S/186/61/003/006/010/011
E040/E185

Separation of protactinium by the

The sample was further purified and the impurities (Na, Mg, Ca, Ba and Fe) were reduced to below 3%. Brief chemical properties and methods of preparation are given of protactinium oxide $PaO_{2.25}$, hydroxide, iodate and phynylarsonate. Acknowledgments are expressed to S. A. Baranov, Yu. F. Rodionov and N. M. Yashin for assistance. There are 11 references: 3 Russian translation from non-Soviet-bloc publications and 8 non-Soviet-bloc. The four most recent English language references read as follows:

Ref. 2: J. Golden, A. G. Maddock, J. Inorg. Nucl. Chem., v. 2, 1, 41 (1956)

Ref. 4: M. I. Salutsky, K. Shaver, A. Elmlinger, M. I. Curtis, J. Inorg. Nucl. Chem., v. 3, 5, 289 (1956)

Ref. 9: K. A. Kraus, G. E. Moore, J. Am. Chem. Soc., v. 77, 5, 1383 (1955)

Ref. 10: A. G. Maddock, W. Pugh, J. Inorg. Nucl. Chem., v. 2, 2, 114 (1956)

SUBMITTED: July 19, 1960

Card 2/2

BARANOV, S.A.; KULAKOV, V.M.; SAMOYLOV, P.S.; TELENKOV, A.G.; RODIONOV, Yu.F.; PIROZHKOV, S.V.

Fine structure of α-radiation from Pa^{231} and energy level scheme of the Ac^{227} nucleus. Zhur. eksp. i teor. fiz. 41 no.5:1475-1483 N '61. (MIRA 14:12)

(Protactinium--Decay)
(Actinium) (Quantum theory)

PIROZHKOV S V

S 056/61/041/006/034/054
B108/B138

24.6300

AUTHORS: Baranov, S. A., Samoylov, P. S., Rodionov, Yu. F., Belen'kiy, S. N., Pirozhkov, S. V.

TITLE: The energy levels of the U^{232} nucleus

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41, no. 6(12), 1961, 1740-1747

TEXT: To clearing contradictions in data on the U^{232} levels the authors studied the decay of Pa^{232}, which was obtained by irradiating Pa^{231} with slow neutrons. The measurements were made with a magnetic double-focusing β-spectrometer and a γ-scintillation spectrometer. Four new gamma transitions with energies 147, 236, 280, and 1150 kev have been discovered. On the basis of the β-spectrum, conversion electron spectrum, and γ-spectrum, certain data on the gamma transitions in U^{232} have been obtained (Table 3). It was not possible, however, to establish a complete level scheme. E0 transitions were found between the levels $0_2^+ \longrightarrow 0_1^+$ and

Card 1/8

S/056/61/041/004/019/[illegible]
B104/B138

The energy levels of the...

$2_1^+ \rightarrow 2_1^+$. The experimental results agree with theoretical [illegible]. Mention is made of A. S. Davydov, G. F. Filippov, V. S. Rostovskiy, and [illegible] ... Chatan, ZhETF, [illegible], 440, 1958; Nucl. Phys. [illegible], 499, [illegible] ... V. [illegible], A. A. Arutyunov, and Yu. A. Dmitriyev are thanked for [illegible]. There are 4 figures, 1 tables, and 11 references: [illegible] Soviet and [illegible] non-Soviet. The two most recent references to English-language publications read as follows: J. Perlman. Proc. Intern. Conf. on Nuclear Structure, Kingston, Canada, 1960, p. 547; S. Bjørnholm et al. Bull. Am. Phys. Soc., 6, 259, 1961.

SUBMITTED: June 21, 1961

Legend to Table 1: (1) energy of the γ-transitions, kev, (2) experiment, (3) theory for, (4) theory, (5) multipolarity of the γ-transition. * theoretical values of the internal conversion coefficients on the K and L shells taken from Ref. 6 (L. A. Sliv, I. M. Band. Tablitsa koeffitsiyentov vnutrenney konversii γ-izlucheniya, part 2, Izd. AN SSSR, and part 1, Izd. AN SSSR, 1956). ** theoretical values of the internal conversion coefficients on the M shells taken from Ref. 7 (M. E. Rose. Internal Conversion Coefficients, Amsterdam, 1958).

Card 2/3

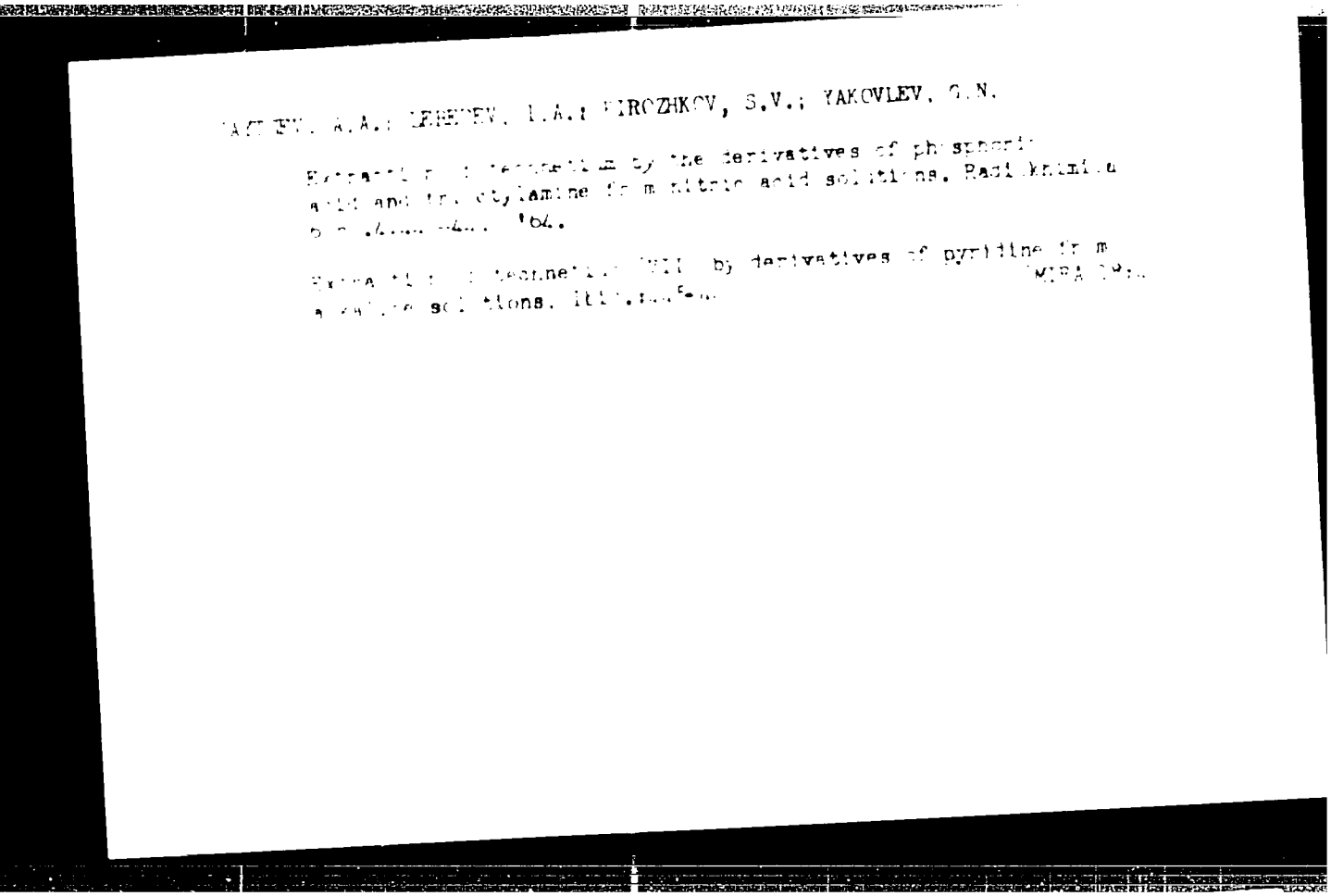
S/186/62/004/003/009/022
E071/E433

AUTHORS: Lebedev, I.A., Pirozhkov, S.V., Razbitnoy, V.M., Yakovlev, G.N.

TITLE: An investigation of the decomposition of americium oxalate under the influence of its own α-radiation

PERIODICAL: Radiokhimiya, v.4, no.3, 1962, 308-312

TEXT: Radiolysis of the oxalate group in solid compounds under the influence of α-radiation has been studied on oxalate of plutonium-239. However, the composition of the gas evolved during the decomposition was not studied. In the present work the authors investigated the decomposition of oxalate of americium-241 by studies of the change in weight of the residue with time, accumulation of carbonate and the amount and composition of gas evolved. It was found that oxalate of trivalent americium on standing is decomposed under the influence of its own α-radiation, passing into carbonate. The decomposition is completed after 15 to 20 days and after 50 to 60 days the composition of the residue corresponds to $Am_2(CO_3)_3 \cdot 5H_2O$. This decomposition is a first order reaction with a velocity



[illegible], A.A.; LEBEDEV, L.A.; PIROZHKOV, S.V.; YAKOVLEV, G.N.

Extraction of zirconium by the derivatives of phosphoric acid and tributylamine from nitric acid solutions. Radiokhimiia [illegible] '64.

Extraction of zirconium with by derivatives of pyridine from nitric acid solutions. Ibid. [illegible]

ZAYTSEV, A.A.; LEBEDEV, I.A.; PIROZHKOV, S.V.; YAKOVLEV, G.N.

Extraction of rhenium and molybdenum with trioctylamine from sulfuric acid solutions. Zhur.neorg.khim. 3 no.1:184-[illegible] (MIRA [illegible]
S [illegible].

LEBEDEV, I. A.; PIROZHKOV, S. V.; RAZRITNOY, V. M.; YAKOVLEV, G. N.

Decomposition of americium oxalate under the action of its own α-radiation. Radiokhimiia 4 no.3:308-312 '62. (MIRA 15:10)

(Americium oxalates) (Alpha rays)

LEBEDEV, I.A.; PIROZHKOV, S.V.; SEMOCHKIN, V.M.; YAKOVLEV, G.N.

Separation of protactinium by the ion exchange method and properties of some protactinium compounds. Radiokhimiia 3 no.6:760-761 '61. (MIRA 14:12)

(Protactinium)
(Ion exchange)

PIROZHENKO, V.Kh.; LINCHEVSKIY, G.V.; NIKOLAYENKO, N.T.

