ARBUZOV, W.T., kend.tekhn.nauk; GROMOV, V.L., kand.tekhn.nauk; GORSKIY,
B.Z., kend.tekhn.nauk; KALISHCHUK, A.L., kand.tekhn.nauk; KUWITSKIY,
L.P., kend.tekhn.nauk; KUHBATOV, D.I., kend.tekhn.nauk; MOROZOV, N.V.,
kand.tekhn.nauk; PILYUGIN, A.I., kand.tekhn.nauk; PRIMAK, W.S.,
kand.tekhn.nauk; SEMENTSOV, S.A., kand.tekhn.nauk; ULITSKIY, I.I.,
kand.tekhn.nauk; KHUTOHYANSKIY, W.S., kend.tekhn.nauk; SHERENTSIS,
A.A., kand.tekhn.nauk; PINSKIY, Ye.A., inzh.; KORSAK, Yu.Ye., red.;
MATUSEVICH, S.M., tekhn.red.

[Manual on civil engineering] Spravochnik po grazhdanskomu stroitel'stvu. Izd.4., ispr. Kiev. Gos.izd-vo tekhn.lit-ry. Vol.1.
1959. 867 p. Vol.2. 1959. 560 p. (MIRA 12:8)
(Civil engineering)

GROMOV, V., kand. tekhn. nauk

Windows with paired casements. Zhil. stroi. nc.1:15-18 '59.

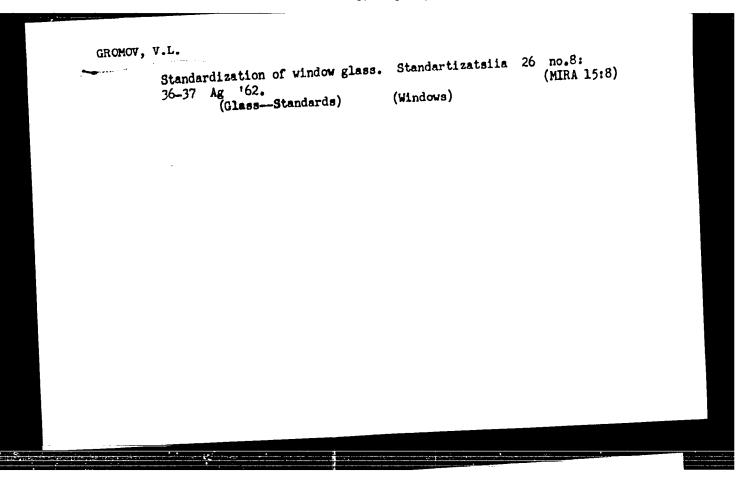
Zhil. stroi. no.1:15-18 '59.

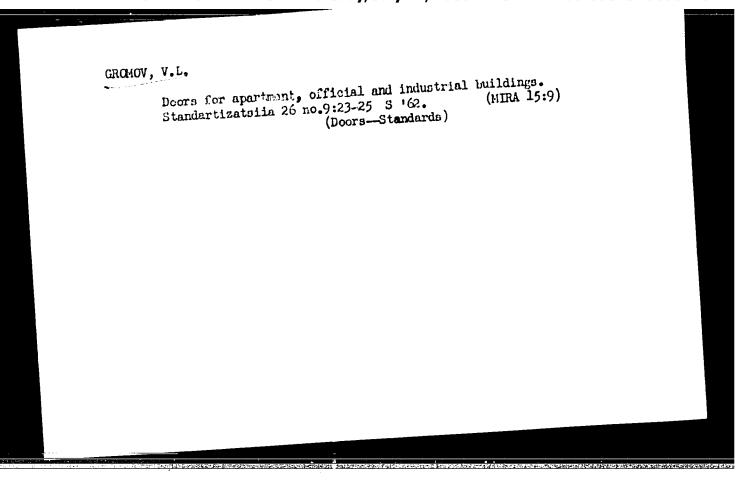
(Windows)

(Windows)

GROMOV, V.L.

Windows for apartment and public buildings. Standartizatsiia
(MIRA 15:7)
26 no.6:34-35 Je 162.
(Windows-Standards)





LOSKUTOVA, L.T.; MAKOTINSKIY, M.P., kand. arkh.; RUDINA, M.A., arkh.; SHPANOV, I.A., arkh. Prinimal uchastiye LIVSHITS, A.M., inzh.; GROMOV, V.L., kand. tekhn. nauk, retsenzeng; KRASNOVSKIY, N.V., kand. tekhn. nauk, retsenzent; PAVLOV, V.P., kand. tekhn. nauk, retsenzent; PODZOROVA, N.G., inzh., retsenzent; FOLOMIN, A.I., doktor tekhn. nauk, retsenzent; GURVICH, E.A., red.

[Catalog of finishing materials and elements] Katalog otdelochnykh materialov i izdelii. Moskwa, Gosstroiizdat. Pt. (Wood and paper) Derevo i bumaga. 1962. 56 p. (MIRA 16:8)

1. Vsesoguznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov.

(Finishes and finishing)

Mikolay Viktorovich, doktor tekhn. nauk; ARBUZOV, Nikolay Terent'yevich, kand. tekhn. nauk; GROWOV, Vasiliy Lukich kand. tekhn. nauk [deceased]; KALISHUK, Aleksandr Lük'yanovich, kand. tekhn. nauk; KURBATOV, Dmitriy Ivanovich, kand. tekhn. nauk; PILYUGIN, Mikhail Semenovich, kand. tekhn. nauk; KHUTORYANSKIY, Aleksandr Abramovich, kand. tekhn. nauk; SHERENTSIS, Aleksandr Abramovich, kand. tekhn. nauk; LAVRIK, Gennadiy Ivanovich, arkh. MALEMA, Georgiy Il'ich, inzh.; PINSKIY Ye'im Aronovich, inzh.; SHKIYAR, Aleksandr Samoylovich, inzh.; BERGER, K.V., red.; VISHNEVYY, V.V., red.; ISHCHENKO, N.S., red.

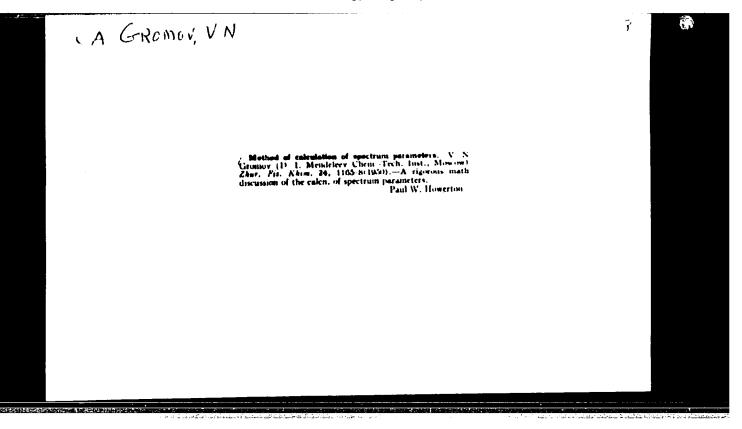
[Manual on civil engineering] Spravochnik po grazhdanskomu stroitel'stvu. Izd.5., perer. i dop. Kiev, Pudivel'nyk, 1965. 2 v. (MINA 18:2)

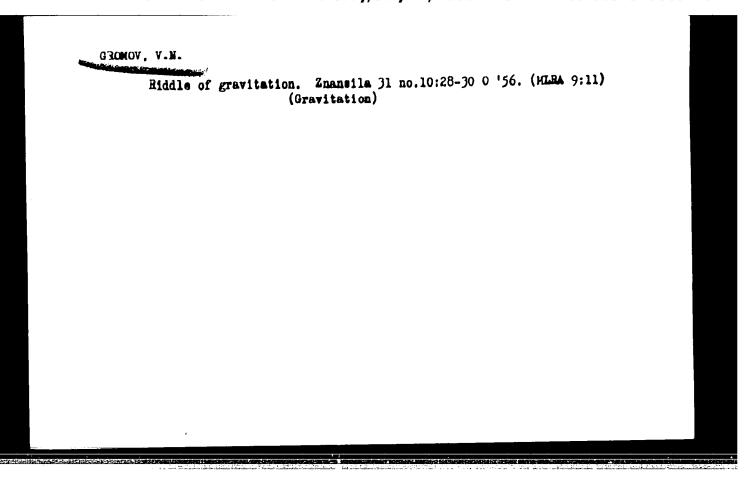
EFROS, I.Ye., inzh.~podpolkovnik; GROMOV, V.M., mayor, red.; STREL'NIKOVA, M.A., tekhn.red.

