BERSHADSKIY, F.G.; MCHEDLOV-PETROSYAN, O.P.

Exposure of dislocations in gypsum crystals by the selective etch method. Zap.Vses.min.ob-va 94 no.5:573-576 '65.
(MIRA 18:11)

1. Institut inzhenerov zheleznodorozhnogo transporta imeni S.M.Kirova, Khar'kov.

VAYNSHENKER, N.I.; BERSHADSKIY, G.A.

Experience in operating the automatic "STC-40" machine for the manufacture of SKK bottle caps. Kons.i ov.prom. 18 no.2:21-25 F '63. (MIRA 16:2)

1. Upravleniye pishchevoy promyshlennosti Odesskogo soveta narodnogo khozyaystva (for Vaynshenker). 2. Zavod upakovochnykh izdeliy imeni M.I. Kalinina (for Bershadskiy).
(Odessa—Container industry)
(Machinery, Automatic)

BERSHADSKIY, G. Yu.

USSR/ Engineering - Machine attachments

Card 1/1 Pub. 103 - 14/23

Authors : Bershadskiy, G. Yu., Zeygerman, I. Yu.

Title : Attachment for grinding of internal working surfaces of self-centered chuck cams

Periodical : Stan. i instr. 2, page 34, Feb 1954

Abstract : A simple but suitable attachment (invented by S. F. Filinovich) for the grinding of internal working surfaces of self-centered chuck cams is described. The attachment consists of a ring and three horseshoe-shaped shackles hinge-fastened to the ring. The practical application of the attachment is described. Illustrations.

Institution : .....

Submitted : .....

BEGSHADSKIY, G.Yu.; LOSHKIN, L.M.

VZM-4 vacuum-seamer machine. Kons. i ov. prom. 13 no.2:10-13 F '58.
(MIRA 11:2)

1. Spetsial'noye konstruktorskoye byuro Ukrainskogo nauchno-issledovatel'skogo instituta konservnoy promyshlennosti.
(Canning industry—Equipment and supplies)

BERSHADSKIY, G.Yu.; LOSHKIN, L.M.

Calculating forces occurring during the rolling of tin cans.
Kons. i ov. prom. 13 no.6:18-24 Je '58. (MIRA 11:5)

1.Spetsial'noye konstruktorskoye byuro Ukrainskogo nauchno-issledovatel'skogo instituta konservnoy promyshlennosti.
(Containers) (Canning industry)

ANDREYEV, S.G.; BERSHADSKIY, G.Yu.

Mechanized method for pressing rubber rings into SKO lids.
Kons. i ov. prom. 13 no.8:17-20 Ag '58. (MIRA 11:9)

1. Spetsial'noye konstruktorskoye byuro Ukrainskogo nauchno-issledovatel'skogo instituta konservnoy promyshlennosti.
(Canning industry--Equipment and supplies)

MEL'NICHENKO, Ye.L.; BERSHADSKIY, G.Yu.; ZHVALEVSKIY, A.S.

New method for the sealing of glass containers. Kons. i ov. prom. 18 no.12:18-20 D '63. (MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti.

NEPOROZHNIY, P.S.; SAVINYKH, A.P.; SAPOZHNIKOV, F.V.; SERDYUKOV, N.P.; ACHKASOV, D.I.; BURGSDORF, V.V.; NEMOV, N.P.; SYROMYATNIKOV, I.A.; KNYAZEVSKIY, B.A.; ROKOTYAN, S.S.; STEKLOV, V.Yu.; FEDOSEYEV, A.M.; GRUDINSKIY, P.S.; KHOMYAKOV, M.V.; VENIKOV, V.A.; CHERNOBROVOV, N.V.; MEL'NIKOV, N.A.; BERSHADSKIY, I.S.

Aleksandr Dmitrievich Romanov, 1905; on his 60th birthday. Elek. sta. 36 no.11:94 N '65. (MIRA 18:10)

BERSHADSKIY, L. S.

23230. YeShche raz o rabotakh vniitp v oblasti mekhanizatsii bolotno-podgotovitel'nykh rabot. Torf. Prom - St', 1949, NO. 7, c. 18-19

SO: LETOPIS' NO. 31, 1949

BERSHADSKIY, L. S.

BERSHADSKIY, L.S., inzhener.

Special attention to the housing and construction of community buildings. Torf. prom. 34 no.4:3-6 '57. (MLRA 10:6)

1. Glavnoye upravleniye torfyanoy promyshlennosti.
(Construction industry) (Peat industry)

ALEKSEYEV, Ye.T.; APENCHENKO, S.S.; BASOV, A.P.; BAUSIN, A.F.; BERSHADSKIY, L.S.; VELLER, M.A.; GINZBURG, L.N.; GUSEV, S.A.; DANILOV, G.V.; DOLGIKH, M.S.; DRUZHININ, N.N.; YEFIMOV, V.S.; ZAVADSKIY, N.V.; IVASHECHKIN, N.V.; KARAKIN, F.F.; KUZHMAN, G.I.; LOBANOV, S.P.; MERKULOV, Ya.V.; NIKODIMOV, P.I.; PANKRATOV, N.S.; PYATAKOV, L.V.; RODICHEV, A.F.; SMIRNOV, M.S.; STRUKOV, B.I.; SAVOCHKIN, S.M.; SAMSONOV, N.N.; SINITSYN, N.A.; SOKOLOV, A.A.; SOLOPOV, S.G.; CHELYSHEV, S.G.; SHCHEPKIN, A.Ye.

Fedor Nikolaevich Krylov; obituary. Torf. prom. 35 no.6:32 '58.
(MIRA 11:10)

(Krylov, Fedor Nikolaevich, 1903-1958)

BERSHADSKIY, L.S., insh.

Design and operation of new peat machines. Torf.prom. 36 no.2: 22-25 '59. (MIRA 12:4)
(Peat machinery)

BATURIN, Vasiliy Iosifovich, prof., doktor tekhn.nauk; BERSHADSKIY, Leonid Samoylovich, insh.. Prinimal uchastiye SHENFIL', M.B.. VARENTSOV, V.S., red.; BORUNOV, N.I., tekhn.red.

[Organization and planning of the construction of peat enterprises] Organizatsiia i planirovanie stroitel'stva torfopredpriiatii. Moskva, Gos.energ.izd-vo, 1959. 303 p. (MIRA 13:3)
(Peat industry)

BELOKOPYTOV, I.Ye.; BERESNOVICH, V.V.; BERSHADSKIY, L.S.; VEYTS, L.F.; ZHUKOV, A.G.; IVASHECHKIN, N.V.; KUZHMAN, G.I.; LASHNEV, I.A.; MURASHOV, F.G.; NIKODIMOV, P.I.; PYATAKOV, L.V.; SAMSONOV, N.N.; SEMENSKIY, Ye.P.; SINITSYN, N.A.; SOLOPOV, S.G.; STRUKOV, B.I.; STEBIKHOV, M.I.; TSUPROV, S.A.; CHERNOV, A.A.; CHULYUKOV, M.A.

Ivan Aleksandrovich Monakin. Torf. prom. 37 no. 3:37 '60.
(MIRA 14:1)

(Monakin, Ivan Aleksandrovich, 1908-1960)

BERSH[illegible]SKIY, M. L. PA 54/49T59

USSR/Engineering Dec 48
Turbines
Electric Power Plants

"Device for Cutting Off the Turbine During a Displacement of the Rotor Axis," M. L. Bershadskiy, M. A. Sluchayev, Engineers, 1 p

"Elek Stants" No 12

Describes device which can be installed to prevent damage to turbine when its rotor axis deviates from normal. Device is now incorporated in new turbines but, due to the many AEG turbines in use in USSR, authors believe details would prove useful to many power stations.

54/49T59

BERSHADSKIY, M. L. i SLUCHAEV, M. A.

26345 Defekty v rabote radial'ny turbin. (Po materialam okb). Zlektr. Stantsii, 1949, No. 8, s. 60-62.

SO: LETOPIS' NO. 35, 1949

BERSHADSKIĬ, M. L. and M. A. SLUCHAEV.

Radial'nye turbiny.

Moskva, Gosenergoizdat, 1950. 65 p. diagrs.

(Radial turbines.)

DLC: TJ735.B45

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

BERSHADSKIY, M. L.

Radial turbines Moskva, Gos. energ. izd-vo, 1950. 65 p. (51-34490)

TJ735.B45

BERSHADSKIY, M. L.

USSR/Engineering - Speed Regulators
Steam Turbines

Sep 50

"Adjusting the Operation of Hydrodynamic Regulators in Steam Turbines," M. L. Bershadskiy

"Energet Byull" No 9, pp 24-26

Describes recent steam turbines with hydrodynamic speed regulators instead of conventional centrifugal controls. Lists possible troubles in hydrodynamic type: filter contamination, badly fitting regulator drive gear, unequal engagement or wear of gear wheel seated on booster sliding valve, etc.

171T61

SHLYAKHIN, Pavel Nikolayevich; BERSHADSKIY, Mikhail Leonidovich; KURITS, S.Ya., red.; BORUNOV, N.I., tekhn. red.

