SOV/112-58-1-289

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 1, pp 42-43 (USSR)

AUTHOR: Ginzburg, Ts. G.

TITLE: Laboratory Tests of Watertightness and Strength of Block Joints in Concrete Structures (Laboratornyye ispytaniya vodonepronitsayemosti i prochnosti blochnykh shvov betonnykh sooruzheniy)

PERIODICAL: Izv. Vses. n.-i. in-ta gidrotekhn., 1956, Nr 56, pp 144-155

ABSTRACT: In a laboratory at one of the Soviet Hydroelectric developments, watertightness of various block-joint types was investigated. Averaged test results of a simple joint, a hacked joint, and a hacked joint with scrubbed mortar revealed that the latter had the minimum seepage; the hacked joint had the maximum seepage. Apparently, water accumulating in the hacked-joint notches dilutes the mortar of the adjoining surfaces and lowers seepage resistance of the joint. Rubbing the mortar in with steel brushes eliminates this difficulty. Tests also revealed an abrupt reduction of seepage in the joints after 120 days — explained by self-sealing of the concrete joint under the

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Laboratory Tests of Watertightness and Strength of Block Joints in Concrete . . . .

influence of an intensive hydration of the cement. Vibrating the concrete insures a higher watertightness than bayonet-type compacting. Averaged test results of joints with oil-tar and cement keys, with roughened surface, and with corrosion-protected steel sheets revealed that the oil-tar key joints had no seepage after 28 days. The cement key showed a seepage of 62.3% compared to that through the simple joint. Rough-surface joints and steel-sheet joints showed no filgration after 200 days. Vibrated concrete showed a filtration considerably lower than the bayonet-compacted joint. Strength tests of concrete joints were made on the 28th day and revealed the most inferior results with the hacked joint with vibration (39.6% with respect to solid control samples) and the best results with the hacked joint with broomed mortar (84.5% with respect to the control samples). Laboratory analysis of joints should be supplemented by studying watertightness under actual operating conditions. Intensive hydration of cement is very important for reducing joint seepage; high humidity and uniform temperature are conducive to curing. When constructions are being flooded, better joint seals will result if the temperatures

SOV/112-58-1-289

Laboratory Tests of Watertightness and Strength of Block Joints in Concrete . . . . of both the concrete and water are nearly the same. Tests have shown that joints with greater mechanical strength have better watertightness.

V. G. P.

AVAILABLE: Library of Congress

1. Structures--Properties 2. Joints--Test methods 3. Concrete --Performance

CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0"

AUTHOR PPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515 Ginzburg, Ts.C., Cand. Tech. Sciences.

TITLE:

179 The permissible mica content in sand used for concrete. (O dopustinom soderzhanii slyudy v peske, primenyayemom v betone).

PERIODICAL: "Beton i Zhelezobeton" (Concrete and Reinforced Concrete), 1957, No.3, pp.107-108 (U.S.S.R.) ABSTRACT:

In the Laboratory of the All-Soviet Scientific and Research Institute for Hydrotechnik imeni B.E.Vedeneyev (Vsesoyuznii Nauchno-issledovatel'skii Institut Gidrotekhniki imeni B.E. Vedeneyeva (VNIIG)) the author investigated the influence of mica in sand and the hardness and frost-resistance of cement mortar and concrete and also on concrete which contains a small quantity of sulphite waste liquor (SSB). The tested cement was of Mark 400, manufactured by the Leningrad factory imeni Vorovskogo and had the following composition:  $C_3S = 50.4\%$ ,  $C_2S = 20.7\%$ ,  $C_4AF = 14\%$  and  $C_3A = 9.4\%$ . The relevant standards are: GOST 4797 - 49 (Hydrotechnical Concrete). Both standard allow for 0.05% of nice in sand used for concrete. GOST 4797 - 49 was revised by GOSSTROI SSSR and the new permissible mica content is increased up to 2-3%. Results of the investigations show that up to 4% mics content does not affect the strength of the cement mortar appreciably. Tests were also carried out by substituting sand by mica

The permissible mics content in sand used for concrete. 179

which showed that the strength of the mortar was only 15% of the strength of pure sand mortar. The influence of the mica content in sand on cement mortar with regard to the frost-resistance of the latter was tested by submerging the test cubes 3 - 5 times in a saturated solution of sodium sulphate with subsequent drying at 105°C. Results proved that up to 3% mica does not impair the frost resistance. For concrete situated under water sands containing up to 5% of biotite or up to 3% muscovite can be used. Concretes drying on air can contain sand with 3% biotite or 2% muscovite.

PERIODICAL: "Beton i Zhelezobeton" (Concrete and Reinforced Concrete),

1957, No.3, pp.108-109 (U.S.S.R.)

The use of cinder dust for concrete. (Ispol'zovaniye zol'noi pyli dlya prigotovleniya betona). (Abstracted from "Concrete Building and Concrete Products", 1956, No.6.)

The quality of concrete and its control in building hydraulic structures. Gidr. stroi. 26 no.4:11-13 Ap '57. (MIRA 10:6) (Hydraulic engineering) (Concrete construction)

CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R00051513006-0 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R00051513006-0 CIA-RDP86-00513R00051513006-0 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R00051510006-0 CIA-RDP86-00513R00051510006-0 CIA-RDP86-00513R00051510006-0 CIA-RDP86-00513R00051510006-0 CIA-RDP86-00513R00051510006-0 CIA-RDP86-00513R00051510006-0 CIA-RDP86-00510006-0 CIA-RDP86-00510006-0 CIA-RDP86-0005100006-0 CIA-RDP86-00006-0 CIA-RDP86-000510006-0 CIA-RDP86-0

STOL'NIKOV, V.V., doktor tekhn.nauk, prof.; GINZBURG, TS.G., kand. tekhn.nauk.

Using air entraining additives and small doses of calcium chloride in winter concrete work. Gidr.stroi. 26 no.10:33-37 0 '57. (MIRA 10:10)

(Concrete construction -- Cold weather conditions)

STOL'NIKOV, V.V., prof., doktor tekhn.nauk; GINZHIRG, TS.G. starshiy nauchnyy sotrudnik, kand.tekhn.nauk

Winter concreting with the use of air-entraining agents and small doses of calcium chloride. Izv. VHIIG 60:28-38 '58. (MIRA 13:6)

F.

(Frost resistant concrete)

GINZBURG, TS.G.; LITVINOVA, R.Ye.

Strength of cement and concrete solutions during axial extension and compression. Isv. VNIIG 60:165-171 '58. (MIRA 13:6)

(Concrete-Testing)



GINZBURG, TSezer' Grigor'yevich; CHISTYAKOV, Aleksendr Mikhaylovich; GIRSHKAN, I.A., red.; FEL'DEHTEYN, B.S., tekhn.red.

[Designing wear resisting anti-cavitation concretes] Proektirovanie iznoscustochivogo protivokavitatsionnogo betona. Moskva. Gos.energ.izd-vo. 1959. 34 p. (MIRA 13:4) (Concrete) (Hydraulic structures) 14(10)

SOV/98-59-2-7/22

AUTHORS:

Ginzburg, Ts.G. and Litvinova, R.Ye., Candidates of Technical Sciences

TITLE:

The Variation of Axial Tensile and Compressive Strength of Hydrotechnical Concrete Over a Period of Time (Izmeneniye prochnosti gidrotekhnicheskogo betona na osevoye rastyazheniye i szhatiye vo

vremeni)

PERIODICAL:

Gidrotekhicheskoye stroitel'stvo, 1959,

Nr 2, p 30-33 (USSR)

ABSTRACT:

This article describes the results, obtained in the laboratoriya betona (the Beton Laboratory) of VNIIG, of a study of the dependence of tensile and compressive strength of concrete and concrete solution on the water-cement ratio and on hardening periods. It was found that the relation

Card 1/3

14(10)

80+798-59-2-7/22

The Variation of Axial Tensile and Compressive Strength of Hydrotechnical Concrete Over a Period of Time

between axial tensile strength and compressive strength is not always the same for a given concrete, but decreases with the gradual hardening of concrete. The axial strength of new concrete is less than the strength of its solution. The axial tensile strength of one year old concrete is greater than that of its solution, because at that time the cohesion of the coarse filler with the liquid component in a humid surrounding attains a considerable magnitude at the expense of swelling and hydration of cement stone. The authors recommend the elaboration

Card 2/3

14(10)

SOV/98-59-2-7/22

The Variation of Axial Tensile and Compressive Strength of Hydrotechnical Concrete Over a Period of Time

of a unique method of testing axial tensile strength of concrete. There are 3 tables and 4 graphs.