[Basic structure of bombsights] Osnovy ustroistva pritselov dlin bombometaniia. Izd.2., perer. Moskva, Voen.izd-vo M-va Vooruzhennykh sil SSSR, 1947. 318 p. (MIRA 13:2) (Bombsights)

# "APPROVED FOR RELEASE: Thursday, July 27, 2000

#### CIA-RDP86-00513R00051702





BALANDIN, A.A., akad., red.; KOBOZEV, N.I., prof., red.; LEBEDEV, V.P., dots., zam. red.; MAL'TSEV, A.N., dots., zam. red.; AGRONOMOV, A.Ye., dots., zam. red.; GROMOV, V.N., red.; LAZAREVA, L.V., tekhn. red.

[Transactions of the First Interuniversity Conference on Catalysis] Trudy Mezhvuzovskogo soveshchaniia po katalizu,lst. Moskva, Izd-vo Mosk. univ. No.1. Pt.1. 1962. 475 p. (MIRA 16:7)

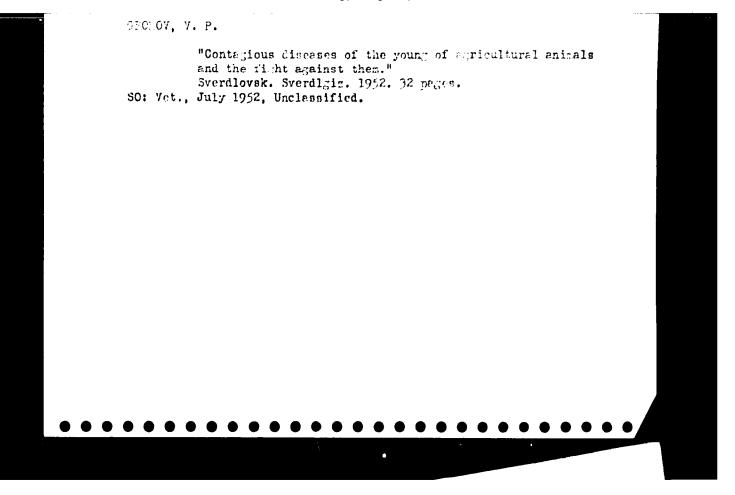
1. Mezhvuzovskoye soveshchaniye po katalizu. 1st. 2. Khimicheskii fakul'tet Moskovskogo gosudarstvennogo universiteta (for Balandin, Kobozev, Lebedev).

(Catalysis—Congresses)

# Reperience in draining fields for the drying of excavation peat. Torf.prom. 30 no.7:9-10 Jl '53. (MLBA 6:7) 1. Isetsko-Ayatskoye torfopredprivative. (Peat industry)

GROMOV, V. P. and NAUMENKO, V. M. (Voronezh Veterinary Station). Paratyphoid epizootic among grown pigs.

So: Veterinariya; 2h; 10; October 19h/; Uncl. TABCON



<u>r. -2</u>

USSR/Diseases of Farm Animals - Diseases Caused by Ractoria

: Rof Zhur - Biol., No 11, 1958, 50171

: Gromov, V.P., Frunkina, Kh.B. Abs Jour

: Sverdlovsk Farm Institute. Author

: Antivirus Therapy of Bovine Brucellosis. Inst

: Tr. Sverdl. 8.-kh. in-ta, 1957, 1, 311-315. Title Oric Pub

Experimental antivirus (AV) therapy was undertaken on 24 cows afflicted with brucellosis. AV was prepared from 3 brucalli strains according to the generally accepted method. The following doses were administered to the cows: for the first injection, 15 ml; then, 15 days later it was followed by a dosts of 50 ml, and 30 days after the Abstract second injection the same dosis was repeated, followed by

50 ml again 30 days after the third injection.

card 1/2

- 12 -

<u> 27. 2000 يىلىد</u> CIA-RDP86-00513R009

USSR/Diseases of Farm Animals. Diseases Caused by R-1 Bacteria and Fungi.

Abs Jour : Ref Zhur-Biol., No 18, 1958, 83547

: Gromov, V. P.; Khokhlachev, V. K. Author Institute: Sverdlovsk Institute of Agriculture : Vaccine Therapy in Brucellosis of Swine

Orig Pub : Tr. Sverdl. s.-kh. in-ta, 1957, 1, 317-320

Abstract : Semiliquid formolvaccine was used for treating brucellosis. On the first day of treatment of this vaccine was injected in a 1 ml dose, on the 3rd day in a 3 ml dose, and on the 6th day in a 5 ml dose. After 70 days the treatment was repeated. The vaccinations resulted in body temperature increases in the sick animals, and they also caused loss of appetite and depression. Vaccine therapy affected the treated animals favorably. Bacteriological, serological, and biological findings were negative.

Card 1/1

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi.

R-1

Abs Jour : Ref Zhur-Biol., No 18, 1958, 83515

: Gromov, V. P., Zhukova, Ye. N., Vetluzhskikh, P.A Author

: Sverdlovsk Institute of Agriculture

: The Effectiveness of Vaccine Therapy in Bovine Inst Title

Brucellosis.

Orig Pub : Tr. Sverdlovsk. s.-kh. in-ta, 1957, 1, 321-326

Abstract : Formolyaccines and heat-killed vaccines were prepared from virulent strains of all three brucella ice and types to be used in vaccine therapy. rab'its infected by brucella cultures were subjected to formolyaccine treatment. Bacteriological examinations of perished and killed mice and rabbits did not reveal brucella discharges. Apart from this, a sharply increased agglutination titer was detected in rabbits. Brucellosis afflicted cows were

treated with intramuscular injections of formolyaccine

Card 1/3

USSR/Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi.

R-1

Abs Jour : Ref Zhur-Biol., No 18, 1958, 83515

Abstract: and of heat-killed vaccine in the following manner; 2 billions of microbic organisms were used for the first injection, 2 billions (3 days thereafter) after again for the second injection, 5 billions (5 days thereafter) for the third injection, 5

(5 days thereafter) for the third injection, 5 billions again for the fourth injection (20 d 's thereafter), 7 billions for the fifth injection (10 days thereafter), 7 billions again for the sixth injection (14 days thereafter), and 10

billions for the seventh injection (20-25 days thereafter). After 1-2 days, a general rise of body temperature was observed in the majority of the vaccinated animals. Also, loss of appetite and a decrease of milk yields were established, as well as swelling of the injection site. Already after the first few

Card 2/2

9

USSR/Diseases of Farm Animals. Diseases Caused by Pacteria and Fungil

R-1

Abs Jour : Ref Zhur-Biol., No 18, 1958, 83515

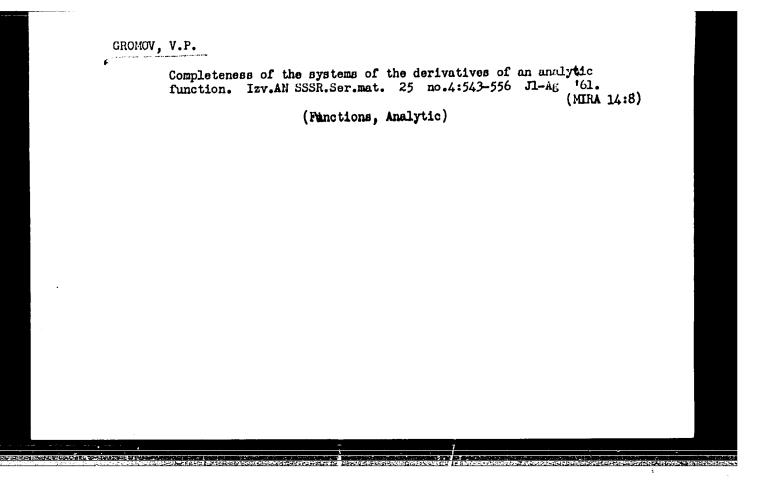
Abstract : injections agglutinin titers rose and remained at a high level (1:800, 1:1600, 1:6400) for a long period of time. Eleven to 13 months after the treatment, a decrease to 1:50 and 1:25 followed or became even negative. The phagocytal index increased in the diseased animals during the vaccination period. Sefore treatment opsonophagocytal reactions were negative or slightly positive. A specific vaccine therapy carried out on 2 farms, prevented recurrences of abortions and resulted in a decrease of barreness. Also, inflammatory processes of the animals sex organs ceased .--I. la. Panchenko

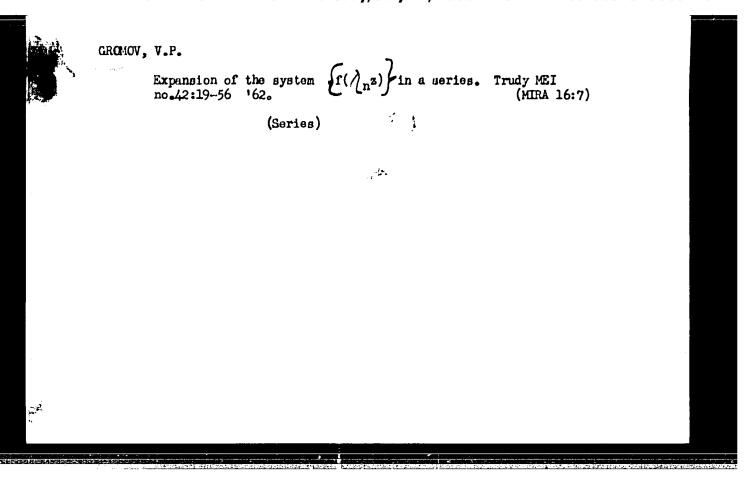
Card 3/3

GROMOV, V. P.