Automatic mine traction substation equipped with semiconductors. Avtom. i prib. no.4:10-13 O-D '63. (MIRA 16:12)

1. Krivorozhskiy gosudarstvennyy institut po proyektirovaniyu oborudovaniya po dobyche i obogashcheniyu rud.

PIROZHKOV, V., mayor

Development of a scientific world outlook during the course of combat training. Voen.vest. 42 no.9:61-66 S '62. (MIRA 15:9)
(Soldiers--Education, Nonmilitary)

PIROSHKOV, V.V. (Tbilisi)

Role of the physicians of the Tiflis Military Hospital in the development of the Georgian health resorts. Vop.kur., fizioter. i lech. fiz. kul't. 27 no.5:445-447 S-O'62. (MIRA 15:9)

(GEORGIA--HEALTH RESORTS, WATERING PLACES, ETC.)

PIROZHKOV, V.V., zasluzhennyy vrach Gruzinskoy SSR (Tbilisi)

Physicians in the memoirs of Decembrists banished to the Caucasus. (MIRA 15:8)
Kaz.med.zhur. no.4:92-94 Jl-Ag '62.
(DECEMBRISTS) (PHYSICIANS)

PIROZHKOV, V.V., zasluzhennyy vrach Gruzinskoy SSR (Tbilisi)

Problems of preventive medicine in the activities of leading physicians in the Caucasus during the 19th century. Gig. i san. 26 no.4:5-49 Ap '61. (MIRA 15:5)

(CAUCASUS—MEDICINE)

KULNET[illegible] V. M., mayor; [illegible] V. A., podpolkovnik; ORL[illegible]V, Yu., gvardii podpolkovnik; [illegible]V, [illegible], gvardii podpolkovnik; RUDN[illegible], Z., polkovnik; polkovnik; BRUSILOVSKIY, V., mayor tekhn.sluzhby; YEV[illegible] V, V., [illegible]kovnik; PIROZHKOV, V., kapitan; PETROV, N., polkovnik; PETROV, [illegible], kapitan 1 ranga; MARTIROSYAN, A., polkovnik; ZINCHENKO, F., polkovnik; [illegible]DIN, V., podpolkovnik; SVIDERSKIY, V., polkovnik; K[illegible]V, V., podpolkovnik; YASHIN, S., mayor; OZEROV, N., podpolkovnik; Z[illegible]K V, V., podpolkovnik; ANDRIYANOV, N., podpolkovnik

We discuss projects of new general Army regulations. Voen. vest. 39 no.10:23-35 O '58. (MIRA 11:10)

(Russia--Army--Regulations)

PIROZHKOV, V. V., CAND MED SCI, "THE TIFLIS MILITARY HOSPITAL AND ITS ROLE IN THE DEVELOPMENT OF PUBLIC MEDICINE OF THE 19TH AND ~~BEGINNING OF THE~~ 20TH CENTURIES IN GEORGIA." TBILISI, 1961. (TBILISI STATE MED INST). (KL, 3-61, 234).

PIROZHKOV, V.I., agronom-sadovod

How to care for roadside plantings. Avt. dor. 24 no.7:30-31 Jl '61. (MIRA 14:7)

(Roadside improvement)

PIROZHKOV, V.I., agronom-sadovod

Every road-operating section should have a fruit-crop nursery.
Avt.dor. 25 no.7:23-24 Jl '62. (MIRA 15:8)
(Nurseries (Horticulture)) (Roadside improvement)

PIROZHKOV, V.I., agronom-sadovod.

Roadside planting of fruit-trees on highways in the Moscow area. Avt.dor. 20 no.3:15 Mr '57. (MLRA 10:5)

1. [redacted]U-1.

(Moscow Province--Roadside improvement)

30V/112-60-2-3.820

18.7200

Translation from Referativnyy zhurnal Elektrotekhnika, 19[illegible], Nr 2, pp [illegible]-143 (USSR)

AUTHOR Pirozhkov, V F.

TITLE An Experience in Automatic Welding of Thin Sheets

PERIODICAL Prom.-ekon. byul. Sovnarkhoz Luganskogo ekon. adm. r-na, 1958, Nr 10, pp 79 - 80

ABSTRACT The automatic welding of thin sheets is executed for the most part one-sidedly on a flux or a flux-copper backing with a simultaneous seam formation on both sides. The butt welding of sheets 3 mm thick and 4,000 mm long is executed on a pneumatic stand. Along its axis there are 11 air cylinders with pistons, on whose rods a steel plate is laid with a groove for a copper strip. The welding is performed by a TS-17 tractor moving along guiding girders. The optimum sizes of the copper backing: breadth 70 mm, thickness 12 mm, breadth of the groove: 12 mm, depth of the groove [illegible] mm. To obtain a welded joint without external defects, the groove in the copper plate must be

Card 1/2

30V/112-60-2-3/20

An Experience in Automatic Welding of Thin Sheets

tightly filled in with flux. In the gap of butt-welded sheets flux of a fine or medium granulation is poured and condensed by light knocks of a hammer. The welding of sheets 3 mm thick is performed with 3_y 0.8 rod of 2 mm in diameter under AN-348 A flux. Welding conditions: current 370 - 400 a, arc voltage 28 - 30 v, welding speed 29 m/hour, wire feed 1.5 m/hour. Electrode rod overhang from the nozzle ≤ 15 - 20 mm. To reduce the wear of the tip of the welding nozzle, which was previously made of brass or bronze, a steel bush is pressed now in its body, which prolongs the service of the tip by 2 - 3 times.

Card 2/2

PIROTHKOV, V.I., agronom-sadovod

Planting fruit trees along highways. Avt. dor. 23 no.5:29 My '60.
(MIRA 13:10)

(Fruit trees) (Roadside improvement)

PIROZHKOV, V.V., kand.med.nauk

Aleksandra Nikiforovna Kandalaki, Med.sestra 22.no.4:60 Ap '63.
(MIRA 16:7)

(KANDALAKI, ALEKSANDRA NIKIFOROVNA, 1912-)

SPANDAR'YAN, V.B., red.; KUTSENKOV, A.A.; YERSHOV, Yu.A.; PIROZHKOVA, A.G.; ZINOV'YEV, N.V.; GOLOVIN, Yu.M.; BELOSHAPKIN, D.K.; KOROVINA, A.N.; MOISEYEV, P.P.; GASHEV, B.M.; YEZHOV, L.S.; MANEROK, A.I.; ROGOV, V.V.; GORYUNOV, V.P., red.; INOZEMTSEV, N.N., red.; SHLENSKAYA, V.A., red. izd-va; BORISOVA, L.M., red. izd-va; VOLKOVA, Ye.D., tekhn. red.

[Foreign commerce of the U.S.S.R. with countries of Asia, Africa and Latin America] Vneshniaia torgovlia SSSR so stranami Azii, Afriki i Latinskoi Ameriki. Moskva, Vneshtorgizdat, 1958. 194 p. (MIRA 11:7)

1. Moscow. Nauchno-issledovatel'skiy kon"yunkturnyy institut.
(Russia--Commerce)

KUDNER, T.K., dotsent; IZOTOVA, knad. med. nauk; ZHENETI', D. Kh.; PIROZHKOVA, L.A.; SHTARKELOV, A.A.; SHMAT'KO, I.T.; YANCHKOVA, O.P.

Echinococcosis of the liver. Uzh. zap. Stavr. gos. med. inst. 8: 30-48 '63 (MIRA 17:7)

1. Kafedra obshchey khirurgii (zav. kafedroy - prof. Yu.S. Gilevich) Stavropol'skogo meditsinskogo instituta (rektor zasluzhennyy deyatel' nauki, prof. [illegible] Budylin), Stavropol'skoye gorodskoye otdeleniye Stavropol'skoy krayevoy klinicheskoy bol'nitsy (glavnyy vrach Yu.P. Zotov) i khirurgicheskoye otdeleniye Pyatigorskoy bol'nitsy (zav. otdel. zasluzhennyy vrach RSFSR I.I. Tashinskiy).

[illegible]

PIROZHKOVA, L.A., ordinator

Multiple hydatids in the organs of the abdominal cavity. Uch. zap. Stavr. gos. med. inst. 12:194-195 '63. (MIRA 17:6)

1. Kafedra obshchey khirurgii (zav. prof. Yu.S. Gilevich) Stavropol'skoy krayevoy klinicheskoy bol'nitsy (glavnyy vrach Yu.P. Zotov).

PIROZHNAYA, L N

PHASE I BOOK EXPLOITATION SOV/5151

Leningrad. Universitet

Molekulyarnaya spektroskopiya (Molecular Spectroscopy) [Leningrad] Izd-vo Leningr. univ., 1960. 190 p. 4,700 copies printed.

Resp. Ed.: P. L. Skripov; Eds.: Ye. V. Shcherbakova and V. D. Plastro; Tech. Ed.: S. D. Vodolagina.

PURPOSE: This collection of articles is intended for scientific workers, instructors and students of physics and chemistry. It may also be used by engineers and technicians employing molecular spectroscopy.

COVERAGE: The collection of articles describes spectroscopic studies of liquids and solutions, and includes data on applied molecular spectroscopy. Individual articles deal with the molecular interaction in solutions, and specifically with the hydrogen bond problem. Works on the optimum utilization of spectral apparatus and on the analytical application of molecular spectroscopy are also included.

Aspects of the structure of high and low molecular compounds and of molecular complexes are also covered. The collection was published in honor of the 70th birthday of Professor Vladimir Mikhaylovich Chulanovskiy, Soviet specialist in molecular spectroscopy and spectral analysis. There are no references.

TABLE OF CONTENTS:

27

PIROZHNAYA, L.N.

Study of the hardening of epoxide resin in the presence of maleic anhydride. Plast.massy no.6:56-60 '61. (MIRA 14:5)
(Epoxy resins) (Maleic anhydride)

CHULANOVSKIY, V.M.; GOL'DENBERG, A.L.; PIROZHNAYA, L.N.; POPOVA, G.S.; TARUTINA, L.I.; FRATKINA, G.P.

Spectral investigation of polymer aging process. Izv. AN SSSR.Ser. fiz. 26 no.10:1316-1317 '62. (MIRA 15:10)
(Polymers—Spectra)

S/048/62/026/010/013/013
B117/B186

AUTHORS: Chulanovskiy, V. M., Gol'denberg, A. L., Pirozhnaya, L. N., Popova, G. S., Tarutina, L. I., and Fratkina, G. P.