ASSOCIATION:

(VNIIG)

Card 3/3

STOL'NIKOV, V.V., prof., doktor tekhn.nauk; GINZBURG, TS.G., starshiy nauchnyy sotrudnik, kand.tekhn.nauk; LITVINOVA, R.Ye., starshiy nauchnyy sotrudnik, kand.khim.nauk

Stiff concrete mix for the interior areas of hydraulic structures.

Izv.VNIIG 63:73-83 '60. (MIRA 14:5)

(Concrete) (Hydraulic structures)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

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CIA-RDP86-00513R000515130006-0

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R. Te.

Some problems connected with heat emission during hardening cements.

TSment 26 no.4:11-15 J1-Ag \*60. (MIRA 13:11)

(Heat--Radiation and adsorption)

(Cement)

GINZBURG, 18.G.; KOIS, L.I.

Heat release during hardening of cement mertars and concretes. Sber. trud. LIIZHT ne.192:117-136 '62. (MIRA 16:9)

GINZBURG, TS.G., kand.tekhn.nauk; GERSHANOVICH, G.L., inzh.

Selecting the composition of the concrete for the dam of the Bratsk Hydroelectric Power Station. Gidr.stroi. 32 no.4:8-11 Ap \*62. (MIRA 15:4) (Bratsk Hydroelectric Power Station-Dams) (Concrete)

GINZBURG, TS.G., kand.tekhn.nauk; LITVINOVA, R.Ye., kand.khimicheskikh nauk

The possibility of extending the deadlines for placing separate layers of concrete mix. Gidr.stroi. 32 no.7:25-27 Jl '62. (MIRA 15:7)

(Concrete construction)

"Night-time Drops in Temperature and Forecast of Radiational Fog Under Various Climatic Conditions in the SSSR", Works of the Sci-Res Institution of the Main Administration of the Hydrometeorological Service SSSR, Series 1, No 28, 1946 (87-92). (Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

USSR/Redicine - Tuberculosis
Animals, Experimentation

Sep/Oct 49

"Is It Practical to Utilize White Mice for Determining the Virulence of Tubercle Bacilli Streins?" R. O. Drabkina, T. S. Ginzburg, Immunol Lab, Kiev Inst of Tuberculosis, 2 pp

"Prob Tuber" No 5

Virulence of 21 strains of tubercle bacilli isolated from persons with various types of tuberculosis of the lungs, boues, and joints was tested on white mice and results compared with results obtained from guinea pigs to ascertain whether virulence in one sensitive animal corresponded to the degree of virulence in another. Found that fresh strains from human beings were virulent in white mine, but the degree of virulence in white mice did not always correspond to that in guinea pigs. Observed no relationship between nature and course of human processes and degree of virulence in white mice. Dir, Kiev Inst of Tuberculosis: A. S. Mamolat. Sci Dir, Immunol Lab: Prof N. S. Morezovskiy.

PA 152T70

Wasselerated Method for Testing the Resistance of Kook Bacilli to Streptomycin, T. S. Cinz. harf, Elev

"Approved for Release: Thursday, September 26, 2002

"Thob Tuber" No 4, pp 64-66

"Bearribes laboratory procedure of a modified wardon of the Frice test for deth of the effects the regulation of the Frice test for deth of the effects the regulation by Soviet scientists are: time required callings by Soviet scientists are: time required advantages of this test, and in one stage, simplified prepared a serior of a serior and in one stage, simplified prepared a serior of the control of

## CINZBURG, T.S.

Significance of streptomycin resistance of Mycobacterium tuberculosis for the efficacy of therapy. Probl.tub. no.4:77 J1-Ag '53.

(MLRA 6:11)

1. Iz immunobiologicheskoy laboratorii (saveduyushchiy - professor R.O. Drabkina) Ukrainskogo nauchno-issledovatel'skogo tuberkulesnogo instituta (direktor A.S. Mamolat). (Tuberculosis) (Streptomycin)

"Materials of a Study of Streptomycin-Resistant Strains of Mycobacterium Tuberculosis." Kazan' State Medical Inst., Kiev, 1955. (Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knishnaya Letopis', No. 22, 1955, pp 93-105

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-0

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-0

USSR / Microbiology. Microbes Pathogenic to Humans CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0"

and Animals,

F-3

Abs Jour : Ref Zhur - Biol., No 2, 1958, No 5268

Author

: Ginzburg, T.S.

Inst

Title

Phthivazide-Resistant Strains of Mycobacterium Tuberculosis

and Their Biological Properties.

Orig Pub : Probl. tuberkuleza, 1957, No 1, 81-86

Abstract : 17 isolated strains of tuberculosis bacilli (TB) were sensitive to 0.1 - 0.2 y/ml of phtivazide (P). After 3 passages on media with antibiotics, resistance of TB to P was increased 20 times, to streptomycin 4 times. P-resistant strains demonstrated resistance also to other derivatives of isoniazide. Development of TB resistance in patients treated with preparation P depended on the length of treatment. In treatment for 1-2 months, P resistance was

1/2 Card

USSR /Microbiology. Microbes Pathogenic to Humans and Animals.

F-3

Abs Jour : Ref Zhur - Biol., No 2, 1958, No 5268

Author : Ginsburg, T.S.

found in 4 of 22 strains; in treatment for  $2\frac{1}{2}$ -3 months, in 20 out of 25 strains. Resistance increased no more than 200-500 times. Upon storing 6 resistant strains under laboratory conditions, the resistance diminished in 2 strains, was lost in 2, and was preserved in 2. In 5-12 months after the end of the treatment P-resistant strains were isolated from the patients. Of 7 highly resistant strains only one possessed average virulence for guinea pigs; one was slightly virulent; in the rest the virulence was diminished to a lesser degree than to guinea pigs. Treatment by P did not prevent the development of infection in mice infected by P-resistant tuberculosis. The appearance of P-resistance in patients lowered the effectiveness of further use of P.

Card 1 2/2

20-5-27/60

AUTHOR TITLE BOLDYREV , B.G., GINZBURG, T.S., DRABKINA, R.O.
On the Antituberculous Activity of Thiosulfonic Acid Ethers.
(O protivotuberkuleznoy aktivnosti efirov tiosul fok slot-Russian)
Doklady Akademii Kauk SSSR, 1957, Vol 114, Nr 5, pp 1014-1016(U.S.S.R.)