Doc Vet Sci - (diss) "Materials for vaccinoprophylaxis and vaccinotherapy in brucellosis of horned cattle." Kazan', 1961. 19 pp; (Ministry of Agriculture USSR, Kazan' Veterinary Inst); 180 copies; price not given; (KL, 10-61 sup, 223)

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GROMOV, V.P.

Growth of functions on a sequence of points in a ray. Izv.AN Arm.
SSR.Ser.fiz.-mat.nauk 15 no.1:37-51 '62. (MIRA 15:2)

1. Moskovskiy energeticheskiy institut.

(Functions, Entire) (Sequences (Mathematics))
```

Series of \f(\hat{\cappa}\_n\mathbb{Z})\int functions. Dokl.AN SSSR 144 no.1:23-26

My '62. (MIRA 15:5)

1. Moskovskiy energeticheskiy institut. Predstavleno akademikom
I.M.Vinogradovym.

(Series) (Functions, Entire)

GROMOV, V. P.

Dissertation defended for the degree of <u>Candidate of Physicomathematical</u>
<u>Sciences</u> at the Mathematical Institute imeni V. A. Steklova 1962:

"Functional Orders of the Dirichlet Series Type."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

The dnf () series. Mat. sbor. 61 no.3:272-290 Jl '63.

(Series)

Completeness of system of analytic functions in a region.

Mat. sbor. 62 no.3:320-334 N '63. (MIRA 16:11)

GFOMOV, V.P. (Moskva)

Completeness of certain systems of analytic functions in a region. Mat sbor. 6 no.2:204-214 F '65. (MIHA 18:4)

GROMOV, V.F. (Moskva) Growth of functions defined by series of the type  $\sum_{i=1}^{00} d_n i$  ( $\lambda_n z$ ). Mat. sbor. 67 no.2:190-209 Je \*65. (MIRA 18:8)

Method of programmed secondating for crystal or order in reffring structural programs using an electric digital computer. Zhur. strukt. khim. 6 no.1:142-152 Ja-P \*65.

(MIRA 18:12)

1. Vychtslitel\*nyy teentr Dirarkogo otdeleniya AN SSSR, Novosibirsk. Sabmittad June 26. 1963.

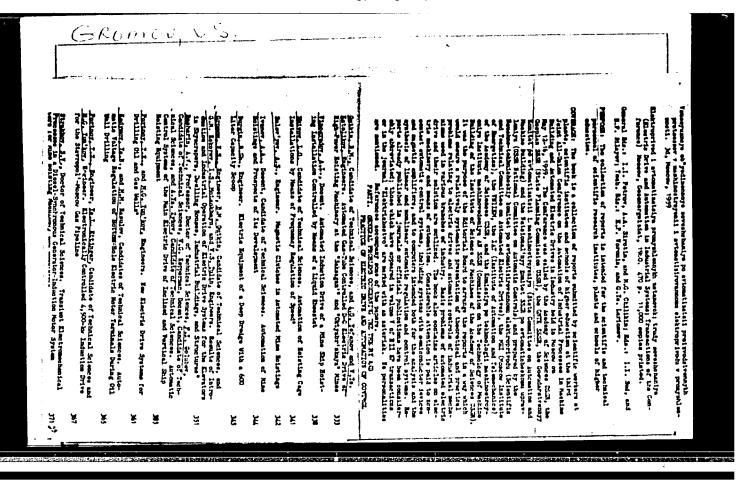
1. 23207-66 EWT(d)/EWP(1) IJP(c)	
ACC NR: AP6013588 SOURCE CODE: UR/0039/65/066/002/020	04/0214
AUTHOR: Gromov, V. P. (Moscow)	20
ORG: none	R
TITLE: Completeness of certain systems of analytic functions in a region	
SOURCE: Matematicheskiy sbornik, v. 66, no2, 1965, 204-214	
TOPIC TAGS: analytic function, mathematics	
ABSTRACT: /Section 1 of the article indicates the necessary and sufficient c ditions for the completeness of the lacunary system $ \left\{ \left( \overline{D}^{p} \mathcal{V} F(z) \right)^{q} \right\} \left( 0 \leq q_{\mathcal{V}} \leq s-1,  n_{\mathcal{V}} = p_{\mathcal{V}}  s+q_{\mathcal{V}},  \mathcal{V} = 1,  2,  \ldots \right) $	on-
in a simply-connected region D (the analytic function F(z) is assumed to be regular in region D). It is shown that the system	
$\left\{ \left( \overline{D}^{p} F(z) \right)^{(q)} \right\} (0 \le q \le s - 1, p = 0, 1, 2,) \text{ is complete or incomplete}$	
simultaneously with the system of derivatives $\{F^{(n)}(z)\}$ $\{n=0, 1, 2,\}$	).
Section 2 shows that a certain connection exists between the regions of completeness of the systems	,
Card 1/2 UDC: 517.53	72

$\{y(z, \lambda_j)\}$ $(j = 1, 2,)$ and $\{D^n F(z)\}$ $(n = 0, 1,)$ (here $D^0 F = F$ , $D^n F = D / D^{n-1}F$ ). Particular cases are considered as to the connection of the regions of completeness of the systems $\{e^{\lambda_j}, z\}$ and $\{F^{(n)}(z)\}$ . Originart, has: 2 formulas. $\{JPRS\}$						
	ZJPKS/ SUBM DATE: 10Sep63 / 0	RIG REF: 010	•			
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$\cdot$ $\Omega_{\Omega}$		••				

GROMOY, Y. S.

SHESTOPEROV, S.V., doktor tekhnicheskikh nauk; BOGIN, N.M., kandidat tekhnicheskikh nauk; IVAMOV, G.S., inzhener; LUKICHEV, N.A., inzhener; DAVYDOV, L.S., inzhener; GROMOV, V.S., inzhener; POPOV, N.A., inzhener; ZHU-RAVLEV, G.M., master.

Vibrators for making wire reinforced ties on stands. Transp.stroi. 6 no.3:12-14 Mr \*56. (MLRA 9:7) (Railreads--Ties, Concrete)

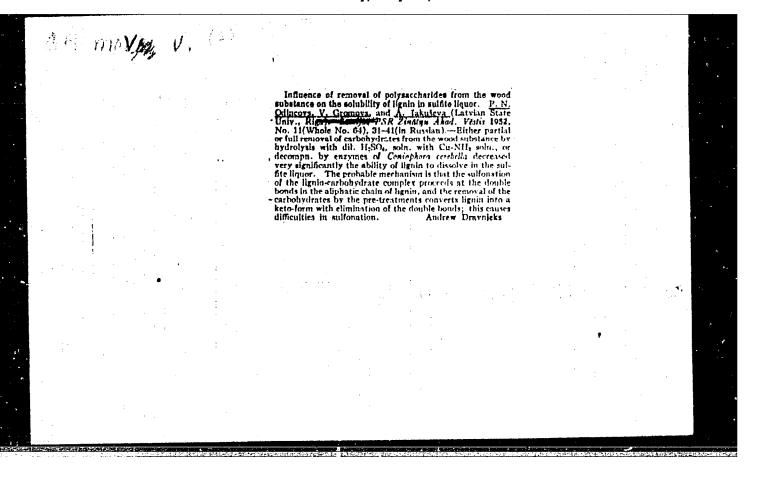


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CIA-RDP86-00513R00051702(

## "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051702



TSIRULIS, F.Ya., inzhener; GROMOV. Y.Sa. inzhener.

Utilization of dolomite and dolomitized limestones in acid towers.

Bum.prow. 3o no.1:23-24 Ja '55. (MIRA 8:3)

1. Tsellyulozno-bumazhnyy kombinat "Sloka".

(Paper industry) (Dolomite)

GROMOV, V. S., Master Chem Sci -- (diss) "Investigating the process of hydrotropic neating of deciduous wood and straw in cettulose making." Righ, 1957, 30 pp. Acad Sci Laty SSR. Inst of Lumber), 200 copies. (A., No. 40, 1957, 90)

H-33

Lyce Mich . " "

COMMUNIST CHINA/Chemical Technology - Chemical Products and

Their Application, Part 4. - Cellulose and Its

Derivatives, Paper.

Abs Jour : Ref Zhur-Khimiya, No 14, 1958, 48995

Author : V.S. Gromov, P.N. Odintsov

Inst : Title : Cellulose Pulping of Hardwood and Straw with Hydrotropic

Solvents.

Orig Pub : Tszaochzhi gun-e, 1957, No 11, 22-24

Abstract : Translation.

See RZhKhim, 1958, 3277.

Card 1/1

Cooking wor of hydrotro	odpulp from wood of opic solvents. Bun	f decidious trae .pror. 32 no.6:1	s and straw with us 1-14 Je - '57. (MIRA)	
1.Institut	lesokhozyaystvenn (Woodpulp	ykh problem Akad industry) (Sol	emii nauk Latviysk vents)	oy SSR.

GROMOV, V. (Riga); PORMALE, M. (Riga)

Hydrotropic and alkaline boiling of green wood for obtaining cellulose with simultaneous hydrogenation of lignin. Pt. 2. Fractionation of hydrogenated lignin products and separation of phenols.

Vestis Latv ak no.4:85-92 \*61. (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut lesokhozyaystvennykh problem i khimii drevesiny.

(Wood) (Lignin) (Hydrogenation) (Phenols) (Cellulose)

GROMOV, V.S., kand. khim. nauk, otv. red.; DOI BURG, G.E., kard. khim. nauk, red.; IYEVIN'SH, I.K.[Ievins, I.], kand. tekhn. nauk, red.; KAL'HINA, V.K.[Kalnina, V.], kand. tekhn. nauk, red.; RUPAYS, Ye.A.[Rupais, E.], kand. khim. nauk, red.; SERGEYEVA, V.N., doktor khim. nauk, red.; E-MUSH, N.A.[Ermus, N.], st. nauchn. sotr., red.; YUKNA, A.D.[Jukna, A.], kand. tekhn. nauk, red.; LEVI,S., red.; SEKLENNIK, Ch., red.

[Chemical processing and preserving of wood] Khimicheskaia pererabotka i zashchita drevesiny. Riga, Izd-vo AN Latv.SSR, 1964. 238 p. (MIKA 18:1)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu Akademija. 2. Institut khimii drevesiny AN Latviyskoy SSR (for Gromov, Sergeyeva, Ermush).

GROMOV, V.V., prof. (Kazan') Professor V.K. Trutnev; obituary. Kaz. med. zhur. no. 2:115-118 (MIRA 14:4) Mr-Ap 161. (TRUTNEY, VASILII KUZ'MICH, 1891-1960) 4

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In a remote division. Put: i put. cl.or. 7 no.5 32 33 463.

(MEA 16:7)

1. Starshiy normirovshchik Lenakey dratanteli puti Vesteshnessibirskoy derogi.

(Railreads--Maintenance and repair)
```