TITLE: Spectral examination of the aging processes of polymers

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 10, 1962, 1316-1317

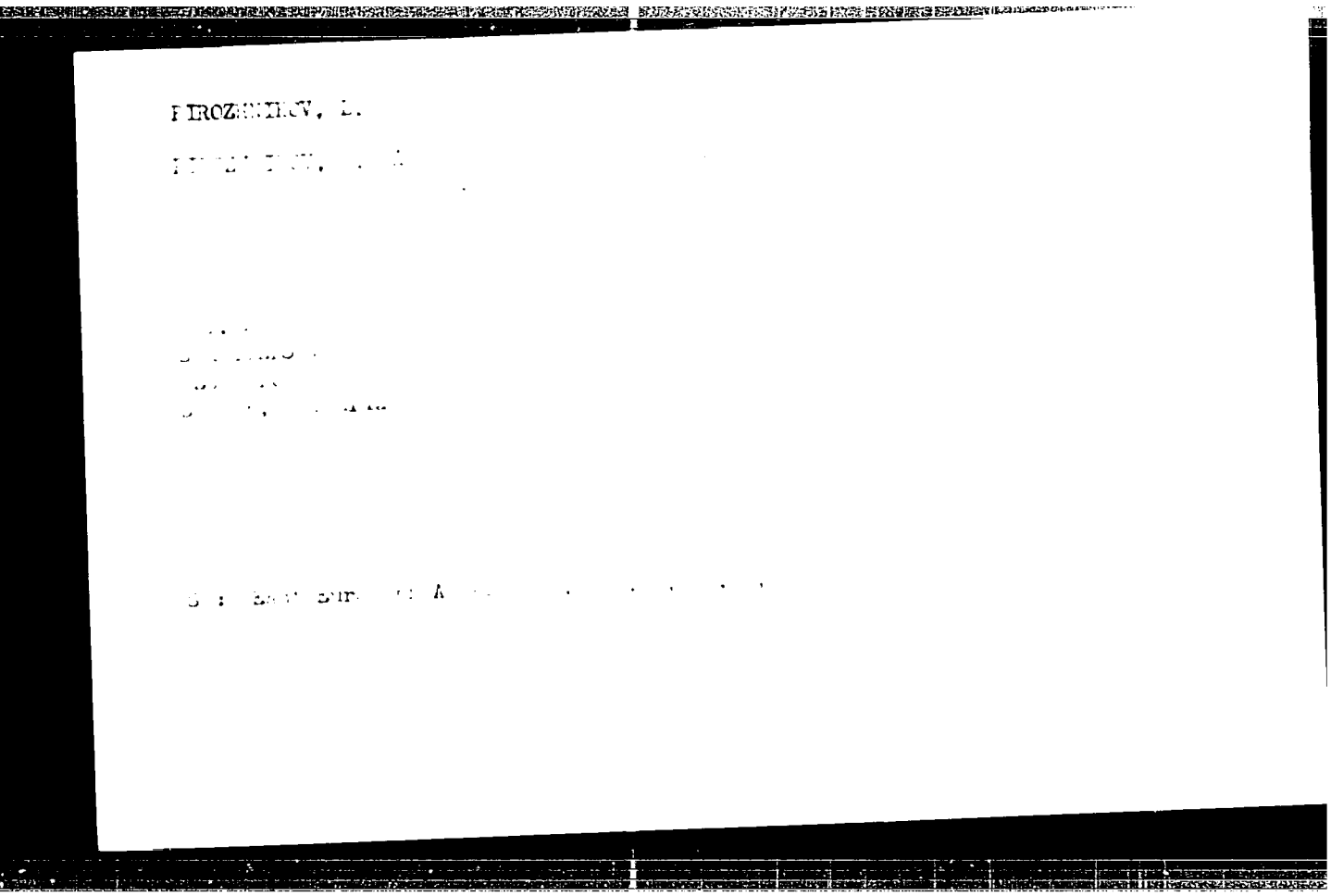
TEXT: Infrared spectroscopy was examined for its applicability to investigating the aging and stabilization of polymers (e.g., high-density and low-density polyethylene, ethylene - propylene copolymer, fluorine polymers, PVC, polyvinyl alcohol and its acetals, copolymers on the basis of styrene). Conclusions: For the purpose of investigating the oxidation of polymers, infrared spectroscopy is more suitable than chemical analysis as it can be used to determine carbonyl groups in various types of compounds (e.g., in acids, aldehydes, ketones, and ether compounds), to establish the point of saturation of OH and CO groups, to observe the decomposition of the main groups, and to analyze the products of decomposition. Results of work in this field will be published later.

Card 1/1

PIROZHNIKOV, K., dots.

Corn in the southern trans-Ural region. Nauka i pered. op. v sel'-khoz. 18 no.2:40-44 F '58. (MIRA 11:3)

1. Kafedra rasteniyevodstva Troitskogo zooveterinarnogo instituta.
(Siberia, Western--Corn (Maize))

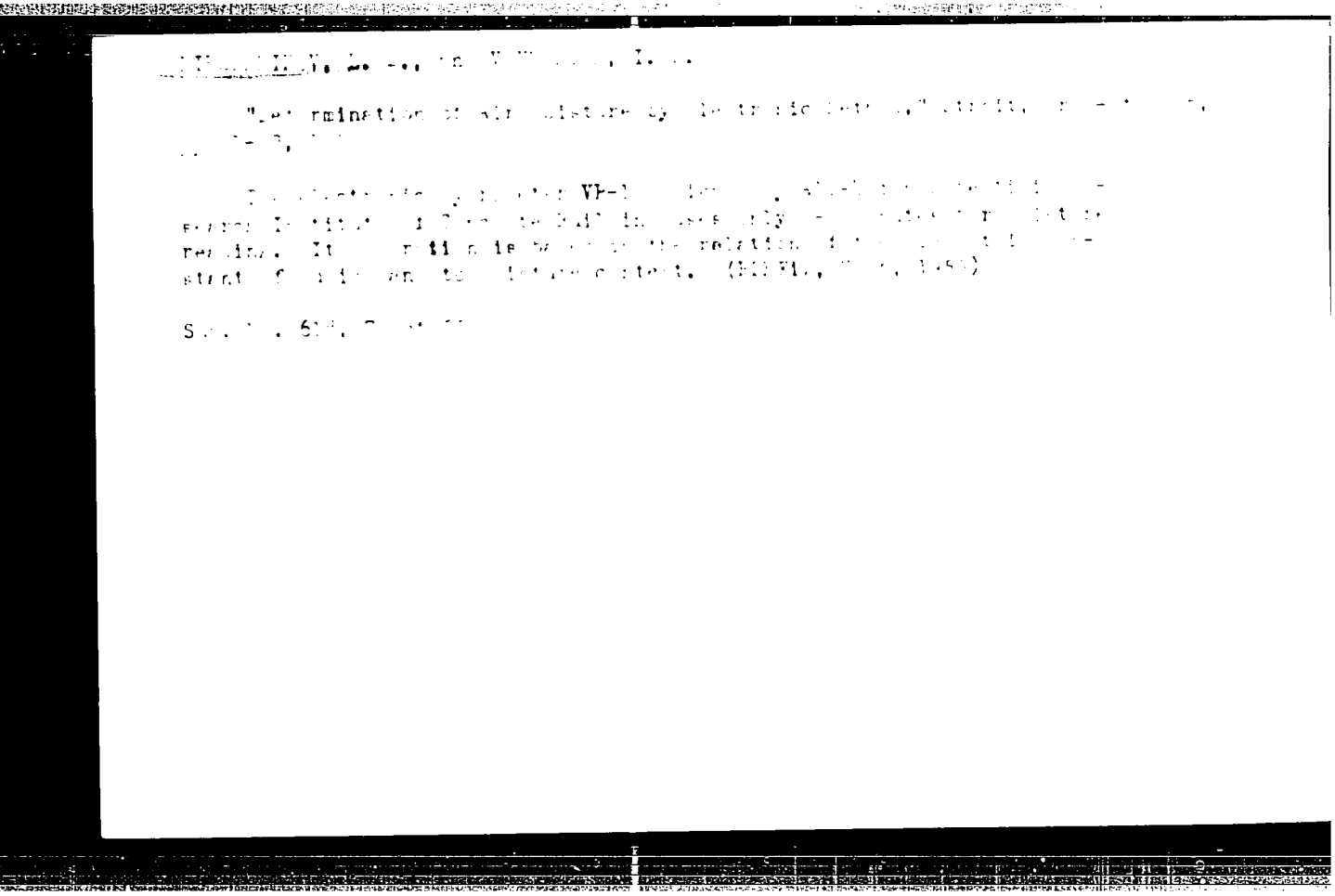


PIROZHNIKOV, L., inzhener.

Testing plain and reinforced concrete products. Stroi.mat.izdel. i konstr. 1 no.12:33 D '55. (MLRA 9:7)
(Concrete--Testing)

PIROZHNIKOV, L., inzhener

Achievements of atomic physics in the building materials industry. Stroi.mat., izdel. i konstr. 1 no.8:4-6 Ag'55. (MLRA 8:11)
(Building materials--Testing) (Gamma rays)



18 8510 2808, 4016, 1003, 2617

S/194/61/000/001/024/038
D216/D304

AUTHOR: Pirozhnikov, I. B.

TITLE: The use of ultrasonics for removal of corrosion and for passivation of a metal surface

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 1, 1961, 17, abstract 1 Ye150 (V Sb Primeneniye ul'trakust k issled veshchestva, no. 10, M., 1960, 131-137)

TEXT: The experiments carried out at the Scientific Research Institute of Construction Physics and of Safety Constructions of the Academy of Construction and Architecture of USSR have shown that under certain conditions it is possible to remove rust from metal with ultrasonics, and that prolonged action of ultrasonics (up to 90 mm) makes the surface of the metal passivated. The removal of rust (experiments were carried out with types of steel from CT-3 (ST-3) to CT-10 (ST-10)) is best carried out in water, heated to

Card 1/2

S/194/61/000/001/024/038
D216/D304

The use of ultrasonics.

30° - 50° The amplitude of oscillations of magnetostriction generators was varied between 2 - 85 microns. The experiments were carried out at frequencies 2[illegible], 35, 5[illegible] and 75 kc/s 4 references.

Card 2/2

TAMARIN, A.A., kand. tekhn. nauk. Prinimali uchastiye: VOLLEVICH, A.I., mlad. nauchnyy sotr.; KOTOVA, L.A., mlad. nauchnyy sotr.; MASLOBOYSHCHIKOV, A.N., inzh.; KUDINOV, A.I.; PEREZHEYKO, L.B.; SHITOVA, L.N., red. izd-va; SHEVNEVA, N.V., tekhn. red.

[Instructions for production testing of large prestressed concrete elements] Ukazaniia po proizvodstvennym ispytaniiam krupnorazmernykh predvaritel'no napriazhennykh zhelezobetonnykh konstruktsii. Moskva, Gosstroiizdat, 1962. 112 p. (MIRA 15:9)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Rukovoditel' gruppy ispytaniy Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Tamarin).
(Prestressed concrete—Testing)

PRESNYAKOV, Aleksandr Grigor'yevich; ILOZHNIKOV, L.B., red.; SHIROKOVA, M.M., tekhn. red.

[How an idea was born and carried out; an inventor's notes] Rozhdenie i voploshchenie zamysla; zapiski izobretatelia. Moskva, Gosenergoizdat, 1962. 110 p. (MIRA 15:9)
(Electric apparatus and appliances)
(Inventions)

SOV/112-57-5-11537

Translation from Ref... ... Nr 5, p 288 (USSR)

AUTHOR P...