PERIODICAL ABSTRACT

This activity of I thiosalfonic acid ethers has hitherto not been investigated at all. Only in one instance did the bacteriostatic action of II ethanethiosulfonic acid on Mycobacterium tuherculosis became known. In view of the fact that the structure of the IV-compounds is expressed by their anti-tuberculous properties, the authors hoped to detect substances with such properties among the ethers of I thiosulfonic acids. Alkyl ethers of alkane thicsulfonic acids. Closed to the allicin-analogues according to their structure are the alkyl-ethers of V alkane thiosulfonic acids, which were already earlier synthetized by an author. These substances have a broad antibacterial action spectrum and exhibit in vitro a bacteriostatic influence on gram-positive, gram-negative and acid-resistent bacteria, on various fungi, protocoa, etc. Tests in vitro. All of the ethers teated showed a subercolostatic effect. All ethers of methane thiosulfonic acid and propane thiosalfonic acid-2 fully retain their activity even in the presence of serum, in contrast to the alkylethers V of the other alkane thiosalfonic acids. Tests in vivo. The preparations found to be most active in vitro were tested on white mice

Card 1/3

for their toxicity and their deadly action determined in various oses. The least toxic substances among them were tested for clari-

On the Antituberculous Activity of Thiosulfonic Acid Lthers.

fication of their therapeutical effect on experimental tuberculosis. All ethers examined, also those with a maximum activity in vitro, were ineffective on that occasion. In some instances this may be explained by their ability to inactivate themselves abruptly in animal organisms, in other instances it may be explained by their elevated toxicity which prohibits its application in large doses. Alkyl ethers of benzene thiosulfonic acid and their derivatives. The VI ethers have the same effect on the same types of bacteria as thomentioned above. Their activity, however, is weaker than that of the V-compounds. Tests in vitro. The introduction of substituents in a p-position also little changes the activity; chlorine, and the methoxy-group slightly raise it. The nitro group has no noticeable effect, the acetylamine group slightly reduces it; the deazylation of the alkyl ethers of acetylthiosulfonic acid increases the activity of these compounds. The mutual position of the substituents in the benzene nucleus apparently is insignificant for the tuberole-killing properties. Here, too, an inactivation by serum takes place. However, no established connection between structure and inactivation could be found. Tests in vivo. Three VI alkyl ethers with an activity of ca.1 mg, which cannot be inactivated by serdin, were tested. No Therapeutical effect was noticed. Thus the tested substances have a tubercle -static activity in vivo, but are ineffective in the curing

Card 2/3

20-5-27/60

On the Antituberculous Activity of Thiosulfonic Acid Ethern.

of tuberculosis on living animals. (4 Slavio references)

ASSOCIATION

Livov Polytechnical Institute and Ukrainian Scientific Research Institute for Tuberculosis.

Subhittid

PRESENTED BY NAZAROV I.H., Member of the Academy.

25.2.1957 Library of Congress.

AVAILABLE Card 3/3

## DRABKINA, R.O., prof.; GIMEBURG, T.S., kand.med.nauk

Biological peculiarities of BCG resistant to phthivasid. Pat., klin.i terap.tub. no.8:12-15 \*58. (NIRA 13:7)

1. Is mikrobiologicheskoy laboratorii (rukovoditel' - prof. R.O. Drabkina) Ukrainskogo nauchno-issledovatel'skogo instituta tuberkulesa im. akad. F.G. Yanovskogo.

(BOG) (ISONICOTINIC ACID)

GINZBURG, T.S. kand, med. nauk

Preservation of a weakened virulence by Mycobacterium tuberculosis resistant to phthivasid and its fate in the body. Pat., klin. i terap.tub. no.8:75-78 '58. (NIRA 13:7)

1. Is mikrobiologicheskoy laboratorii (rukovoditel' - prof. R.O. Drabkina) Ukrainskoge nauchno-issledovatel'skogo instituta tuber-kulesa im. akad. F.G. Tanovskogo.

(MYCCHACTERIUM TUBERCULOSIS) (ISONICOTINIC ACID)

VEL TMAN, R.P.; EXELIS, S.G.; GINEBURG, T.S.

Antituberculous action of derivatives of benzthiazole. Pat., klin.i terap.tub. no.8:88-91 \*58. (MIRA 13:7)

1. Iz Ukrainskogo nauchno-issledovateliskogo instituta tuberkulesa im. akad. F.G. Yanovskogo. (TRIAZOLE) (URMA)

## GINZBURG, T.S., kand.med.nauk

Catalase activity and virulence of Mycobacterium tuberculosis resistant to phthivasid. Pat.klin.i terap.tub. no.8:92-95 158. (MIRA 13:7)

1. Is mikrobiologicheskoy laboratorii (rukovoditel - prof. R.O. Drabkina) Ukrainskogo nauchno-issledovatel skogo instituta tuberkulesa im. akad. F.G. Yanovskogo.

(CATALASE) (MYCOBACTERIUM TUBERCULOSIS)

sov/16-59-9-2/47

17(2)

AUTHORS:

Brabkina, R.O., and Ginzburg, T.S.

TITLE:

The Biological Features of Phthivazid-Resistant BCG Bacteria

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 9,

PERIODICAL: Zhurnal mikrobi pp 8-13 (USSE)

ABSTRACT:

Much has recently been written on the change in the biological properties of phthivazid-resistant BCG bacteria. (A.A. Klebanova, A.I. Togunova, Smolyanskaya, etc). The authors undertook a study of the properties of the phthivazid-resistant variant of BCG bacteria, compared with those of the original sensitive strain. They studied the ability of BCG phthivazid-resistant bacteria to spread in the body of the animals and their ability to provoke allergy and immunity, also the activity of the tuberculins which they liberate. The tests showed that the immunity induced in mice by phthivazid-resistant strains was very weak and less marked than the immunity produced by normal BCG bacteria. The phthivazid-resistant strains lost their catalase activity, i.e. their ability to decompose hydrogen peroxide, the toxic product of aerobic dehydration. Their ability to adapt and spread in the body was reduced and consequently their immunizing and allergizing power also decreased.

Card 1/2

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The Biological Features of Phthivazid-Resistant BGG Bacteria

At the same time the phthivazid-resistant strains retained their power to liberate tuberculins when oultivated in vitro. These tuberculins Were no less active than those liberated by the normal bacteria. The investigations showed that the phthivazid-resistant strain loses its immunogenic properties and therefore cannot be used for immunization purposes. Chernushenko has demonstrated that combined use of prophylactic chemotherapy and vaccination with normal BCG bacteria is possible and effective, provided that phthivazid is used not immediately but some time (no less than 30 days) after vaccination, i.e. the period needed for the vaccinal bacteria to multiply in the body. There are 4 tables and 11 references, 5 of which are Soviet and 6 English.

ASSOCIATION: Ukrainskiy institut tuberkuleza (Ukrainian Institute of Tuberculosis) SUBMITTED:

November 11, 1958

Card 2/2

## KLMBAHOV, M.A.; GINZBURG, T.S.

Olinical significance of phthivazid-resistance in attenuated tubercle bacilli. Probl.tub. 37 no.6:22-27 159. (MIRA 13:2)

1. Iz Ukrainskogo nauchno-issledovatel skogo instituta tuberkuleza (dir. A.S. Mamolat) (Kiyev).

(MTCOBACTERIUM TUBERCULOSIS pharmacol.)

(ISONIAZID, rel. cpds.)

Drug resistance of Mycobacterium tuberculosis and accompanying microflora in patients with osteoarticular tuberculosis. Lab. delo 7 no.3:34-37 Mr '61. (MIRA 14:3)

l. Mikrobiologicheskaya laboratoriya (zav. - prof. R.O.Drabkina) Ukrainskogo nauchno-issledovatel'skogo instituta tuberkulesa, Kiyev.

(MYCOBACTERIUM TUBERCULOSIS) (BONES—TUBERCULOSIS)
(BACTERIA, EFFECT OF DRUGS ON)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0" CIA-RDP86-00513R000515130006-0"

GINZBURG, V.; MIL'HAN, A.

Factors involved in the classification of work time expended in industrial transportation. Sots.trud no.3:88-94 Mr 158.