GROMOV, V.V., prof. (Kazan')

In memoriam: G.A. Zharkovskii. Kaz.med. zhur. nc.1:104 Ja-F '63.
(MIRA 16:8)

(ZHARKOVSKII, GRIGORII ARTUROVICH, 1969 - 1962)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000517020

\*

Passage of discharges penstocks during the work construction through the turbine-unit at the Irkutsk Hydroelectric Power Station. Gidr. stroi. 27 no.5:17-22 My '58. (MIRA 11:5) (Irkutsk Hydroelectric Power Station) (Penstocks)

All-Russian conference on problems of hearing disorders. Kez.
med. zhur. no. 4:82-83 Jl-Ag '60. (MIRA 13:8)

(DEAFNESS)

AUTHORS:

Spitsyn, Vikt. I., Gromov, V. V.

501/89-5-4-6/24

TITLE:

Investigation of the Law of the Sorption of Radioactive Strontium on Montmorillonite and Its Fixation by the Method of Calcination (Izucheniye zakonomernostey sorbtsii radioaktivnogo strontsiya na montmorillonite i zakrepleniya yego

metodom prokalivaniya)

PERIODICAL:

Atomnaya energiya, 1958, Vol 5, Nr 4, pp 446-452 (USSR)

ABSTRACT:

The sequence of the various cations decreasing the absorption of Sr 89,90 in montmorillonite (from Oglanlinsk, Krym, Kazakhstan) is as follows:

 ${\rm Al}^{+3} > {\rm Fe}^{+3}$ 

 $Ba^{+2} > Ca^{+2} > Mg^{+2} > H^{+} > NH_{4}^{+} > K^{+} > Na^{+}$ It was stated that the sorption of  $Sr^{89,90}$  by montmorillenite has the character of ion interchange and obeys the law of mass action. The presence of anions such as  $CO_3^{-2}$ ,  $SO_4^{-2}$ ,  $C_2O_4^{-2}$ , which, with strontium, form a difficultly soluble salt, does not change the absorption mechanism. They do, however, decrease

2 Card

507/89-5-4-6/24

Investigation of the Law of the Sorption of Radioactive Strontium on Montmorillonite and Its Fixation by the Method of Calcination

the amount of the absorbed strontium, which is probably due to the forming of radioactive colloids. Calcination at 850-900°C and extended duration of calcination over more than 1-2 hours does not exercise any influence upon the degree of fixation of  $Sr^{89,90}$  in montmorillonite. Activity, which can be washed out by river- or sea water, amounts to  $\sim 2\%$ . It is assumed that already before the crystal lattice begins to change (T =  $800^{\circ}$ C) fixation is brought about by the formation of difficultly soluble strontium compounds with the absorber. Above  $800^{\circ}$ C the modification of the crystal lattice structure and the step-like vitrification of the material become effective. There are 7 figures, 1 table, and 19 references, 9 of which are Soviet.

SUBMITTED:

January 7, 1958

Car. 2

5(4) AUTHORS:

301 20-123-4-42/53 Spitsyn, Vikt. I., Academician, Gromov, V. V.

TITLE:

The Influence of the Radioactivity of Barium Sulfate on Its Sorptive Properties (Vliyaniye radioaktivnosti sul'fata

bariya na yego sorbtsionnyye svoyatva)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Mr 4, pp 722-724

(USSR)

ABSTRACT:

The authors of the present report investigate the influence of radioactivity on the sorptive properties of solids. Barium sulfate, which had already previously been thoroughly investigated (Refs 6, 7, 8), was used as a sorbent. The present paper deals with the adsorption from aqueous solutions of acid orange dye (Orange AT2B (C16H1104H2S)Ha and of two

basic dyes methylene-blue  $(c_{16}H_{18}N_{5}S)$ cl and brilliant green  $(c_{27}H_{35}N_{2})$ cl, occurring on these sorbents.  $S^{55}$ , which was

introduced into the barium sulfate during its precipitation, served as a source of radioactive radiation. The production of the  ${\tt BaSO}_4\text{-preparations}$  is described in short. 3  $_{\rm G}$  of the

Card 1/4

\$507/20-123-4-42/53\$ The Influence of the Radioactivity of Barium Sulfate on Its Sorptive

precipitate to be investigated was shaken at a temperature of  $(25 \pm 0.5)^{\circ}$  for four hours with 15 ml of the coloring substance solution of the corresponding concentration. After this, the coloring substance content in the liquid phase was spectrophotometrically determined by means of the apparatus SF-4 and SF-2M. Measuring errors amounted to 3-4%. The results obtained by these investigations are shown by three diagrams. The acid orange dye is to the largest extent adsorbed by the BaSOA, viz. by one order of magnitude more than the other coloring agents. Methylene-blue is adsorbed somewhat more than brilliant green. The sorption of the two basic coloring substances diminishes with increasing specific radioactivity of the barium sulfate. Thus, the sorption capacity for methylene-blue at activities of 0.01 - 10 millicurie/g depends linearly on the logarithm ofthe specific activity of  ${\tt BaSO}_A$ . The authors also carried out special investigations for the purpose of solving the

Card 2/4

Properties

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000517020

problem as to whether the decrease of the adsorption of the

307/20-125-4-42/53

The Influence of the Radioactivity of Barium Sulfate on Its Sorptive Properties

investigated basic coloring substances is only imagination, and whether it is not due to loss of color under the influence of radiation. Also these experiments are described in short. According to the results obtained the variation of the sorption of coloring substances is not due to destruction of these substances by the action of S<sup>55</sup> radiation. Moreover, no visible chemical or radio-chemical changes could be observed in the liquid phase that might have exercised any influence upon the stability of coloring substances or upon the intensity of their sorption. According to the authors' opinion, the variation of the sorption of coloring substances observed may be connected with the occurrence of a positive charge on the precipitate of the radioactive barium sulfate (in consequence of the continuous  $\beta$ -radiation). There are 4 figures, 1 table, and 8 references, 3 of which are Soviet.