[Brief manual on steam-turbine systems] Kratkii spravochnik po paroturbinnym ustanovkam. Moskva, Gos. energ. izd-vo, 1961. 127 p. (MIRA 15:2)

(Steam turbines)

BERSHADSKIY, P.I. (Leningrad).

Methods of repairing the improved fuel pump of the TE3 diesel locomotive. Elek. i tepl. tiaga 2 no.3:24-25 Mr '58. (MIRA 11:4)

1. Inspektor-priyemshchik TSentral'nogo upravleniya tyagi Ministerstva putey soobshcheniya.
(Diesel locomotives--Maintenance and repair) (Fuel pumps)

KALMYKOV, A.M. (Leningrad); BERSHADSKIY, P.L. (Leningrad)

M751 diesel locomotive engine. Elek. i tepl. tiaga 3 no.4:9-12 Ap '59. (MIRA 12:7)

1.Starshiy inspektor TSentral'nogo upravleniya tyagi Ministerstva putey soobshcheniya (for Kalmykov). 2.Inspektor TSentral'nogo upravleniya tyagi Ministerstva putey soobshcheniya (for Bershadskiy).
(Diesel locomotives)

KALMYKOV, Aleksandr Mikhaylovich, inzh.; HERSHADSKIY, Petr Iosifovich, inzh.; VOLODIN, A.I., kand. tekhn. nauk, red.; MEDVEDEVA, M.A., tekhn. red.

[Design and operation of M751 and M753 diesel engines for locomotives] Ustroistvo teplovoznykh dizelei M751 i M753. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 58 p. (MIRA 14:8)

(Diesel locomotives)

BERSHADSKIY, R.
25529

Tashkala. Neftyanye Promysly. Grozn. Obl. Ocherk. Znamya, 1948, No. 7, s. 139-47

SO: LETOPISNO. 30, 1948

1. BERSHADSKIY, R.

2. USSR (600)

4. Kublitskiy, Georgii

7. "Great Volga." G. Kublitskiy. Reviewed by R. Bershadskiy. Vokrug sveta no. 12. 1952.

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

1. BERSHADSKIY, Rud.
2. USSR 600
4. Novgorod - Excavations (Archaeology)
7. New facts about early Novgorod, Vokrug sveta, No. 1, 1953.

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

AUTHOR: Bershadskiy, Rud. SOV-4-58-8-9/25

TITLE: As Precious as Gold and Even More (Na ves zolota i yeshche dorozhe)

PERIODICAL: Znaniye-sila, 1958, Nr 8, pp 8-9 (USSR)

ABSTRACT: The author, a philatelist himself, recommends stamp collecting, which he claims to be a valuable and educational hobby, except when the stamp collectors are kings or wealthy people. There are 5 drawings.

1. Philately--USSR

Card 1/1

BERSHADSKIY, Rud.

Underwater archaeology? Znan.sila 35 no.6:9-12 Je '60.
(MIRA 13:7)

(Archaeology)

BERSHADSKIY, Rudol'f Yul'yevich; IVANOVA, M.V., red.; SOKOLOVA, R.Ya., tekhn. red.

[Two steps from the equator]V dvukh shagakh ot ekvatora. Moskva, Sovetskii pisatel', 1962. 121 p. (MIRA 15:9)
(Vietnam—Description and travel)

KOLYVKO, Vadim Mikhaylovich; HERSHADSKIY, S.A., inzh., retsenzent; KNYAZEV, N.N., inzh., retsenzent; VORONOV, I.P., nauchnyy red.; POLYAKOV, I.I., red.; ERASTOVA, N.V., tekhn.red.

[Testing of free piston gas generators] Ispytaniia svobodno-porshnevykh generatorov gaza. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1961. 206 p. (MIRA 15:3)
(Gas producers--Testing)

BERSHADSKIY, S.A., inzh.; ZAYTSEV, D.A., inzh.; ZHEVELYUK, E.M., inzh.

Temperature conditions of the cylinder--piston group of a free-piston diesel compressor. Energomashinostroenie 11 no.5:10-13 My '65. (MIRA 18:6)

TITLE: A high pressure gauge for compressors

BERSHADSKIY, S.A.

Investigating vibrations of a piston compressor in a wide frequency range. Trudy LPI no.249:52-63 '65. (MIRA 18:9)

8(3) SOV/105-59-10-10/25

AUTHORS: Bershadskiy, V. L., Kalashnikov, V. K., Kryazhevskiy, V. V., Popov, G. A. (Moscow)

TITLE: The Electric Drive of the Screws of the Atomic Ice-breaker "Lenin"

PERIODICAL: Elektrichestvo, 1959, Nr 10, pp 50-56 (USSR)

ABSTRACT: The atomic ice-breaker "Lenin" is equipped with a nuclear fuel-driven power system. Steam turbines serve as prime mover. Power is electrically transmitted from the turbines to the screws. The ice-breaker has a water displacement of 16,000 t, three screws, an over-all length of 134 m, a beam of 27.6 m, a turbine power of 44,000 hp, a top speed of 18 knots; the number of revolutions of the middle screw is 195 rpm at top speed, that of the outside screws is 215 rpm (Ref 1). The screws are driven with direct current according to the motor-generator system. The three electric screw motors are fed by four turbogenerator units of constant number of revolutions. A voltage of 1,200 v, unprecedented in shipbuilding, is used for the screws. The electric motor of the middle screw has two armatures with 9,800 hp each. The electric motors of the outside screws have two armatures with 4.900 hp each.

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APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205020015-6"

Further, they are artificially ventilated and equipped with an air cooler. The generators have two armatures with 1,920 kw and 600 v each, 595 rpm, self-ventilation, and an air cooler. Each turbine is connected with two generators through a gear. The two middle armatures of one generator are connected in parallel. The electric motor of the screw is fed by this latter generator, and the electric motors of the outside screws are fed by the armatures of the second generators of the turbine unit. Hence, each turbine unit feeds simultaneously the three electric motors of the screws (Fig 1). Figure 2 shows and describes the circuit diagram of the main circuit of the middle electric motor. The armatures of a screw motor together with their generators form two independent circuits. The control is described, and figure 4 shows that of the medium electric motor. The rated constants of the main machines are chosen for the most difficult mode of operation, i.e. that in mooring in which the ship is immobile with respect to the water (Curve 3 on Fig 3). The screws are operated by remote control. Due to the fact that the rotary amplifiers serve as exciters, the control devices could be made of mag-slips.

Thus, the design was simplified and the control devices became much more reliable. Figure 5 shows such a control device. There are 6 figures, 1 table, and 2 Soviet references.

SUBMITTED: May 30, 1959

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205020015-6"

BERSHADSKIY, V.L.

Vsesoyuznoye ob"yedinennoye soveshchaniye po avtomatizatsii proizvodstvennykh protsessov v mashinostroyenii i avtomatizirovannomu elektroprivodu v promyshlennosti. 3d, Moscow, 1959

Elektroprivod i avtomatizatsiya promyshlennykh ustanovok; trudy soveshchaniya (Electric Drive and Automation in Industrial Systems; Transactions of the Conference) Moscow, Gosenergoizdat, 1960. 470 p. 11,000 copies printed.

General Eds.: I.I. Petrov, A.A. Sirotin, and M.G. Chilikin; Eds.: I.I. Sud, and E.F. Silayev; Tech. Eds.: K.P. Voronin, and G.Ye. Larionov.

PURPOSE: The collection of reports is intended for the scientific and technical personnel of scientific research institutes, plants and schools of higher education.

COVERAGE: The book is a collection of reports submitted by scientific workers at plants, scientific institutes and schools of higher education at the third Joint All-Union Conference on the Automation of Industrial Processes in Machine Building and Automated Electric Drives in Industry held in Moscow on May 12-16, 1959. The Conference was called by the Academy of Sciences USSR, the Gosplan SSSR (State Planning Commission USSR), the GNTK SSSR, the Gosudarstvennyy Komitet po avtomatizatsii i mashinostroyeniyu (State Committee on Automation and Machine Building) and the Natsional'nyy Komitet SSSR po avtomaticheskomu upravleniyu (USSR National Committee on Automatic Controls) and prepared by the Nauchno-tekhnicheskiy komitet po avtomatizirovannomu elektroprivodu (Scientific and Technical Committee on Automated Electric Drives), the MEI (Moscow Institute of Energetics), the VNIIEM, the IAT (Institute of Automation and Telemechanics) of the Academy of Sciences USSR, and the Komissiya po tekhnologii mashinostroyeniya Instituta mashinovedeniya AN SSSR (Commission on the Technology of Machine Building of the Institute of Science of Machines of the Academy of Sciences USSR). It was the purpose of the Editorial Board to arrange the reports in a way which would ensure a relatively systematic presentation of theoretical and practical problems relating to electric drives and automatic controls of industrial mechanisms used in various branches of industry. Basic problems of automated electric drive and their solution are outlined. The book also contains articles on electric machinery and means of automation. Considerable attention is paid to noncontact automatic control systems, including systems with semiconductor devices and magnetic amplifiers, and to computers intended both for the analysis and the synthesis of linear and nonlinear automatic regulation and control systems. Reports already published in journals or official publications have been considerably abbreviated; those which have appeared in volume V of NII EP transactions or in the journal "Elektrichestvo" are marked with an asterisk. No personalities are mentioned. References accompany some of the papers.

