YERSHOV, F.I.; HO YUN-DE; GORBUNOVA, A.S.

Investigations into syncytium formation in cultures of stable cell lines infected with parainfluenza 1 virus. IV. Cytochemical studies on the formation of A and B type syncytia. Acta virol. 7 no.4:316-321 Jl '63.

1. Ivanovsky Institute of Virology, U.S.S.R. Academy of Medical Sciences, Moscow.
(PARA-INFLUENZA VIRUSES) (CYTOLOGY) (CHEMISTRY)
(TISSUE CULTURE) (MICROSCOPY, FLUORESCENCE)
(STAINS AND STAINING) (FLUORESCENT ANTIBODY TECHNIC)

GORBUNOVA, Anna Sergeyevna; KOU YUN'-DE [Hou Yun-Teh] ; YERSHOV, F.I., red.; MIRONOVA, A.M., tekhn. red.

[Sendai virus, the pathogen of influenzalike diseases in man and animals] Virus Sendai-vozbuditel' grippopodobnykh zabolevanii cheloveka i zhivotnykh. Moskva, Izd-vo "Meditsina," 1964. 194 p. (MIRA 17:3)

YERSHOV, F.I.; BYKOVA, Z.A.

Biological characteristics of plague bacteriophages. Zhur. mikrobiol., epid. i immun. 40 no.4:131-136 Ap '63.
(MIRA 17:5)

1. Iz II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni Pirogova i Nauchno-issledovatel'skogo protivochumnogo instituta Kavkaza i Zakavkaz'ya.

OSADCHIYEVA, A.L.; EYDINOVA, G.G.; YERSHOV, F.I.

Epidemiology of colienteritis. Sov. med. 28 no.7:44-48 Jl '64.
(MIRA 18:8)

1. Kafedra epidemiologii i TSentral'naya nauchno-issledovatel'skaya laboratoriya II Moskovskogo meditsinskogo instituta imeni Pirogova.

YERSHOV, F.I.; BELOKRYSENKO, S.S.

Comparative study of induced lysogenic bacteria by fluorescence microscopy. Zhur. mikrobiol., epid. i imm. 41 no. 2:118-122 F '64. (MIRA 17:9)

1. II Moskovskiy meditsinskiy institut imeni Pirogova.

MOSOLOV, A.N.; YERSHOV, F.I.

Cytophagy and pinocytosis; some considerations in the light of data obtained from studying tissue cultures. Izv. SO AN SSSR no.8. Ser.biol.-med.nauk no.2:139-147 '65. (MIRA 18:9)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk i Institut virusologii AMN SSSR, Moskva.

GAVRILOV, V.I.; YERSHOV, F.I.; BLYUMKIN, V.N.; KVOKOV, K.I.; LEVINA, D.S.; ZMIYEVA, R.G.

Characteristics of the morphogenesis of the cultures of the line of transplantable CA-SV40-63-1 cells. Vop. virus. 10 no.3:323-329 My-Je '65. (MIRA 18:7)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

YERSHOV, F.I.; VAGZHANOVA, V.A.

Dynamics of the reproduction of viruses of [illegible] encephalitis in tissue culture. Vop. virus. [illegible] '65.

1. Institut virusologii imeni D.I.Ivanovskogo [illegible], Moskva.

YERSHOV, F.I.; TSAREVA, A.A.

Site of synthesis of the Venezuelan equine encephalomyelitis virus. Vop. virus. 10 no.3:349-351 My-Je '65. (MIRA 18:7)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

YERSHOV, F.I.; ZHDANOV, V.M.

Effect of PPLO on the production of interferon by infected cells.
Dokl. AN SSSR 164 no.5:1165-1166 O '65.
(MIRA 18:10)

1. Institut virusologii im. D.I.Ivanovskogo AMN SSSR.
2. Deystvitel'nyy chlen AMN SSSR (for Shdanov).

ZHDANOV, V.M.; STAKHANOVA, V.M.; YERSHOV, F.I.

Polycistronic organization of viral RNA. Vop. virus. 9 no.5:564-569 S-O '64. (MIRA 18:6)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

YERSHOV, F.I.; ZHDANOV, V.M.; TSAREVA, A.A.

Multiplication of the Venezuelan equine encephalomyelitis virus in cells treated with actinomycin D. Antibiotiki 10 no.3: 250-255 Mr '65. (MIRA 18:10)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.

ZHDANOV, V.M.; YERSHOV, F.I.

Use of puromycin for the inhibition of the growth of the Venezuelan equine encephalomyelitis virus. Antibiotiki 10 no.3:255-259 Mr '65. (MIRA 18:10)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.

KLIMENKO, S.M.; YERSHOV, F.I.; GOFMAN, Yu.P.; NABATNIKOV, A.P.; ZHDANOV, V.M.

Characteristics of the structural organization of the Venezuelan equine encephalomyelitis virus. Vop. virus. 10 no.5:520-525 S-O '65. (MIRA 18:11)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.

BORISOV, L.B.; RUMEL', N.B.; YERSHOV, F.I.; MEN'SHIKH, L.K.; ZHDANOV, V.M.; SOKOLOV, M.I.; BUKRINSKAYA, A.G.; BURDUCHEA, O.

Brief news. Vop. virus. 10 no. 6:727-733 N-D '65
(MIRA 19:1)

1. Leningradskiy sanitarno-gigiyenicheskiy meditsinskiy institut (for Borisov, Rumel'). Submitted December 29, 1964. 2. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva (for Yershov, Men'shikh, Zhdanov, Sokolov). Submitted February 2, 1965. 3. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva (for Bukrinskaya, Burduchea). Submitted February 8, 1965.

YERSHOV, F.I.

Symplasm-forming activity of viruses. Vop. virus. 10 no.1: 3-7 Ja-F '65. (MIRA 18:5)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

KAGAN, G.Ya.; YERSHOV, F.I.

Cytochemical composition of stable L-forms of some pathogenic bacterial species. Zhur.mikrobiol.,epid. i immun. 41 no.5:101-105 My '64. (MIRA 18:2)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR i II Moskovskiy meditsinskiy institut imeni Pirogova.

KAGAN, G.Ya.; YERSHOV, F.I.; SHCHEGOLEV, A.G.; FEDORCVA, G.I.; PROZOROVSKIY, S.V.; MIKHAYLOVA, V.S.; LEVASHEV, V.S.

Some regularities in the L-form reversion of pathogenic species of bacteria. Zhur. mikrobiol.; epid. i immun. 41 no.6:67-70 Je '64. (MIRA 18:1)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR i II Moskovskiy meditsinskiy institut imeni Pirogova.

YERSHOV, G.

Sources of Groznyy oil. Neftianik 7 no.1:28-29 Ja. '62.
(MIRA 15:2)
(Groznyy Province—Oil fields)

YERSHOV, G.; GLEMBOTSKAYA, G.

In the oil regions of our country. Neftianik 7 no.3:30-32 Mr '62. (MIRA 15:5)
(Petroleum industry)

YERSHOV. G.F.

42602. Demograficheskiye Posledstviya Voyny V Molotovskoy Oblasti. V.sb: Med.-san Posledstviya voyny I Meropriyatiya Po Ikh Likvidatsii. T.11. M. 1948, S. 12-16.

YERSHOV, G. F.

Results of the activity of the permanent Public Health Commission of the Municipal Council of workers representatives. Sovet. zdravookhr. No. 6, Nov.-Dec. 50. p. 25-30

1. Chairman of the Permanent Public-Health Commission of Molotov Municipal Soviet, Molotov.

CLML 20, 3, March 1951

YERSHOV, O.F., prof.

Aid rendered by a medical institute to public health services. Sov. zdrav. 17 no.1:37-40 Ja '58. (MIRA 11:2)

1. Iz kafedry organizatsii zdravookhraneniya Rostovskogo meditsinskogo instituta (dir. - prof. Ye.M.Guharev)
(PUBLIC HEALTH, educ.
in Russia, program at Rostov Med. Institute (Rus))

YERSHOV, G.S., Cand Tech Sci -- (diss) "Study of the heat regime of casting devices and systems of automatic regulation of the heat process in typesetting line-casting machines." Mps, 1959, 16 pp with drawings (Min of Higher Education USSR. Mos Polygraphic Inst) 150 copies (KL, 28-59, 127)

ACCESSION NR: AP4019488 S/0078/64/009/003/0654/0659

AUTHOR: Yershov, G. S.; Popova, E. A.