Card 3/4

507/20-123-4-42/53

The Influence of the Radioactivity of Burium Sulfate on Its Sorptive

Properties

ASSOCIATION: Institut fizicheskoy khimii Akademii naub SSSR

(Institute of Physical Chemistry of the Academy of Sciences, USSR)

July 25, 1958 SUBMITTED:

Card 4/4

GRONOV, V. V.; ZAKHAROV, S. I.; ZHAGIN, B. P.; SPIRIDOV, F. M.; V. I. SPITSYN; AND BALUKOVA, V. D.;

"Sorption regularities in Behavior of Fission Product eElements during Filtration of Their Solutions through Comunds."

report presented at the Scientific Conference on the Disposal of Radioactive Wastes, Monaco, 16-21 November 1959.

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Effect of the radioactivity of precipitates on their sorptive properties. Radiokhimiia 1 no.2:181-184 \*59.(MIRA 12:8)

(Radioactive substances) (Sorption)

SPITSYN, Vikt.I.; (MOMOV, V.V.

Adsorption of radiostrontium by certain soil minerals.
Pochvovedenie no.12:45-50 D '59. (MIRA 13:4)

1. Institut fizicheskoy khimii Akademii nauk SSSR. (Strontium--Isotopes) (Minerals in soil)

8:519 s/076/60/034/06/33/040 BO15/B061

21.3200

AUTHOR:

Gromov, V. V. (Moscow)

TITLE:

Desorption of Microquantities of Strontium and Cesium

From Montmorillonite and Kaolinite

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 6,

pp. 1357-1363

TEXT: The desorption of Sr and Cs 137 from montmorillonite and kaolinite by NaCl and CaCl solutions (Table 1, composition) was investigated. Both isotopes were used in carrier-free 10<sup>-7</sup> - 10<sup>-9</sup> N chloride solutions. The montmorillonite clay was from the Oglanly, and the kaolinite from the Glukhovitsy deposit. The equation  $q_1 = K'$  a and/or q = Kc (2) (q = sorbed ion quantity, K = constant) was derived from the equation (1) (Ref. ..., proposed by B. P. Nikol'skiy, and it corresponds to the desorption of microquantities of ions by ion exchange and a completely reversible adsorption of these ions. The constants of the equation (2), obtained in the tests, are given in Tables 1 and 2 and confirm the validity of the

Card 1/2

Description of Microquantities of Strontium and S/076/60/034/06/33/040 Cesium From Montmorillonite and Kaolinite B015/B061

derived equation. The desorption curves obtained (Figs. 1-3) show that the sorption of Sr<sup>90</sup> on montmorillonite and kaolinite is completely reversible, and that of Cs<sup>137</sup> is partially irreversible. Sr<sup>90</sup> is eluted better with calcium- than with sodium-ions, whilst Cs<sup>137</sup> is desorbed better with sodium ions. Both isotopes are desorbed more easily by kaolinite than by montmorillonite. Finally, Academician Viktor Ivanovich Spitsyn is thanked for hints. There are 8 figures, 3 tables, and 14 references: 8 Soviet and 6 American.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute for Physical Chemistry of the Academy of Sciences, USSR)

SUBMITTED: September 11, 1958

X

Card 2/2

BELYAKOVA, L.D.; GROMOV, V.V.; KISELEV, A.V.; SPITSYN, Vikt.I., akademik .

Adsorption of hexage and benzene vapors on nonradioactive and radioactive barium sulfate samples. Dokl.AN SSSR 138 no.5:1139-1142 Je '61. (MIRA 14:6)

1. Institut fizicheskoy khimii AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

(Barium sulfate) (Sulfur—Isotopes) (Adsorption)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000517020

\$/020/61/139/005/000/02+ B103/B208

5.4600

AUTHORS: Spitsyn, Vikt. I., Academician Zemlyanova, L. I. Mikhaylenko, I. Ye., Gromov, V. V., and Zimakov I. Ye.

TITLE:

Electron-microscopic examination of the effect of radioactive radiation of solids on the structure of their surface

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139 no. 5 1961 1163-1165

TEXT: The crystal lattice of solids is disturbed by the ionizing action of their own radioactive radiation and the appearing recoil atoms, which also changes their surface structure. According to the authors, all this may be one of the causes of the effect exerted on physicochemical properties of solids by their own radiation (sorptive power, solubility in water, kinetics of heterogeneous processes of isotopic exchange catalysis, etc.). The authorsmale electron-microscopic studies of the surface structure of radioactive samples of K2SO4. MgSO4. BaSO, and MoO3 which had been used previously to study adsorption, catalysis, and isotopic exchange Except for BaSO the pictures were oftained by Card 1/5

Electron-microscopic examination ...

\$/020/61/139/009/020/02: B103/B208

replication, and for BaSO<sub>4</sub> the method of louble replicas (attiver quarty replicas) was used. K<sub>2</sub>SO<sub>4</sub>, MgSO<sub>4</sub>, and MoO<sub>3</sub> were applied to a fill limin film in the form of a fine powder. A 200 - 300 Å thick quarty layer who sputtered onto it in vacuo. After dissolution of collodion in amylacetate, the quartz replica were rinsed in distilled water in the case of K<sub>2</sub>SO<sub>4</sub> and MgSO<sub>4</sub>, and in dilute alcohol in the case of MiO<sub>3</sub>. Pair article samples of K and Mg were obtained by adding small amounts of NaSO<sub>4</sub> and taining S<sup>55</sup>. BaSO<sub>4</sub> precipitates were isolated by a method previously described by Vikt. I. Spitsyn, V. V. Gromev (DAN. 123, 722 (1915); Radiokhimiya 1, 181 (1959)). Radioactive MgO<sub>3</sub> was obtained by adding an MoO<sub>5</sub> containing sample to ordinary MgO<sub>5</sub> in order to attain the necessary specific radioactivity. The mixture was converted to ammonium molycdate by treating it with aqueous ammonia; it decomposed when neated. The resultant MgO<sub>3</sub> was sublimed at 850°C. When comparing the pictures (magnification: 12,000 times) [Abstracter's note: Not reproducible] the

Electron-microscopic examination...

\$/020/61/139/005/020/021 B103/B208

authors found the following differences in the crystal surface of a) radioactive and b) non-radioactive samples: 1) The surface of the samples and b) the samples are the samples and b) the samples are the samples and b) the samples are the sample are t comparatively smooth, that of a) highly pitted. The crystal surface of  $\mathtt{Baso}_A$  is changed to a high extent by incorporation of small ratium amounts.  $K_2SO_4$ . BaSO $_4$ , and MoO $_3$  also show some changes in their surface structure after an external irradiation with 800-kev electrons. Although the dose was much higher in this case, the changes were less princunced than those caused by radioactive radiation. The above surface lefects appear rather regularly over the whole length of the crystal of the radioactive substance. The deep cavities observed in samples irradiated with neutrons were absent. The surface changes resemble those observed in metal etched by an ion beam. The authors further conclude from the com parison of the photographs that the surface defects of the railmantive samples develop already during the separation of the solid phase from the solution or from the gas. They assume that the radiation of electrons or other charged particles during the crystallization of solid substances gives rise to a great number of new active centers (seed crystals particle-size distribution on separation of radioactive salts from

Card 3/5

27255

Electron-microscopic examination ...

\$/020/61/139/005/020/02 B103/B208

solutions differs from a non-radioactive preparation. The content of smaller fractions considerably increases. The authors assume that additional crystallization centers are formed directly on the surface of the radioactive salts owing to radiation. The larger crystals thus in onpose, and the surface becomes looser. A dendritic structure results in some cases (after separation of MoO, from the gaseous phase). The further development of the surface of solids under the action of prolonged radio active radiation reminds of the radiation corrosion rather than of the growth of irradiated crystals, as is the case in neutron tombariment The adsorption of the radioactive samples is changed in the following way: Radioactive samples adsorb far more vapor of methanol benzene, and hexane per unit surface of BaSO4 precipitate than do non-radioactive samples. This is considered to prove essential differences in the surface structure between these two types of samples. There are 1 figure, 2 tables, and 16 references: 15 Soviet-bloc and 1 non-Soviet bloc. The reference to English-language publications reads as follows: Ref. 13. H. Newkirk, J. Nucl. Materials. 2, 269 (1960).