(MIRA 13:3)

(Transportation-Production standards)
(Job analysis)

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8/269/63/000/003/007/036

i lasoranov, L., Fradkin, M

Some outer space studies by means of satel

PSTODICABO PROTECTION ASTRONOMIVA, no. 3, 1963, 25, abstract Accessoravilka", 1962, no. 6, 13 - 22)

The surface of several research principal results of studying primary cosmic rays, dottained by result of sacrifices and violets, and the tasks of further inclinations. It is been sacrificed by search of the tasks of further inclinations of the sacrifices of the sacrifices of the sacrifices of the sacrifices that that expected it follows thereof, unat cosmic rays exceeds hundred-fold left sacrificial that expected it follows thereof, unat cosmic rays passed a layer of intersteller sacrification of the order of the sacrification. The spectrum of all nuclei is inclinated from the order of the sacrification of of the sa

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With accuse numbers in sec types. It is assumed that the nuclei recorded are tooks of solar notifies an interesting the lower part of the same time. Earth's radiation belts were disalted in the belts are observed attacks an attitude of 200 km, although the belts are observed attom belts attains an attitude of 200 km, although the belts are observed attom belts attains an attitude of 200 km, although the belts are observed that radiation belts have "spars", the lower of which are related to magnetic enomaties. The tasks of further investigations are relatively in the spars that can solar common rays, high-latitude out-off in the spectrum of cosmic rays, and electronic component of galactic and electronic component of galactic and electronic component of galactic and electronic component of galactic

T. Kasimenko

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0" CIA-RDP86-00513R000515130006-0"

## GINZBURG, V.

The radio sky. Tekh.mol. 30 no.10:12-14 '62. (MIRA 15:12)

ľ

1. Chlen-Korrespondent AN SSSR. (Radio waves)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0" CIA-RDP86-00513R000515130006-0"

GINZBURG, V.; KURNOSOVA, L., kand. fiziko-matematicheskikh nauk; RAZORENOV, L., kand. fiziko-matematicheskikh nauk; FRADKIN, M., kand. fiziko-matematicheskikh nauk

Laboratories in orbits. Av. 1 kosm. 45 no.6:13-22 '62. (MIRA 15:10)

1. Chlen-korrespondent AN SSSR (for Ginsburg).

(Outer space-Exploration)

CIA-RDP86-00513R000515130006-0
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CIA-RDP86-00513R0

AYZERMAN, M.A., doktor tekhnicheskikh nauk, redaktor; GINZBURG, V.A., professor, redaktor; GORELIK, G.S., professor, redaktor; MIKOLATEV, A.M., dotsent, redaktor; ALEKSEYEV, T.V., tekhnicheskiy redaktor.

[Dedicated to the memory of Aleksandr Aleksandrovich Andronov] Pamiati Aleksandra Aleksandrovicha Andronova. Moskva, 1955. 718 p.

1. Akademiya nauk SSSR.

(Mathematical physics)(Automatic control)(Astrophysics)

APPROVED FOR RELEASE: Thursday, September 26, 2002

APPROVED FOR RELEASE: Thursday, September 26, 2002

SHIROKOV, K.P.; GINZBURG, V.A.

Refrect of magnetic fields on manganin resistors. Trudy VNIIM no.28: 102-106 56. (MIRA 10:12) (MIRA 10:12)

(Magnetic fields) (Blectric resistance)

5/079/60/030/012/013/027 B001/B064

5 3630

AUTHORS:

Ginsburg, V. A. and Yakubovich, A. Ya

TITLE:

On the Problem of the Reaction Between Aldehydes and

Trialkyl Phosphites

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 12,

pp. 3979-3987

TEXT: It was published in Soviet papers (Refs. 1-4) that in the reaction between aldehydes and trialkyl phosphites the aliphatic and aromatic aldehydes form esters of a-alkoxyalkylphosphinic acids (Ref. 1), whereas  $\alpha$ ,  $\beta$ -unsaturated aldehydes form addition products in the 1,4-position α, p-unsaturated algentydes form addition products in the 1,4-position (Refs. 2, 3). The esters of phenylphosphinic acid react analogously (Refs. 4): RCH=0 +  $(C_2H_50)_3P \longrightarrow (C_2H_50)_2P(0)CH(R)OC_2H_5$  (1)  $CH_2=CH-CH=0 + (C_2H_50)_3P \longrightarrow (C_2H_50)_2P(0)CH_2-CH=CHOC_2H_5$  (2). The structure of the context of the contex

ture of the compounds obtained was mainly determined by phosphorus analysis and from the values of molar refraction except for the product which is obtained by reacting trialkyl phosphite with acrolein and from

card 1/3

## 87529

On the Problem of the Reaction Between Aldehydes and Trialkyl Phosphites

S/079/60/030/012/013/027 B001/B064

which phosphone propionaldehyde is obtained by hydrolysis. The authors regard these data as insufficient. Proceeding from triethyl-, tripropyl, tributylphosphite, and some saturated and unsaturated aliphatic and aromatic aldehydes the authors obtained a number of phosphorus compounds (Table). The elementary analysis and the molecular weights of the products obtained show that only the reaction products with aromatic aldehydes (except for salicylic aldehyde) correspond to the structure shown in scheme (1). The composition of the reaction product obtained from phosphite and acrolein corresponds to scheme (2). The composition of the reaction products of trialkyl phosphites with aliphatic aldehydes essentially differs from those calculated according to scheme (1). The chemical, hydrolytical, and spectroscopic studies of the products No. 2, 3, 4 showed that their hydrolysis products have the structure of scheme (3). CH3CH2CH2CH2CHCHCHCH2CH2CH3PO(OR)

CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH(OH)P(OH)<sub>2</sub> conc. HCl CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH(OH)PO(OR)<sub>2</sub> + CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CHO+ROH Card 2/3

87530 S/079/60/030/012/014/027 B001/B064

5 3630

AUTHORS: Ginsburg, V. A. and Yakubovich, A. Ya.

TITLE: Addition of Trialkyl Phosphites to Acrylic Systems

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 12, pp.3987-3992

TEXT: In continuation of earlier papers (Refs.1-4) the authors found that the most simple ketones, such as acetone, do not react with triethyl phosphite under the conditions studied. A violent reaction, however, takes place between triethyl phosphite and diphenyl ketone already in the cold. This is not the case between triethyl phosphite and diethyl oxalate containing two conjugate C=0 bonds even at temperatures up to 170°C. The acrylates and methacrylates served as initial substances when studying the reaction of the trialkyl phosphites with compounds containing the carbonyl group in a carboxyl group conjugated with the C=C bond. In these cases a reaction was also possible in the conjugate C=C-C=O system or in the C=C double bond according to Refs.4 and 5. The reaction of trialkyl phosphites with esters of acrylic and metacrylic acid was inhibited already at temperatures between 140° and 160°C in the presence of hydro-

Card 1/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0" 87530 APPROVED FOR RELEASE: Thursday, September 26, 2002

Addition of Trialkyl Phosphites to Acrylic

s/079/60/030/012/014/027 BOO1/BO64

quinone which prevents the polymerization of the acrylates. On hydrolysis, the main reaction products of triethyl and tributyl phosphite with methylacrylate (colorless, transparent oils) form the same tribasic organophosphoric acid which is identical with the acid described in publications (Refs.6-8). The infrared spectra of the esters synthesized indicate the presence of a carbonyl group. The spectroscopic data, the elementary analysis for C,H,P,OR (three alkoxy groups), the molecular weight, and the comparison of the constants of the products obtained with published data, clearly show that the compounds obtained are triethyl and tributyl esters of phosphone propionic acids (RO)2P(O)CH2CH2COOR (Refs.9,7,12).