TITLE: Kinetics of a solution of silica in oxide melts

SOURCE: Zhurnal neorg. khimii, v. 9, no. 3, 1964, 654-659

TOPIC TAGS: silica solution, kinetics, solution rate, steel refining, electroslag smelting, silicate free steel, sodium oxide additive, titanium dioxide additive, diffusion process, diffusion rate, diffusion coefficient, steel purification, activation energy, surface tension, slag, flux

ABSTRACT: Synthetic slags and fluxes comprising $CaO-Al_2O_3-SiO_2$ systems are used in refining liquid steel and in electroslag smelting. More information on the solution of SiO_2 in slags of different compositions under different conditions is required from the standpoint of obtaining steels free of silicate inclusions. The rate of solution of SiO_2 in these systems and the solution kinetics of these systems with the addition of Na_2O and TiO_2 were investigated by the method of

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ACCESSION NR: AP4019488

rotating a sample with equally accessible surfaces. P. M. Shury*gin, O. A. Yesin, L. N. Barmin. Izv. vuzov, chernaya metallurgiya, No. 1 1962). The amount (V) of material dissolved in a unit time is

$$V = D \cdot S \frac{c_0 - c}{\delta}$$

where D is the diffusion coefficient of the material in the melt, S is the surface of the material to be dissolved, c_0 is the maximum solubility of the material in a given melt at the test temperature, c is the concentration of the material in the melt, and delta is the value of the so-called Nernst diffusion layer. For a disc of radius r, rotating at rate ω in a melt having kinematic viscosity ν, the expression for delta is:

$$\delta = 1{,}61 \left(\frac{D}{\nu}\right)^{1/3} \sqrt{\frac{\nu}{\omega}}$$

V then becomes:

$$V = 0{,}62 D^{2/3} \omega^{1/2} \nu^{-1/6} (c_0 - c)$$

The experimental work is in agreement with the equation showing a linear relationship between the rate of solution and the rate of sample rotation. This indicates that the kinetics of SiO_2 solution in oxide melts are determined by diffusion

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ACCESSION NR: AP4019488

processes. The rate of diffusion of SiO_2 at constant rotation varies with chemical composition of the melt. By increasing SiO_2 content to 10% at the expense of Al_2O_3 and maintaining CaO constant, the solubility of SiO_2 in the melt increases. The diffusion coefficients of different composition melts were calculated according to equation 3. The value of D_{SiO_2} is in the order of 10^{-6} cm^2/sec. Increasing tempterature greatly increases rate of solution. The introduction of TiO_2 or Na_2O to the synthetic slags improved the degree of steel purification, lowered the surface tension of the melt, and lowered the activation energy of the process of solution and diffusion. Orig. art. has: 6 figures, 2 tables and 7 equations.

ASSOCIATION: Institut metallurgii, Ural'skogo filiala Akademii nauk SSSR (Metallurgical Institute, Ural Branch, Academy of Sciences SSSR)

SUBMITTED: 08Feb63 DATE ACQ: 31Mar64 ENCL: 00

SUB CODE: ML, CH NO. REF. SOV: 004 OTHER: 002

Card 3/3

YERSHOV, G.S. (Sverdlovsk); POPOVA, E.A. (Sverdlovsk)

Effect of silicon oxide on the crystallization of steel and the formation of nonmetallic inclusions. Izv. AN SSSR. Met. i gor. delo no.5: 18-22 S-O '64. (MIRA 18:1)

YERSHOV, G.S.; UMRIKHIN, P.V.; KUROCHKIN, K.T.

Water permeability of acid open-hearth furnace slags. Izv. vys. uchob. zav.; chern. met. no. 1:165-72 '61. (MIRA 14:2)

1. Ural'skiy politekhnicheskiy institut.
(Open-hearth furnaces--Equipment and supplies)
(Slag--Permeability)

YERSHOV, G.S.; KUROCHKIN, K.T.; UMRIKHIN, P.V.

Kinetics of the passage of hydrogen in the gaseous phase through slag into the metal. Izv.vys.ucheb.zav.; chern.met. 4 no.6:34-41 '61. (MIRA 14:6)

1. Ural'skiy politekhnicheskiy institut.
(Steel—Hydrogen content)

SHTENGEL'MEYER, S.V.; YERSHOV, G.S.

Viscosity of acid open-hearth furnace slags. Izv. vys. ucheb. zav.; chern. met. 4 no.7:72-77 '61. (MIRA 14:8)

1. Ural'skiy politekhnicheskiy institut i Institut metallurgii. Ural'skogo filiala AN SSSR.
(Slag)
(Viscosimetry)

STENGHELMEIER, S.V. [Shtengel'meyer, S.W.]; ERSOV, G.S. [Yershov, G.S.]

Viscosity of acid Martin slag. Analele metalurgie 16 no.1:28-34 Ja-Mr '62.

YERSHOV, G.S.; KUROCHKIN, K.T.; UMRIKHIN, P.V.

Effect of slag conditions on hydrogen behavior in the metal of an acid open-hearth furnace. Izv. vys. ucheb. zav.; chern. met. 5 no.5:56-62 '62. (MIRA 15:6)

1. Ural'skiy politekhnicheskiy institut.
(Open-hearth furnaces) (Steel—Hydrogen content)

BAPTIZMANSKIY, V.I.; BAUM, B.A.; YERSHOV, G.S.

Effect of the composition of a fluidized bed on the content of hydrogen in steel. Stal' 22 no.12:1084-1086 D '62.
(MIRA 15:12)

1. Dnepropetrovskiy metallurgicheskiy institut (for Baptizmanskiy).
2. Ural'skiy politekhnicheskiy institut (for Baum, Yershov).
(Fluidization) (Steel—Hydrogen content)

L 15583-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD

ACCESSION NR: AP3000930 S/0271/63/000/002/0033/0039

AUTHORS: Yerashov, G. S.; Mikhaylikov, S. V. (Sverdlovsk)

TITLE: Investigation of the possibility of steel refining by means of synthetic slags

SOURCE: AN SSSR. Ural. otd. tekh. nauk. Metallurgiya i gornoye delo, no. 2, 1963, 33-39

TOPIC TAGS: steel, refining, slag, synthetic slag, blast furnace slag, nepheline, desulfuration

ABSTRACT: The investigation deals with the refining of steel by means of synthetic slags with a high silica content, of blast furnace slag, and of nepheline-based synthetic slags. The steel was prepared from a batch of Armco-iron heated to 1650C, with the aftercharge added before the discharge. The slags were prepared in a resistance furnace either from pure components or from metallurgical slags supplemented with lime and alumina. From 6 to 7% of the resulting slag, heated to 1700C, was added to the steel in the ladle at 1000C. It was found that a silica content up to 21% in the synthetic slag did not adversely affect the desulfuration of steel, while an increase in ferrous oxide in the slag from 0.60%

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L 15583-63

ACCESSION NR: AP3000904

to 4.50% caused the sulfur to decrease by 35% to 12% of the original amount. Tests conducted with blast furnace slag resulted in a 21% increase in the steel sulfur content. The performance of this slag was improved after a preliminary purification by oxygen. It was also found that treatment of the steel with $CaO-Al_2O_3-SiO_2$ slags resulted in a marked reduction of nonmetallic inclusions. The effectiveness of the slags in this respect was favorably influenced by their TiO_2 content. The use of nepheline as a slag reduced the nonmetallic inclusions of the steel from the original 0.058% to 0.009%. Orig. art. has: 6 formulas and 3 tables.

ASSOCIATION: none

SUBMITTED: 18Oct62	DATE ACQ: 12Jun63		ENCL: 00
SUB CODE: ML	NO REF SOV: 009		OTHER: 001

Card 2/2

YERSHOV, G.S.

Effect of the concentration of ferrous oxide and manganous oxide on the rate of hydrogen passing over from slags to metal. Zhur. prikl. khim. 36 no.9:2082-2085 D '63.
(MIRA 17:1)

YERSHOV, G.S. (Sverdlovsk)

Silicon reduction in an acid steel smelting process. Izv. AN SSSR. Otd. tekh. nauk. Met. i gor. delo no.4:54-58 Jl-Ag '63. (MIRA 16:10)

YERSHOV, G.S. (Sverdlovsk); POPOVA, E.A. (Sverdlovsk)

Kinetics of the dissolution of silicon, aluminum and magnesium oxides in fused oxides. Izv. AN SSSR. Met. i gor. delo no.5: 73-79 S-O '63. (MIRA 16:11)

LUPEYKO, V.M.; YERSHOV, G.S.; UMRIKHIN, P.V.; MIKHAYLIKOV, S.V.

Improving the method of metal refining by synthetic slags.
Izv. vys. ucheb. zav.; chern. met. 7 no.3:57-65 '64.
(MIRA 17:4)

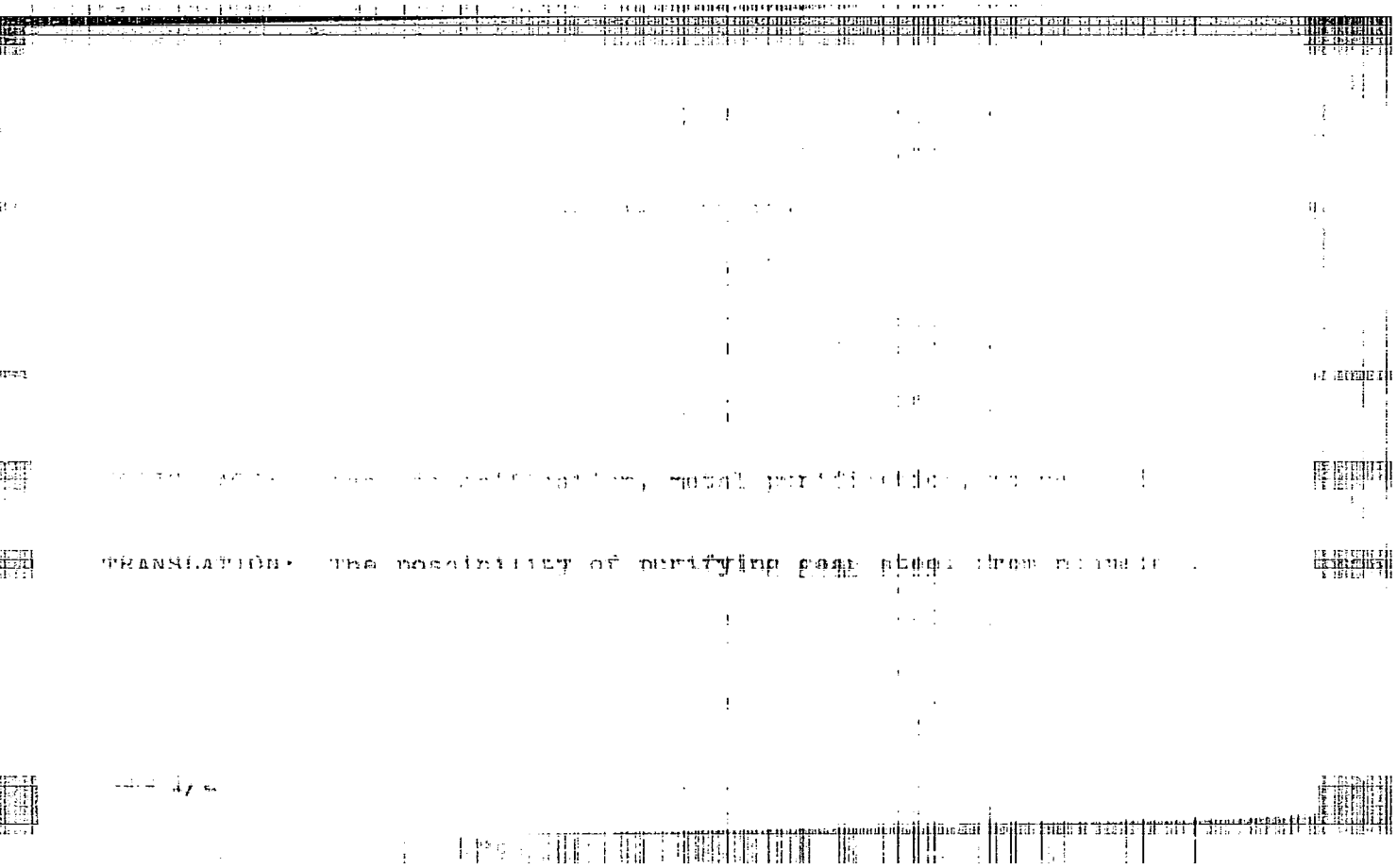
1. Ural'skiy politekhnicheskiy institut.

