L 25977-66 EWT(1)/T WR

ACC NR: AP6011918 SOURCE CODE: UR/0141/66/009/002/0336/0340

AUTHOR: Naymushin, M. P.

ORG: Ural Polytechnic Institute (Ural'skiy politekhnicheskiy institut)

TITLE: Enhancing the radiation of a slot in a cylinder in the shadow zone

SOURCE: IVUZ. Radiofizika, v. 9, no. 2, 1966, 336-340

TOPIC TAGS: antenna, slot antenna

ABSTRACT: In the slot-in-the-cylinder omnidirectional antenna, the rear half-space is considerably shielded by the body of the cylinder. This shielding effect can be reduced by introduction of an impedance structure on the cylinder surface, which would obviate the necessity of increasing the number of radiators. Two methods are considered: (1) Increasing the cylinder surface impedance and generating an unidirectional azimuthal wave in order to ensure smoother directional pattern; (2) Exciting two opposite direction azimuthal surface waves within limited areas of the cylinder surface in such a fashion that their interference is avoided. The second method theoretically yields a much better directional pattern. Orig. art. has: 4 figures and 3 formulas. [03]

SUB CODE: 09 / SUBM DATE: 07Jun65 / ORIG REF: 002 / OTH REF: 001/ ATD PRESS: 4257

Card 1/1 UDC: 621.396.671

NAYMUSHINA, R.F.

Mutual solubility in the system H_3BO_3 - $MgSO_4$ - H_2SO_4 - H_2O at 0 and 50°C. Trudy Inst.khim.nauk AN Kazakh.SSR 10:167-174 '64.

(MIRA 17:10)

M-5

USSR / Cultivated Plants. Fodder Crops.

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58622

Author : Naynene, A. Yu.
Inst : Lit. Sci.-Res. Institute of Cattle-Breeding and Veterinary Science
Title : Components of the Green Fodder Area in the Middle-Lithuanian Plain

Orig Pub : Byul. Nauchno-tekhn. inform., Lit. n.-i. in-t zhivotnovodstva i veterinarii, 1957, No 1, 9-11

Abstract : The best components for the green pastures in the Middle-Lithuanian plain (sandy loam and argillaceous soil), according to the surveys conducted by the Institute in 1952-1955, are: winter rape or a mixture of winter vetch with rye, a mixture of winter vetch with winter wheat, a mixture of perennial grasses or clover; a vetch-oat mixture or a mixture of winter vetch

Card 1/2

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USSR/Farm Animals - Cattle Q

Abs Jour : Ref Zhur - Biol., No 15, 1958, 69287

Author : Naymene, A.Yu.

Inst : Lithuanian Scientific Research Institute of Animal Husbandry and Veterinary Medicine

Title : Corn as a Crop of Green Conveyer for Dairy Cows

Orig Pub : Byul. nauchno-tekhn. inform. Lit. n.-i. in-t zhivotnovodstva i veterinarii, 1957, No 1, 21-23

Abstract : No abstract.

Card 1/1

NAYNE NS M. K.
P. 2

23(4) 23 (5) SOV/77-4-2-15/18

AUTHOR: Lyalikov, K.S.

TITLE: Successes of Soviet Electrophotography (Uspekhi sovetskoy elektrofotografii) A Scientific and Technical Conference on Questions of Electrography (Nauchno-tekhnicheskaya konferentsiya po voprosam elektrografii)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol 4, Nr 2, pp 149-152 (USSR)