Card 4/5

Electron-microscopic examination

\$/020/61/139/005/020/021 B103/B208

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

SUBMITTED: April 15, 196:

X

Card 5/5

GROMOV, V.V.; SPITSYN, Vikt. I., akademik

Effect of external irradiation on the sorption properties of Ba SO<sub>4</sub>. Dokl. AN SSSR 141 no.4:891-893 D '61. (MIRA 14:11)

1. Institut fizicheskoy khimii AN SSSR.

(Solids, Effect of radiation on)

(Barium sulfate)

(Sorption)

\_\_\_\_

GROMOV, V.V.

Tendipedid larvae (Diptera) in the water of the Sylva Bay of Kama Reservoir. Biul. Inst. biol. vodokhran. no.12:38-41 162. (MIRA 16:3)

1. Permskiy gosudarstvennyy universitet.
(Kama Reservoir—Chironomidae)

Adsorption of various substances on radioactive samples of barium sulfate. Radiokhimia 4 no.4:410-421 '62.

(MIRA 15:11)

(Barium sulfate) (Sulfur—Isotopes)

(Adsorption)

SPITSYN, Vikt.I., akademik; GROMOV, V.V.

Effect of the radioactive radiation of the solid phase on the kinetics of potassium sulfate recrystallization. Dokl. AN SSSR 147 no.3:663-666 N 162. (MIRA 15:12)

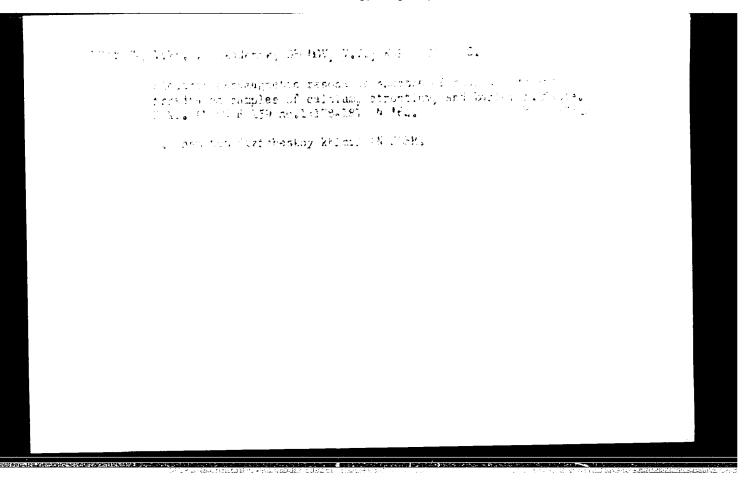
1. Institut fisicheskoy khimii AN SSSR.
(Potassium sulfate) (Crystallization) (Radiation)

Structure of radioactive deposits. Dokl.AN SSSR 149 no.3:626-628 Mr '63. (MIRA 16:4)
1. Institut fizicheskoy khimii AN SSSR. Predstavleno akademikom V.I.Spitsynym. (Radioactive substances) (Sulfates)

SPITSYN, Vikt.I., akademik; GRIMW, V V.

Effect of electrolytes on the absorption of tyes by radioactive precipitates of BaSDg. (bkl. AN S.SM 156 no. 41 A27-429 My '64.

1. Institut fizitheskey khimit AV S. F.



5/844/62/000/000/111/129 D207/D307

AUTHORS: Spitsyn, V. I. and Gromov, V. V.

TITLE: Effect of radiation on sorption properties of barium

sulfate

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-

mii. Ed. by L. S. Polak. Moscow, Izd-vo AN BBSR, 1962,

646-650

TEXT: The adsorption of an aqueous solution of methylene blue on precipitated  ${\rm BaSO}_4$  was reduced by activating the sulfate with  ${\rm S}^{35}$ but it rose on adding radium (3.0 x  $10^{-7} \mu c/g$ ) to BaSO<sub>4</sub>. The converse was found for the adsorption of an aqueous solution of acid orange on Baso4: radium strongly reduced the adsorption while the activation with  $S^{55}$  increased it. This behavior was due to the positive charging of BaSO<sub>4</sub> surface by the ß emission of  $S^{55}$  and the negative charging by the A emission of radium. The charged surface of

Card 1/2

Effect of radiation ...

3/844/62/000/000/111/129 D207/D307

the sulfate attracted preferentially the dye with the opposite charge (methylene plue and acid orange have oppositely charged dye ions). NaCl added to the dye solutions reduced the difference between the adsorption on activated and unactivated BiSO<sub>4</sub>. Then the S<sup>35</sup>-activated BaSO<sub>4</sub> was stored for 100 - 200 days, the adsorption of both dyes was not greatly affected because structural changes on the surface occurred immediately after activation; the observed small reduction of the adsorption with time was are to the 'polishing' effect of the B emission acting for a long time. A similar 'polishing' effect was found on irradiation of the unactivated BaSO<sub>4</sub> with 800 kee electrons or 1.5 Mev protons, the effect being stronger for lower dose rates. There are 4 figures and 1 table.

ASSOCIATION: Institut fizicheskoy khimii AN SSJR (Institute of Physical Chemistry, AS USSR)

Card 2/2

L 11051-63

EVIT (m) /BDS--AFFTC/ASD--DM

53

ACCESSION NR: AP3001183

5/0089/63/014/005/0491/0493

AUTHOR: Gromov, V. V.; Spitsyn, V. I.

TITLE: Study of sorption properties of silica gel irradiated by neutrons

SOURCE: Atomnaya energiya, v. 14, no. 5, 1963, 491-493

TOPIC TAGS: sorption after nuclear radiation, nuclear reactor, calcium ions, silica gel sorption

ABSTRACT: It has been shown in a number of papers, both by these authors as well as by others, that, among other effects, the irradiation of a surface of a solid results in a change of sorption. In particular, the sorption by silica gel irradiated mainly by Gamma rays were studied in recent papers. Both an increase and a decrease of sorption were observed. In the present paper, the change of sorption of silica gel in an aqueous medium was studied after irradiation by both neutrons and Gamma rays in a nuclear reactor. Pure, coarse silica gel was irradiated by the flux of thermal neutrons and gamma rays. The sorption of both calcium ions and of methylene blue was measured. It was found that sorption is lowered after radiation, the more so the longer the irradiation time. The authors attribute this to a partially irreversible dehydration of silica gel. Orig. art. has: 2 figures.

Card 1/2

I. 11051-63 ACCESSION NR: AP3001183

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ASSOCIATION: none

SUBMITTED: 22Jun62

DATE ACQD: 21Jun63

ENCL: 00

SUB CODE: 00

NO REF SOV: 010

OTHER: 003

kes /C/C Card 2/2

24299-66 ENT(1)/T JK ACC NR: AP6005094 (A) SO	URCE CODE: UR/0325/65	. 1
UTHOR: Gromov, V. V.		27
org: none		
TITLE: Distribution of the C Inlet of the Kama water reser	Caspia crayfish Corophi rvoir	ium in the Sylvenskiy
SOURCE: Nauchnyye doklady vy	yashey shkoly. Biolog	
TOPIC TAGS: water pollution, fresh water, animal physiolog	gy, brozog20co/ -	()
ABSTRACT: The number and hal a desirable biomass as food t this reservoir was filled to This caused migration to par	bitat of Corophium cur for fish, was determin cover 100 km <sup>2</sup> of the ts with river conditio	vispinum (Perecariose), ed since 1956 when Sylvenskiy Inlet. ns, shallow with winter. thus killing
gravel. Some of these shall the Corophium which requires migrated to lower parts with	Ow parus 11020 o.s.	Subgequently it
Cord 1/2		

ACC NR. AP6005094

91.3 g/m² in 1957 under river conditions. In 1962-63 Corophium was found in the flooded forest at a 57.8 g/m² biomass. It was concluded that 8 years after the reservoir was filled, the Corophium had migrated from the shallow river-like perts to occupy the biotope of the first half of the inlet, living not only on wooded bottoms but also on non-silted rooks, and that it will probably occupy the inlet wherever oxygen conditions are favorable. There is some competition with Dreissena polymorpha. It is recommended that Coriphium be artificially transplanted to other inlets of the reservoir to sugment fish food since it cannot migrate by itself due to berriers of contaminated water.

Orig. art. has: none.