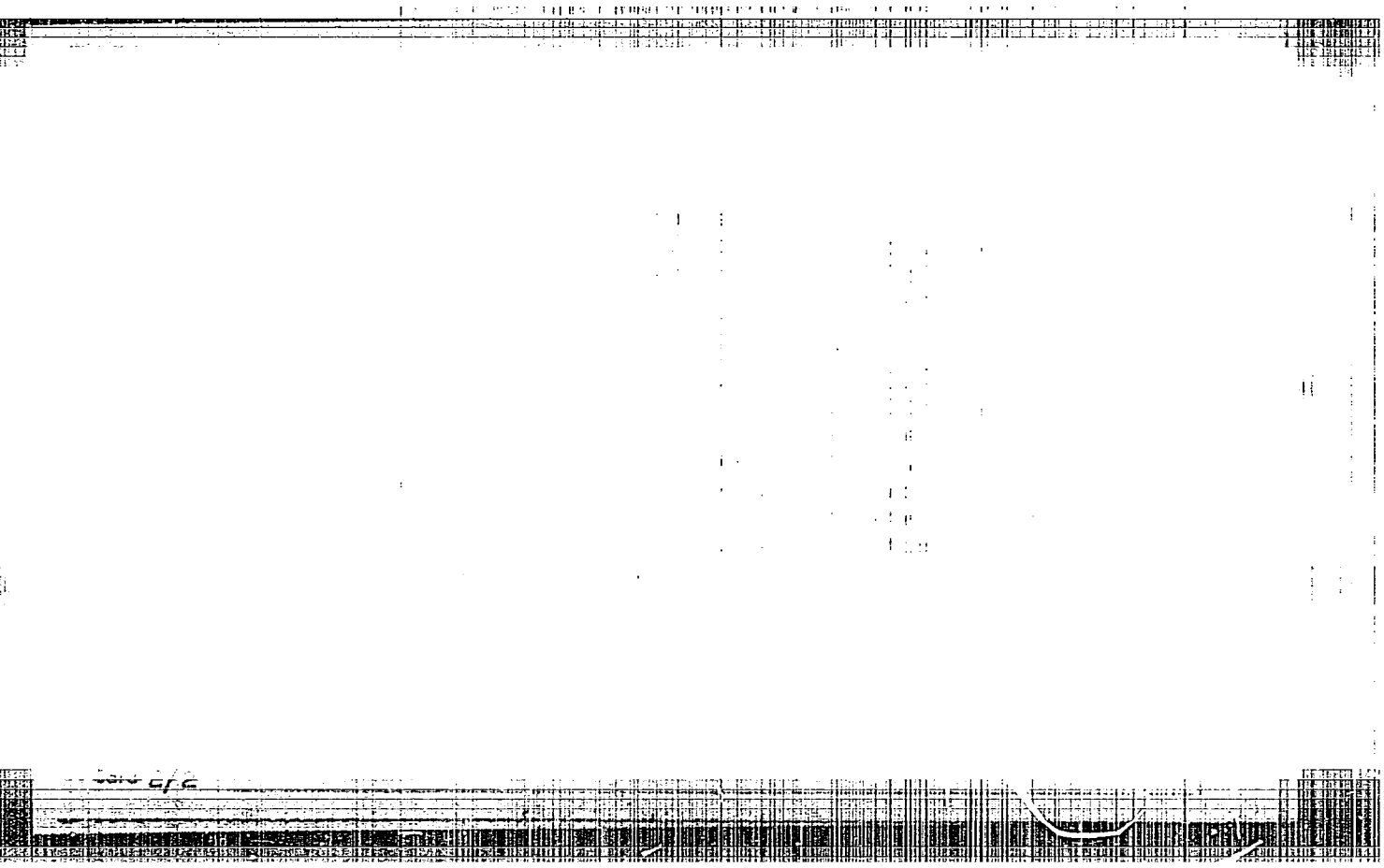
MIKHAYLIKOV, S.V. (Sverdlovsk); SHTENGEL'MEYER, S.V. (Sverdlovsk); YERSHOV, G.S. (Sverdlovsk)

Effect of silica on the viscosity of lime-silica slags. Izv. AN SSSR. Met. i gor. delo no.1:48-50 Ja-F '64. (MIRA 17:4)

YERSHOV, G.S. (Sverdlovsk); POPOVA, E.A. (Sverdlovsk)

Reduction of iron and silicon from molten slags by carbon. Izv. AN SSSR. Met. i gor. delo no.1:32-35 Ja-F '64. (MIRA 17:4)





YERSHOV, G.S.; POPOVA, E.A.

Kinetics of silica dissolution in oxide melts. Zhur. neorg. khim. 9 no.3:654-659 Mr '64. (MIRA 17:3)

1. Institut metallurgii Ural'skogo filiala AN SSSR.

L 6510-66 EWT(m)/EPF(c)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)/EWA(c) IJP(c)

ACC NR: AP5024893 MJW/JD SOURCE CODE: UR/0130/65/000/010/0016/0017

AUTHOR: Nikitin, B. M.; Yershov, G. S.; Malinovskiy, Ye. I.

ORG: none

TITLE: Effect of sodium oxide on the refining capacity of fluxes used in electroslag melting

SOURCE: Metallurg, no. 10, 1965, 16-17

TOPIC TAGS: steel melting, electroslag melting

ABSTRACT: The effect of sodium oxide on the refining capacity of the slags of the CaF_2-Al_2O_3-Na_2O system used in electroslag melting has been investigated. It was found that increasing the sodium-oxide content reduced the viscosity and surface tension of slags. As a result, it stimulates the diffusion of silicon, aluminum, and magnesium oxides and lowers the content of nonmetallic inclusions in metal. Sodium oxide added to the slag in the amount of 6% lowers the surface tension of slag at 1600C from 425 to 370 erg/cm^2. In addition, sodium oxide is a strong desulfurizer. In electroslag-melted heats of the EI654, 30KhGSA, and 12Kh2N4A steels, the sulfur content dropped from 0.005% to 0.001%, from 0.019% to 0.003%, and from 0.015% to 0.006%, respectively. Sodium oxide also improves the heat transfer in the bath and, as a result, produces ingots with a smooth surface. Orig. art. has: 2 figures. [ND]

Card 1/2 UDC: 669.187.6.009.01

0901 1707

L 6516-66
ACC NR: AP5024893

SUB CODE: MM/ SUBM DATE: none/ ATD PRESS: 4139

nw
Card 2/2

YERSHOV, G.S. (Zaporozh'ye); ORLOV, Yu.G. (Zaporozh'ye)

Nitrogen behavior in slag and metal phases during the smelting of alloyed steel. Izv. AN SSSR. Met. no.6:28-37 N-D '65. (MIRA 19:1)

1. Submitted October 14, 1964.

L 24742-66 EWT(m)/EWA(d)/T/EWP(t) IJP(c) JD/JH

ACC NR: AP6007926 SOURCE CODE: UR/0148/66/000/002/0063/0068

AUTHORS: Zhalybin, V. I.; Yershov, G. S.

ORG: Ukrainian Scientific Research Institute for Special Steels, Alloys and Ferroalloys (Ukrainskiy nauchno-issledovatel'skiy institut spetsial'nykh staley, splavov i ferrosplavov)

TITLE: Reduction of magnesium in the lining, and its influence on certain macrodefects in steel

SOURCE: IVUZ. Chernaya metallurgiya, no. 2, 1966, 63-68

TOPIC TAGS: steel, alloy steel, aluminum, manganese, cesium, steel macrostructure, magnesium, magnesium oxide/ 45G17Yu3 steel

ABSTRACT: The investigation was conducted to extend the currently available information on the effect of magnesium on certain macrodefects in steel. The earlier work of M. V. Pridantsev, P. K. Teterin, and A. I. Kondrat'yev (Byulleten' NaIIN ChM., 1964, No. 1) was expanded, and the extent and rate of magnesium oxide reduction from furnace linings by carbon, manganese, and aluminum dissolved in iron was determined. The experiments were carried out on a mixture of steel 45G17Yu3 and soft iron in an induction furnace of 40-kg capacity with a MgO lining. The effect of adding various amounts of carbon, aluminum, ferrocesium, and manganese to the steel on the magnesium content and on the extent and nature of the macrodefects in the steel was determined.