ABSTRACT: This is an account of a scientific and technical conference on electrography, the first to be held in the Soviet Union and evidently in the world. It was organised in Vil'nyus on December 16-19, 1958 by the Soviet narodnogo khozyaystva Litovskoy SSR (Council for National Economy of the Lithuanian SSR), the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta ministrov Litovskoy SSR (State Scientific and Technical Committee of the Council of Ministers of the Lithuanian SSR) and the Nauchno-issledovatel'skiy institut elektrografii (Scientific Research Institute of Electrography). The conference, attended by over 300 scientific workers, was opened by the Deputy Chairman of the Council for National Economy of the Lithuanian SSR P.A. Kul'vets, after which the director of the Institute for Electrography, I.I.Zhilevich, reviewed the state and prospects for development of electrography in the USSR. He stated that research in this field should be carried out along the following lines: a) a search for new photo-active materials with high dark resistance; b) physical research into the internal photoeffect; c) development of photosemiconductor layers; d) development of the theory of the electrophotographic process. K.S. Lyalikov (speaking also for O.G. Popova) gave a report in which he suggested determining the light sensitivity of electrophotographic layers in 3000T units. N.Z. Plavina (speaking also for I.I.Zhilevich, L.I.Krun'ko, M.M.Kurkevich, P.P. Kalinauskene and O.K. Dzyzydis) reported on some research on the sensitization of a semiconductor in electrophotographic layers. V.M. Fridkin gave a report on highly sensitive electrophotographic layers and an electrophotocopying device, and reviewed the formation process of the latent electrophotographic image on the basis of the zonal theory. He also described the design of an electrosensitometer for determining sensitivity by the relaxation period of a charge on the surface of the layer, and the circuit of an electrophotographic copying device. Anfilov finished describing the latter and then spoke on the mechanics and kinetics of the development of the latent electrophotographic image in liquid developers.

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SOV/77-A-2-15/18

Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

K.M. Vinogradov described some of the features of the cascade and liquid methods of electrophotographic development. Yu.Ye. Karpeshko devoted his report to the criterion of light sensitivity of the electrophotographic process. After the reports, a discussion took place on methods of determining the light sensitivity of electrophotographic layers. A.N. Chernyshev spoke on the prospects of developing polygraphic processes using electric and magnetic forces. O.V. Gromov (speaking also for I.I. Zhilevich, A.A. Sukhiy, V.A. Gordeyeva, A.S. Pausha and Yu. I. Kevalaytis) reported on the development of electrophotographic reproducing equipment. A.S. Pausha (speaking also for I.I. Zhilevich, A.S. Borisovich, N.M. Gal'vidiks and M.I.Nautkauskas) reported on the use of electrographic methods in recording oscillographs and other recording instruments.

V.P. Yurchenko (speaking also for L.N.Zalin) spoke on the possibility of electrophotographically recording images from electron-beam tubes. L.S. Korol' (speaking also for E.N. Markevich, T.I. Kozlovskaya, B.I. Kalinauskene, M.K. Naynene, I.I. Zhilevichene and E.A. Montrimas) gave a detailed description of laboratory and machine methods of producing photosemiconductor papers (zinc oxide was used). A.A. Sukhiy (speaking also for I.I. Zhilevich, O.V. Gromov, V.A. Gordeyev , N.V. Fedotov and T.N. Gor) described a laboratory and industrial machine for producing photosemiconductor papers. T.A. Shishkina (speaking also for Ya.A. Ozenan) reported on a method of examining electrophotographic materials using an a/c bridge. S.I. Khotyanovich (speaking also for A.I. Gikens and I.S. Zhilevkene) spoke on developing materials for electrophotography and ferromagnitography, including developers giving a "reverse" image. B.I. Tikhonov reviewed methods of measuring the electrostatic potentials of electrophotographic layers, stressing that the oscillating electrode should not be placed above a layer with varying potential as this causes self-discharge. E.V. Krukovskis (speaking also for R.S. Gorevoy, A.I.Osipov and Ye. S. Kheyfets) spoke on the practice of producing velveteen papers in an electrostatic field, and showed samples produced by the Grigishskaya paper factory. Ye.L. Nymirovskiy then gave a historical review of the development of electrographic methods in which he paid tribute to the work of the Scientific Research Institute of Electrography in Vil'nyus and the Institut poligraficheskogo mashinostroyeniya (Moskva)-(Polygraphic Machine-Building Institute (Moscow)). Debates were then held