Triethyl ester of phosphone isobutyric acid  $(RO)_2P(0)CH_2CH(CH_3)COOR$  is

formed in similar way by reacting triethyl phosphite with methylmethacrylate. In the reaction with acrylonitrile, the ester of the nitrile of phosphone propionic acid (RO)2P(O)CH\_CH\_CN whose properties

correspond to those described in publications (a. 18.11) are formed. Thus it was proved that the phosphites containing a vylic systems mainly react with the C=C bond. It is assumed that the above reaction mechanism is a

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87530

Addition of Trialkyl Phosphites to Acrylic S/079/60/030/012/014/027 Systems S/079/60/030/012/014/027

free radical mechanism. In the reaction between triethyl phosphite, and methyl acrylate also higher-boiling products are formed. They consist of two even three acrylate molecules which are added to one phosphite molecule, p-diethoxybenzene is formed at the same time. V. S. Abramov, G. Kamay, and V. A. Kukhtin are mentioned. Furthermore, the authors thank S. S. Dubov for the study of the infrared spectra. There are 26 references: 15 Soviet, 7 US, 3 British, and 1 German.

SUBMITTED: July 31, 1959

Card 3/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0"

GINZBURG, Valentin Abramovich; RERGAUZ, L.A., redaktor; PARTSEVSKIY, V.H., redaktor; BEKKER, O.G., tekhnicheskiy redaktor

[Photographing working time in the mining industry; manual for standardizers and timekeepers] Fotografiia rabochego vremeni v gornorudnoi promyshlennosti; posobie dlia nermirovshchikov i gornorudnoi promyshlennosti; posobie dlia nermirovshchikov i khronometrashistov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po khronometrashistov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1955. 174 p. (MIRA 9:1) (Time study)

ATAROV, M.S.; BERNSHTEYN, A.S.; BUNIN, N.N.; VOL'NOV, I.S.; LITVII—SEDOY, DANOVSKIY, N.F.; IVLEV, N.I.; KERZHENEVICH, Yu.B.; LITVII—SEDOY, M.Z.; MAYZEL', B.N.; ROTENBERG, G.I.; TYAGUNOVA, Z.I., red.; PLAKSHE, L.Yu., tekhn. red.

[Concise Italian-Russian polytechnic dictionary] Kratkii ital'ianskorusski politekhnicheskii slovar'. Moskva, Glav.red.inostr. nauchno-(MIRA 14:12) tekhn.slovarei fizmatgiza, 1961. 378 p. (Italian language-Dictionaries-Russian) (Technology-Dictionaries)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R0006-0 CIA-RDP86-00513R000515100006-0 CIA-RDP86-00513R000

Pyrclysis and chotolysis of polyfluoronitroscalkanes, a reaction of nitrosc compounds with nitrogen oxide.

Dokl. All SSSR 141 no.1:125-126 H 161. (MITA 14:11)

1. Predstaveleno alado ilavi i.l. Emparatsem i V.I. Esbachnikom. (Hitroso compounds) (Mitrogen oxide)

APPROVED FOR RELEASE: Thursday, September 26, 2002

GINZBURG, V., inshener.

A vertical pump. Hast.ugl. 4 no.10:19 0 155. (MLRA 9:1)

(Mine pumps)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0

GINZBURG, V.B., inzh.; PIKOVSKIY, S.A., insh.

Protection, interlocking, and signaling used in automatically controlled hoisting units in Moscow Basin mines. Bezop. truda v prom. 2 no.11:20-22 N 158. (MIRA 11:11)

1. Institut Giprougleavtomatisatsiya.

(Moscow Basin-Mine hoisting-Safety appliances)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0"

GINZBURG, V.B., inzh.; PIKOVSKIY, S.A.

Improving automatic hoisting systems having dumping cages. Bezop. truda v prom. 3 no.7:19-21 J1 \*59. (MIRA 12:11)

Giprougleavtomatizatsiya.
 (Mine hoisting—Safety appliances)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0"

PIKOVSKIY, S.A.; (HINZBURG, V.B.

Automatic hoisting unit with self-dumping cages. Biul.tekh.-ekon.inform. no.5:7-8 '59. (MIRA 12:8)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R0005-0 CIA-RDP86-00513R0005-0 CIA-RDP86-00513R0005-0 CIA-RDP86-00513R0005-0 CIA-RDP86-00513R0005-0 CIA-RDP86-00513R0005-0 CIA-RDP86-00513R0005-0 CIA-RDP86-00513R0005-0 CIA-RDP86-00513R0005-0 CIA-RDP86-0 CIA-RDP86-00513R0005-0 CIA-RDP86-0 CIA-RDP86-0

LOBOV, N.A., insh.; PIKOVSKIY, S.A., insh.; GINZBURG, V.B., insh.

Automatising skip-holsting equipment at the No.11 "Lipkovskaya"
Mine. Ugol' 34 no.3:42-47 Hr '59. (MIRA 12:5)
(Hoscow Basin--Mine hoisting)
(Automatic control)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
GINZBURG, V.B.; ZARITSKIY, M.N.

Over-all automation of hydraulic coal mining. Biul.tekh.-ekon. inform. no.6:8-1/, '61. (MIRA 14:6)

(Hydraulic mining)

(Automation)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R0006-0 CIA-RDP86-005120006-0 CIA-RDP86-005120006-0 CIA-RDP86-005120006-0 CIA-RDP86-005120006-0 CIA-RDP86-005120006-0 C

Over-all automation in hydraulic mines. Mekh. i avtom.proizv. 15 no.12:11-15 D '61. (MIRA 14:12) (Hydraulic mining) (Automation) S/118/62/000/003/005/005 D221/D302

AUTHOR: Ginzburg, V.B., Engineer

TITLE: The problems of reliability of automation equipment

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 3, 1962, 44 - 45

TEXT: The majority of control instruments for automating the coal and mining industry are manufactured by 'Krasnyy metallist' at Konotop, and the Dnepropetrovskiy zavod shakhtnoy avtomatiki (Dnepropetrovsk Plant of Pit Automation), the trust of Luganskugleavtomatika and the Donetskiy elektromekhanicheskiy zavod (Donetsk Electromechanical Plant). They test the instruments in their shops, and their workers take part in industrial tests. However, there is no examination of reliability of the equipment. Furthermore, no method of testing these instruments is available, and therefore, the catalogues do not indicate the guaranteed period of service. The author suggests attacking this problem, by basing it on statistical data; also, guaranteed service should be revealed in the specifications Card 1/3

S/118/62/000/003/005/005 D221/D302

The problem of reliability of ...

of the equipment. The testing of reliability takes precedance in the radio industry, where at least 10 specimens for each group of an instruments batch is examined. The mean period of trouble-free work is calculated from  $\mathbf{T}_{m}=\mathbf{t}_{t}/n$ , where  $\mathbf{t}_{t}$  is the duration of instrument test in hours, n is the number of rejects which occurred in this interval. This test time should be about 10 times greater than the number of hours for one reject; The probability of reliable operation during a period  $P_{o}$  is computed from

 $P_{o} = e^{-(t_{f}/t_{m})},$ 

where  $t_f$  is the time during which the instruments must operate correctly. It is connected with reliability of its components, where  $-(t_g/T_m)$  the probability of safe service is determined by  $P_e = e$ , where  $t_g$  is the guaranteed service period of the element. The life of the instrument depends on the correct operation, timely prevencard 2/3

The problem of reliability of ...

S/118/62/000/003/005/005 D221/D302

tive measures and on the planned replacement of its components. The instrument manufacturers should determine the life of their products by extensive tests which should be carried out in conditions close to the operational. The organizations dealing with automation should plot curves based on statistical data and thus obtain the index of reliability of the equipment involved.

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0" CIA-RDP86-00513R000515130006-0"

## GINZBURG, V.B., insh.

Reliability of automatic control devices. Mekh.i avtom.proizv.
16 no.3:44-45 Mr 162. (MIRA 15:4)

(Automatic control)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0"

MEL'KUMOV, 14G., GINZBURG, V.B.