SUB CODE: 06,03/SUBM DATE: 16Dec64/ ORIG REF: 003

NR: AT7001783 SOURCE CODE: UR/3119/66/000/004/0049/0	0052
THOR: Gromov, V. V.; Karaseva, L. G.	
3: Institute of Physical Chemistry AN SSSR (Institut fizicheskoy knimii AN SSS	R)
TLE: Radiation damage in radioactive and gamma-irradiated calcium, strontium, crium sulfate	
URCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 4, 1966. Ionnyye istally (Ionic crystals), 49-52	
PIC TAGS: calcium sulfate, strontium compound, barium compound, sulfate, radia mage, radioactivity effect, gamma radiation, beta radiation, electron paramagne sonance, paramagnetic susceptibility	
STRACT: The authors used electron paramagentic resonance to study the transform one occurring in a crystal lattice of rare-earth sulfates under the influence of the radiation from S <sup>35</sup> introduced into these compounds. In addition, they invested nonradioactive samples of the same salts irradiated with gamma rays from Calle procedure for preparing powders of the radioactive salts was described earlied AN SSSR, v. 149, 626, 1963). The tests consisted essentially of determining the nation of paramagnetic centers in the radioactive sulfates, determining the centration of the paramagnetic centers as a function of the specific radioactive.	sti- a <sup>60</sup> . er he ac- con-
entration of the paramagnetic centers as a function of the special and 1/2	
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### ACC NR: AT7001783

and measuring the annealing of the paramagnetic centers in the irradiated sulfates. The results show that the higher the level of the specific radioactivity of the salt, the more rapidly equilibrium is attained in the formation of the paramagnetic centers. The paramagnetic-center concentration increases with radioactivity but eventually attains saturation. It is concluded from the results that irradiation produces in the investigated salts localized unpaired electrons, which remain stable up to certain temperatures. The most stable EPR signal is found to be due to the radical SO<sub>3</sub>. The asymmetry of the observed EPR line is attributed to the radical SO<sub>4</sub>, which has a three-axis anisotropy of paramagnetic susceptibility. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 005

Card 2/2

GROMOV, V.V.

Modern changes in the distribution of Caspian forms in the Kamma River.[with English summary in insert]. Zool.zhur.35 no.11:1608-

1616 D '56. (MIRA 10:1)

1.Molotovskiy gosudarstvennyy universitet.
(Kama River--Fresh-water fauna)

Effect of industrial semiddle course of the Ka	Effect of industrial sewage on the water fauna and fish middle course of the Kama River. Vop. ikht. no.10:172-18		
1. Permskiy universitet.	(Kama RiverWaterPellution) (Kama RiverFisheries)		

GROMOV, V.V.

Hydrobiological characteristics of the upper course of the Iren'
River. Uch. zap. Perm. gos. un. 13 no.1:63-73 '60.

(MIRA 14:11)

(Iren' River.—Fresh-water fauna)

(Trout)

(Fishes.—Food)

# The fauna of aquatic organisms occurring on submerged wood in the Sylva Bay of Kama Reservoir. Zool. zhur. 40, no.3:309-317 Mr '61. 1. State University of Perm. (Kama Reservoir—Chironomidae)

GROMOV, V.V.

Aquatic organisms occurring on decaying wood in Eama Reservoir (exemplified by the Syra River Estuary). Dokl. AN SSSR 142 no.3: 692-694 Ja 162.

1. Permskiy gosudarstvennyy universitet im. A.M.Gor'kogo. Fredstavleno akademikom Ye.N.Pavlovskim. (Kama Reservoir--Fresh-water fauna)

JD/HW/GG Pr-11/P11-11 EWT(m)/EPF(c)/EWP(1)/EPF(n)-2/T/EWP(t)/EWP(b) L 54700-65 S/0020/65/160/005/1111/1113 4/8 ACCESSION NR: AP5007570 AUTHOR: Gromov, V. V.; Kapshaninov, Yu. I. TITLE: Preparation of highly dispersed electrolytic platings of crystalline cerium oxide under irradiation 19 SOURCE: AN SSSR. Doklady, v. 160, no. 5, 1965, 1111-1113 TOPIC TAGS: crystalline cerium oxide plating, cerium oxide plating, cerium oxide, irradiation, highly dispersed plating irradiation, highly dispersed plating ABSTRACT: The effect of ionizing radiation on the degree of dispersion of electrolytic crystalline platings of cerium oxide on stainless steel was studied. The experimental set-up contained a 1.5 cm<sup>2</sup> Pt-anode rotating at about 120 rpm, a 2 cm<sup>2</sup> stainless steel cathode, and an LP-5 glass electrode for pH recording. In each experiment a 50 ml solution of CeCl<sub>3</sub> was used containing 0.02 mg of Ce<sup>3</sup>/ml. The following conditions were also constant: electrolysis duration 1 hour, current density 70 ma/cm<sup>2</sup>, voltage 12V, pH 2.5, and temperature 55°C. In all cases 0.8 ± 0.05 mg or 80 ± 5% of Ce<sup>3†</sup> ions contained in the electrolyte was deposited on the stainless steel cathode. In one series of experiments Ce<sup>144</sup> isotope (0.2, 2.0 and 20.0) Card 1/3

ACCESSION NR: AP5007570

millicuries) was used as an internal source of ionizing radiation while in another series an external ionizing radiation was derived from a Co<sup>60</sup> source (40,000 g·eqv of Ra). Examination of the platings with an MIM-7 microscope (400 magnification) showed that in both series of experiments an identical dispersion of cerium oxide was reached at a given level of radiation absorption (1:10<sup>13</sup>, 2·10<sup>14</sup>, and 2·10<sup>15</sup> was reached at a given level of platinum and stainless steel with Co<sup>60</sup> results in eV/ml). Ionizing irradiation of platinum and stainless steel with Co<sup>60</sup> results in

was reached at a given level of Idstance was reached at a given level of Idstance vivial. Ionizing irradiation of platinum and stainless steel with Co<sup>50</sup> results in increased adsorptive capacities of these metals. For a given radiation absorption level, cerium oxide platings with slightly greater crystallite dispersion resulted level, cerium oxide platings with slightly greater crystallite dispersion resulted level, cerium oxide platings with slightly greater crystallite dispersion resulted level, cerium oxide platings with slightly greater crystallite dispersion resulted level, cerium oxide platings with slightly greater crystallite dispersion resulted level, and 0H radicals radiation is traced to radiolysis of the electrolyte water into H and OH radicals radiation is traced to radiolysis of the electrolyte water into H and OH radicals which then interact with the cathode in such a fashion as to cause increased adsorption ability of the cathode surface. The paper was presented to Academician V. I. Spitsyn on July 19, 1964. "In conclusion, we thank A. T. Vagramyan for discussing

the results of the work." Orig. art. has: 1 table and 3 figures.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, Academy of Sciences, SSSR)

Card 2/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051702

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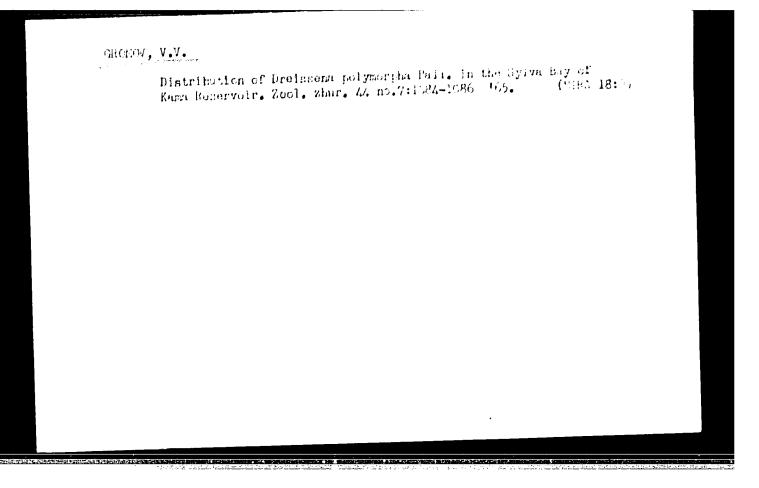
WM/GG Pi-4 IJP(c) ENT(1)/EPF(c)/EEC(t) L 55917-65 UR/0020/64/159/001/0178/0181 AP5018336 ACCESSION NR: AUTHOR: Spitsyn, Vikt. I. (Academician); Gromov, V. V.; Karaseva, L. G. TITLE: Investigation of the electron paramagentic resonance spectra of radioactive and irradiate samples of calcium, strontium, and barium sulfates SOURCE: AN SSSR. Doklady, v. 159, no. 1, 1964, 178-181 TOPIC TAGS: electron paramagnetic resonance, inorganic salt, crystal structure, **sulfate** ABSTRACT: The method of electron paramagnetic resonance was used to study the transformation that occur in the crystal lattice of sulfides of the alkaline earth elements under the influence of the beta radiation of S35, introduced into these preparations. The irradiation of nonradioactive samples of the same salts on a Coo gamma setup was conducted for comparison. The comparison of the electron paramagnetic resonance spectra of radioactive and irradiated samples of calcium, strontium, and barium sulfates showed that the nature of certain paramagnetic centers (A,B) is the same in both cases. In Card 1/2

L 55917-65 ACCESSION NR: AP5018336 contrast to the radioactive preparations, the spectra of the gamma-irradiated sulfates consist of a large number of paramagnetic centers differing in character, since the absorbed dose was twice as high as in the radioactive preparations. A comparison of the yields of paramagnetic centers of the three substances showed that CaSO4 . 2H2O possesses the greatest radiation stability, and SrCO4 the least. This finding correlates with the corresponding pattern found for the hearts of formation of these compounds: CaSO4 . H2O > BaSO47SrSO4. Orig. art. has: 4 figures, 1 table. ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, Academy of Sciences SSSR) ENCL: 00 SUB CODE: NP. IC SUBMITTED: 26May64 OTHER: **JPRS** NR REF SOV: 800

CROMOV, V.V.