TITLE Method of Ultra... ... Quality
(Metody kontrolya ka... ... mekhanicheskikh ul'trazvuka)

PERIODICAL V st... I... ... resheniya Nr ...
M., MOPI, 1956, p...

ABSTRACT Dynamic met... ... city have received
wide use in hardness ... testing the
specimen ma... ... the
modulus of ela... ... the measured
velocity of ultraso... ... instrument
similar to the pulse ... ... to measure the
velocity of sound. A scheme with two piezometric pickups is used, one of the
pickups is a sender and the ... ... oscillators are

Card 1/2

Method of Ultrasonic Checking of Concrete Structure Quality

transmitted through the concrete body The concrete quality can be evaluated from the data of velocity measurements and the table below:

Velocity of ultrasonic propagation, m/sec	Concrete quality
Over 4,500	excellent
4,000-4,500	good
3,300-4,000	satisfactory
2,300-3,300	poor
Under 2,300	very poor

The possibility of constructing an instrument with a memorizing circuit of the electron microsecond-meter type is indicated

Yu V B

Card 2/2

PIROZHNIKOV, L. B.

"The Elimination of the Corrosion of Metals."

report presented at the 6th [redacted] Sci. Conference on the Application of Ultrasound in the Investigation of Matter, 3-7 Feb 1958, organized by Min. of Education RSFSR and Moscow Oblast Pedagogic Inst. im N. K. Krupskaya.

PIROZHNIKOV, L.B.

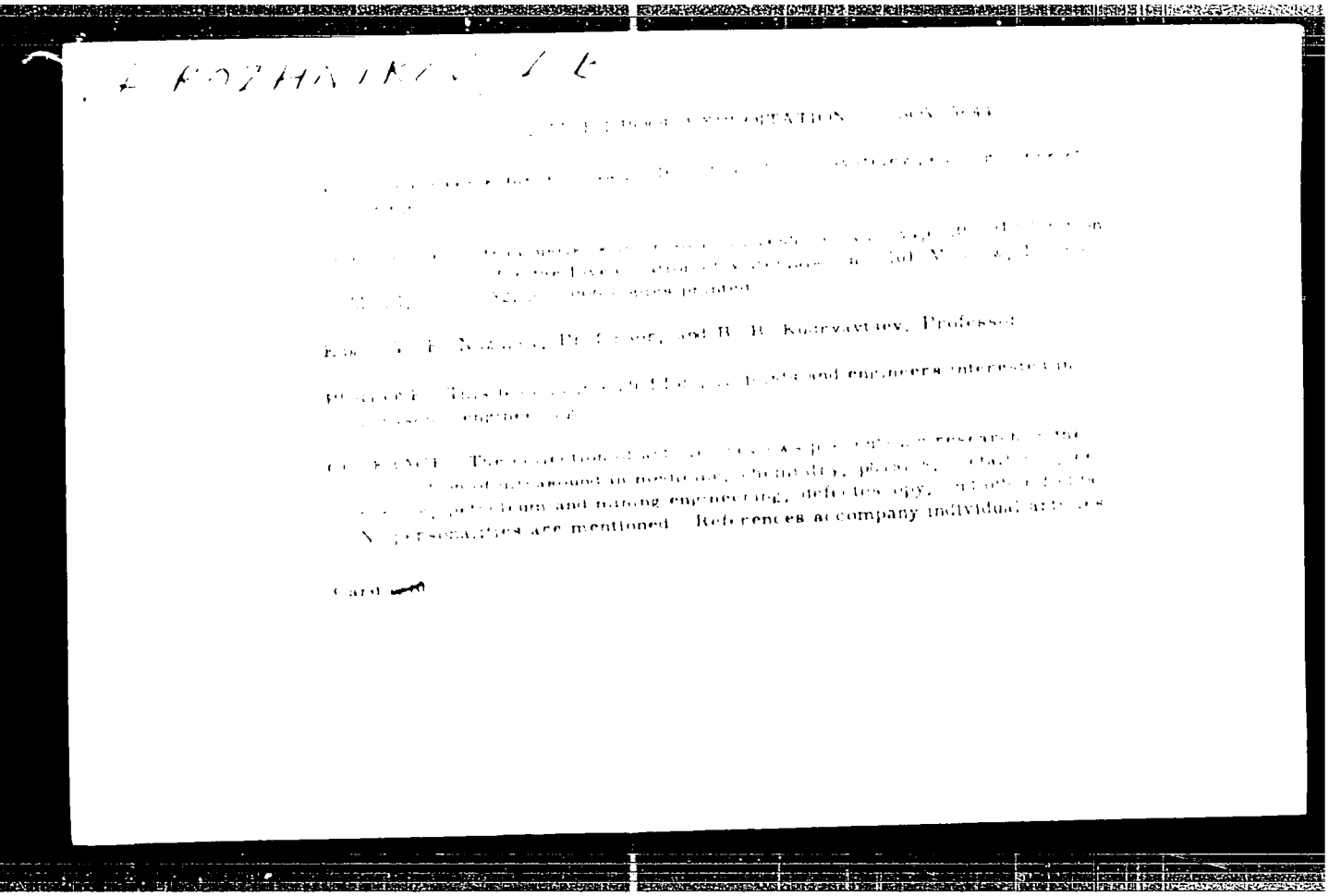
33. Drilling glass and ceramics by means of ultrasonics.—L. B. PIROZHNIKOV and L. S. VAINSHTOK. (*Glass & Ceramics*, Moscow, 12, No. 6, 7, 1955). In Russian. Holes 0·1–10 mm. dia. can be drilled ultrasonically in specimens 0·1–8 mm. thick. The drilling of one hole took from 15 sec. to 2 min. Holes can be made square, rhombic, star-shaped, etc., to an accuracy of 0·015 mm. (4 figs.)

Math

PIROZHNIKOV, L.B.,; VAYNSHTOK, I.S.

Ultrasonic detection of defects of concrete and reinforced concrete products. Zav.lab. 21 no.2:201-203 '55. (MLRA 8:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezobetonnykh detaley i konstruktsiy.
(Concrete--Testing)



Card 5/10

AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

c) and Ary-

Card 1/2

The Age of the Alkaline Ultrabas[illegible]
Formations of the North of the [illegible]

of alkaline ultrabas[illegible] lava [illegible] of the Ary-Dzhan[illegible]
the authors observed [illegible] of alkaline [illegible]
and basalt tuffs. This [illegible]
kova and Ya. I. [illegible]
of the Ary-Dzhanskaya and Kayrakhtinskaya [illegible]
Within the Ary-Dzhanskaya formation [illegible]
[illegible]
tuff [illegible]
[illegible] the age of the [illegible]
effusive rocks of [illegible] as L[illegible]
Thus, the formation of the alkaline ultrabas[illegible]
North of the Siberian platform [illegible] at the [illegible]
Lower Permian, [illegible] Upper Permian, [illegible]
Triassic. There are [illegible] Soviet references.

ASSOCIATION: Na[illegible] Arktiki [illegible]
Research Institute of the Geology of the Arctic)

PRESENTED: April [illegible], by [illegible] Academician

SUBMITTED: April [illegible]

Card [illegible]

PIROZHNIKOV, L.P.

Remains of Cycloidea from the Kazan stage of the Kozhim River (Pechora coal basin). Sbor.st.po paleont.i biostrat. no.[illegible]: 84-87 '59. (MIRA 13:8)
(Kozhim Valley--Crustacea, Fossil)

AUTHOR: Pirozhnikov, L. P.

TITLE: The Upper Jurassic of the Franz Josef Land [illegible] (Verkhnyaya Yura arkhipelaga Zemlya Frantsa-Iosifa)

PERIODICAL: Doklady Akademii nauk SSSR, 1[illegible], V 1[illegible], [illegible] (USSR)

ABSTRACT: Until recently, the Upper Jurassic of the Franz Josef Land archipelago was considered to represent only by the [illegible] Stage (refs 3, 5-6). The author succeeded, during the [illegible] 1956 and 1957, in discovering strata of the Oxfordian Stage [illegible] the Ofer ("Ofer") Cape of Zemlya Vil'cheka Island (Wilczek Land). This stage contains a marine fauna, partly identified by Mrs. V. S. Vorob'ets found in oval concretions in [illegible] limestones. Strata of the Kimmeridgian Stage were found not far from the southwest tip of the Ganza (Hansa) Cape. The fauna found in weakly cemented "aleurolites" of rock structure (identified by V. I. Shul'gina) indicates the lowest zone of the Kimmeridgian Stage. Concretions in the upper part of this "aleurolith" contain ammonite fossils of the upper zone of the Kimmeridgian Stage. Here lies the largest intrusive sill of the entire archipelago (70 m thick). The author assumes

Card 1/ [illegible]

thinly-bedded "Aucella strata" of the Upper Jurassic, Lower Volzhski, Volga Stage. These beds contain ammonites (Dorsoplanites sp. and are considered by the author to be stratigraphically higher than the concretionary ... containing the Upper Oxfordian fauna. The strata ... in a dolerite sill. The total thickness of Upper Jurassic strata in the archipelago is approximately ... The Jurassic rocks (including Middle Jurassic) in the archipelago consist only of marine deposits and occur in a narrow east-west band (about 60 - 70 km wide). The section thickens from west to east. This distribution of Jurassic sediments refutes the conclusion of Dibner (Ref 1), that there were three marine transgressions in the archipelago during Jurassic time. This distribution strongly suggests a transgression which occurred in Callovian time and in which the sea retreated from west to east. Further evidence for this regression is the occurrence of belemnite fauna in the sediments of Pliss, Praya and Mak-Klintok islands ... information from ... V. Martynenko, A. A. Pavlov and ... Perminov . Marine Jurassic sediments were tentatively recognized in 1957 on the island of Al'djaher (Ref ...). There are 1 figure and ... references, ... of which are Soviet.

Card 2/3

SOV/ 20-1[illegible]

The Upper Jurassi[illegible] of the Franz Josef Land Archipelago

ASSOCIATION: Nauchno-issledovatel'skiy institut geologii Arktiki (Scientific Research Institute for the Geology of [illegible])

PRESENTED: May , 1958, by D. I. Shcherbakov, Member, Academy [illegible] Sciences, USSR

SUBMITTED: May [illegible], 1958

Card 1/3

TITLE: The [illegible] Wilczek Land [illegible] Josef Land Archipelago [illegible] Arkhipelag Zemlya Frantsa-Iosifa

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol. [illegible] SSSR

ABSTRACT: The Triassic deposits on the islands of the [illegible] Sovetskaya Arktika were hardly known. [illegible] Triassic deposits are known from the Bear Island [illegible], from Spitzbergen (Shpitsbergen) (Refs [illegible]) Greenland (Grenlandiya) [illegible]. In [illegible] Triassic sediments in the south-western part [illegible] which are characterized by fauna. Figure [illegible] section which was [illegible] are. It shows a [illegible] rocks, gray, [illegible] ft, with numerous [illegible] [illegible]

Card 1/[illegible]

Wilczek Land Island

The Upper Triassic of the **Wilczek Land Island** [illegible]
Archipelago)

ASSOCIATION: Nauchno-issledovatel'skiy institut geologii arktiki, g. Leningrad
(Leningrad Scientific Research Institute of Arctic Geology)

PRESENTED: February [illegible], 1958, by D. V. Nalivkin, Member, Academy of Sciences, USSR

SUBMITTED: February 19, 1958

1. Geology 2. Geological time—Determination 3. Paleoecology

Card 1/3

PIROZHNIKOV, L.P.