Stands and devices for conducting reliability tests of automatic central equipment used in coal mining. Piul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nsuch. i tekh. inform. 17 no.3:15-18 164. (MIRA 17.9)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R0005-0 CIA-RDP86-00510-0 CIA-RDP86-00510-0 CIA-RDP86-00510-0 CIA-RDP86-0005-0 CIA-RDP86-00510-0 CIA-RDP86-0005-0 CIA-RDP86

GINZBURG, V.B., insh.; MEL'KUMOV, L.G., inzh.; RABINOVICH, M.S., kund. tekhn. nguk

Reliability of the speed control relay. Mekh. i avtom. proizv. 18 no.1:39-40 Ja '64. (MIRA 17:8)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0" CIA-RDP86-00513R000515130006-0"

MELIKUMOV, L.G., inza.; GINZBURG, V.B., Inzh.; ARONOVA, M.I., inzh.

Increasing the reliability of instruments for the automatic control of mine drainage. Gor. zhur. no.6:58-60 Je '64.

(MIRA 17:11)

1. Gosudarstvennyy institut po mekhanizatsii i avtomatizatsii shakht, ugleobogatitel'nykh fabrik i otkrytykh razrabotok ugol'noy promyshlennosti, Moskva.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CINZBURG, V. G.

"X-Ray Diagnosis of Injuries to the "asal Bone." Vest. Oto-orino-laringol., No 3, 1948.

Mbr. Otorhinolaryngological Clinic imeni Sverzhevskiy, 2nd Moscow Med. Inst. imeni I. V. Stalin, -c1948-.

User/Medicine - Tuberculosis
Roentgenography of the Lungs With a matter Number of Hard Rays," v. G. Ginzburg, Dr. Mad Sci, Cen Sci Inst of Roentgenol and Radiol immided Sci, Cen Sci Inst of Roentgenol and Radiol immided Sci, Cen Sci Inst of Roentgenol and Radiol immided Sci, Cen Sci Inst of Roentgenol and Radiol immided Sci, Cen Sci Inst of Roentgenol and Radiol immided Sci, Cen Sci Inst of Roentgenol and Radiol immided Sci, Cen Sci Inst of Roentgenol and Radiol immided Sci, Cen Sci Inst of Roentgenol and Radiol immided Sci, Cen Sci Inst Sci, Cen Sci Inst Sci, Cen Sci Inst Sci, Cen Sci Inst of Roentgenol and Radiol: Prof S. A. Reynberg, Hon Worker in Sci.

APPROVED FOR RELEASE: Thursday, September 26, 2002
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APPROVED FOR RELEASE: Thursday, September 26, 2002
GINZBURG, V.G.; KHARLAMOV, N.D.

Optic centrator for roentgen tubes. Vest.otorinolar. 13 no.1: 75-76 Jan-Feb 51. (CIML 20:5)

1. Doctor Medical Sciences V.G. Ginsburg and Engineer M.D. Kharlamov. 2. Of the Clinic for Diseases of the Ear, Throat, and Hose (Director--Prof.A.G.Likhachev), First Moscow Order of Lenin Medical Institute.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0"

GINZBURG, V. G.; VOL'FKOVICH, M. I.

Roentgenologic diagnosis and clinical aspects of cysts originating in the maxillary mucous membrane. Vest. otorinolar., Moskva 13 no.5:54-59 Sept-Oct 1951. (CLML 21:1)

1. Doctor Medical Sciences V. G. Ginzburg and Prof. M. I. Vol'fkovich. 2. Of the Clinic for the Diseases of the Ear, Throat, and Nose (Director — Prof. A. G. Likhachev). First Moscow Order of Lenin Medical Institute and of the Roentgenodiagnostic Department (Head — Prof. I. A. Shekhter), Central Scientific-Research Institute of Roentgenology and Radiology of the Ministry of Public Health RSFSR.

USSR/Medicine - Roentgenology

Card 1/1

Author : Ginzburg, V. G. (reviewer)

Title : Review of "Rentgenodiagnostika zabolevaniy slyunnykh zhelez (sialografiya)"

(X-ray diagnosis of disease conditions of the salivary glands), by G. A. Zedgenidze

Periodical : Vest Rentgen i Radiol 1, 86-87, 1954

Abstract : The book deals with the X-ray diagnosis of the various disease conditions

of the salivary glands and their ducts by means of introducing various contrasting substances to the salivary glands (sialography). The book,

published in Leningrad, 1953, received a favorable review.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0" CIA-RDP86-00513R000515130006-0"

GINZBURG, V.G., doktor meditsinskikh nauk; KOLYCHEV, M.A., inzhener.

Various types of negatoscopes with fluorescent lights. Vest. rent i rad. no.6:80-82 N-D \*55 (MIRA 9:4)

1. Is gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii imeni V.M. Holotova(dir.-dotsent I.G. Lagunova)

(ROENTGENOGRAPHY, apparl and instruments
negatoscope, various constructions with luminescent lamps)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0"

GIMSBURG, Y.G., doktor meditsinskikh nauk; DMOKHOVSKIY, Y.V., kandidat teknnicheskikh nauk

Tomography in oblique projection [with summary in English]. Vest. rent. i rad. 32 no.1:50-52 Ja-F '57. (MIRA 10:6)

1. Is rentgenodiagnosticheskogo otdeleniya (zav. - prof. I.A. Shekhter) i laboratorii apparatov i trubok (zav. - kandidat tekhnicheskikh nauk V.V.Daokhovskiy) Gosudarstvennogo nauchno-issledovatel skogo instituta rentgenologii i radiologii imeni V.H.Molotova (dir. I.G.Lagunova)

(ROENTGENOGRAPHY

tomography in oblique projection)

 "APPROVED FOR RELEASE: Thursday, September 26, 2002
 CIA-RDP86-00513R000515130006-0

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GINZBURG, V.O., prof.

Radiographic diagnosis of foreign bodies in the skull following wounds of the maxillofacial region. Trudy TSentr. nauch.-issl. inst. rentg. i rad. 10:118-130 '59. (MIRA 12:9) (SKULL-RADIOGRAPHY) (FOREIGN BODIES)

> Method of tomography of the temporal bone. Vest.otorin. 22 no.5:39-43 8-0 160. (MIRA 13:11)

> 1. Iz rentgenodiagnosticheakogo otdela (sav. - prof. I.A. Shekhter) Gosudarstvennogo nauchno-isaledovatel takogo rentgenoradiologicheskogo instituta Ministerstva zdravookhraneniya RSFSR, Moskva. (TEMPORAL BONE-RADIOGRAPHY)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0" CIA-RDP86-00513R000515130006-0"

GINZBURG, V.G., prof.

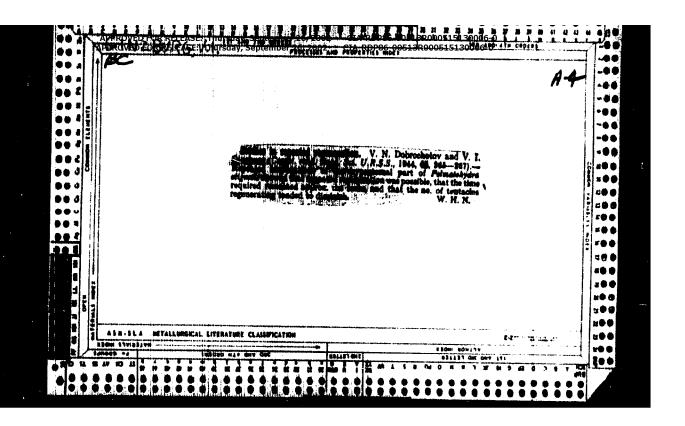
"Das Röntgenschicktbild des Ohres" by K. Mündnich, K.W. Frey. Reviewed by V.G. Ginzburg. Vest. rent. 1 rad. 36 no. 2:78-79 Mr-Ap '61. (MIRA 14:4)

(EAR—RADIOGRAPHY) (MÜNDNICH, K.) (Frey, K.W.)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0" CIA-RDP86-00513R000515130006-0"

GINZBURG, Vladimir Gertaevich, prof.; BENTSIANOVA, V.M., red.; KUZ'MINA, N.S., tekhn. red.