UDC: 669.141.247-154.046.51

Card 1/2

The experimental results are presented in graphs and tables (see Fig. 1).

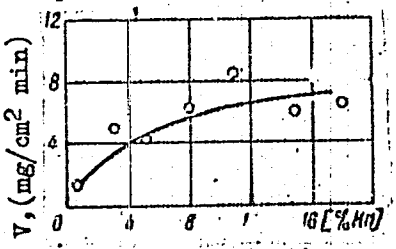


Fig. 1. Rate of magnesium oxide reduction as a function of the manganese concentration in the iron. (V is the decrease in weight of the specimen per unit surface per minute.)

It was found that during smelting of steel 45G17Yu3 in an MgO-lined furnace the magnesium content of the steel increases from 0.005 to 0.019%. The macrodefects (stratification, inhomogeneity) are directly proportional to the magnesium content in the steel. I. P. Panchenko, N. G. Antropova, and V. P. Pirogshkova participated in the experiments. Orig. art. has: 1 table and 5 graphs.

SUB CODE: 11/ SUBM DATE: 17Mar65/ ORIG REF: 005/ OTH REF: 001

YERSHOV, G.S.; POPOVA, E.A.

Diffusion of silicon, aluminum, and magnesium oxides in oxide melts. Zhur. fiz. khim. 38 no.6:1637-1639 Je '64.
(MIRA 18:3)

1. Institut metallurgii Ural'skogo filiala AN SSSR.

YERSHOV, G.S.(Zaporozh'ye)

Hydrogen diffusion in basic steelmaking slags. Izv. AN SSSR. Met. no.1:78-81 Ja-F '65. (MIRA 18:5)

YERSHOV, G.S.; UMRIKHIN, P.V.

Effect of slag conditions on the behavior of gases and nonmetallic inclusions in acid electric furnace metal. Izv. vys. ucheb. zav.; chern. met. 7 no.8:50-55 '64.
(MIRA 17:9)

1. Ural'skiy politekhnicheskiy institut.

SHAVRIN, S.V., kand. tekhn. nauk, red.; LEPINSKIKH, B.M., kand. tekhn. nauk, red.; YERSHOV, G.S., kand. tekhn. nauk, red.

[Transactions of the First Sverdlovsk Scientific and Technical Conference of Young Scientists] Trudy Sverdlovskoi nauchno-tekhnicheskoi konferentsii molodykh uchenykh. Sverdlovsk, AN SSSR. Pt.1. 1964. 89 p. (MIRA 18:2)

1. Sverdlovskaya nauchno-tekhnicheskaya konferentsiya molodykh uchenykh, 1st, Sverdlovsk, 1962.

YERSHOV, I.

With help of students. Prom.koop. 14 no.9:23 S '60. (MIRA 13:11)

1. Upravlyayushchiy oblastnoy zagotovitel'noy kontoroy Vtorsyr'ya (g.Kuybyshev).
(Kuybyshev Province--Salvage (Waste, etc.))

YERSHOV

PHASE I BOOK EXPLOITATION SOV/5334

Akademiya nauk SSSR. Institut fiziki Zemli

Voprosy inzhenernoy seysmologii, vyp. 3 (Problems in Engineering Seismology, No. 3) Moscow, 1960. 191 p. 1,700 copies printed. (Series: Its: Trudy, no. 10 (177)

Resp. Eds.: S.V. Medvedev, Doctor of Technical Sciences, and A.Z. Kats, Candidate of Physics and Mathematics; Ed. of Publishing House: L.K. Nikolayeva; Tech. Ed.: P.S. Kashina.

PURPOSE: This book is intended for seismologists, and engineers concerned with the construction of earthquake-resistant buildings.

COVERAGE: This is a collection of 15 articles by different authors on problems of engineering seismology. Individual articles discuss the effects of quakes on various structures; seismic activity in the Sochi-Khosta, Krasnaya Polyana, and Pokrovsk-Ural'skiy regions; and ground vibrations during strong earthquakes. One article discusses the effect of the detonation of 3100 tons of explosives on buildings located 1000 m away. No personalities are mentioned. Each article is accompanied by references.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

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JA/dwm/mas
6-20-61

(14)

TSEYTLIN, Ya.I.; YERSHOV, I.A.

Lowering the seismic effect of a blast in short-delay blasting. Trudy Inst. fiz. Zem. no.21. Vop. inzh. seism. no.6:103-114 '62. (MIRA 15:9)

(Blasting)

GORYACHEV, A.V.; YERSHOV, I.A.; KIRILLOV, F.A.; KUZIN, I.P.; LYAMZINA, G.A.; MEDVEDEV, S.V.; POPOV, V.V.; FEDOTOV, S.A.; SHTEYNBERG, V.V.

Seismic microzoning of the Petropavlovsk-Kamchatskiy area. Trudy Inst. fiz. Zem. 28 Vop. inzh. seism. no.8:3-60 '63. (MIRA 16:11)

YERSHOV, I.A.; MEDVEDEV, S.V.

Density of the seismic energy of the [illegible] in blasting. Trudy Inst. fiz. Zem. no.3[illegible]. [illegible] 50-58 '64. (MIRA 17:[illegible])

L 20424-66 EWT(1)/EWA(h) GW

ACC NR: AT6007194 SOURCE CODE: UR/2619/65/000/036/0003/0033

AUTHOR: Yershov, I. A.; Medvedev, S. V. (Professor); Fedotov, E. A.; Shteynberg, V. V.

ORG: none*

TITLE: Seismic microregionalization of Petropavlovsk (Kamchatka)

SOURCE: *AN SSSR. Institut fiziki Zemli. Trudy, no. 36 (203), 1965. Seysmicheskoye mikrorayonirovaniye; voprosy inzhenernoy seysmologii (Seismic microdistricting; problems of engineering seismology), no. 10, 3-33

TOPIC TAGS: seismicity, seismic mapping, seismic survey, microregionalization

ABSTRACT: The city of Petropavlovsk (Kamchatka) lies in seismic zone IX (according to the new map of seismic zones of the USSR), a few tens of kilometers from the Pacific Ocean seismic belt. The slope of the basin off southern Kamchatka is one of the most active segments of the circum-Pacific belt. The city lies in the northeastern part of the Kurile-Kamchatka folded zone. The geomorphology and geology of the district are described briefly. Investigations over a period of three years (1961—64) by the Pacific Ocean Seismic Expedition of the Institute of Geophysics, AN SSSR, on Kamchatka have led to refinement of intensity data for Petropavlovsk (Kamchatka) and have permitted compilation of maps showing divisions of the city into seismic subdistricts. This work represents the first combined operation of instrumental work for such detailed subdivisions of seismic districts. Data include

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L 20424-66
ACC NR: AT6007194 O

recordings of nearby earthquakes by automatic equipment, measurements of longitudinal and transverse wave velocities, and measurements of microseisms. The work has furnished better data for compiling maps of seismic districts and for comparing different methods of determining intensity increments by instrumental recording. Different instrumental methods have shown rather good agreement. It is noted that the most valuable information concerning possible seismic activity may be obtained by analyzing ground movements from nearby earthquakes by means of automatic equipment. An essentially new aspect of the maps is the delineation of zones with different spectra of earthquake effects on buildings and other structures. This is an important contribution to engineering practice in constructing earthquake-proof buildings. At many points in zones of scale IX along the Kamchatka coast and on the Kuriles, geologic conditions of bedrock and soils are similar to those in Petropavlovsk (Kamchatka). The same technique of dividing into districts has been followed, but where instrumental data have not been available, characteristics of bedrock and soils as observed at Petropavlovsk have been used as the basis for delineating districts. Orig. art. has: 13 formulas, 14 figures, and 4 tables. [04]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 034/ OTH REF: 006/ ATD PRESS: 4222

Card 2/2 ULR

L 20176-66 EWT(1)/EWA(h) GM

ACC NR: AT6007196 SOURCE CODE: UR/2619/65/000/036/0046/0060

AUTHOR: Yershov, I. A.