Burnt rocks from the marine lower Volga stage of Bergkhauz Island (Franz Josef Land). Dokl. AN SSSR [illegible] no.[illegible] '61.
(MIRA 14:9)

1. Nauchno-issledovatel'skiy institut geologii Arktiki, g. Leningrad. Predstavleno akademikom N.M.Strakhovym.
(Bergkhauz Island--Rocks, Sedimentary)
(Coal geology)

PIROZHNIKOV, L.P.

Marine lower Volga stage of Bergkhauz Island (Franz Josef Land).
Dokl. AN SSSR 140 no.4:912-915 O '61. (MIRA 14:9)

1. Nauchno-issledovatel'skiy institut geologii Arktiki. Predstavlen akademikom D.V.Nalivkinym.
(Bergkhauz Island--Geology, Stratigraphic)

PIROZHNIKOV, L.P.

Upper Triassic of Wilczek Land Island(Franz Josef Land Archipelago).
Dokl. AN SSSR 120 no. 4:873-874 Je '58. (MIRA 11:8)

1. Nauchno-issledovatel'skiy institut geologii Arktiki, Leningrad.
Predstavleno akademikom D.V.Nalivkinym.
(Wilczek Land--Geology, Stratigraphic)

PIROZHNIKOV, L.P.

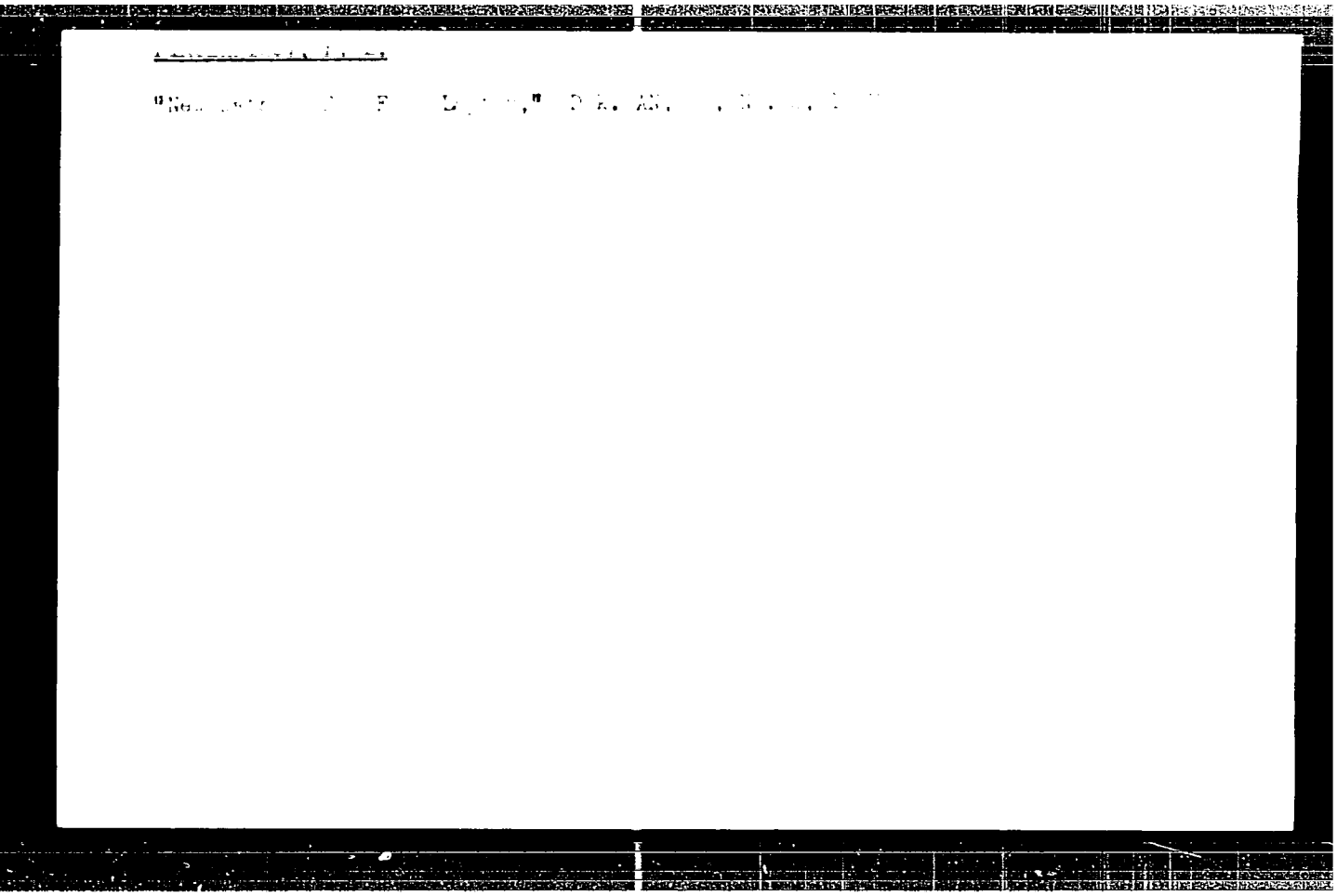
Remains of eurypterids from the Matarak series; Devonian of the Northern Minusinsk depression. Ezhegod. Vses. paleont. ob-va 1[illegible] '57. (MIRA 11:4)

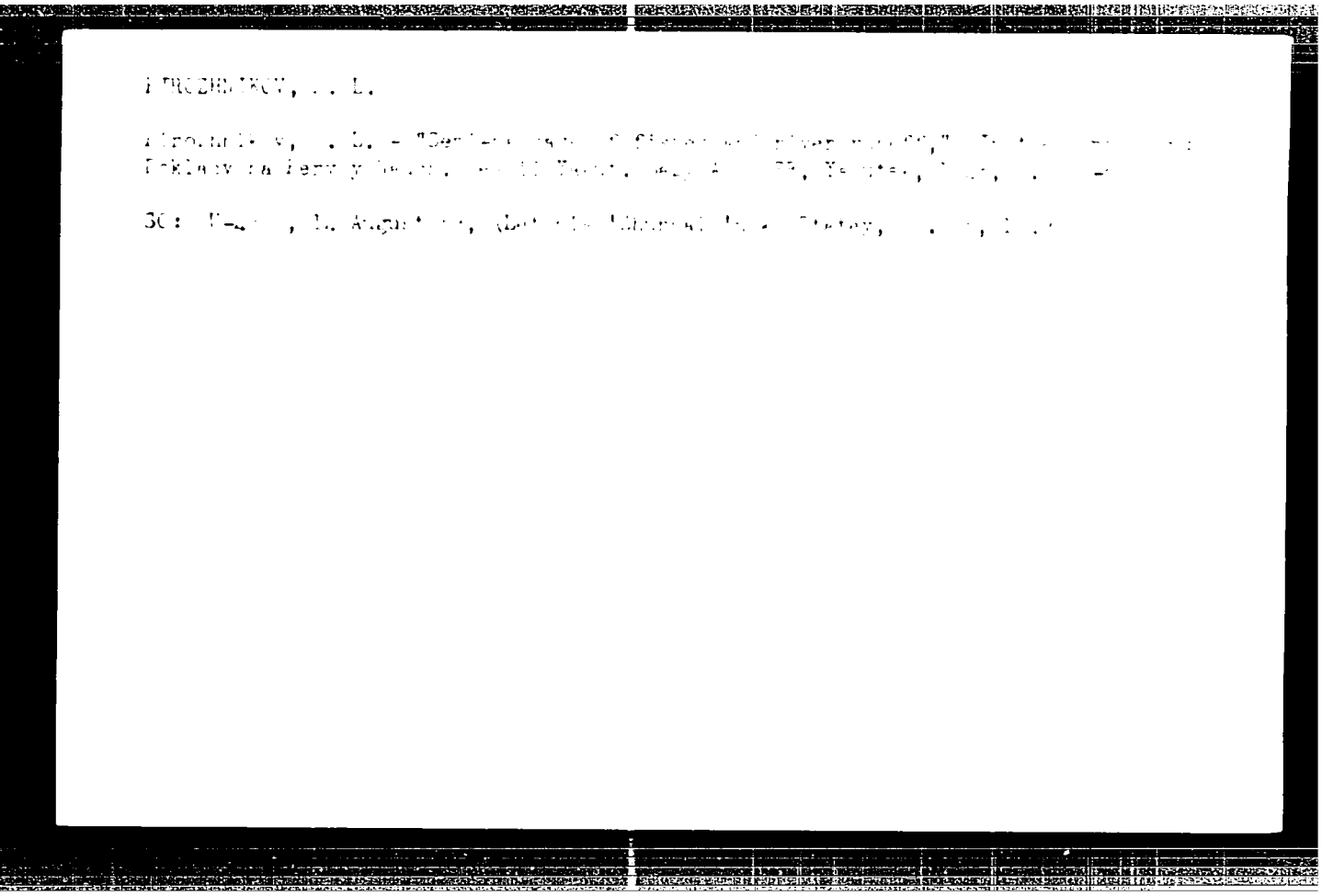
(Shunet Region--Eurypterida)