[Fundamentals of a roentgenological examination of the skull]
Osnovy rentgenologicheskogo issledovaniia cherepa; rukovodstvo
dlia vrachei. Moskva, Medgis, 1962. 178 p. (MIRA 16:4)
(SKULL—RADIOGRAPHY)



GINZ (ARROYED FOR RELEASE: Thursday, September 26, 2002 / ,CÍA-RDP86-00513R000515130006-0"

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R000515130006-0
CIA-RDP86-00513R000515130006-0

Discertation: "Mechanism of the Photoelectrochemical crocess on Application Polarised Clatinum and Load Clatinum and Load Clatinum."

Pl. Jetober 10

Sei Res Order of the Labor had benner Experienches cast tomic. Ye. Lerjov.

## SO Vecheryaya Moskva Sum 71

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R000515

Photoelectrochemical process and mechanism of liberation of expans at a platinum electrode. V. J. Glanturg. and V. I. Vacelovskii (Karpov Inst. Phys. Chem., Moccow). Zhav. Piss. Rhim. 24, 866-78(1960); cf. C.A. 44, W.76.—The potential V of a Pt electrode in N 11,80, after several anodic and cathodic polarizons was 0.90 v. referred to N H<sub>1</sub> electrode. If this Pt electrode was anodically polarized to V<sub>1</sub> v., it became photoecastive, and the light granically lowered V hack to 0.9 v. The rate of decrease of V was greater the greater V<sub>1</sub> (1.16-1.35 v.) and, the greater the light intensity I. The photoelectrochem. c.d.; was proportional to I, and the shift of V was a linear function of log I. The light longer than 400 ms was inactive, and the activity increased with Frequency up to 25 ms (the shortest wave used); at 256 ms the quantum yield of the photoelectrons was 0.3% for the incident light. At a const. I, increased with V<sub>1</sub> almost linearly as long as V<sub>1</sub> was small. The electrode capacity was approx. 38 microfarads/sq. cm. for both dark and light processes. When a Pt electrode was anodically polarized to V<sub>1</sub> more than 1.6 v. and its surface was then reduced cathodically, the V was for a time const. at 1.5 v. and about 0 (1912 coulombs/sq. cm. were required to lower the V<sub>1</sub> showing that the Pt surface was covered with a monolayer of a higher caide. Irradiation and esthodic polarization caused decomps of this caide more rapidly than either of them alone. The increase of O overvoltage on Pt with increasing c.d. showed a kink at 1.4 v. The mechanism of the photoelectrochem. effect includes liberation of an electron in Pt caide by light, migration of this electron into the metal, and of the "electron deficiency" toward the sola, and discharge of ng. O forming a part of the higher caide.

J. J. Bikerman

GINZPITAC, V. TAPPROVED TOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0"

Electrodes

Mechanism of action of ortical radiation on an anodically exidized lead electrode. Zhur. fiz. khim. 26, No. 1, 1952.

Monthly List of Aussian Agressions, Library of Congress, Sept, 1952. UNCLASSIFIED

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130006-0 CIA-RDP86-00513R000515130006-0

## GINZBURG, V.I.

Electrochemical investigation of the behavior of aluminium bronse towards corrosion in sulfuric acid [with English summary in insert] Zhur.fiz.khim. 30 no.9:1932-1940 S \*56. (MIRA 9 12)

1. Institut sinteticheskikh spirtov i organicheskikh producktov. Moskva.

(Aluminum bronse--Corrosion)

AUTHOR:

Ginzburg, V. I.

64-1-8/19

TITLE:

The Corresion Behavior of Chrome-Nickel Steel in Concentrated

Sulfuric Acid Solutions

(Korrozionnoye povedeniye khromonikelevykh staley v kontsentri=

rovannykh rastvorakh sernoy kisloty)

PERIODICAL:

Khimicheskaya Promyshlennost', 1958, Kr 1, pp. 37-42 (USSR).

ABSTRACT:

It was necessary to carry out the investigations mentioned in the title a short time after the opening of the below mentioned plant since considerable point corrosion phenomena have been ob= served on various steel types and as the explanations in publications are inadequate. 6 different kinds of investigations were carried out expediently, i. e. at so-called: 1) "weakly oxidi= zing, 2) "at oxidizing with agitation", 3) "weakly oxidizing with solitation", 4) "to a great extent reducing" conditions 5) with a specially developed device, and 6) investigations as to the point corrosion of the differently treated samples with a metallurgical microscope, artificial corrosion formation by drop= ping a drop of iron perchloride on the steel samples resp. The device of the 6th method of investigation is based on a proposal

Card 1/3

The Corrosion Behavior of Chrome-Nickel Steel in Concentrated Sulfuric Acid Solutions

64-1-8/19

by A. P. Akol'zin (reference 9) and makes possible investigations where a gas current keeps the sulfuric acid in motion and scaven\* eges the entire plant, resp. The experiments mentioned were carried out with sulfuric acid of 85-98,3% and at 85-looc. Among other facts the following was observed: In a "weakly oxidizing" medium, at a concentration of 85,300/o of sulfuric acid a carbonaceous steel is to a greater extent subjected to the corrosion than a chrome-nickel steel, whereas an increase of concentration reduces the corrosion and a temperature rise increases the corrosion. Similar results were obtained in the "oxidizing medium with agita" tion", whereby a somewhat lower mean corrosion velocity for chromenickel steels was observed. At "to a great extent reducing" condi= tions an extremely high corrosion of chrome-nickel steels in sulfu= ric acid of 85°/o at 85°C was observed, whereas it was comparatively low in sulfuric acid of 97°/o. The experiments with two steel samples in the specially developed equipment showed that the point corrosion is increased by an increased agitation of sulfuric acid, and that in the case of blowing gaseous ethylene through the plant and through the solution of sulfuric acid of 850/o the corrosion of the sample within the solution increases to a Freat extent. The experimental results of the dropping of a solution of iron perchloride of 30%/o

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on the steel samples showed the increased tendency towards point corrosion of one of the chrome-nickel steels. Summarizing, it can be said that a concentration increase of sulfuric acid causes in all steel types (in particular in the case of an increase of conmentration from 95 to 97°/o) a reduction of corrosion; the influence of the temperature rise depends on the composition of the steel; on certain conditions, an addition of molybdenum to the steel can supmort the corrosion, that is to say, that the assumption is wrong; that molybdenum-alloyed steels are always more corrosion-proof, previous to the occurrence of the point corrosion a so-called "hill corrosion" takes place, as was detected microscopically. This could be observed especially well in the case of a preliminary treatment of the investigation sample in a chlorine containing atmosphere. There are 9 figures, 2 tables, and 14 references, 4 of which are Slavic.

ASSOCIATION: Scientific Research Institute for Synthetic Alcohol and Organic Products (Nauchno-issledovatel'skly institut sinteticheskogo spirta i organicheskikh produktov)

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The Corrosion Behavior of Chrome-Mickel Steel in Concentrated Sulfuric Acid Solutions

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1. Chromium-nickel steel-Corrosion-Test methods 2. Sulfuric acids-Corrosive effects

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5(3) AUTHORS: sov/75-14-3-14/29

Ginzburg, V. I., Frishman, T. A.