Distribution of the Caspian emustacean Corophics in the Sylva Bay of Kama Reservoir, Nauch.dokl.vys.shkoly; biol.nauki no.4:20-22 (MIRA 18:10)

1. Bekomendovana lafedrov zcolegii besposvenorinykh Permskego gesudarstvennogo universiteta im. A.M.Sorikodo.



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ACC NR. AP6002210 (A) SOURCE CODE: UR/0153/65/008/005/0834/0839 /4	
AUTHOR: Gromov, V. V.; Gavurina, R. K.	
CRG: Department of Plastic Technology, Leningrad Technological Institute im.  Lonsovet (Kafedra tekhnologii plastmass Leningradskogo tekhnologicheskogo instituta)	٠,
TITLE: Epoxy resins from N,N'-dialkyl substituted derivatives of 4,4'-diamino-diphenylmethane	
SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 5, 1965, 834-839	
TOPIC TAGS: epoxy plastic, nitrogen compound, organic synthetic process, resin, diphenyl compound, methane, chlorohydrin	
ABSTRACT: Using N,N'-dimethyl-, N,N'-diethyl-, and N,N'-diisopropyl-4,4'-diamino-diphenylmethane and epichlorohydrin as the starting materials, the epoxy resins containing nitrogen were synthesized, while studying the conditions of each stage of	
the synthesis. The condensation reaction of N,N'-isalkyldiamines with epichlorohydrin was performed in two stages (1. formation of chlorohydrin, 2. dehydrochlorination by alkali at room temperature) and gave a product of the structure:	
CH-CH-CH-CH-CH-CH-CH-CH-CH-CH-CH-CH-CH-C	
The average magnitude of the degree of condensation (n) depended on the ratio of the	
Card 1/2 UDC: 678-65	

L 39477-66

ACC NR: AF6002210

starting materials. At constant reaction conditions, the concentration of epoxy groups in the final products decreased with the increasing length of the alkyl substituents. In the first stage of the synthesis, the nature of the solvent affected the rate of the reaction. At 75-950 the rate decreased with the solvents: iscamyl alcohol> isopropyl alcohol >> benzene + isopropyl alcohol >>> benzene. Use of a benzene-isopropylalcohol mixture as the solvent in the second stage of the reaction made possible a replacement of a 44% solution by the solid NaCH. The dehydrochlorination reaction was practically accomplished within 3-4 hours. Curing with medeic anhydride (5 hours at 600) or 4,41-diaminodiphenylmethane gave resins of approximately similar properties. Experimental procedure: one mole of dismine dissolved in 300 ml C6H6 was heated for 15 minutes at 85C and then a known amount of epichlorohydrin was added slowly (15 minutes) by drops to the solution; this was mixed at 85C for 15 hours. The clear light-brown solution of dichlorohydrin formed was cooled to 20C, 2.4 M 44% NaCH solution was added gradually for each mole of the diamine, and this was mixed for 15 hours at 20-25C. The Naml formed was removed and the reaction mixture was washed with H2O to a negative Cl reaction and a weak alkalinity of the wash water (pH 7.8 - 8.5). After distillation of the solvent (C6H6), epichlorohydrin, and residues of H2O, the resin formed was dried in a vacuum at 36 - 40C. Using C6H6+isopropyl alcohol mixture as the solvent, the reaction was performed analogously with a reduction of the time of the dehydrochlorination with solid NaCH to 5 - 6 hours . Orig. art. has: 3 figs., 1 formula and 5 tables.

SUB CODE: 20,07/ SUBM DATE: 18Ju164/ ORIG REF: 010/ OTH REF: 010

Card 2/2/11/

GROMOT, YouA.; KAMEVSKAYA, T.M., red.; PONOMAREVA, A.A., tekhn.red.; GERASIMOVA, Ye.S., tekhn.red. [Geal in the fuel economy of the United States] Ugol' v toplivnom khosiaistve SShA. Moskva, Gosplanisdat, 1958. (MIRA 12:7) 243 P. (United States-Coal) 

SOURCE CODE: UR/0216/65/000/001/0103/0107 L 23537-66 ACC NR: AP6013990 /6 AUTHOR: Gromova, Ye. A .- Gromova, E. A.; Skuratova, S. A. ORG: Institute of Normal and Pathological Physiology, AMN SSSR, Moscow (Institut normal'noy i patologicheskoy fizilogii AMN SSSR) TITLE: Physiological analysis of the effect of serotonin on the motor function of man SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 1, 1965, 103-107 TOPIC TAGS: serotonin, biologic metabolism, electrophysiology, cat ABSTRACT: The investigation of the mechanism of action of serotonin on the . motor function or the organism is of major interest in view of the existence of experimental findings on its antispasmodic effect (Scarinci, 1955; Cahn et al., 1958; Laborit et al., 1958 and others) These findings have led to the theory that disturbances in the normal metabolism of serotonin may be a definite factor in the genesis of convulsive seizures. The authors experimentally verified this plausible theory by performing an electrophysiological analysis of the effect of serotonin on cerebrospinal reflex activity. Thus, mono- and polysynaptic reflexes of the spinal cord on stimulation of the muscular and cutaneous nerves of the hind legs were tested in experiments on 62 cats with sectioned spinal cord. It is shown that the intravenous and intraarterial administration of serotonin in doses of 10-150 g per kg body 591.18 UDC: Card 1/2

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GRANCY, Yo. I.

"Studying the Process of Ammonia Absorption From Coke Cven Gas With Sulfuric Acid Solutions to Improve Industrial Methods of Preparing Amexonium Sulfate." Cand Chem Sci, Ukrainian Sci-Res Coal Chemistry Inst, Glavkols, Ministry of Local Industry; Khar'kov Sci-Res Inst of Coal Chemistry, Khar'kov, 1954. (RZhKhim, No 21, Nov 54)

Survey of Scientific and Technical Dissertations Defended by USSA Higher Educational Institutions (11)

SO: Sun. No. 521, 2 Jun 55

BRODOVICH, A.I., doktor tekhnicheskikh nauk; GROMOV, Ye,I., kandidat tekhnicheskikh nauk.

Investigation of asbestes-vinyl as a protective coating for equipment of by-product coke plants. Koks i khim.no.2:47-50 '56. (MLRA 9:7)

1.Ukrainskiy uglekhimicheskiy institut.
(Pretective coatings) (Ceke industry--Equipment and suplies)

 Methods for protecting cross tie rods in coke ovens. Koks i khim. (MIRA 15:1) no.11:35-37 '61.
l. Ukrainskiy uglekhimicheskiy institut. (Coke ovens)

s/068/62/000/003/003/003 E071/E435

Gromov, Ye, I., Cherkashin, V.N.

Corrosion resistance of materials in technological AUTHORS: media involved in the production of indine-coumarone TITLE:

resins

PERIODICAL: Koks i khimiya, no.3, 1962. 47-48

The results are given of an investigation of resistance to corrosion of various steels and corrosion resistant materials in the media of the plant for washing and neutralization of polymerized indine-coumarone resins (AlCl3 used as a catalyst) in the evaporator and condenser. Specimens investigated were placed in a special cage made of a fluoride plastic which was fitted in to the appropriate plant equipment. Data on the velocity of corrosion were expressed in loss of weight  $(g/m^2)$  of surface per hour). is concluded that the body of the washing apparatus should be made from mild steel, protected by diabase plate lining, the joints of which should be filled with a paste Armasite-2 (resistant to acid and alkali); the protection of the cover and manholes can be achieved with ATM-1 plates, faolite or bakelite lacquer. evaporator can be made from steel 18412M37 (Kh18N12M3T), tubes Card 1/2