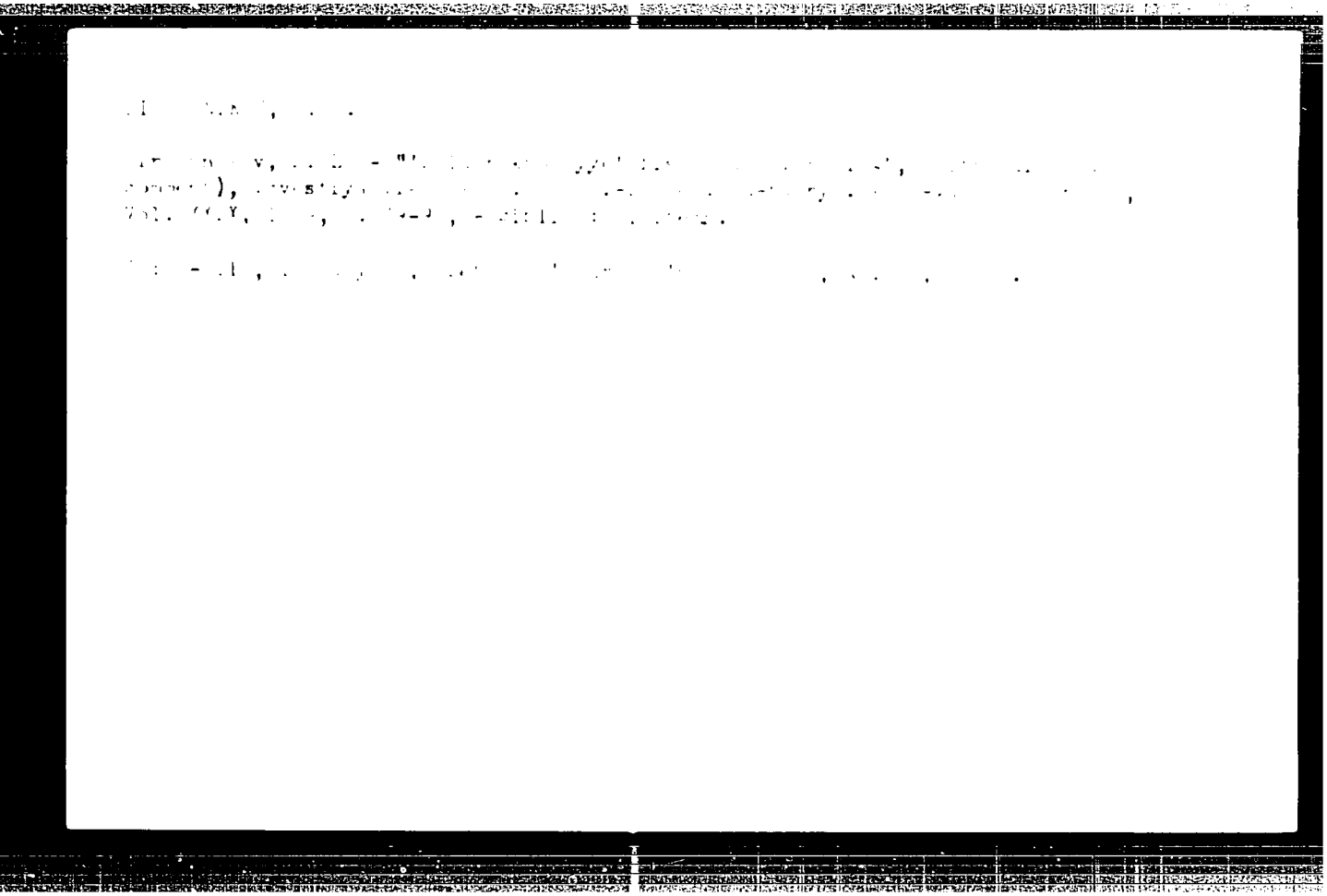
PIROZHNIKOV, L.P.

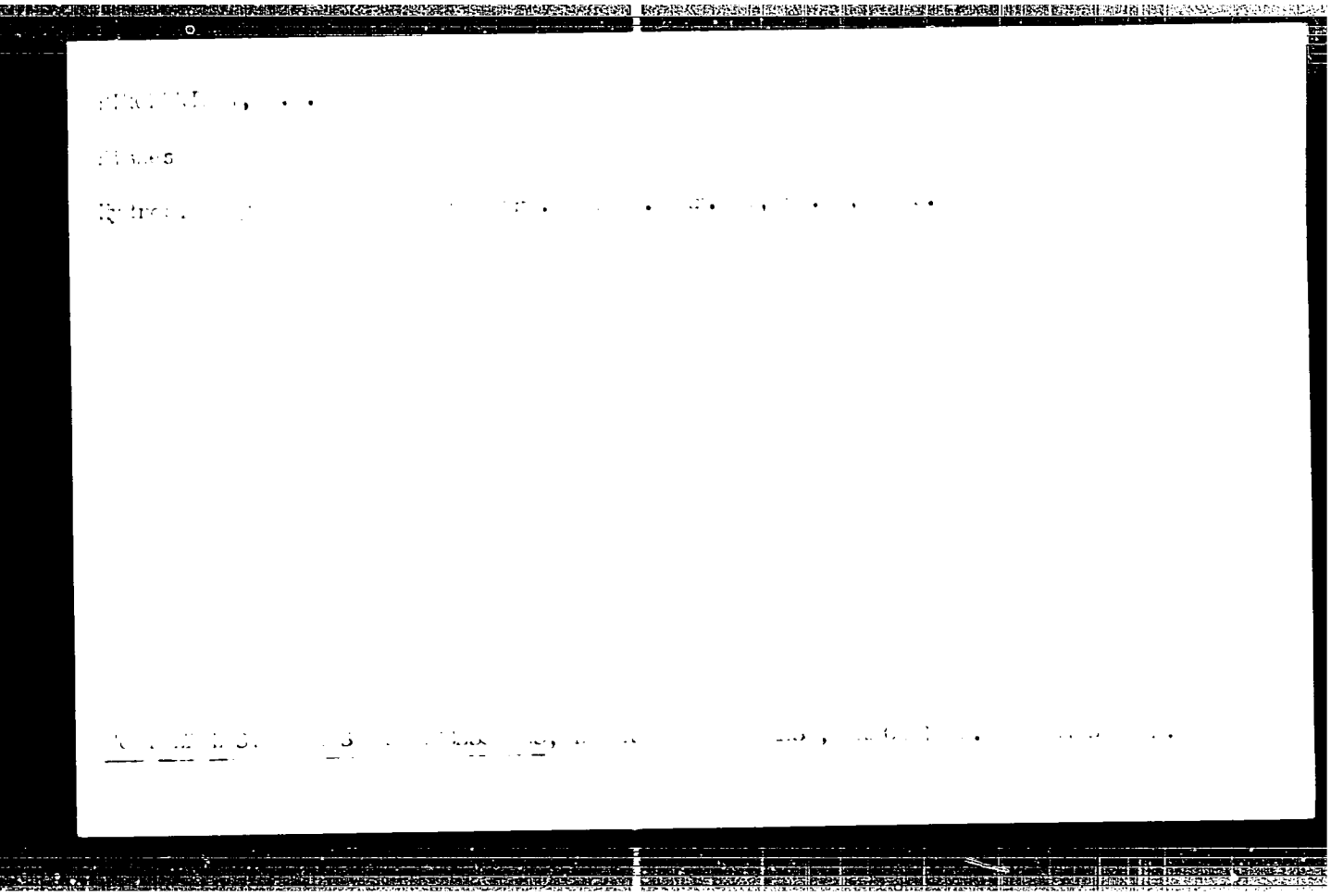
Quartz crystals on the chalcedony pseudomorph after wood from Mak-Klintoka Island (Franz Josef Land). Zap.Vses.min.ob-va 88 no.3: 338-343 '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy institut geologii Arktiki, Leningrad.
2. Deystvitel'nyy chlen Vsesoyuznogo mineralogicheskogo obshchestva.
(Mak-Klintoka Island--Quartz crystals)









PIROZHNIKOV, P.L

Some data on the biology of the muksun (Coregonus muksun Pallas).
Trudy Gidrobiol.ob-va 5:339-348 '53. (MLRA 7:5)
(Siberia--Whitefishes) (Whitefishes--Siberia)

PIROZHNIKOV, P. L.

Nutrition and feed relations of fish in estuaries along the Laptev Sea. Vop.ikht.no.3:140-185 '55. (MLRA 8:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyaystva
(Laptev Sea--Fishes--Food)

PIROZHINKOV, P.L.

Enrichment of food fauna of lakes and reservoirs. Zool.zhur. 34 no.2:267-278 Mr-Ap '55. (MLRA 8:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyaystva.
(Fresh-water fauna)

PIROZHNIKOV, P.L.

"Trudy" of the N.A. Morozov "Borok" Biological Station of the Academy of Sciences of the U.S.S.R. no.2, 1955. Reviewed by P.L. Pirozhnikov. Zool.zhur.35 no.11:1744-1746 D '56.
(MLRA 10:1)

(Rybinsk Reservoir--Fisheries)

PIROZHNIKOV, P.L.; RYABININA, N.V.

Experimental study of the effect of inundated lands on the zooplankton of the Volga. Trudy probl. i tem. sov. no.7:133-139 '57.
(Stalingrad Reservoir--Zooplankton) (MLRA 10:4)

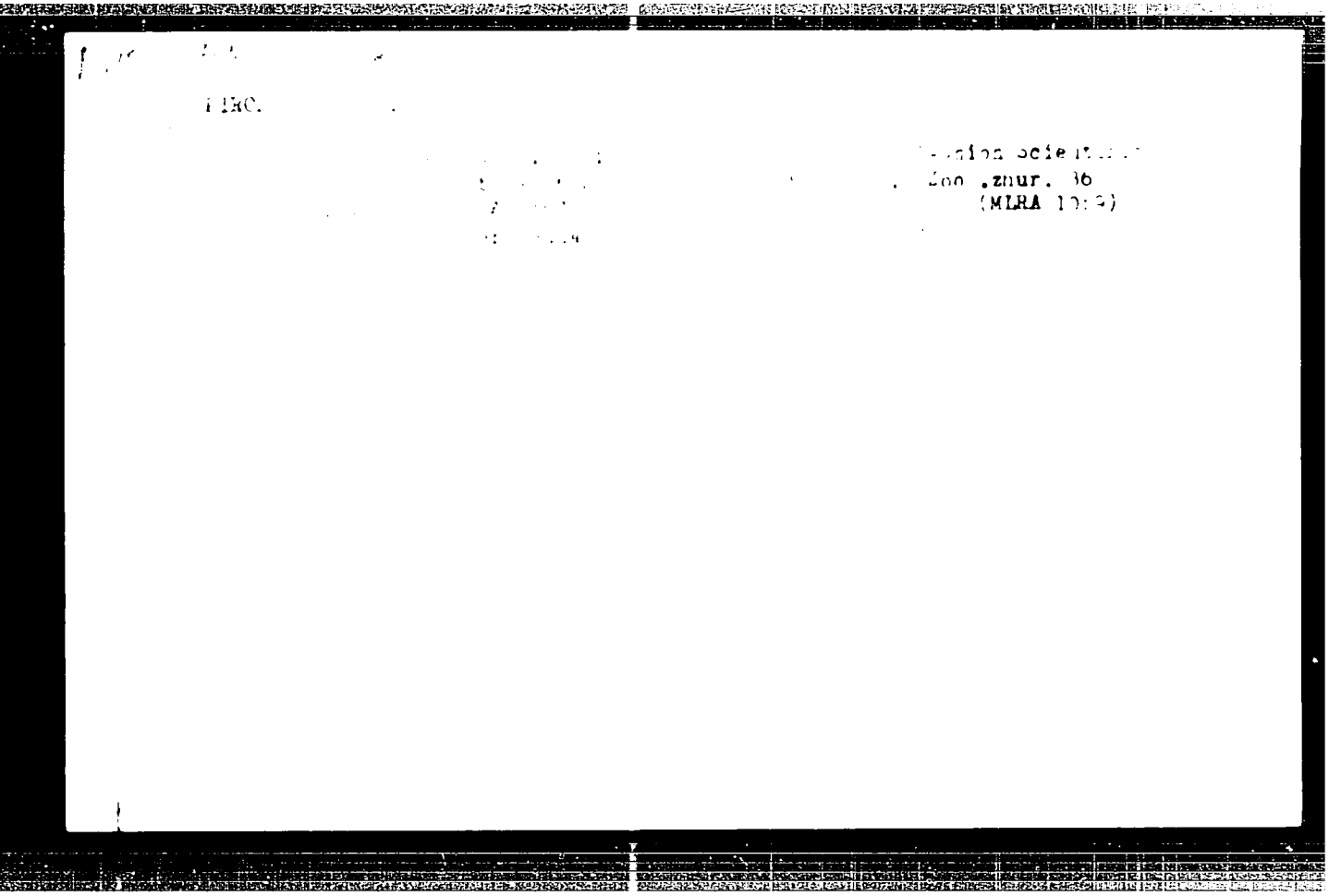
PIROZHNIKOV, P.L.; SHUL'GA, Ye.L.