PART I. GENERAL PROBLEMS CONCERNING THE THEORY AND PRACTICE OF ELECTRIC DRIVE AND AUTOMATION OF CONTROL

PART III. ELECTRIC DRIVES FOR MECHANISMS OF VARIOUS BRANCHES OF INDUSTRY

25

S/569/61/005/000/002/002
D201/D302

AUTHORS: Bershadskiy, V.L., Kalashnikov, V.K., Kryazhevskiy, V.V., Maziya, L.V. and Popov, G.A. (USSR)

TITLE: Automatic electric propeller drive of the atomic ice-breaker "Lenin"

SOURCE: International Federation of Automatic Control. 1st Congress, Moscow, 1960. Avtomatizatsiya proizvodstvennykh protsessov; mashinostroyeniye, elektroenergetika, elektroprivod, transport. Moscow, Izd-vo AN SSSR, 1961. (Its: Trudy (v.5)), 301-315

TEXT: The authors describe the electric propulsion system of the ice-breaker "Lenin", give the static characteristic of the propeller drive and the graphs of transients as obtained from the system evaluation on an analogue computer and obtained from the performance of the actual installed system. The "Lenin" has steam turbines as the primary motors. These operate a d.c. generator and final d.c. motor drives. The

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Automatic electric ...

following are the characteristics of the ship: displacement - 16,000 tons; maximum length - 134 m; maximum width - 27.6 m; turbine power - 44,000 H.P.; maximum speed - 18 knots; number of propellers - 3; revolutions at maximum ship speed - 195 r.p.m. for the center and 215 r.p.m. for the side propellers; period of autonomy - 1 year. The electric drive system feeds the three propeller d.c. motors from four turbo-generator aggregates, operating at constant speed. The total turbo-generator power is divided between the propeller shafts in the ratio 1 : 2 : 1, so that the center propeller, least exposed to damage, absorbs half the total system power. The drive uses 1200 v.d.c. The propeller motors are of a twin-armature type, 9800 H.P. per armature of the center propeller and 4900 H.P. per armature of the side shafts motors. The excitation generators, also of a twin-armature type have a power of 1920 kw per armature, at the armature voltage of 600 v and 595 r.p.m. Each turbo-generator feeds simultaneously three propeller shaft motors. The center propeller can be driven even when only one turbine is in operation. The armatures of each propeller shaft motor form, together with their

Automatic electric ...

generators, two independent circuits. The nominal parameters of main machines are chosen for the heaviest of the ship drive situations, i.e. when the ship is stationary with respect to water. The control system was chosen from the point of view of limiting the reverse power generated in braking. This has been achieved by a voltage feedback in the control generator winding. In analyzing the system on an analogue computer it was found that without the feedback stabilizing networks the system becomes unstable at an oscillating frequency of about 1c/s. The feedbacks required were found to be variable voltage feedbacks in the amplidyne of the generator exciter and motors together with a variable main current feedback. The time of transient with ship not moving is 10 sec., when reversing - 27 sec. and when reversing in free water - 35 sec. The switching in the main, excitation and control circuits is by means of selective generator switches. Each propeller has 4 selective switches, each having 3 main contacts at 6400 amp., for the center and at 3200 amp for the side propellers. Remote control of the propulsion system is used. In discussion, questions were put by G.A. Popov; I.P. Freydzon (USSR) rounded up the discussion. There are 7 figures, 1 table and 3 Soviet-bloc references.

Card 3/3

BERSHAK, P., inzh.

Possibilities for economizing on electricity at grain-milling enterprises. Muk-elev.prom. 26 no.2:10-11 F '60. (MIRA 13:6)

(Grain-milling machinery)

BERSHAK, V.I.; CHIZHIKOV, D.M.

Studying the specific electric conductivity of slags of the system $FeO - CaO - SiO_2 - Al_2O_3$. Sbor. nauch. trud GINTSVETMET no.15:17-33 '59. (MIRA 14:4)

(Slag--Electric properties)
(Electric conductivity)

BERSHAK, V.I.

Studying the heat absorption of slags by means of quantitative thermal analysis. Sbor. nauch. trud. GINTSVETMET no.15:34-52 '59. (MIRA 14:4)
(Slag--Thermal properties)
(Thermal analysis)

BERSHAK, V. I., Cand. Tech. Sci. (diss) "Influence of Alumina and Oxides of Zinc on Electric Conductivity and Heat Content of Slags of Electric Smelting of Semi-metallic Materials," Moscow, 1961, 13 pp (Instit. of Non-Ferrous Metals) (KL Supp 12-61, 263).

MAK, S.L.; TULENKOV, F.K.; SHTEYNBERG, L.B.; BERSHAK, V.I.; SERGEYEV, S. I.; GUDIMENKO, A.I.; DAVYDOV, A.M.

Exchange of experience. Zav.lab. 28 no.1:114-115 '62. (MIRA 15:2)

1. Odesskiy politekhnicheskiy institut i Odesskiy zavod stal'nykh kanatov (for Mak, Tulenkov, Shteynberg). 2. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh metallov (for Bershak, Gudimenko, Davydov).
(Testing machines)

S/032/62/028/001/016/017
B116/B108

AUTHORS: Bershak, V. I., Gudimenko, A. I., Davydov, A. M.

TITLE: Molybdenum disilicide heaters for high-temperature laboratory furnaces

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 1, 1962, 115

TEXT: The new molybdenum disilicide heaters described here can be used at higher temperatures (characteristic temperature 1700°C) and have a much longer service life than silicon carbide heaters. Of the various heating elements that were tested, the one shown in the accompanying figure is recommended for laboratory furnaces (both for crucible and tubular furnaces). It has the following advantage over conventional heating elements: The bus bars and the cooling system of the contacts are mounted on the side surface of the furnace, which is particularly convenient if the distance between the furnace lid and the maximum-temperature zone is to be as small as possible. The heating element presented here was developed according to the authors' design at the Kombinat tverdykh splavov (Combine of Hard Alloys) in Moscow. With four

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Molybdenum disilicide heaters...

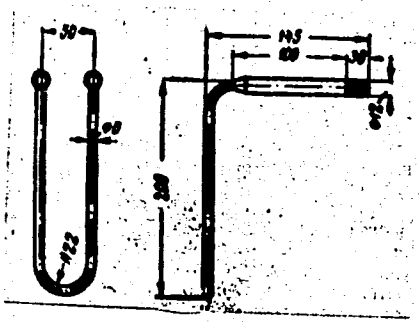
such elements connected in parallel, the amperage is 1200 a, and the voltage (at 1600°C in the center of the furnace) is 14 v. The furnace is fed by a 220-v mains supply using AOCH-10/0.5 (AOSK-10/0.5) autotransformers. A furnace with molybdenum disilicide heating elements has been in operation at the Gintsvetmet for one and a half years, and no replacement of the heating elements has yet been necessary. Compared with furnaces equipped with molybdenum or tungsten heating elements, this type is more simply designed and operates in any atmosphere except one saturated with SO_2 vapor. [Abstracter's note: Essentially complete translation.] There is 1 figure.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh metallov (State Scientific Research Institute of Nonferrous Metals)

Fig. Molybdenum disilicide heating element.
Dimensions in mm.

Molybdenum disilicide heaters...

S/032/62/028/001/016/017
B116/B108



Card 3/3

VELETSKIY, I.N., inzh.; VOYEVODIN, A.V., kand.sel'skokhoz.nauk; BESHANOV, A.V., aspirant

New method of using herbicides. Zashch. rast. ot vred. i bol. 5 no.4:19-20 Ap '60. (MIRA 13:9)
(Herbicides)

VAYNSHTEYN, B.I., kand. med. nauk (Krasnovodsk); BERSHCHANSKIY, M.L. (Krasnovodsk)

Comparative evaluation of the course of penetrating corneal wounds in nonirradiated and X-irradiated rabbits receiving bicillin treatment; clinical morphological study. Vest. oft. 76 no.3:45-52 My-Je '63. (MIRA 17:2)

HERSHCHANSKIY, Yu. I.

Modernization of the ceiling projector PI-45-1. Meteor.i gidrol. no.10:35-36 O '57. (MIRA 10:11)
(Meteorological instruments)

SOV/50-59-7-10/20

3(7)
AUTHOR: Bershchanskiy, Yu. I.