ORG: none

TITLE: Comparison of instrumental data on the propagation velocities of waves in the ground, their amplitudes, and their periods, for microregionalization

SOURCE: AN SSSR. Institut fiziki Zemli. Trudy, no. 36 (203), 1965. Seysmicheskoye mikrorayonirovaniye; voprosy inzhenernoy seysmologii (Seismic microdistricting; problems of engineering seismology), no. 10, 46-60

TOPIC TAGS: seismology, microseism, microseismology

ABSTRACT: A large complex of instrumental observations, made at Petropavlovsk (Kamchatka) to compare different instrumental methods of microseismic regionalization, included: 1) recording earthquakes with automatic seismic stations set up on various types of soil; 2) measuring velocities of head wave propagation in the soils of the area, and 3) measuring microseisms in various soils at Petropavlovsk. Measurements of microseisms and the velocities of longitudinal and transverse wave propagation are described, as is a new method called the "method of standard measurements." In the new method, seismic properties of soils are studied with a standard source of excitation placed at some definite (standard) distance from the site at which the vibrations are recorded. The maximum amplitude and the period corresponding to it are the

Card 1/3

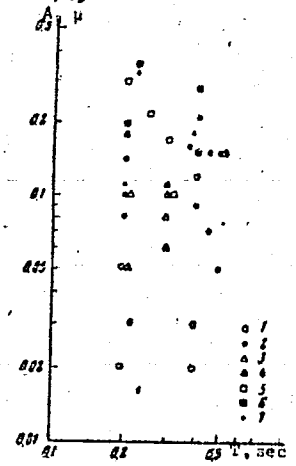


Fig. 1. Amplitude and period of microseisms measured in different types of soil:

1 - Rocky; 2 - coarse waste; 3 - pyroclastic; 4 - sand; 5 - sand and clay; 6 - waterlogged sand, clay, and pyroclastic; 7 - waterlogged soil in embankments.

basic characteristics. These methods were checked against magnitude increments observed at several reference stations set up on different soils. Observations of earthquakes (magnitudes of 7—8) were registered at Petropavlovsk-Kamchatskiy on 4 May 1959. These were supplemented by data on magnitude increments supplied from automatic seismic stations simultaneously recording earthquakes in different soils. Results obtained by determining the magnitude increment of longitudinal and transverse waves caused by tremors and microseisms, and those obtained with the method of standard measurements are discussed and compared for various soils (see Fig. 1). It is con-

L 20176-66
ACC NR: AP6007196

cluded that magnitude increments should be determined by joint measurements of the propagation velocities of longitudinal and transverse waves using the same formula, but making corrections for the water table in the case of the latter. The method of standard measurements appears to be a promising way to obtain information on the seismic properties of soils with low-cost apparatus and a minimum of subjective errors in data interpretation, but it requires further experimental confirmation. [EO]
Orig. art. has: 4 figures, 5 tables, and 8 formulas.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 015/ OTH REF: 002/ ATD PRESS: 4214

Card 3/3

YERSHOV, I. B.

ISAKOV, I.S., prof., admiral flota, otv.red.; PETROVSKIY, V.A., dotsent, kand.voyenno-morskikh nauk, kontr-admiral, red. [deceased]; DEMIN, L.A., dotsent, kand.geograf.nauk, inzh.-kapitan 1 ranga, glavnyy red.; BARANOV, A.N., red.; BERG, L.S., akademik, inzh.-mayor, red.; BOLOGOV, N.A., dotsent, kontr-admiral v otstavke, red.; VITVER, I.A., professor, doktor geograf.nauk, red.; GRIGOR'YEV, A.A., akademik; YEGOR'YEV, V.Ye., zasluzhennyy deyatel' nauki, prof., doktor voyenno-morskikh nauk, kontr-admiral v otstavke, red.; ZIMAN, L.Ya., prof., red.; ZUBOV, N.N., prof., doktor geograf. nauk, inzh.-kontr-admiral v otstavke, red.; KAVRAYSKIY, V.V., prof., doktor fiziko-mat.nauk, inzh.-kontr-admiral v otstavke, red.; KALESNIK, S.V., prof., doktor geograf.nauk, red.; KUDRYAVTSEV, M.K., general-leytenant tekhn.voysk, red.; LAMYKIN, S.M., kapitan 1 ranga, red.; MATUSEVICH, N.N., zasluzhennyy deyatel' nauki i tekhniki, prof., doktor fiziko-mat.nauk, inzh.-vitse-admiral v otstavke, red., [deceased]; MESHCHANINOV, I.I., akademik, red.; MILENKI, S.G., red.; ORLOV, B.P., prof., doktor geograf.nauk, red.; PANTELEYEV, Yu.A., vitse-admiral, red.; SNEZHINSKIY, V.A., dotsent, kand.voyenno-morskikh nauk, inzh.-kapitan 1 ranga, red.; SALISHCHEV, K.A., prof., doktor tekhn.nauk, red.; TRIBUTS, V.F., admiral, red.; FOKIN, V.A., vitse-admiral, red.; SHVEDE, Ye.Ye., prof., doktor voyenno-morskikh nauk, kontr-admiral, red.; SHULEYKIN, V.V., akademik, inzh.-kapitan 1 ranga, red.; PAVLOV, V.V., inzh.-polkovnik, red.; VOLKOV, F.G.,

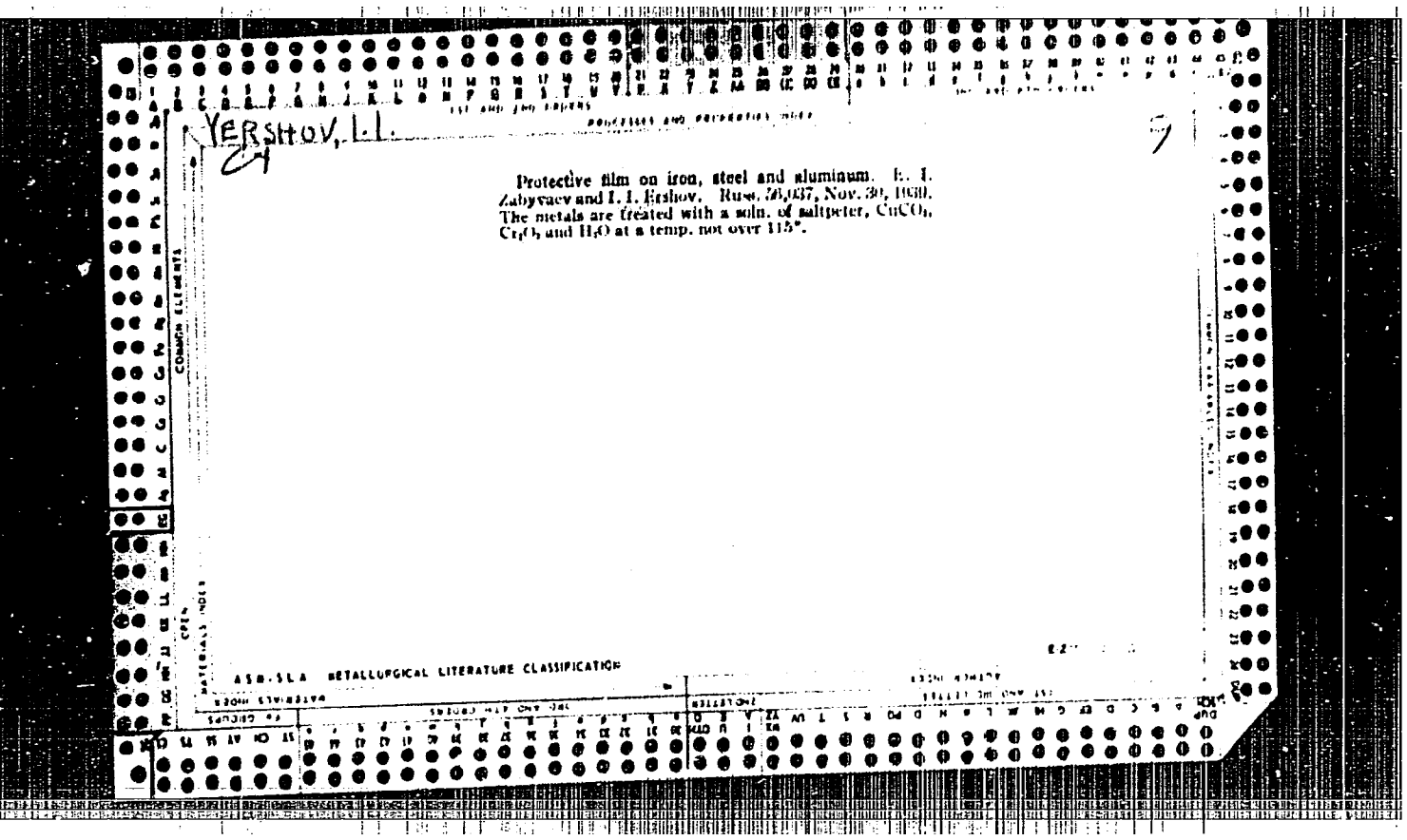
(Continued on next card)

ISAKOV, I.S.---(continued) Card 2.
podpolkovnik, pomoshchnik glavnogo red. po izd-vu; SEDOV, N.Ye., kapitan 2 ranga, uchenyy sekretar'; VOROB'YEV, V.I., kapitan 1 ranga, red.kart; MIGALKIN, G.A., inzh.-kapitan 1 ranga, red.kart; GAPONOVA, A.A., red.kart; GONCHAROVA, A.I., red.kart; GORBACHEVA, N.Ye., red.kart; GRYUNBERG, G.Yu., red.kart; DUROV, A.G., red. kart; YERSHOV, I.B., red.kart; ZIL'BERSHER, A.B., red.kart; KASTAL'SKAYA, N.I., red.kart; KUBLIKOVA, M.M., red.kart; MAKAROVA, V.N., red.kart; MOROZOVA, A.F., red.kart; PAVLOVA, Ye.A., red. kart; POCHUBUT, A.N., red.kart; ROMANOVA, G.N., red.kart; SMIRNOVA, L.V., red.kart; SMIRNOVA, L.N., red.kart; TANANKOVA, A.I., red. kart; YANEVICH, M.A., red.kart; YASINSKAYA, L.F., red.kart; VASIL'YEVA, Z.P., tekhn.red.; VIZIROVA, G.N., tekhn.red.; GOLOVANOVA, A.T., tekhn.red.; GOROKHOV, V.I., tekhn.red.; MALINKO, V.I., tekhn. red.; SVIDERSKAYA, G.V., tekhn.red.; CHERNOGOROVA, L.P., tekhn.red.; FURAYEVA, Ye.M., tekhn.red.