Basic features of zooplankton in the lower reaches of the Lena River. Trudy Gidrobiol. ob-va 8:219-230 '57. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyaystva i Irkutskiy meditsinskiy institut.
(Lena River--Zooplankton)

PIROZHNIKOV, P.L.

Conference on the biological principles of the fishing industry. Zool. zhur. 36 no.4:636-638 Ap '57. (MLRA 10:6)
(Fishes)



PIROZHNIKOV, [illegible]

Area [illegible] distribution and ecology [illegible]
J [illegible] summary in English. [illegible]

[illegible] nauchno-issledovatel'skii [illegible]
r. [illegible] stva, Leningrad.
(Copepoda)

PAVLOVSKIY, Ye.N., akademik, glav. red.; KOZHIN, N.I., prof., red.; PIROZHNIKOV, P.L., kand. biol. nauk, red.; ISAYEV, A.I., red.; REZNICHENKO, O.G., red.; GIDALEVICH, A.M., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Fishing industry of inland bodies of water of the U.S.S.R.] Rybnoe khoziaistvo vnutrennikh vodoemov SSSR; osnovnye doklady. Moskva, Izd-vo AN SSSR, 1963. 227 p. (MIRA 16:12)

1. Vsesoyuznoye soveshchaniye po biologicheskim osnovam rybnogo khozyaystva na vnutrennikh vodoyemakh SSSR. 2. Gosudarstvennyy nauchno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyaystva, Leningrad (for Pirozhnikov).

PIROZHNIKOV, P.L.

Commercial fishes of the large rivers in northern Siberia, their stocks and possible catches. Probl. Sev. no.6:222-228 '62.
(MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i rechnogo khozyaystva.
(Siberia—Fisheries)

PIROZHNIKOV, P.L.

Ecologic studies on reservoirs, rivers and estuarial regions. Vop. ekol. 4:68-70 '62. (MIRA 15:11)

1. Gosudarstvennyy naudhno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyaystva Vserossiyskogo soveta narodnogo khozyaystva.

(Freshwater biology)

ACC NR: AP6029095 SOURCE CODE: UR/0118/66/000/000/0007/[illegible]

AUTHOR: Pirozhnikov, V. Ye. (Engineer); Kolchanov, V. A. (Engineer); Marinenko, M. A. (Engineer)

ORG: none

TITLE: Program control of electroslag metal remelting process

SOURCE: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 6, 1966, 7-[illegible]

TOPIC TAGS: electroslag melting, program control, industrial autom[illegible]

ABSTRACT: [illegible] (TsNIIChM) [illegible] electroslag [illegible] the new [illegible] program [illegible] (ORE) [illegible] electrode-lowering motor (M), a voltage [illegible] switch operating mechanism (DOM), and a [illegible] panel (LDP) [illegible] of the program control is explained and a simplified electrical circuit is presented.

Card 1/2 UDC: 66.065.5:62-50..55

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001341010020-9"

ACC NR: AP00[illegible]

[illegible] operat[illegible] [illegible] interconnecting [illegible] increases productivity by [illegible] and reduces power consumption by [illegible]. Orig. art. has: 2 figures.

SUB CODE: [illegible], 09 / SUBM DATE: none

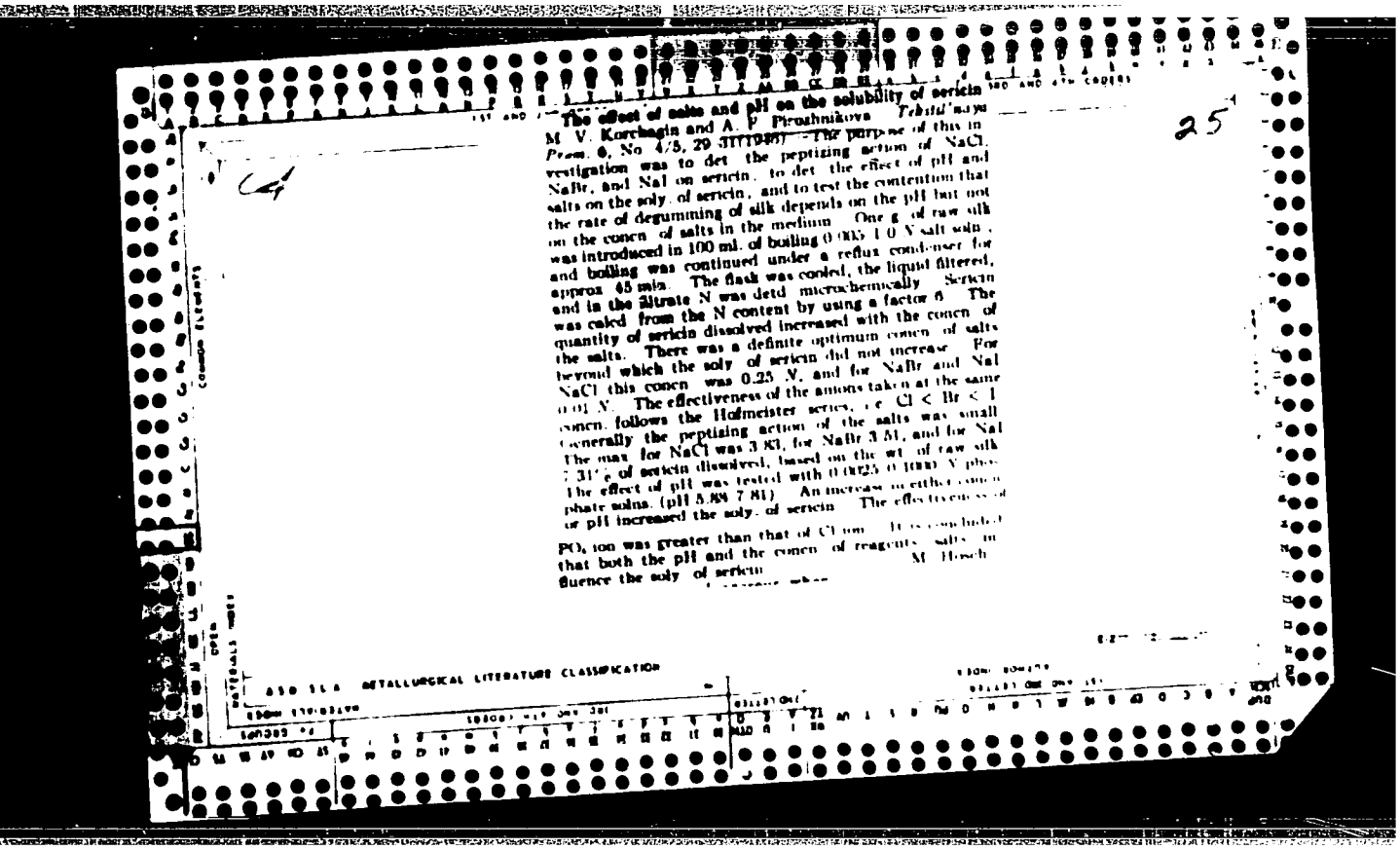
Card 2/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001341010020-9"

YEFROYMOVICH, Yu.Ye.; VINOGRADOV, V.M.; PIROZHNIKOV, V.Ye.; DANISHEVSKIY, S.K.

Using refractory tips in controlling the temperature of the lining of steel smelting arc furnaces with thermocouples. Ogneupory 26 no. 4:181-184 '61. (MIRA 14:5)

1. TSentral'naya laboratoriya avtomatiki Glavproyektmontazhavtomatiki.
(Smelting furnaces) (Thermocouples)



The effect of salts and pH on the solubility of sericin

M. V. Korchagin and A. P. Pivushnikova. *Tekstil'naya Prom.* 6, No. 4/5, 29 (1946). The purpose of this investigation was to det. the peptizing action of NaCl, NaBr, and NaI on sericin, to det. the effect of pH and salts on the soly. of sericin, and to test the contention that the rate of degumming of silk depends on the pH but not on the concn. of salts in the medium. One g. of raw silk was introduced in 100 ml. of boiling 0.025–1.0 N salt soln., and boiling was continued under a reflux condenser for approx. 45 min. The flask was cooled, the liquid filtered, and in the filtrate N was detd. microchemically. Sericin was calcd. from the N content by using a factor 6. The quantity of sericin dissolved increased with the concn. of the salts. There was a definite optimum concn. of salts beyond which the soly. of sericin did not increase. For NaCl this concn. was 0.25 N, and for NaBr and NaI 0.01 N. The effectiveness of the anions taken at the same concn. follows the Hofmeister series, i.e. Cl < Br < I. Generally the peptizing action of the salts was small. The max. for NaCl was 3.83, for NaBr 3.81, and for NaI 7.31% of sericin dissolved, based on the wt. of raw silk. The effect of pH was tested with 0.025–0.100 N phosphate solns. (pH 5.88–7.81). An increase in either concn. or pH increased the soly. of sericin. The effectiveness of PO_4 ion was greater than that of Cl ion. It is concluded that both the pH and the concn. of reagents, salts, influence the soly. of sericin. M. Hirsch

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NIKOL'SKIY, G.V.; PIROZHNIKOV, P.L.; BORUTSKIY, Ye.V.

Seventh Plenum of the Commission on the Exploration of Fisheries in the western part of the Pacific Ocean. Vop.ikht. 3 no.1:203-205 '63. (MIRA 16:2)
(Pacific Ocean--Fisheries--Congresses)

PIROZHKOV, S.