TITLE:

Polarographic Determination of Small Amounts of Phenol on a Rotating Platinum Anode (Polyarograficheskoye opredeleniye nebol'shikh kolichestv fenola na vrashchayushchemsya platinovom anode)

PERIODICAL:

Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3, pp 336-342 (USSR)

ABSTRACT:

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As platinum electrode a platinum wire with a diameter of 0.5 to 1.5 mm and a length of 10 to 12 mm was used. The platinum wire was fastened on the shaft of an electromotor and supplied with current by means of a line conducted through the shaft. The "poisoning" of the electrode (Fig 1) described in a previous paper (Ref 11) could be eliminated by two ways: a) Preliminary treatment with concentrated nitric acid and - after washing off - three-stage anodic polarization in the background solution, b) (simpler) after treatment with nitric acid 5-6 sec annealing in the oxidation flame of a gas burner (up to red heat). Figures 2 and 3 show the polarograms taken by means of a galvanometer, figure 4 a diagram recorded by the electron polarograph. Table 1 and figure 6 present the results of a series of tests, which indicate the reproducibility and the

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Polarographic Determination of Small Amounts of Phenol on a Rotating Platinum Anode

> precision of the method suggested. On the basis of the calibration curve figure 6 the root mean square deviation was found to be 2.5 - 4.7%. The method is applicable to the direct determination of phenol (up to 1.0.10<sup>-5</sup> mole) in colored turbid medium which is contaminated by other organic compounds such as a-methyl styrene, acetophenone, acetome etc. There are 6 figures, 2 tables, and 11 references, 6 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Moskva (Scientific Research Institute of Synthetic Alcohols and Organic Products, Moscow)

January 8, 1958 SUBMITTED:

Card 2/2

. AUTHORS:

Ginzburg, V. I., Frishman, T. A.

SOV/32-24-8-12/43

TITLE:

The Volt-Amperometric Determination of Phenol in Isopropyl Benzene at a Rotating Platinum Electrode (Volt-amperometriches-koye opredeleniye fenola v izopropil benzole na platinovém

vrashchayushchemaya anode)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 8,

pp. 949 - 951 (USSR)

ABSTRACT:

Since a slight amount the phenol in isopropyl benzene inhibits the production of acetone and phenol a systematic control is needed for the phenol concentration. It has already been shown that a colorimetric method of analysis is not applicable. In the method mentioned in the title phenol is extracted from the anhydrous isopropyl benzene fraction with an alkali solution and then determined volt-amperometrically. It was shown that the degree of extraction of the phenol depends to a great extent upon the basicity of the extractant, as well as upon the time of extraction, size of interface, and the initial phenol concentration. The optimal conditions for extraction are given, as is the procedure for the volt-amperometric procedure. A table of results of determinations

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of phenol in isopropyl benzene for the concentration range  $10^{-5}$  to  $10^{-4}$  mole are also given. A maximum deviation of 7,4% and a standard deviation of 4,17% were observed. Less phenol was found than was actually present, and this was probably caused by incomplete extraction. The relatively low standard deviation indicates that the method meets the requirements for an analytical determination of such small amounts of phenol in isopropyl benzene. This method was successfully used in the Dzerzhinsk Works (Dzerzhinskiy zavod). There are 1 table and 2 references, 1 of which is Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov (The Scientific Research Institute for Synthetic Alcohols and Organic Products)

Card 2/2

18(7) AUTHOR:

Ginzburg, V. I.

SOV/32-25-2-46/78

TITLE:

A Unit for the Study of the Corrosion Properties of Materials in Highly "Aggressive" Media at Higher Temperatures (Ustanovka dlya izucheniya korrozionnogo povedeniya materialov v sil'no agressivnykh sredakh pri povyshennykh temperaturakh)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 2, pr 220 - 222 (USSR)

ABSTRACT:

Studies under technological conditions have been made possible by the construction of a laboratory unit of molybdenum glass. In this unit metallic and non-metallic materials are kept in contact with highly "aggressive" gases or liquids at a high temperature. The testing of chrome-nickel steels in concentrated (85-98%)  $\rm H_2SO_4$  saturated with different gases  $(0_2, N_2, C_2 H_2)$  up to a temperature of  $100^0$  was successful. Of special interest were the studies of the pitting corrosion of chrome-nickel steels under conditions corresponding to

actual operating conditions, dependent on the amount and

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velocity of the gas flowing through the unit, the intensity of

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the mixture of the aggressive liquid, the temperature of the solution, etc. The unit (Fig 1) contains a vessel for the examination of the corrosion (Fig 2) which was designed on the basis of the work done by P. A. Akol'zin and V. V. Glushchenko (Ref 1). The circulation of the gas through the corrosion liquid is effected by a glass circulation pump, while the liquid itself is kept flowing by a compressed air lift pump. In addition, the gas bubbles result in a violent agitation of the corrosion liquid. There are 2 figures and 1 Soviet reference.

ASSOCIATION:

Institut sinteticheskikh spirtov i organicheskikh produktov (Institute of Synthetic Alcohols and Organic Products)

5 (4) AUTHOR:

Ginzburg, V. I.

807/76-33-7-10/40

TITLE:

Phenol Oxidation on a Rotating Platinum Anode

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 7, pp 1504 - 1515 (USSR)

ABSTRACT:

T. A. Frishman and A. I. Yermakov assisted in the experimental part of the present paper. The investigation dealt with phenol exidation on a rotating Pt anode since this problem is important not only for this case but also for the development of convenient methods of polarographic analysis for other organic substances exidizing on solid anodes. The current-potential curves were plotted by a method described already earlier (Ref 7). Measurements were carried out by means of automatic polarographs of the system Heyrovsky of the types V-301 and M-1026 as well as by means of an electron polarograph with a disk diagram. The latter was specially designed by V. I. Ginzburg and L. S. Klyaynshteyn. Preliminary experiments indicated that for a quantitative analysis the electrode (E) is to be pretreated and prevented from being "poisoned" during measurement. This problem was experimentally solved in two variations

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Phenol Cxidation on a Rotating Platinum Anode

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(1) by preliminary anodic treatment and (2) by an annealing of the (E). Speeds of rotation of the (E) of more than 1,200 rpm were found to be an optimum. Among other things, it was found that the method of determination is more sensitive by 4 - 8 times on a rotating (E) than on a resting one (Table). Observations concerning the "poisoning" of the (E) indicate that the complex anodic reaction of phenol exidation includes also secondary delays and irreversible stages due to polymerization and adsorption of the oxidation products on the (E). Thus, it is possible that the limitations of diffusion vanish partly or completely. Experimental data shows that the quantity of the limiting current depends not only on the phenol concentration and the diffusion conditions (speed of rotation of the (E); temperature, etc.) but also on the polaritation rate and the state of the electrode surface. The author suggests a reaction mechanism for the conditions under investigation as well as a new method permitting quantitative polarographic determination of small phenol quantities in aqueous solutions (more than 1.0.10.5 mols of phenol). There are 10 figunes, 1 table, and 15 references, 8 of which are Soviet.

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Phenol Oxidation on a Rotating Platinum Anode

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ASSOCIATION: Nauchno-issledovatel skiy institut sinteticheskikh smol Moskva

(Scientific Research Institute for Synthetic Resins, Moscow)

SUBMITTED:

December 14, 1957

Card 3/3

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GINZBURG, V.I.

Determination of small amounts of thiourea in copper electrolytes on a rotating platimum anode. Zhur.anal.khim. 15 no.3: 355-358 My-Je '60. (MIRA 13:7) (Urea) (Electrodes, Flatimum)

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GINZBURG, V.I.; FLEGONTOVA, L.M.

Amperometric determination of the total content of phenol groups in epoxide resins. Zav. lab. 27 no. 4:392-394 161. (MIRA 14:4) (Phenols) (Epoxy resins)

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GINZBURG, V.I.

Amperometric determination of organic substances and of hexavelent chromium in chromate solutions. Zav.lab. 27 no.11:1337-1339 '61.

(MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut poligraficheskoy promyshlennosti.

(Conductometric analysis) (Chromium-Analysis)

(Chromium-Analysis)

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GINZBURG, V.I.; VIGER, G.I.

Amperometric determination of small quantities of thiourea and its use for the amperometric determination of silver. Zhur, anal.-khim. 17 no.5:631-635 Ag '62. (MIRA 16:3)

1. All-Union Scientific Research Institute of Printing Industry, Moscow.
(Urea) (Silver-Analysis) (Conductometric analysis)