TITLE: Scientific Research Work at the AMSG L'vov (Nauchno-issledovatel'skaya rabota na AMSG L'vov)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 7, pp 38 - 40 (USSR)

ABSTRACT: The geographic position of the airport of L'vov with intersected terrain relief over which the airlines lie, the immediate vicinity of the Carpathians, the absence of a storm ring in the west and northwest - all these facts represent difficult tasks for the synopticians of the AMSG. A short survey of the work done in this respect is given here. Aeroclimatic descriptions of the airport of L'vov and the airlines were primarily written. D. N. Tkachenko wrote on "Aerosynoptic Conditions for the Formation of Fog and Low Clouds in the Area of the Airport of L'vov". I. I. Kotel'nikova investigated in 1955 the aerosynoptic conditions for the formation of thunderstorms in the area of the airport of L'vov. The provisional instruction for the forecast of thunderstorms and downpours written by N. S. Shishkin had not yet been published then. The use of this method by Shishkin showed later on that it offers a correct downpour and thunderstorm forecast for these

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areas in 60-70% of the cases. The execution of this work is described. N. P. Chepelevskaya investigated the aerosynoptic and meteorological conditions for the icing of airplanes. Kh. B. Akkerman found the connection between the origin of night frosts and the microrelief of the terrain, the temperature and moisture course, the wind direction and velocity, as well as the synoptic processes. An evaluation of all cases of radiation fog was carried out by the method suggested by Lavrishchev, Chief of the AMSG. L. N. Ingster and V. I. Vovchenko are at present investigating the influence of foehn phenomena connected with the vicinity of the Carpathians on the course and evolution of synoptic processes and on the weather conditions in the area of L'vov.

KLYUZKO, S.D.; KISHKO, Ya.G.; BERSHCHANSKIY, Ya.I.

Bacterial aeroplankton of the upper atmospheric strata in the winter. Vrach.delo no.1:75-76 '60. (MIRA 13:6)

1. L'vovskiy institut epidemiologii, mikrobiologii i gigiyeny i L'vovskaya meteorologicheskaya stantsiya.
(LVOV--AIR--BACTERIOLOGY)

BERSHKDA, F.V., inzhener; RUDYAKOV, G.Ya., inzhener.

New methods for producing precast span elements made of prestressed reinforced concrete. Avt. dor. 20 no.5:16-17 My '57. (MLRA 10:8)
(Prestressed concrete)

BERSHEDA, Fedor Vasil'yevich; RUDYAKOV, Grigoriy Yakovlevich; FEL'DMAN, Mikhail Borisovich; SMIRNOVA, L.S., red.; DONSKAYA, G.D., tekhn.red.

[Construction of a large reinforced-concrete bridge] Stroitel'stvo bol'shogo zhelezobetonnogo mosta. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1960. 55 p. (MIRA 14:2)
(Bridges, Concrete)

PHASE I BOOK EXPLOITATION SOV/5147

Bersheda, Fedor Vasil'yevich, Grigoriy Yakovlevich Rudyakov, and Mikhail Borisovich Fel'dman

Stroitel'stvo bol'shogo zhelezobetonnogo mosta (Construction of a Large Reinforced-Concrete Bridge) Moscow, Avtotransizdat, 1960. 56 p. (Series: Obmen tekhnicheskim opytom dorozhnykh khozyaystv). 1,300 copies printed.

Ed.: L. S. Smirnova; Tech. Ed.: G. D. Donskaya.

PURPOSE: This booklet is intended for civil engineering and technical personnel.

COVERAGE: The authors describe the construction of a 924-meter-long automobile bridge over a navigable river. The preparation and assembly of sectional reinforced-concrete bridge members in the construction yard, overall mechanization of concreting, assembly, erection operations, and selection of proper techniques are examined. Certain phases of the construction are discussed in detail and some relevant numerical data and specifications are given. The authors thank S. V. Surkov and V. I. Zheleznyakov, Engineers. There are no references.

Card 1/2

BERSHEV, Ye.N., assistent

Effect of atmospheric changes on the technological process of spinning. Tekst.prom. 22 no.4:38-40 Ap '62. (MIRA 15:6)

1. Kafedra fiziki Leningradskogo tekstil'nogo instituta imeni S.M.Kirova.

(Spinning)

ANDRASOV, Viktor Fedorovich; BERSHEV, Yevgeniy Nikitich; POLONIK, P.A., retsenzent; DUKHOVNYY, F.N., red.

[Electrostatic nap coating of fabrics] Elektrostaticheskoe vorsovanie. Moskva, Legkaia industriia, 1965. 62 p. (MIRA 18:3)

BERSHEV, Ya.N., aspirant

Calculating the magnitude of the charges and forces acting upon the nap during its application on the fabric by the electrostatic method. Tekst. prom. 25 no.3:75-77 Mr '65. (MIRA 18:5)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti imeni S.M. Kirova.

BERSHEVITS, A.I.

Ways of increasing the useful life of retorts. Khim.volok no.6:69-71 '63. (MIRA 17:1)

1. Ryazanskiy zavod iskusstvennogo volokna.

BERSHIDSKIY, A.

Important means for consolidating business accounting in construction. Vop. ekon. no.2:36-44 F '60. (MIRA 13:1)
(Construction industry--Finance)

BARSHIDSKY, A. Kh. Cand Tech Sci

Dissertation: "Loftless Roofs in Respect to Moisture Conditions)Theoretical and Experimental Investigation)"

28/3/50

Central Sci Res Inst of Industrial Structures- "TsNIPS."

SO Vecheryaya Moskva Sum 71

BERSHIDSKIY, A.Kh., kandidat tekhnicheskikh nauk

New standards for additional expenditures in conducting building under cold weather conditions. Biul.strpi.tekh.13 no.11:27-28 N'56. (MLRA 10:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po organizatsii i mekhanizatsii stroitel'stva.

(Building.--Cold weather conditions)
(Construction industry--Costs)

BERSHIDSKIY, A.Kh., kandidat tekhnicheskikh nauk.

Standardizing additional expenditures in construction work performed under cold weather conditions. Stroi. prom. 34 no.9:38-41 S '56. (MLRA 9:10)

(Construction industry--Costs)
(Building--Cold weather conditions)

BERSHIDSKIY, A. KH.

NEBOL'SIN, Ivan Stepanovich, kand.tekhn.nauk; BERSHIDSKIY, A.Kh., kand. tekhn.nauk, nauchnyy red.; BEGAK, B.A., red.; NAGISHKINA, T.M., tekhn.red.

[Technical and economic accounting of production and engineering basis of construction] Tekhniko-ekonomicheskii raschet proizvodstvennoi i tekhnicheskoi bazy stroitel'stva. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957. 93 p. (MIRA 11:1)
(Construction industry--Accounting)

BERSHIDSKIY, A.Kh., kand.tekhn.nauk, red.; PEVZNER, A.S., red.izd-va; GUSEVA, S.S., tekhn.red.

[Consolidated estimate norms for buildings and structures] Ukrupnennye smetnye normy na zdaniia i sooruzheniia. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit. No.1. [One-story industrial buildings] Odnoetazhnye promyshlennye zdaniia. 1957. 127 p. (MIRA 11:5)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.
(Building--Estimates)

BERSHIDSKIY, A.Kh., kand.tekhn.nauk, red.; PETROVA, V.V., red.izd-va; [illegible], T.A., tekhn.red.; BOROVNEV, N.K., tekhn.red.

[Consolidated standardized estimates for construction elements and various building operations] Ukrupnennye smetnye normy na konstruktsii i vidy rabot (UKN). No.1 [Construction elements of apartment houses, industrial and public buildings] Konstruktsii promyshlennykh, zhilykh i grazhdanskikh zdanii. 1958. 126 p. (MIRA 12:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

(Building--Estimates)

OSIPOV, I.A., inzh.; BERSHIDSKIY, A.Kh., kand.tekhn.nauk, red.; PETROVA, V.V., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Consolidated standards for making estimates for buildings and structures] Ukrupnennye smetnye normy na zdaniia i sooruzheniia. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. No.4. [One-story multispan industrial buildings with spans of 27, 30, and 33 m.] Odnoetazhnye mnogoproletnye promyshlennye zdaniia s proletami 27, 30 i 33 m. 1959. 95 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosudarstvennyy proyektnyy institut Promstroyproyekt (for Osipov).
(Industrial buildings) (Building—Estimates)

HERSHIDSKIY, A.Kh., kand.tekhn.nauk; KUTSENOVA, A.A., red.izd-va; [illegible]MANOVA, V.M., tekhn.red.

[Working out a set of norms for production planning in housing construction; a scientific report] O razrabotke normativnoi bazy dlia proizvodstvennogo planirovaniia v zhilishchnom stroitel'stve; nauchnoe soobshchenie. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 32 p. (MIRA 14:4)

(Construction industry--Production standards)

BERSHIDSKIY, Abram Khaimovich, kand. tekhn. nauk; BABKOV, Nikolay Konstantinovich, inzh.; KUZ'MIN, V.A., red.; BELOGUROVA, I.A., tekhn. red.

[New developments in production planning of housing construction] Novoe v proizvodstvennom planirovanii zhilishchnogo strcitel'stva; stenogramma lektsii. Leningrad, 1961. 26 p. (MIRA 14:7)
(Construction industry)

AZBEL', B.M.; MINDLIN, B.B.; FEDOTYCHEVA, O.S.; BERSHIDSKIY, A.Kh., kand. tekhn. nauk; SMIRNOV, B.K., kand. tekhn. nauk; PETROVA, V.V., red. izd-va; NAUMOVA, G.D., tekhn. red.