Dispatcher control panel at a drying and cleaning tower. Muk.-elev. prom. 29 no.3:8-9 Mr '63. (MIRA 16:9)

1. Glavnyy inzh. Kargatskogo elevatora Novosibirskoy oblasti.

LEBEDEV, I.A.; PIROZHKOV, S.V.; YAROVLEV, G.N.

[Determination of the composition and instability constants of the oxalate, nitrate, and sulfate complexes of Am (III) and Cm (III) by the ion exchange method] Opredelenie sostava i konstant nestoikosti oksalatnykh nitratnykh i sul'fatnykh kompleksov Am (III) i Cm(III) metodom ionnogo obmena. Moskva, In-t atomnoi energii, 1960. 20 p. (MIRA 17:1)

LEBEDEV, I.A.; PIROZHKOV, S.V.; KAZBITNOY V.N.; YAKOVLEV, G.N.

[Complexing of Am^{+3} with oxalate ions] Izuchenie kompleksoobrazovaniia Am^{+3} s oksalat-ionami. Moskva, In-t atomnoi energii AN SSSR, 1960. 14 p. (MIRA 17:1)

ZAYTSEV, A.A.; LEBEDEV, I.A.; PIROZHKOV, S.V.; YAKOVLEV, G.N.

Extraction of rhenium by pyridine bases. Zhur. neorg. khim. 8 no.10:2407-2411 O '63. (MIRA 16:10)

1. Institut atomnoy energii im I.V. Kurchatova.
(Rhenium) (Pyridine bases)

20661

S [illegible]
A [illegible]

21.3100

AUTHORS: Lebedev, I. A.; Pirozhkov, S. V.; Yakovlev, G. N.

TITLE: Determination of the composition and instability constants of oxalate, nitrate and sulfate Am(III) and Cm(III) [illegible] by the ion-exchange method

PERIODICAL: Radiokhimiya, v. [illegible], no. [illegible], [illegible], [illegible]

TEXT: [illegible] The article deals with a study of complex-formation of Am(III) and Cm(III) with oxalate-, nitrate- and sulfate- ions, using the ion-exchange method on the cationite. The complex-formation of Pu(III) in [illegible] solutions was investigated in particular Ref. [illegible]: A.D. Gel'man, N.N. Ma[illegible]rina, A.I. Moskvin, Atomnaya energiya [illegible]. It is pointed out that the method in question has received wide application in recent [illegible] for determining the composition and instability constants of the complex ions of radioactive elements. Mention is made of Ref. [illegible] Usp. Khim. 24, [illegible] as outlining the calculation method [illegible] various cases. The experiments were conducted [illegible] Am-241 and Cm-[illegible] isotopes, the concentration of which was [illegible]

Card 1/[illegible]

[illegible]

Determination of the composition and [illegible]

[illegible] A

minimal in the initial solution. A KY [illegible] sorbent [illegible] In order to determine [illegible] coefficient of the metal, the weighed resin portion between the [illegible] and solution, was brought to equilibrium with a certain volume of [illegible] tion, containing known concentrations of Am and Cm [illegible] corresponding acid. Experiments were conducted at [illegible] ure). The effect was determined of the pH on φ (distribution coefficient of Am in the absence of a complex-forming agent φ), since the experiments were carried out at various pH of the solution. Table [illegible] of these determinations indicating that with a change of the pH from [illegible] to 4.4, φ_0 does not actually change. Certain experiments showed that: 1) the change of the resin and solution ratio b) does not affect φ, [illegible] effect of the resin swelling on the solution volume does not exist, [illegible] equilibrium in the system [illegible] is reached in [illegible] (ion strength μ = 0.2 [illegible] pH [illegible] - 8 and graphs [illegible] give the experimental data on the relation of φ of Am(III) and Cm(III) to the concentration of the nitrate, [illegible] oxalate ions. φ was calculated from results of the analyses [illegible]

Card 2/4

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S/[illegible]
AC [illegible]

Determination of the composition and ...

the following formula:

$$\varphi = \frac{c_0 - M}{b c_m}$$

The activity of the oxalate ions was calculated from the formula:

$$a_{C_2O_4^{2-}} = \frac{B}{\frac{1}{\gamma_2} + \frac{a_{H^+}}{\gamma_1 K''} + \frac{a_{H^+}^2}{K' K''}}$$

where B is the concentration of the ammonium oxalate, a_{H^+} - activity of the hydrogen ions, K' and K" - I and II constants of dissociation of oxalic acid, equalling [illegible] · 10^{-2} (Ref. 7: H.S. Darken, J. Am. Chem. [illegible], 1941) and [illegible] · 10^{-5} (Ref. 8: [illegible] Pinching, R. G. Bates, J. Res. Nat. Bur. Stand. 40, [illegible], 1948), respectively. The values of the activity coefficients of the uni- and two-charged ions (γ_1 and γ_2) for the oxalate solutions were taken by the authors from Ref. [illegible] [illegible]

Card [illegible]

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Determination of the composition and ...

S/186/...
A0.../A1...

J. Am. Chem. Soc., ... The functions Ψ, Ψ, Φ, were ... from experimental data according to formula ..., showing the relation of the distribution coefficient of the metal during sorption on the ... nite, to the concentration of the complex-forming agent, and ... the stability constants of the complexes:

$$\Psi \quad \frac{\cdot \sum \cdot A}{\cdot \sum \cdot A}$$

where ... are the general stability constants of the complex ..., [A] ... concentration (activity) of the addend; ... maximum number of addends bound to an ion of metal; ... the constants for the given system ... stant ionic strength and constant concentration of the ... connected with the sorption of the complex cations; ... charge of the addend. By introducing the functions:

Card 4/14

Determination of the [illegible] and ....

[illegible]

$$\Psi_1 = \frac{\Psi}{[A]} \qquad \text{and} \qquad \Psi \ldots \frac{\Psi_1}{[A]}$$

the following expression is derived:

$$\Psi = \frac{(\beta_1 - 1)[A] + (\beta \ldots)[A]^2 + \beta_2 [A]^3 + \ldots}{1 + \ldots [A] + \ldots [A]^2}$$

Since the complex formation of [illegible] is studied [illegible] then [illegible]:

$$\Psi_1 = \frac{\beta_1 - 1 + (\beta - 1)[A] + \beta_2 [A]^2 \ldots}{1 + \ldots [A] + \ldots [A]^2}$$

Card [illegible]

Determination of the [illegible]

[illegible equations]

Taking into account the low values of [illegible] it is seen that in the case of complex-formation with one addend, the slope of the [illegible] relationship is equal to 1, with two about [illegible], with three more than [illegible]. Further, the stability constants of these complex ions can be calculated [illegible]

Card 6/14

Determination of the composition and ....

from the successive calculation of the values of ψ_i (by extrapolating $k[A] = 0$, the relationship of ψ_i to $[A]$. The authors state that if the sorption of the complex is disregarded as compared to the sorption of the free ion of metal, then in formulae (1) - (11), the values of β_i are left out, and then

$$\psi_1^0 = \beta_1 \qquad (13) \qquad \psi_i^0 = \frac{\beta_i}{\beta_{i-1}} \qquad (14)$$

If the sorption of the complex cation is not disregarded, then the value of β_i can be computed in the following manner: the function is calculated for several points:

$$\phi = \frac{\frac{\varphi_c}{\varphi}(\psi_i^0[A] - 1)}{[A]^i + 1} \qquad (14)$$

After having found the value of ϕ^0 by extrapolating the dependence ϕ from $[A]$ to $[A] = 0$ a graph indicating the dependence of

Card 7/14

Determination of the composition and ....

$$\frac{\phi - \phi_0}{[A]} \quad \text{from} \quad \frac{\psi_1 - \psi_1^0}{[A]}$$

is plotted and its slope equaling β_1 is found. Figures 1, 2, and 3 show the establishment of the composition of complex ions, indicating the dependence of logarithm Ψ of americium and curium on different [illegible]. For the calculation of the instability constants of complex ions formulae (8) and (10) were used, rendering the following expressions:

$$\psi_1 = \beta_1 \cdot [L] = \psi_1^0 \qquad (15)$$

and

$$\psi_1 \frac{\beta_1 \cdot [L]}{\psi_1^0} \cdot [L] = \psi_1^0 \qquad (16)$$

thus, ψ_1 and ϕ were dealt with as the average values of ψ_1 and ϕ, at points where they were constant. The constancy of the values of ψ_1 and ψ

Card 6/[illegible]

are also considered an indication of the fact that the sorption of the complex ion can be disregarded as compared to the sorption of the free cation, i.e., the values of l_1 and l_2 can be disregarded in formula (7) and (8). Table 1c is a list of the determined values of general instability constants of the oxalate, nitrate and sulfate complexes of Am^{+++} and Cm^{+++} and the values of the step instability constants of the Am^{+++} and Cm^{+++} complexes

$$K_1 = \frac{\beta_1}{\beta_1} \quad \text{and} \quad K_2 = \frac{\beta_1}{\beta_1}$$

recalculated for zero ionic strength, using the activity coefficients for the oxalate ions, (ref. 3) and the Davis equation. In discussing the experimental results the authors state that a fair amount of correct data results was obtained experimentally of the instability constants of the $Am(C_2O_4)^+$ ion, using the insolubility method (Ref. 4: I. A. Lebedev, S. I. Petrzhak, R. M. Kazbutina, I. N. Yakovlev, Radiokhimiya, , [illegible], [illegible] and ion-exchange (in both cases [illegible]). The instability constant of the first complex ($AmC_2O_4^+$) determined by the above methods differed [illegible].

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[illegible]

Determination of the composition and ... A[illegible]

factor of two ([illegible] $\cdot 10^{-7}$ and 1.0 $\cdot 10^{-6}$) explained by the error [illegible] in determining the [illegible] of solubility of the americium oxalate and [illegible] the values of which are part of this constant. A comparison of the literature values and those obtained by the authors for the instability [illegible] of nitrate complexes of tri-valent lanthanides and actinides, [illegible] regular decrease of the complex stability with a drop in the radii [illegible] central ions (Table 11). This comes from the addend (nitrate-ion) having large dimensions. The comparison of the instability constants of the [illegible] complex ions of Am^{3+} and Cm^{3+} shows an [illegible] tendency to a weakening of the complex stability in curium, as compared to americium. It [illegible] that the screening effect of the 5f-electrons is present here. There are [illegible] tables, [illegible] figures and [illegible] references: [illegible] Soviet-bloc and [illegible] non-Soviet-bloc. The four recent English-language publications read as follows: [illegible] G. A. [illegible], [illegible] [illegible]; [illegible] Bates, J. Research Nat. Bur. Stand., [illegible]; [illegible] Martin, J. Am. Chem. Soc., [illegible]; [illegible] Spedding, [illegible], J. Am. Chem. Soc., [illegible].

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