[Marine atlas] Morskoi atlas. Otv.red. I.S. Isakov. Glav.red. L.A. Demin. Izd. Morskogo general'nogo shtaba. Vol.1 [Navigation geography] Navigatsionno-geograficheskii. Zamestitel' otv. red. po I tomu V.A. Petrovskii. 1950. 83 maps. (MIRA 12:1)

(Continued on next card)

ISAKOV, I.S.---(continued) Card 3.
1. Russia (1923- U.S.S.R.) Voyenno-morskoye ministerstvo.
2. Nachal'nik Morskogo kartograficheskogo instituta voyenno-morskikh sil (for Lamykin). 3. Deystvitel'nyy chlen Akademii pedagogicheskikh nauk RSFSR (for Orlov). 4. Nachal'nik Gidrograficheskogo upravleniya voyenno-morskikh sil (for Tributs). 5. General'nyy gosudarstv. direktor topograficheskoy sluzhby (for Baranov). 6. Direktor topograficheskoy sluzhby (for Milenki).
(Ocean--Maps) (Harbors--Maps)



YERSHOV, I. I.

Protective film on iron, steel and aluminum. E. I. Zabyvaev and I. I. Ershov. Russ. 26,037, Nov. 30, 1931. The metals are treated with a soln. of saltpeter, $CuCO_3$, Cr_2O_3, and H_2O at a temp. not over 115°.

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

YERSHOV, I.L.

31

Adhesive I. L. Ershov and G. G. Ioseľson. U.S.S.R. 69,554, Oct. 31, 1947. Raw meat is digested in an aq. hydroxide soln. at 75-80°. After the meat dissolves, casein, cartilage glue, and colophony soap are added to the soln. M. Hosch

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

YERSHOV, I.I., kand.biol.nauk; LUKONINA, Ye.I.

Mechanization of planting common onion sets. Dokl. Akad. sel'khoz. nauk no.10:20-22 O '65. (MIRA 18:12)

1. Gribovskaya ovoshchnaya selektsionnaya stantsiya.

YERSHOV, I.I., kand. biol. nauk; ABRAKHINA, Yu.V.

Effect of growing conditions on the morphological and biological characteristics of garlic. Agrobiologiia no.1:86-93 Ja-F '65.
(MIRA 18:4)

1. Gribovskaya oboshchnaya selektsionnaya opytnaya stantsiya.

COUNTRY : USSR
CATEGORY : Cultivated Plants - Potatoes, Vegetables, Cucurbits. M

ABS. JOUR. : RZhBiol., No.14, 1958, No. 63403

AUTHOR : Usankova, Ye. I., Yershov, I. I.
INST. : -
TITLE : Experiment on Growing Perennial Multiplier Onion in Hothouses.

ORIG. PUB. : Sad i ogorod, 1957, No. 12, 24-26

ABSTRACT : A brief characteristic of a form of multiplier onion, given the name Gribovskiy, which can be grown in one place 5 years and more. In early spring, the onion produces a good yield of green leaves with a high content of vitamin C (80-90 mg/%). The aerial bulbs of the multiplier onion can be planted in hothouses to force the green tops. In January-February 1956, in the hothouse of kolkhoz imeni Voroshilov (Moscow oblast') with a temperature of 8°, a crop of green tops of 13 kg/m² was gathered 25 days after planting the aerial bulbs at the rate of 9 kg. Under identical conditions, a selection of globe onion remained in a state of

Card: 1/2

YERSHOV, I.I.; BRUMSHTEYN, V.D.

Changes in the chemical composition of perennial Egyptian onion during its growth. Biokhim.pl.i ovoshch. no.7:230-239 '62. (MIRA 16:1)

1. Gribovskaya opytno-selektsionnaya stantsiya.
(Onions) (Plants—Chemical analysis)

YERSHOV, I.L.

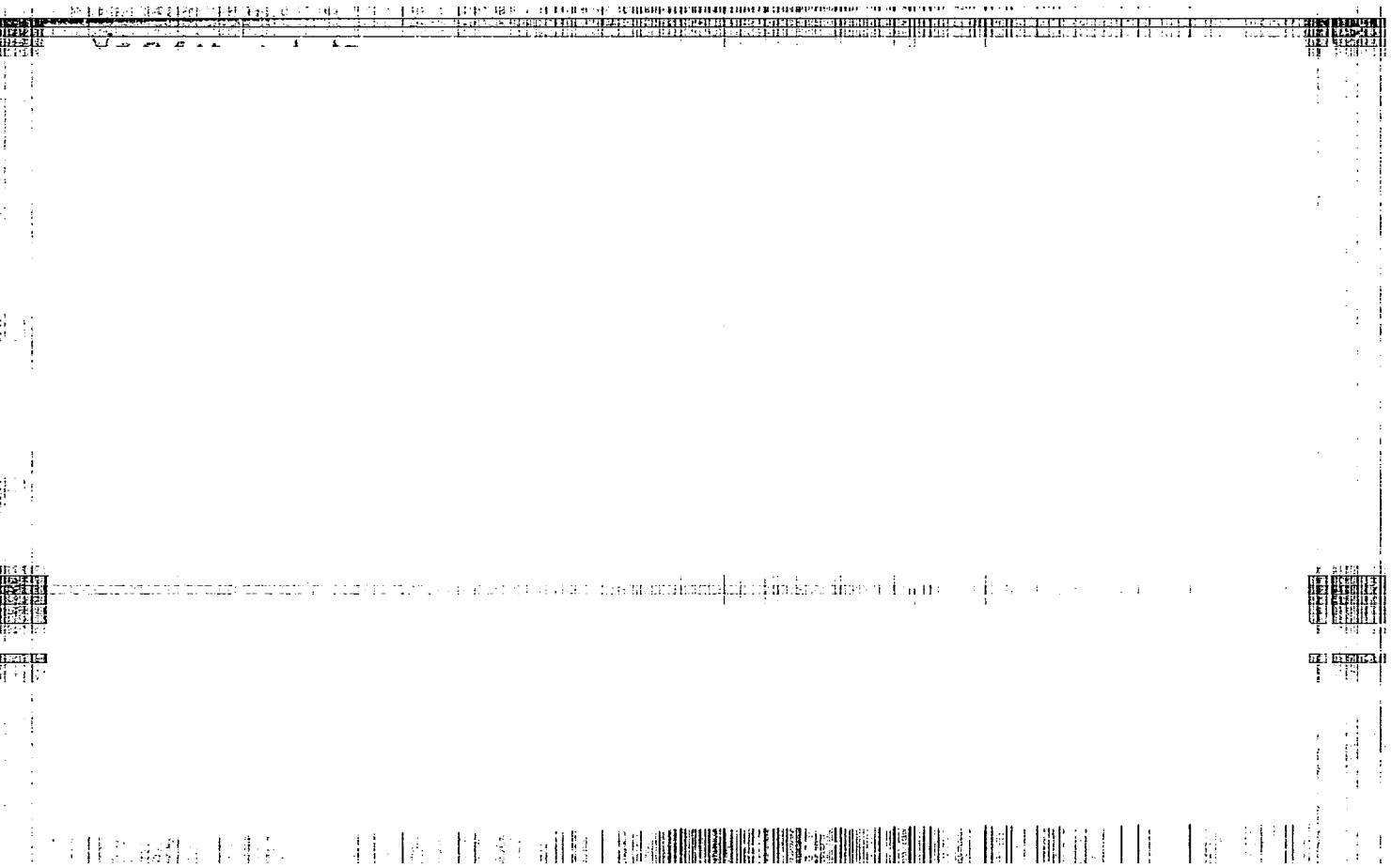
1. I. L. ERSHOV, Eng., I. YA SLOTOV, Eng.

2. USSR (600)

4. Building, Iron and Steel

7. Experiment in building nine-story apartment house with a metal framework. Gor.khoz. Mosk. 23 no. 9. 1949.

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



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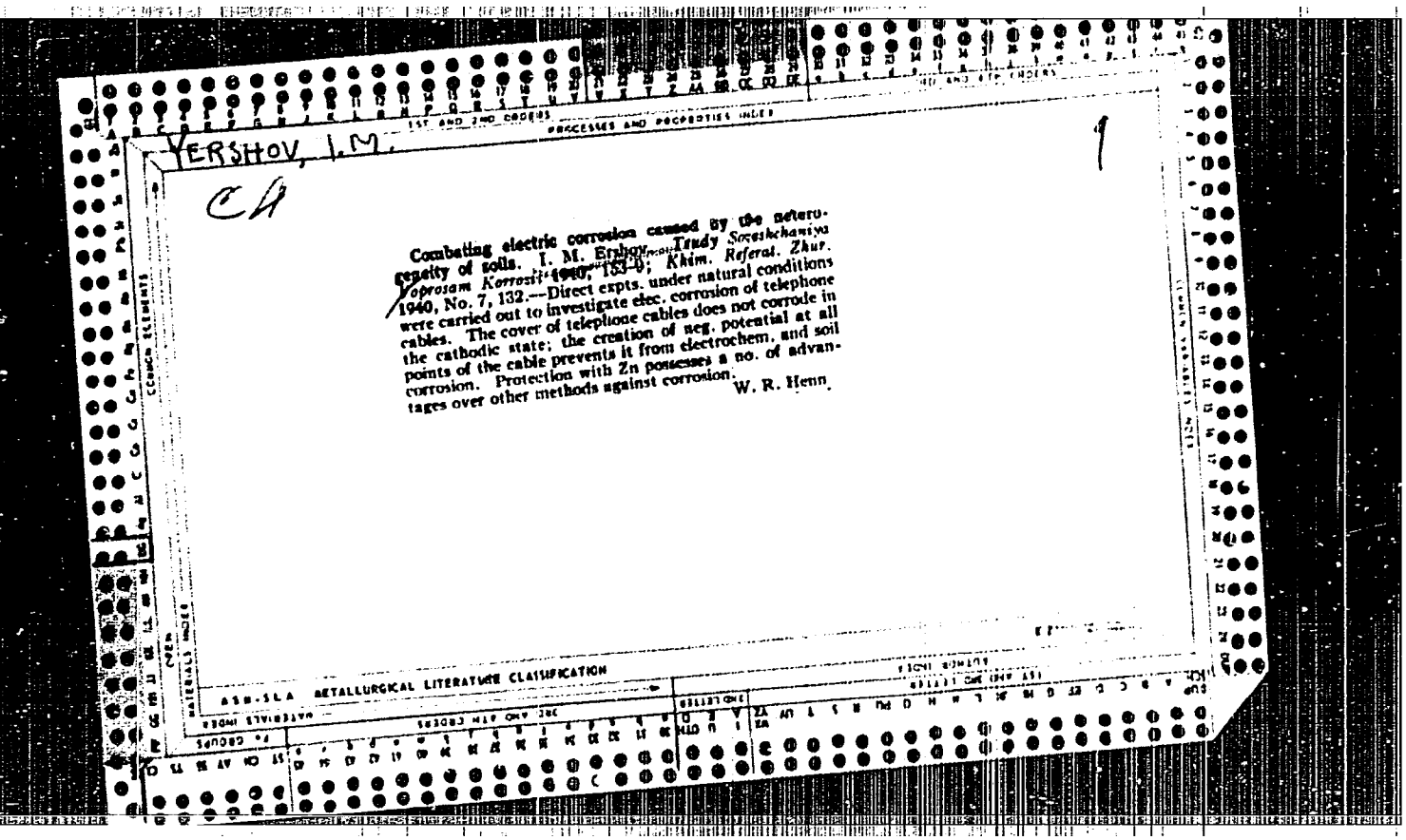
YERSHOV, I.M.