[Recommendations on the development and utilization of standard calculations for piecework assignments in construction of apartment houses according to standard plans]Rekomendatsii po razrabotke i primeneniiu tipovykh kal'kuliatsii dlia akkordnykh nariadov pri stroitel'stve zhilykh zdanii po tipovym proektam. Moskva, Gosstroiizdat, 1962. 129 p. (MIRA 15:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut ekonomiki stroitel'stva. TSentral'noye normativno-issledovatel'skoye byuro. 2. TSentral'noye normativno-issledovatel'skoye byuro Instituta ekonomiki stroitel'stva Akademii stroitel'stva i arkhitektury SSSR (for Azbel', Mindlin, Fedotycheva). 3. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva (Bershidskiy, Smirnov).
(Piecework) (Apartment houses)

ZEL'TSER, G.Ya.; VOLOBOYEV, I.N.; KOSTIN, A.P.; BULGAKOV, A.A.; VOZNYUK, V.S.; KALMYKOV, A.M.; STUDENTSOV, S.A.; BERSHIDSKIY, P.I.; MOISEYEV, G.A., inzh., retsenzent; SOBAKIN, V.V., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[The TG102 diesel locomotive]Teplovoz TG102. Moskva, Transzheldorizdat, 1962. 150 p. (MIRA 16:1)
(Diesel locomotives--Hydraulic drive)

BERSHININ, P. V.

"The Formation of Soil Structures." Dr Agr Sci, Leningrad Agricultural Inst, Leningrad, 1953. (RZhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

GINDIS, A. P.; BERSHITSKIY, A. A.

Cleaning and degreasing piston rings of internal combustion engines by means of ultrasonic oscillations. Avt. prom. 28 no.9: 40-43 S '62. (MIRA 15:10)

1. Bazovaya laboratoriya ul'trazvuka Odesskogo soveta narodnogo khozyaystva.

(Piston rings—Cleaning)
(Ultrasonic waves—Industrial applications)

L 04091-67

ACC NR: AR6023291 SOURCE CODE: UR/0058/66/000/003/H068/H068

AUTHOR: Bershitskiy, A. A.; Vinitskiy, Ye. S.

29
B

TITLE: Ultrasonic signalling devices for levels of liquid media

SOURCE: Ref zh. Fizika, Abs. 3Zh474

REF SOURCE: Tr. 1-y Mezhvuz. nauchn. konferentsii po primeneniyu molekul. akust. k issled. veshchestva i v nar. kh-ve. Tashkent, 1964, 293-294

TOPIC TAGS: liquid level instrument, ultrasonic equipment

ABSTRACT: The operation of the described instrument is based on the use of a degree of attenuation of flexural ultrasonic oscillations in the wall of the vessel when the liquid reaches a specified level in the vessel. The oscillations are excited with the aid of two piezoelectric elements located horizontally on the outer side of the vessel, at the height of the monitored level. The accuracy with which the liquid level is determined is ±2 - 3 mm. The instrument makes it possible to carry out remote measurements and to monitor the level of corrosive, toxic, and similar liquids. [Translation of abstract]

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Card 1/1

21(0)

AUTHOR: Bershitskiy, G. [redacted] SOV/89-6-1-17/33

TITLE: Second Session of the General Conference of the International Atomic Energy Authority (Vtoraya sessiya General'noy konferentsii Mezhdunarodnogo agenstva po atomnoy energii)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 1, pp 80 - 80 (USSR)

ABSTRACT: The general assembly of the International Atomic Energy Authority was held in Vienna from September 22 to October 4, 1958. The conference was attended by 65 representatives of the member states. Representatives of some of the special departments of the UNO as well as of technical-scientific institutions as e.g. Ob"yedinennyy institut yadernykh issledovaniy, Dubna (United Nuclear Research Institute, Dubna) and the CERN (Geneva).
Head of the Soviet delegation was V. S. Yemel'yanov, Nachal'nik Glavnogo upravleniya po ispol'zovaniyu atomnoy energii pri Sovete Ministrov SSSR (Head of the Main Administration for Atomic Energy at the Council of Ministers, USSR).
The heads of the other delegations were D. MacCoin, USA, E. Plowden, Great Britain.
The following points were discussed: Working program of the

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Second Session of the General Conference of the International Atomic Energy Authority SOV/89-6-1-17/33

Authority, budget, use of funds, subscription fees for members.
Doctor Sudzharvo (Indonesia) was elected President of the Conference following a suggestion made by the African countries.
During the first plenary session speeches were made by the Austrian Federal Chancellor Raab, the deputy general secretary of the UNO, Philipp De Sain, and by the general manager of the International Atomic Authority Sterling Coole.
The program for 1959 provides: Assistance to be rendered to undeveloped countries for the purpose of carrying out plans for the peaceful uses of atomic energy; propagation of scientific and technical literature; distribution of fission material and establishment of own laboratories.

Card 2/2

KHORUNZHIY, Valentin Alekseyevich; RIBAS, Yuriy Mikhaylovich; NEDOSEKOV, Svyatoslav Semenovich; BOL'SHAM, Ya.M., retsenzent; BERSHITSKIY, M.D., red.; BUL'DYAYEV, N.A., tekhn. red.

[Explosionproof electrical equipment] Vzryvozashchishchennoe elektrooborudovanie. Moskva, Gosenergoizdat, 1962. 319 p. (MIRA 16:8)

(Electric apparatus and appliances--Safety measures)

BERSHITSKIY, Ya.

Use all possibilities. Okhr. truda i sots. strakh. 3 no.7:16-18 Jl '60. (MIRA 13:8)

1. Zaveduyushchiy lechebnym otdelom Yaltinskogo kurortnogo upravleniya.
(Yalta—Sanatoriums)

BERSHITSKIY, Ya.M.; BOKSHA, V.G.

25th Conference on Research and Practice by Crimean physicians on Problems of Climatotherapy. Vop. kur., fizioter. i lech. fiz. kul't. 26 no. 2:182-184 Mr-Ap '61. (MIRA 14:4)
(CLIMATOLOGY, MEDICAL—CONGRESSES)

BOKSHA, V.G.; BERSHITSKIY, Ya.M.

Ukrainian Republic Conference on Climatotherapy. Vop.kur., fizioter. i lech.fiz.kul't. 27 no.2:181-183 Mr-Ap '62. (MIRA 15:11)
(UKRAINE--CLIMATOLOGY, MEDICAL--CONGRESSES)

BOKSHA, Vyacheslav Georgiyevich; BERSHITSKIY, Yakov Markovich;
IVANOVA, Z., red.

[Sea, sun and air are waiting for you... (health resort visitor's booklet on climatic therapy during a warm period of the year)] Vas zhdut more, solntse, vozdukh... (Pamiatka kurortnika o klimaticheskom lechenii v teplyi period goda). Simferopol', Krymizdat, 1963. 29 p. (MIRA 17:5)

AUTHOR: Bershitskiy, Yu.A., Engineer SOV-91-58-10-11/35

TITLE: The Preparation and Conservation of a Solution of Stannous Chloride (Prigotovleniye i khraneniye rastvora khloristogo olova)

PERIODICAL: Energetik, 1958, Nr 10, p 14 (USSR)

ABSTRACT: The author explains that at his state regional electric power station (GRES), the consumption of a 1% solution of stannous chloride, used to determine the content of phosphates and silicic acid in the boiler water, reaches 4-5 litres per month. To prevent the solution from oxidizing, a piece of metallic tin weighing about 3-4 grams is placed into each phial or containing the solution covered with a layer of oil. When the solution comes into contact with the metallic tin, virtually no oxidation takes place. During a period of two years there has not been one case of the solution being spoiled.

1. Tin chlorides--Preparation

Card 1/1

BERSHOV, L.V.; MARFUNIN, A.S.

Estimation of the state of chemical bonds from the superfine structure of electron paramagnetic resonance spectra of manganese. Dokl. AN SSSR 155 no. 3:632-635 Mr '64. (MIRA 17:5)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR. Predstavleno akademikom N.V.Belovym.

L 9410-66 EWT(l)/EWT(m)/EWP(j)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/WW/JG/GG/RM

ACC NR: AP5024691 SOURCE CODE: UR/0056/65/049/003/0743/0746

AUTHOR: Bershov, L. V.; Marfunin, A. S.; Mineyeva, R. M.

ORG: Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry of the Academy of Sciences SSSR (Institut geologii rudnykh mestorzhdeniy, petrografii, mineralogii i geokhimii Akademii nauk SSSR)

TITLE: Electron paramagnetic resonance of the tetrahedral complex $[MnF_4]^{2+}$ in scheelite

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 3, 1965, 743-746

TOPIC TAGS: electron paramagnetic resonance, manganese compound, single crystal, hyperfine structure, crystal symmetry

ABSTRACT: The authors have observed in a single crystal of natural scheelite two different Mn^{2+} spectra, which are naturally attributed to Ca and W sites. One of these spectra has the characteristic signature of a super-hyperfine structure from four F^{19} nuclei. The coordination of Mn^{2+} in the second spectrum is definitely tetrahedral. Both spectra (which overlap partially) have tetragonal symmetry with common Z axis. This makes it possible to obtain the constants of the spin Hamiltonian for Mn^{2+} in W sites, indicating a new charge compensation mechanism in scheelite. In addition, this is at present the only compound in which EPR spectra of Mn^{2+} with fluorine ligans in tetrahedral coordination are observed. Orig. art. has: 2 figures,

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L 9410-66

ACC NR: AP5024691

1 formula, and 2 tables.

