻¹ and 0.6 × 10⁻⁶ ohm⁻¹ cm.⁻¹, resp. Solubilities 0.105 mg./l., k = 1.35 × 10⁻[illegible] and 0.025 mg./l., K = 5.0 × 10⁻[illegible], resp. X-ray diffraction with Fe K_α gave the consts. for cubic (face-centered) [illegible] ... resp.

[illegible] Bednarski

YEFIMOV, A.F.

FD-1148

USSR/Chemistry - Inorganic

Card 1/1 Pub. 129-12/23

Author : Yefimov, A. F.; Pchelkin, V. A.; Lapitskiy, A. V.

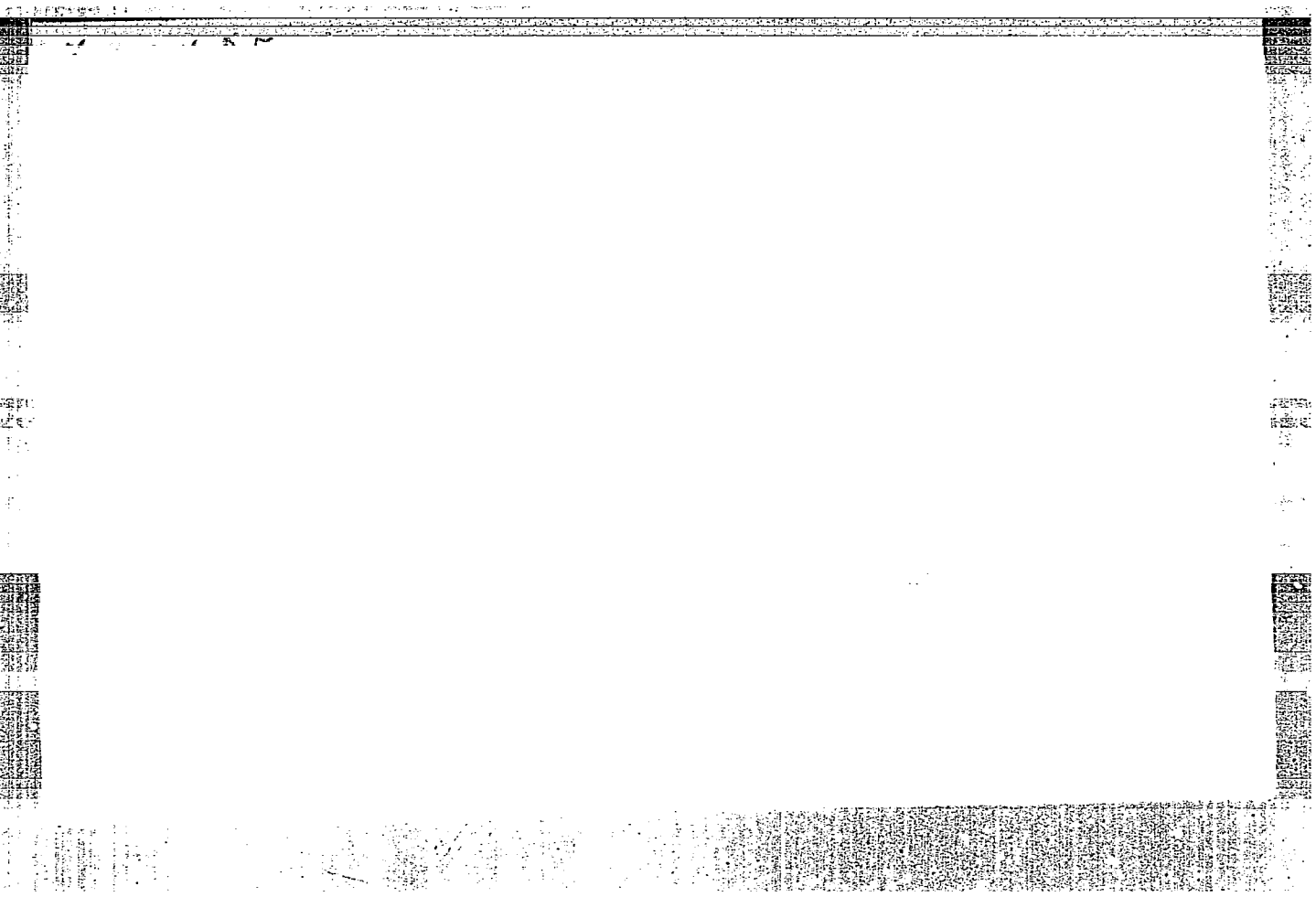
Title : Lead salts of tantalic and niobic acids

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 7, 97-101, Oct 1954

Abstract : Synthesized and determined the composition of the following two compounds: $Pb_7Nb_{12}O_{37}.23H_2O$ and $Pb_8Ta_{12}O_{38}.33H_2O$. Complete dehydration of the two salts takes place at 200 and 500 degrees, respectively. Determined the solubility of the salts at 25 degrees by the tracer atom method. Six references (three USSR).

Institution : Chair of Inorganic Chemistry

Submitted : December 31, 1953



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001962320016-1"

YEFIMOV, A. F.

YEFIMOV, A. F.

USSR/ Chemistry Synthesis methods

Card : 1/1 Pub. 151 - 3/33

Authors : Pchelkin, V. A., Efimov, A. F., and Lapitskiy, A. V.

Title : Niobates and tantalates of alkali-earth metals. Part 1- Metaniobates and metatantalates of Ca, Sr and Ba.