Color sedimentation reaction as an additional criterion for determining the state of health. Lab.delo 2 no.2:18-19 Mr-Ap '56. (MLRA 9:10)
(MEDICAL TESTS)
(URINE)



YERSHOV, I.M.

CA

Combatting electric corrosion caused by the heterogeneity of soils. I. M. Ershov. *Trudy Soveshchaniya Voprosam Korrozii* 1940, 153-9; *Khim. Referat. Zhur.* 1940, No. 7, 132.—Direct expts. under natural conditions were carried out to investigate elec. corrosion of telephone cables. The cover of telephone cables does not corrode in the cathodic state; the creation of neg. potential at all points of the cable prevents it from electrochem. and soil corrosion. Protection with Zn possesses a no. of advantages over other methods against corrosion.

W. R. Henn

YERSHOV, I. M.

"Industrial Prototypes of Equipment for Protecting Metal Structures From Electric Corrosion," The Works of the Scientific-Research Institute of Railroad Transportation (Trudy vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta), No 42, Transzheldorizdat, 132 pp 1951.

W-22517, 29 Apr 52

YERSHOV, I.M., inzh.

Industrial models of devices used for protecting metal structures from electrolytic corrosion. Trudy TSNII MPS no.42:111-131 '51. (MLRA 11:6)
(Electric railroads--Equipment and supplies)
(Electrolytic corrosion)

YERSHOV, I.M.

[Protection of underground cables from electrolytic corrosion] Zashita podzemnykh kabelei ot elektrokorrozii. Moskva, Gos. transp. shel-dor. izd-vo, 1953. 73 p. (MLRA 6:12)
(Electrolytic corrosion)

YERSHOV, I. M.

Yershov, I. M. -- "Investigation of Methods of Evaluating the Degree of Danger of Electrocorrosion of the Sheathing of Underground "Signalization, Centralization, and Blocking" (STsB) Cables and Connections." Cand Tech Sci, All-Union Sci Res Inst of Railroad Transport, Moscow 1953. (Referativnyy Zhurnal--Khimiya, No 1, Jan 54)

SO: SUM 168, 22 July 1954

YERSHOV, L.M.

BENESHEVICH, I.I., kandidat tekhnicheskikh nauk; BOGIN, N.N., kandidat tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kandidat tekhnicheskikh nauk; GRITSEVSKIY, M.Ye., inzhener; GEUBER, L.O., inzhener; GURVICH, V.G., inzhener; DAVYDOV, V.N., inzhener; YERSHOV, L.M., kandidat tekhnicheskikh nauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inzhener; KROPOV, L.B., inzhener; LAPIN, V.B., inzhener; LASTOVSKIY, V.P., dotsent; LATUNIN, N.I., inzhener; MARKVARDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener; OSKOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PARFENOV, K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M., inzhener; POPOV, I.P., inzhener; PORSHNEV, B.G., inzhener; RATNER, M.P., inzhener; ROSSIYEVSKIY, G.I., dotsent, kandidat tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSKIY, I.Ya., dotsent, kandidat tekhnicheskikh nauk; RYABKOV, A.Ya., professor [deceased]; TAGER, S.A., kandidat tekhnicheskikh nauk; KHAZEN, M.M., professor, doktor tekhnicheskikh nauk; CHERNYSHEV, M.A., doktor tekhnicheskikh nauk; SHIN, L.Ye., professor, doktor tekhnicheskikh nauk; YUNGNER, B.N., dotsent; AKSENOV, I.Ya., dotsent, kandidat tekhnicheskikh nauk; ARKHANGEL'SKIY, A.S., inzhener; BARTENEV, P.V., professor, doktor tekhnicheskikh nauk; BERNGARD, K.A., kandidat tekhnicheskikh nauk; BOROVOY, N.Ye., dotsent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inzhener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VINNICHENKO, N.G., dotsent, kandidat ekonomicheskikh nauk;

(Continued on next card)

BENESHEVICH, I.I.----(continued) Card 2.
VASIL'YEV, V.F.; GONCHAROV, N.G., inzhener; DERIBAS, A.T., inzhener; DOBROSEL'SKIY, Z.M., dotsent, kandidat tekhnicheskikh nauk; DLUGACH, B.A., kandidat tekhnicheskikh nauk; YEFIMOV, G.P., kandidat tekhnicheskikh nauk; ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; ZABELLO, M.L., kandidat tekhnicheskikh nauk; IL'IN, K.P., kandidat tekhnicheskikh nauk; KARETNIKOV, A.D., kandidat tekhnicheskikh nauk; KAPLUN, F.Sh., inzhener; KANSHIN, M.D.; KOCHNEV, P.P., professor, doktor tekhnicheskikh nauk; KOGAN, L.A., kandidat tekhnicheskikh nauk; KUCHURIN, S.F., inzhener; LEVASHOV, A.D., inzhener; MAKSIMOVICH, B.M., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener; MEDEL', O.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk; PADNYA, V.A., inzhener; PANTELEYEV, P.I., kandidat tekhnicheskikh nauk; PETROV, A.P., professor, doktor tekhnicheskikh nauk; POVOROZHENKO, V.V., professor, doktor tekhnicheskikh nauk; PISKAREV, I.I., dotsent, kandidat tekhnicheskikh nauk; SERGEYEV, Ye.S., kandidat tekhnicheskikh nauk; SIMONOV, K.S., kandidat tekhnicheskikh nauk; SIMANOVSKIY, M.A., inzhener; SUYAZOV, I.G., inzhener; TAIDAYEV, F.Ya., inzhener; TIKHONOV, K.K., kandidat tekhnicheskikh nauk; USHAKOV, N.Ya., inzhenr; USPENSKIY, V.K., inzhener; FEL'DMAN, E.D., kandidat tekhnicheskikh nauk; FERAPONTOV, G.V., inzhener; KHOKHLOV, L.P., inzhenr; CHERNOMORDIK, G.I., professor, doktor tekhnicheskikh nauk; SHAMAYEV, M.F., inzhener; SHAFIRKIN, B.I., inzhener; YAKUSHIN, S.I., inzhener; GRANOVSKIY, P.G., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; KLIMOV, V.F., dotsent kandidat tekhnicheskikh

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BENESHEVICH, I.I.--- (continued) Card 3.
nauk, redaktor; MARKOV, M.V., inzhener, redaktor; KALININ, V.K., inzhener, redaktor; STEPANOV, V.N., professor, redaktor; SIDOROV, N.I., inzhener, redaktor; GERONIMUS, B.Ye., kandidat tekhnicheskikh nauk, redaktor; ROBEL', R.I., otvetstvennyy redaktor

[Technical reference manual for railroad engineers] Tekhnicheskii spravochnik zheleznodorozhnika. Moskva, Gos. transp.zhel-dor. izd-vo. Vol.10. [Electric power supply for railroads] Energosnabzhenie zheleznykh dorog. Otv.red. toma K.G.Markvardt. 1956. 1080 p. Vol.13. [Operation of railroads] Eksploatatsiia zheleznykh dorog. Otv. red. toma R.I.Robel'. 1956. 739 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Petrov) (Electric railroads) (Railroads--Management)

YERSHOV, I. M. (Engr.); MEYEROVICH, I. M. (Cand. of Tech. Sciences);

"Slip-Ring Design for Measuring Torque," Rolling Mills, Studies, Calculation, Design and Operation, No. 8, Moscow, Mashgiz, 1956. 258 p.

SOV/124-58-3-3612

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p 140 (USSR)

AUTHORS: Meyerovich, I. M., Yershov, I. M.