Card 6/10

on methods of measuring the potential of charged electrophotographic layers; the vibration pick-up most-used was shown in B.I. Tikhonov's report to be not always accurate. S.G.Grenishin stated that the bad influence of the oscillating electrode can be eliminated if the electrode probe above its surface is fixed and the pick-up is connected to it by a shielded cable. In the debate on Ye.L. Nemirovskiy's report it was stated that the research of Academicians A.N. Terenin and Ye.K. Putseyko should be considered as the basis of all work on electrophotographic papers with ZnO, as they were the first to show the possibility of optical sensitization of the internal photoeffect in ZnO. M.M.Golovidis then gave a report on the depositing of charges by a corona discharge. A.I. Kaminskas and A.P. Yanulis reviewed some of the results of the use of electrographic methods in radiography. L.I. Nyun'ko (speaking also for I.I. Zhilevich, I.Z. Plavin, Yu.K. Vishchakas and Yu.A.Zibuta) reported on relaxation processes in semiconductor layers, using a vibration electrometer. Yu.K.Vishakas gave a report on research on some physical properties of the polycrystalline layers of selenious cadmium. K.P. Nikalkyavichyus spoke on some of the photoelectric properties of Sb_2S_3 and Sb_2Se_3; the absorption maximum of the latter is about 900 m μ. S.M. Kayman reported on methods of obtaining selenium light-sensitive layers, including sublimation and thermal treatment; it was also found that the sensitivity of the layers increased after storage for 1.5 to 2 months at room temperature. F.M. Polvigalkin (speaking also for S.G.Grenishin) spoke on research into the electrical properties of electrophotographic layers of amorphous selenium and powdered zinc oxide. N.K. Shiktorov (speaking also for A.S. Tamayatis) discussed the production of selenium layers and some of their properties. Finally the following reports on ferromagnetography were delivered; 1) S.Ya. Karnacheyev, V.K.Zhogina, "Electrodeposition of Magneto-Hard Alloys with Given Magnetic Characteristics" 2) M.P.Arutyunov, "Visualization of Magnetic Oscillograms by the Ferrographic Method" 3) V.K.Patrunov, "Ferrographic Recording of Facsimile Images" 4) I.I.Zhilevich, I.I. Gikis, B. Ye. Buchek, I.I. Kayrise, A.K.Kizhis, "Mock Experiments in Non-Pressure Ferromagnetic Printing". There was also an exhibition showing the work of the Electrographic Institute. The most important conclusion of the conference was that a solid approach had been made to the possibility of wide technical use of the methods of electrography. It was considered that although work in this field actually started only in 1955-56 it has covered as much ground as the USA in 10 years. While admitting that it was easier to reproduce results already achieved than to be the first to arrive at them, the conference observed that the americans took good care that no important information appeared in the literature available.

Card 10/10

NAYNIK, R.L., agronom

Need for a special pavilion. Zashch. rast. ot vred. i bol. 2 no.6:31-33 N-D '57. (MIRA 16:1)
(Moscow--Agricultural exhibitions)
(Plants, Protection of--Exhibitions)

NAYNIK, R.L.

Exhibit of advanced practices. Zashch. rast. ot vred. i bol. 3 no.3:18-19 My-Je '58. (MIRA 11:6)
(Plants, Protection of—Exhibitions)

MAYNIK, R.L.

At the cradle of organic chemistry. Zashch. rast. ot vred. i bol. 3 no.5:15-18 S-O '58. (MIRA 11:10)
(Chemistry, Organic) (Plants, Protection of)

NAYNIK, R.L.

In one of the districts. Zashch.rast.ot vred. i bol. 4 no.1: 14-17 Ja-F '59. (MIRA 12:2)
(Serpukhov District--Plants, Protection of)

NAYNIK, R.L.

Exhibit on the protection of grain crops. Zashch.rast.ot vred.i bol. 4 no.3:18 My-Je '59. (MIRA 13:4)
(Grain--Diseases and pests)
(Moscow--Agricultural exhibitions)

NAYNIK, R.L.

At the Exhibition of Achievements of the National Economy of the U. S. S. R. Zashch.rast.ot vred. i bol. 4 no.4:56-57 Jl-Ag '59. (MIRA 16:5)

(Moscow-Exhibitions) (Plants, Protection of-Exhibitions)

NAYNIK, R.L.

At the Exhibition of Achievements of the National Economy of the U.S.S.R. Zashch. rast. ot vred. i bol. 4 no.5:14-15 S-O '59. (MIRA 16:1)
(Moscow--Exhibitions) (Plants, Protection of--Exhibitions)

NAYNIK, R. L.