Periodical : Zhur. ob. khim. 24/8, 1284 - 1286, August 1954

Abstract : Various anhydrous Sr and Ba metaniobates and Ca, Sr and Ba-metatantalates were synthesized and their chemical properties investigated. It was established that all synthesized salts as well as the calcium metaniobate were thermally stable and showed no noticeable volatility even in vacuum. The specific electrical conductivity of the saturated solutions of the anhydrous metaniobates and metatantalates of alkali-earth metals, measured at 20°, is shown in table. Five references: 2 USSR, 2 German and 1 USA (1875 - 1954).

Institution : State University, Moscow

Submitted : January 3, 1954

EFIMOV, A F.

USSR/Chemistry

Card 1/1 : Pub. 151 - 4/42

Authors : Pchelkin, V. A.; Efimov, A. F.; and Lapitskiy, A. V.

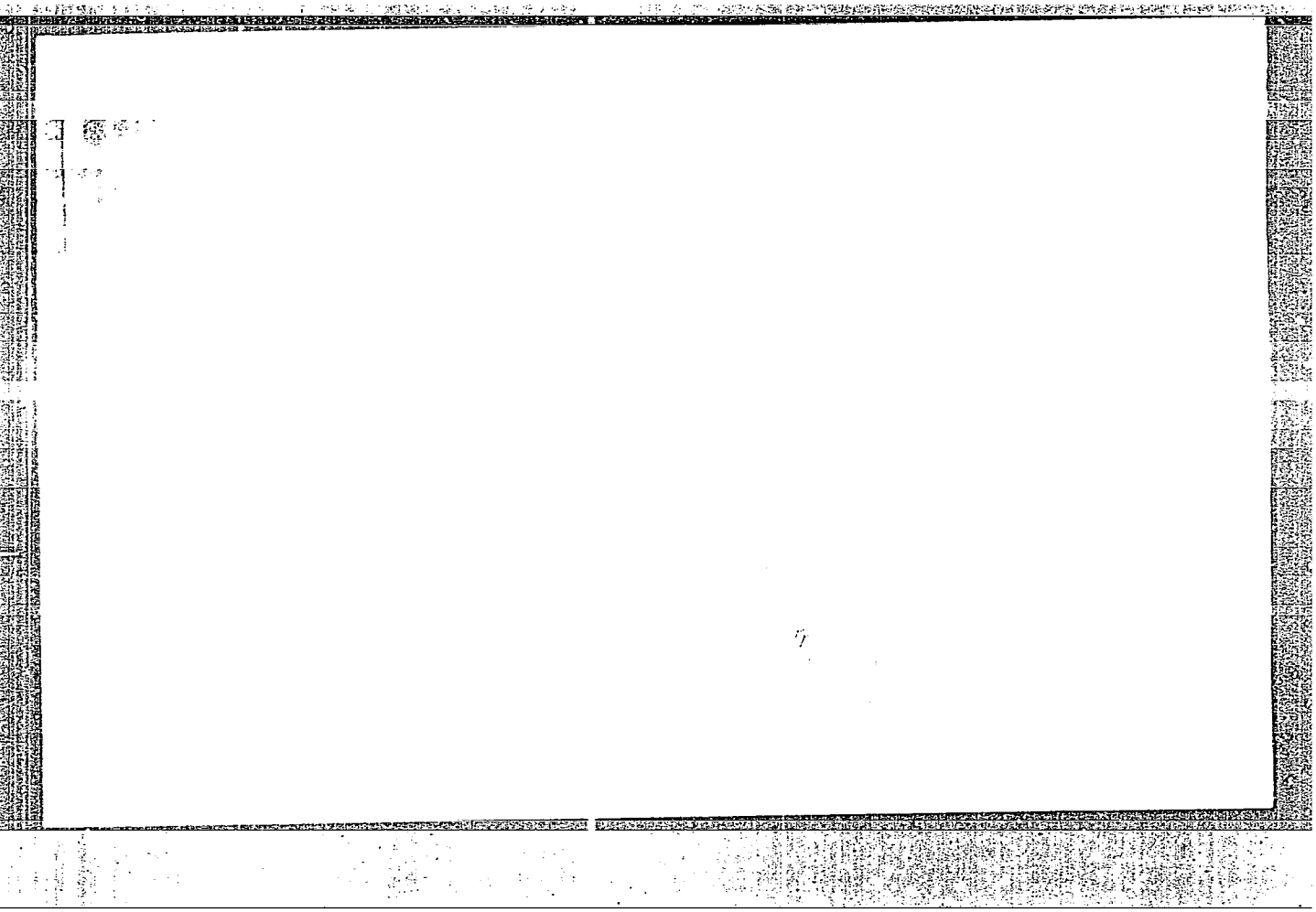
Title : Niobates and tantalates of alkali earth metals. Part 2.-

Periodical : Zhur. ob. khim. 24/9, 1495-1498, Sep 1954

Abstract : The derivation of hitherto unknown hexaniobates and hexatantalates of various types of alkali earth metals is described. The specific electrical conductivity of hexaniobate and hexatantalate solutions saturated at 20° was determined. It was established that the above mentioned salts of alkali earth metals become thermally unstable at temperatures exceeding 400°. Seven references: 3-USSR; 2-USA; 1-German and 1-Indian (1905-1952). Table.

Institution : State University, Moscow

Submitted : January 3, 1954



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001962320016-1"

DAPITSKIY, A.V.; YEFIMOV, A.F.

Study of the solubility of tantalates of alkaline earth metals.
Vest. Mosk.un. 11 no.6:67-71 Je '56. (MLRA 9:11)

1. Moskovskiy universitet, Kafedra neorganicheskoy khimii.
(Tantalates)