SUB CODE: 20/ 18 SUBM DATE: 09Apr65/ ORIG REF: 003/ OTH REF: 014

Card 2/2

BERSHOV, L.V. ; MARFUNIN, A.S.; MINEYEVA, R.M.

Electronic paramagnetic resonance of Mg^{2+} in apophyllite. Dokl. AN SSSR 164 no.5:1141-1142 O '65. (MIRA 18:10)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR. Submitted April 9, 1965.

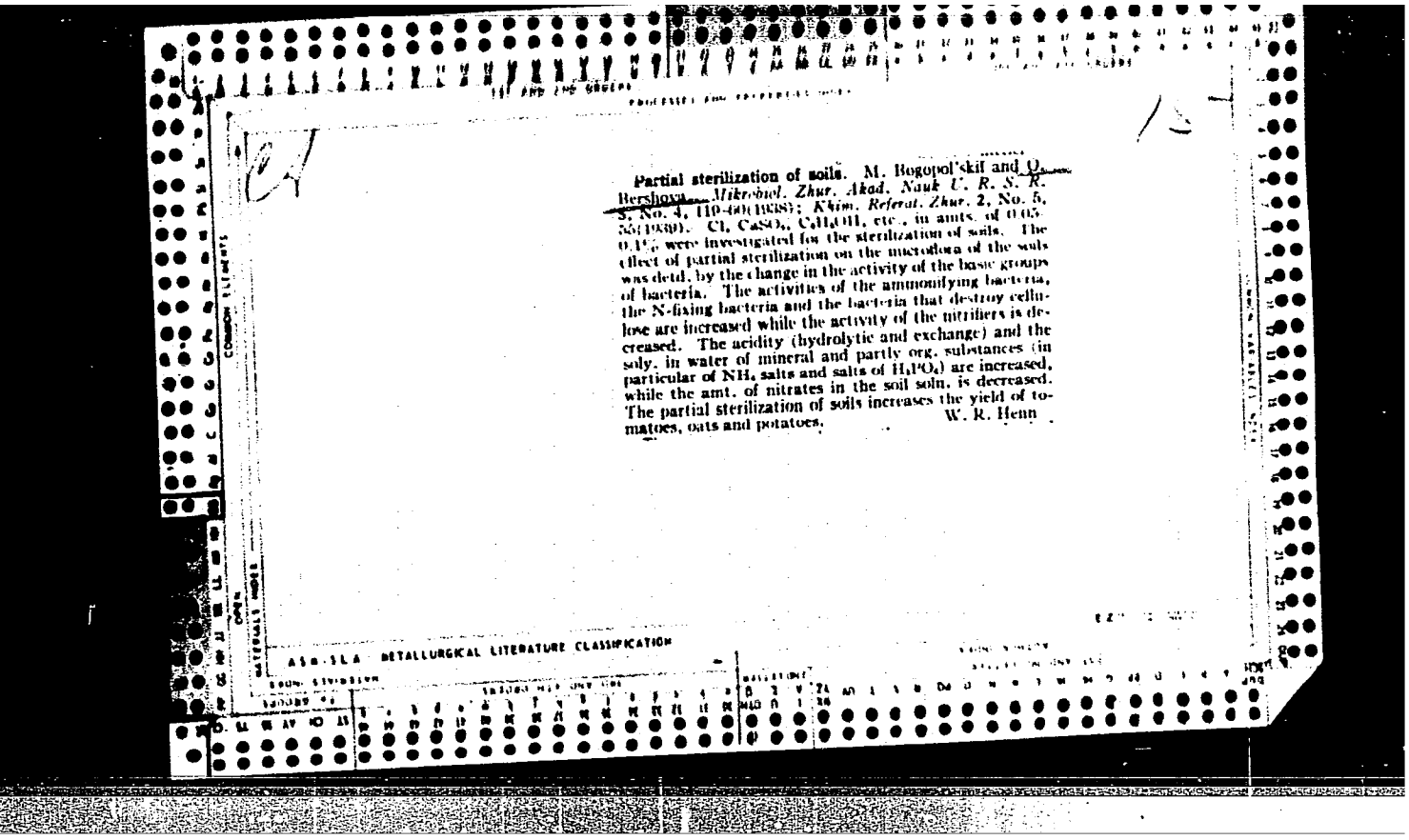
BERSHOV, V.A., inzhener-podpolkovnik

When they forget their duties. Vest.Vozd.Fl. no.7:28-29 Jl '61. (MIRA 14:8)

(Airplanes, Military—Oxygen equipment)

BERSHOV, Yevgeniy Pavlovich;POTOTSKIY, G.I., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

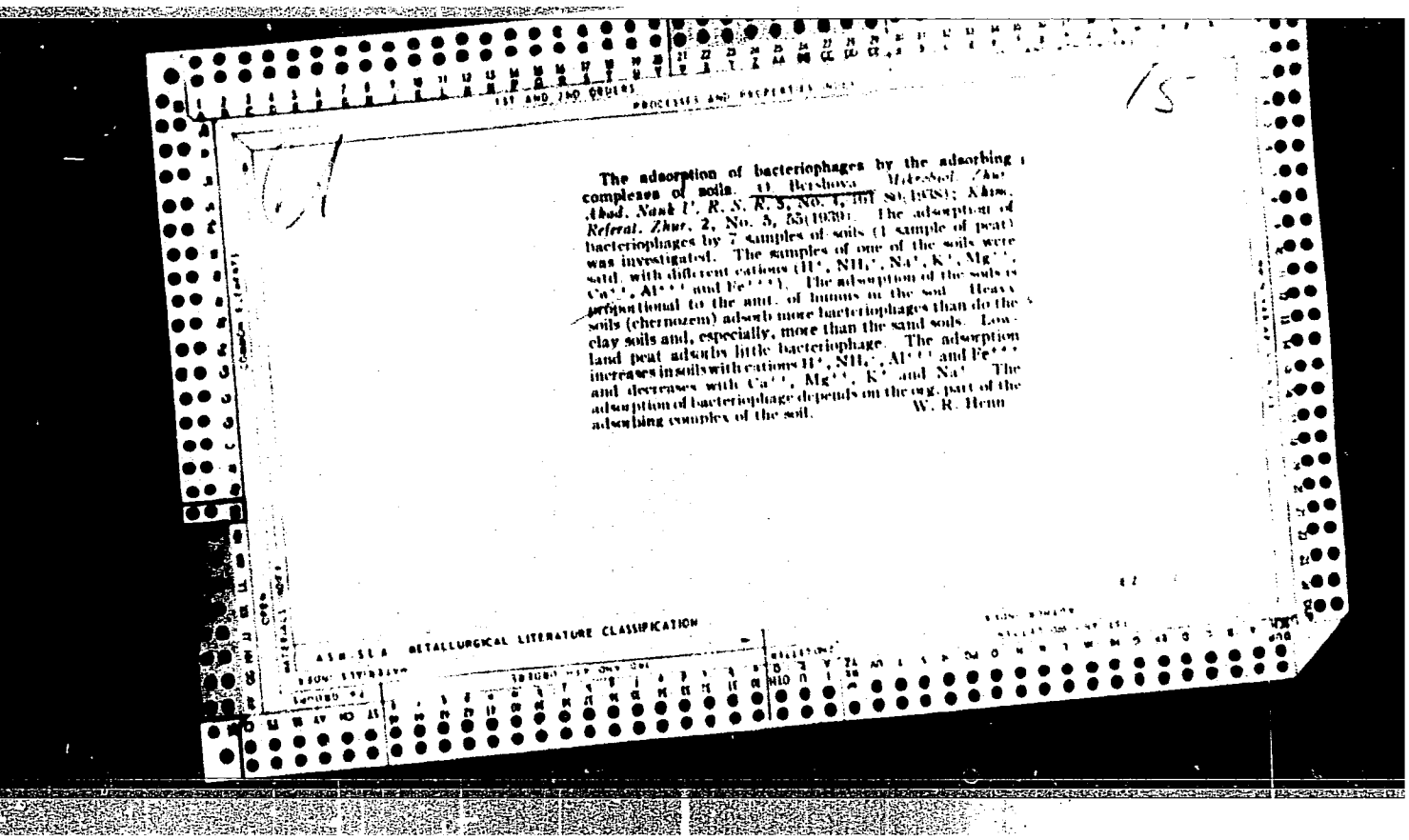
[Calculation of the correction of railroad curves] Raschet vypravki zheleznodorozhnykh krivykh. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1961. 34 p. (MIRA 14:12)
(Railroad engineering)