TITLE: New Design of a Current Pickup for Torque Measurements (Novaya konstruktsiya tokos"yemnogo ustroystva pri izmerenii krutyashchikh momentov)

PERIODICAL: V sb.: Prokatn. stany. Nr 8. Moscow, Mashgiz, 1956, pp 255-257 (Trudy) TSNII TMASH, No. 83

ABSTRACT: Bibliographic entry

Card 1/1

PHASE I BOOK EXPLOITATION 1081

Yershov, I.M., Candidate of Technical Sciences

Opredeleniye opasnosti elektrokorrozii podzemnykh kabeley (Determining the Danger of Electrolytic Corrosion of Underground Cables) Moscow, Transzheldorizdat, 1957. 92 p. (Series: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta. Trudy, vyp. 131) 1,000 copies printed.

Ed.: Osipov, S.I.; Tech. Ed.: Bobrova, Ye.N.

PURPOSE: The book is intended for technicians and engineers concerned with the protection of cable against corrosion caused by stray currents.

COVERAGE: The author describes methods for determining the danger of corrosion and for calculating stray currents. He analyzes in detail all the known methods of measuring leakage current density in the cable sheath and submits a new method of approximate measurement. I.A.Ivanov, director of the All-Union Scientific & Research Institute

Card 1/3

for Railroad Transport, and A.F. Prontarskiy, head of the Electrification Department, explain in the introduction that the author has summed up the results of many years of work conducted by the Institute to systematize and improve methods of evaluating the danger of corrosion in cables of the STsB (Railroad Signaling, Centralization and Blocking System) and communications systems. The author supervised and conducted many experimental works in collaboration with V.I.Ivanov, V.I.Kartashev, A.N.Matveyev, M.K.Nazarov and A.A.Kovakin. There are 45 references, of which 40 are Soviet, 3 English, 1 German and 1 Italian.

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Determining the Danger of Electrolytic Corrosion (Cont.) 1081

AVAILABLE: Library of Congress
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Yershov, I.M.

14(5) PHASE I BOOK EXPLOITATION SOV/1882

Vsesoyuznoye soveshchaniye po korrozii i zashchite metallov. 6th, Moscow, 1956

Teoriya i praktika protivokorrozionnoy zashchity podzemnykh sooruzheniy; trudy soveshchaniya (Theory and Application of Anti-corrosion Measures of Subterranean Installations; Transactions of the 6th All-Union Conference on Corrosion and Protection of Metals) Moscow, 1958. 273 p. Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut fizicheskoy khimii. Komissiya po bor'be s korroziyey metallov.

Editorial Board: I.M. Yershov, Candidate of Technical Sciences; A.F. Lunev, Candidate of Chemical Sciences; Yu.N. Mikhaylovskiy, Candidate of Chemical Sciences, I.V. Strizhevskiy, Candidate of Technical Sciences; N.D. Tomashov, Professor, Doctor of Chemical Sciences; and P.V. Shchigolev, Candidate of Chemical

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Sciences; Resp. Ed.: N.D. Tomashov, Professor, Doctor of Chemical Sciences; Ed. of Publishing House: A.L. Bankvitser; Tech Ed.: P.S. Kashina.

PURPOSE: The book is intended for chemists, engineers, and metallurgists concerned with the problem of metal corrosion in underground installations.

COVERAGE: The book contains the papers read at the All-Union Conference of the Committee on the Control of Corrosion of the Academy of Sciences, USSR, held in May, 1956. The following scientific and technical problems discussed at the conference received particular attention: 1) theory of metal corrosion underground (N.D. Tomashov and S.I. Kuznetsov); 2) theory, calculation, and practical application of cathodic and anodic protection of underground installations (A.F. Lunev, T.M. Yershov, V.G. Kotik, V.V. Krasnoyarskiy, and A.N. Tsekun); 3) study of the anticorrosive properties and the improved technology in manufacturing and applying protective coatings to subterranean metallic installations (L. Ya. Tsikerman, V.I. Zhukov, M.D. Dzhafarov, and V.S. Artamonov); 4) prevention of stray current corrosion (I.V. Strizhevskiy, D.K. Tomlyanovich, P.G. Doroshenko, and

A.I. Gordyukhin; 5) development of methods for determining the corrosion activity of soils (Yu. N. Mikhaylovskiy, N.D. Tomashov, M.S. Trifel', and V.V. Krasnoyarskiy); 6) concrete examples of corrosion and protection of underground installations (S.G. Vedenkin and V.S. Artamonov, V.A. Pritula, and S.S. Popov). There are 161 references, 128 of which are Soviet, 30 English, and 3 German.

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Theory and Application of Anti-corrosion (Cont.) SOV/1882

Resolution of the All-Union Conference on the Theory and Practice of Protection of Underground Installations Against Corrosion

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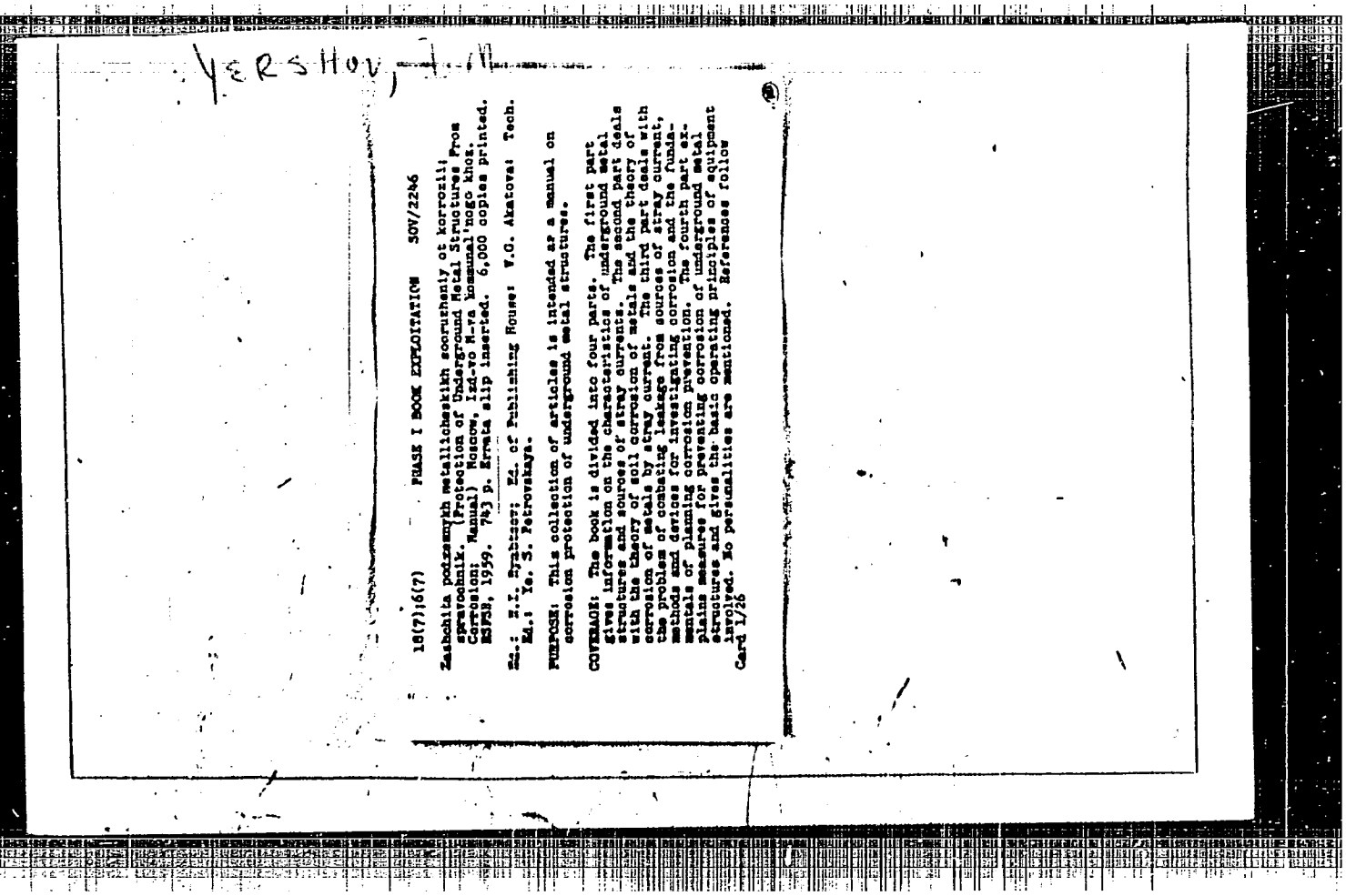

Yershov, I. M.

18(7)16(7) PHASE I BOOK EXPLOITATION SOV/2246

Zashchita podzemnykh metallicheskikh sooruzheniy ot korrozii; spravochnik. (Protection of Underground Metal Structures From Corrosion: Manual) Moscow, Izd-vo M-va kommunal'nogo khoz. Corrosion: Manual) Moscow, Izd-vo M-va kommunal'nogo khoz. RSFSR, 1959. 783 p. Errata slip inserted. 6,000 copies printed.

Ed.: N.F. Prabzer; Ed. of Publishing House: V.G. Akatova; Tech. Ed.: Ye. S. Petrovskaya.

PURPOSE: This collection of articles is intended as a manual on corrosion protection of underground metal structures.

COVERAGE: The book is divided into four parts. The first part gives information on the characteristics of underground metal structures and sources of stray currents. The second part deals with the theory of soil corrosion of metals and the theory of corrosion of metals by stray current. The third part deals with the problem of combating leakage from sources of stray current, methods and devices for investigating corrosion and the fundamentals of planning corrosion prevention. The fourth part explains measures for preventing corrosion of underground metal structures and gives the basic operating principles of equipment involved. No personalities are mentioned. References follow

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Protection of Underground Metal (Cont.)