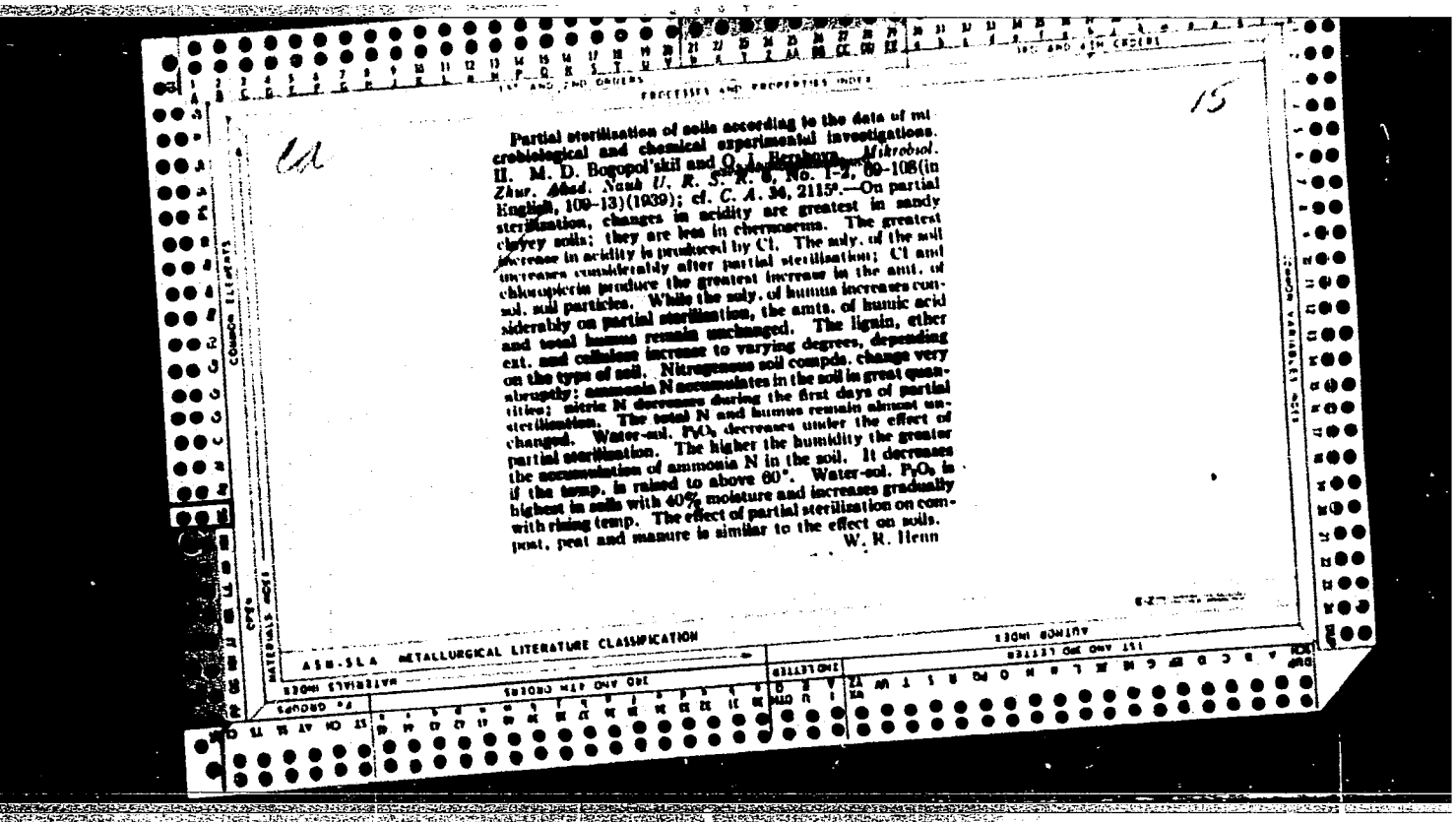
Partial sterilization of soils. M. Bogopol'skii and O. Bershova. *Mikrobiol. Zhur. Akad. Nauk U. R. S. R.* 5, No. 4, 119-60(1938); *Khim. Referat. Zhur.* 2, No. 5, 55(1939). Cl, $CaSO_4$, C_6H_5OH, etc., in amts. of 0.05-0.1% were investigated for the sterilization of soils. The effect of partial sterilization on the microflora of the soils was detd. by the change in the activity of the basic groups of bacteria. The activities of the ammonifying bacteria, the N-fixing bacteria and the bacteria that destroy cellulose are increased while the activity of the nitrifiers is decreased. The acidity (hydrolytic and exchange) and the soly. in water of mineral and partly org. substances (in particular of NH_4 salts and salts of H_3PO_4) are increased, while the amt. of nitrates in the soil soln. is decreased. The partial sterilization of soils increases the yield of tomatoes, oats and potatoes.

W. R. Henn

A 58-5 LA METALLURGICAL LITERATURE CLASSIFICATION

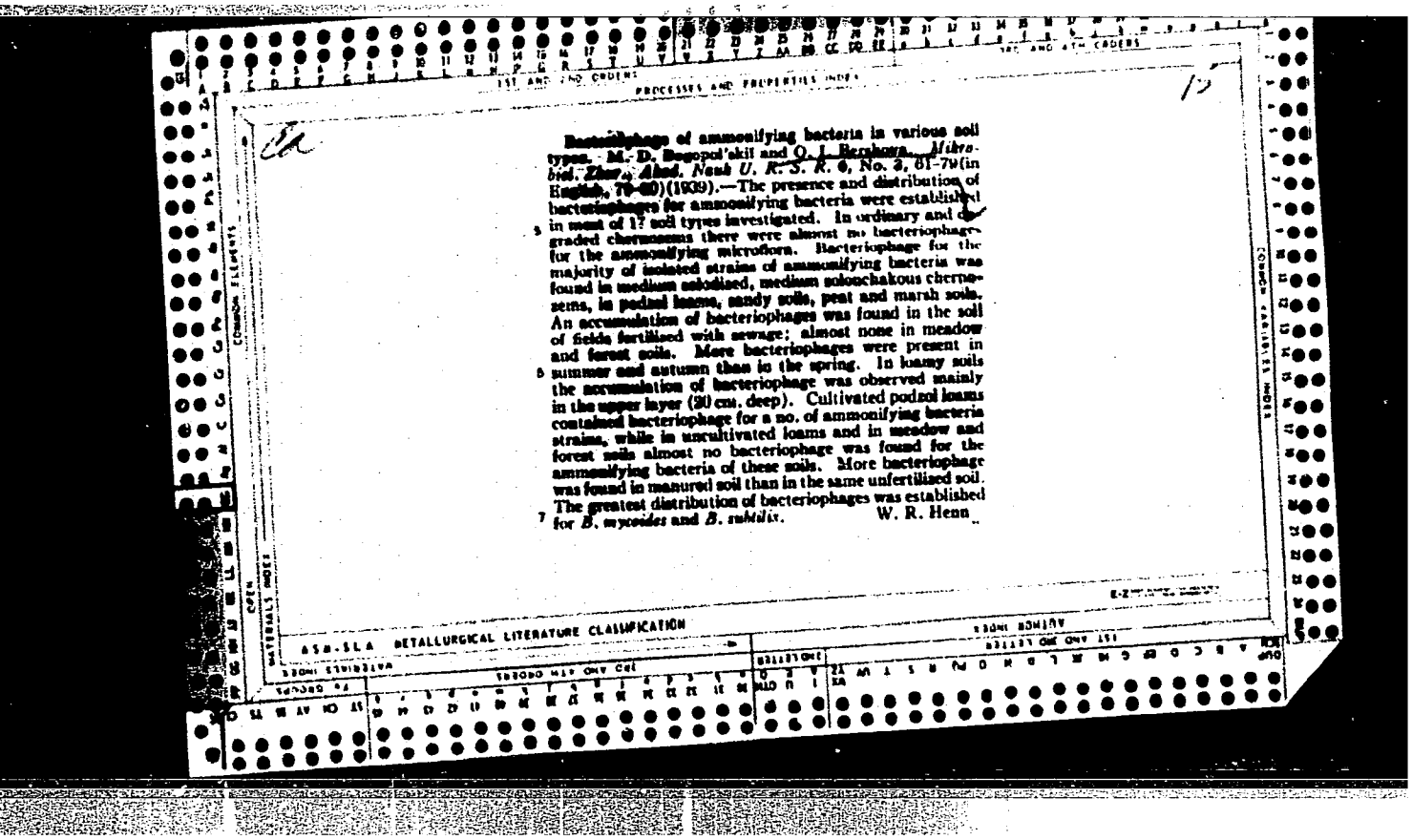


The adsorption of bacteriophages by the adsorbing complexes of soils. (1) Bershova. *Mikrobiol. Zhur. Akad. Nauk U. R. S. R.* 5, No. 1, 101 pp. (1938); *Khim. Referat. Zhur.* 2, No. 5, 55(1939). The adsorption of bacteriophages by 7 samples of soils (1 sample of peat) was investigated. The samples of one of the soils were satd. with different cations (H^+, NH_4^+, Na^+, K^+, Mg^{++}, Ca^{++}, Al^{+++} and Fe^{+++}). The adsorption of the soils is proportional to the amt. of humus in the soil. Heavy soils (chernozem) adsorb more bacteriophages than do the clay soils and, especially, more than the sand soils. Low-land peat adsorbs little bacteriophage. The adsorption increases in soils with cations H^+, NH_4^+, Al^{+++} and Fe^{+++} and decreases with Ca^{++}, Mg^{++}, K^+ and Na^+. The adsorption of bacteriophage depends on the org. part of the adsorbing complex of the soil. W. R. Henn



Partial sterilisation of soils according to the data of microbiological and chemical experimental investigations. II. M. D. Bogopol'skii and O. I. Hershova. *Mikrobiol. Zhur. Akad. Nauk U. R. S. R.* 6, No. 1-2, 89-108(in English, 109-13)(1939); cf. *C. A.* 34, 2115⁹.—On partial sterilization, changes in acidity are greatest in sandy clayey soils; they are less in chernozems. The greatest decrease in acidity is produced by Cl. The soly. of the soil increases considerably after partial sterilization; Cl and chloropicrin produce the greatest increase in the amt. of sol. soil particles. While the soly. of humus increases considerably on partial sterilization, the amts. of humic acid and total humus remain unchanged. The lignin, ether ext. and cellulose increase to varying degrees, depending on the type of soil. Nitrogenous soil compds. change very abruptly; ammonia N accumulates in the soil in great quantities; nitric N decreases during the first days of partial sterilization. The total N and humus remain almost unchanged. Water-sol. P_2O_5 decreases under the effect of partial sterilization. The higher the humidity the greater the accumulation of ammonia N in the soil. It decreases if the temp. is raised to above 60°. Water-sol. P_2O_5 is highest in soils with 40% moisture and increases gradually with rising temp. The effect of partial sterilization on compost, peat and manure is similar to the effect on soils.

W. R. Henn



Bacteriophage of ammonifying bacteria in various soil types. M. D. Bogopol'skii and O. I. Bershova. *Mikrobiol. Zhur., Akad. Nauk U. R. S. R.* 6, No. 3, 61-79 (in English, 79-80) (1939).—The presence and distribution of bacteriophages for ammonifying bacteria were established in most of 17 soil types investigated. In ordinary and degraded chernozems there were almost no bacteriophages for the ammonifying microflora. Bacteriophage for the majority of isolated strains of ammonifying bacteria was found in medium solodized, medium solonchakous chernozems, in podzol loams, sandy soils, peat and marsh soils. An accumulation of bacteriophages was found in the soil of fields fertilized with sewage; almost none in meadow and forest soils. More bacteriophages were present in summer and autumn than in the spring. In loamy soils the accumulation of bacteriophage was observed mainly in the upper layer (20 cm. deep). Cultivated podzol loams contained bacteriophage for a no. of ammonifying bacteria strains, while in uncultivated loams and in meadow and forest soils almost no bacteriophage was found for the ammonifying bacteria of these soils. More bacteriophage was found in manured soil than in the same unfertilized soil. The greatest distribution of bacteriophages was established for *B. mycoides* and *B. subtilis*. W. R. Henn

SMALIY, V.T.; BERSHOVA, O.I.

Formation of heteroauxin in the cultures of Azotobacter. Report no.2. Mikrobiol.zhur. 9 no.4:25-31 '48. (MIRA 9:9)

1. Iz otdela pochvennykh mikroorganizmov (zav. otdelom - L.I.Ribenchik) Instituta mikrobiologii imeni akademika D.K.Zabolotnogo Akademii nauk URSR.
(AZOTOBACTER) (INDOLEACETIC ACID)

BERSHOVA, O. I.

RUBENCHIK, L. I., BERSHOVA, O. I., and ZINOV'YEVA, Kh.G. "The interrelationship between azotobacter and certain soil bacteria", (Report 2), Mikrobiol. zhurnal, Vo. X, No. 1, 1948, p. 3-10 (In Ukrainian, resume in Russian).

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No.7 1949).

BERSHOVA, O. I.

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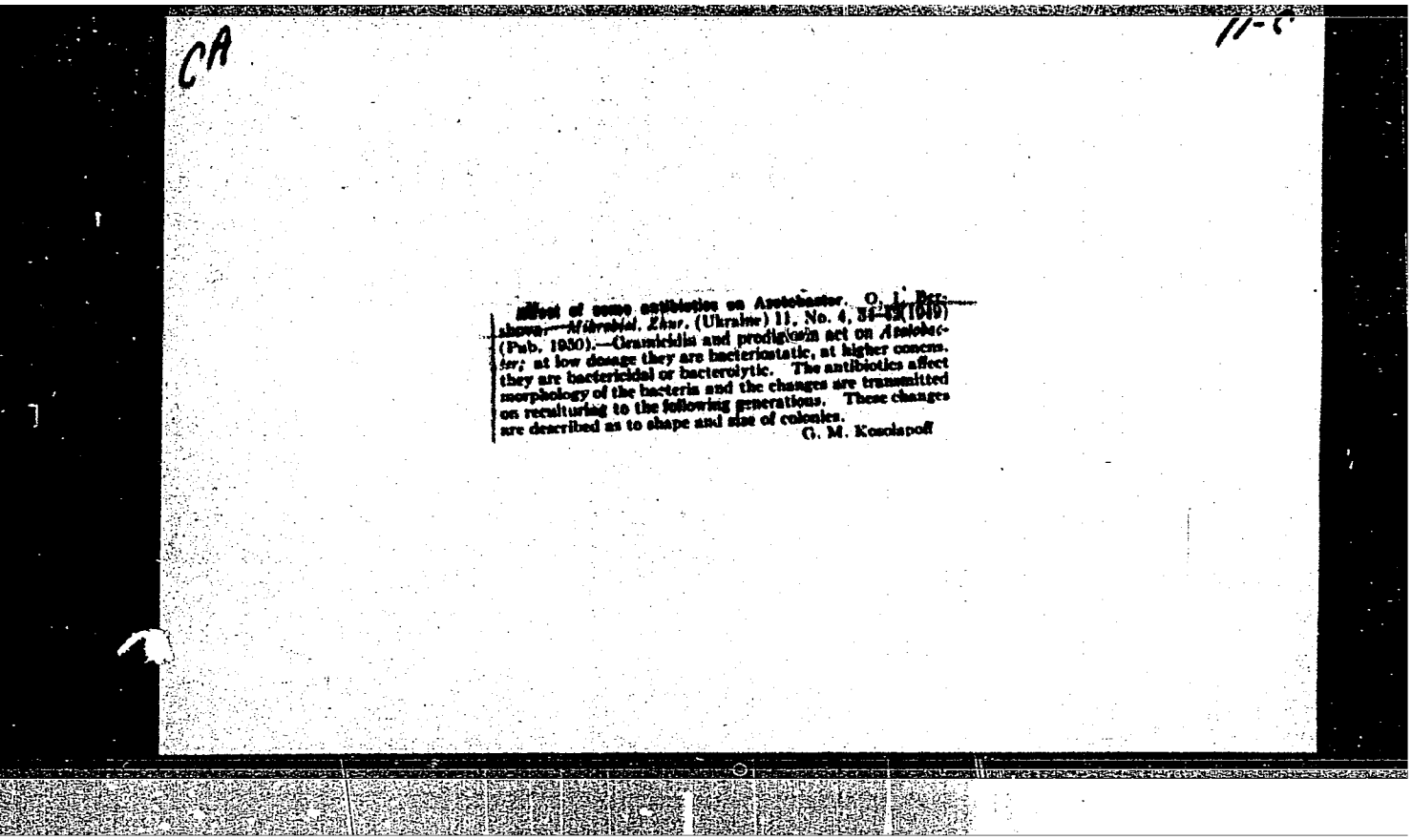
SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).



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Effect of some antibiotics on Azotobacter. O. I. Pri-
shchepa. *Mikrobiol. Zhur.* (Ukraine) 11, No. 4, 35-42(1949)
(Pub. 1950).—Gramicidin and prodigiosin act on *Azotobac-
ter*; at low dosage they are bacteriostatic, at higher concns.
they are bactericidal or bacteriolytic. The antibiotics affect
morphology of the bacteria and the changes are transmitted
on reculturing to the following generations. These changes
are described as to shape and size of colonies.
G. M. Kosolapoff

USSR/Biology (Agriculture) - Azobacter, Feb 50
Antibiotics

"The Effect of Some Antibiotics on Azobacter," O. Bershova, Div of Gen Microbiol, Inst Microbiol imeni Acad D. K. Zabolotnyy, Acad Sci Ukrainian SSR

"Mikrobiologichniy Zhur" Vol XI, No 4, pp 34-42

Gramicidin and prodigiosin in certain doses have a bactericidal effect on azobacter. Smaller doses of these antibiotics have a bacteriostatic effect on these bacteria, while large doses are bacteriolytic. Furthermore, these antibiotics bring about

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USSR/Biology (Agriculture) - Azobacter, Feb 50
Antibiotics (Contd)

morphological and growth modifications in azobacter which are retained during several reseedings of the culture.

203T2

BERSHOVA, O.

BERSHOVA, O. I.

"Microbiological Study of the Middle Dnepr", Mikrobiol Zhur, Kiev, Vol. 12, Issue 2, pp 3-15, 1950.