At the Exhibition of Achievements of the National Economy of the U.S.S.R. Zashch. rast. ot vred. i bol. 5 no.5:20-21 My '60. (MIRA 16:1)

(Moscow—Exhibitions)
(Plants, Protection of—Exhibitions)

NAYNIS, I.

"Zoohygiene with the Fundamentals of Veterinary Medicine" in Lithuanian

Vilnius, State Politico-Scientific Publishing House, 1952, 48 pages
Ministry of Agriculture, Lithuanian SSR, Admin Agricultural Propaganda

Veterinariya, Vol 30, No 3, 1953

MAYNIS, I.-V.I. [Mainys, I.-V.I.]

Conference of Forensic Medical Personnel and Criminologists of the Lithuanian S.S.R. Sud.-med. ekspert. 4 no.4:57 O-N-D '61. (MIRA 14:12)

(LITHUANIA--MEDICAL JURISPRUDENCE--CONGRESSES)

NAYNIS, I. V.I. [Nainys, I.]; KAMINSKAS, A.I.; VARANETSKAS, I.P. [Varaneckas, I.]

Use of electroroentgenography in medicine. Vest. rent. i rad. 40 no.1:51-54 Ja-F '65. (MIRA 18:6)

1. Kaunasskiy meditsinskiy institut (rektor - prof. Z.I. Yanushkevichus [Januskevicius, Z.]) ' Nauchno-issledovatel'skiy institut elektrografii (dir.- I.I. Zhilevich).

A A/A/A/S P.3

23(4) 23 (5) SOV/77-4-2-15/18

AUTHOR: Lyalikov, K.S.

TITLE: Successes of Soviet Electrophotography (Uspekhi sovetskoy elektrofotografii) A Scientific and Technical Conference on Questions of Electrography (Nauchno-tekhnicheskaya konferentsiya po voprosam elektrografii)

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ABSTRACT: This is an account of a scientific and technical conference on electrography, the first to be held in the Soviet Union and evidently in the world. It was organized in Vil'nyus on December 26-29, 1958 by the Soviet narodnogo khozyaystva Litovskoy SSR (Council for National Economy of the Lithuanian SSR), the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta ministrov Litovskoy SSR (State Scientific and Technical Committee of the Council of Ministers of the Lithuanian SSR) and the Nauchno-issledovatel'skiy institut elektrografii (Scientific Research Institute of Electrography). The conference, attended by over 300 scientific workers, was opened by the Deputy Chairman of the Council for National Economy of the Lithuanian SSR P.A. Kul'vets, after which the director of the Institute for Electrography, I.I.Zhilevich, reviewed the state and prospects for development of electrography in the USSR. He stated that research in this field should be carried out along the following lines: a) a search for new photo-active materials with high dark resistance; b) physical research into the internal photoeffect; c) development of photosemiconductor layers; d) development of the theory of the electrophotographic process. K.S. Lyalikov (speaking also for O.G. Popova) gave a report in which he suggested determining the light sensitivity of electrophotographic layers in GOST units. M.Z. Plavina (speaking also for I.I.Zhilevich, L.I.Nyman'ko, N.N.Karkevich, E.I. Kalinauskene and O.N. Sarsyadis) reported on some research on the sensitization of a semiconductor in electrophotographic layers. V.I. Fridkin gave a report on highly sensitive electrophotographic layers and an electrophotocopying device, and reviewed the formation process of the latent electrophotographic image on the basis of the zonal theory. He also described the design of an electrosensitometer for determining sensitivity by the relaxation period of a charge on the surface of the layer, and the circuit of an electrophotographic copying device. Anfilov finished describing the latter and then spoke on the mechanics and kinetics of the development of the latent electrophotographic image in liquid developers.

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Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

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V.P. Yurchenko (speaking also for L.N.Kalin) spoke on the possibility of electrophotographically recording images from electron-beam tubes. L.S. Karol' (speaking also for M.M. Markevich, T.I. Kozlovskaya, B.I. Kalinauskene, M.K. Raynens, I.I. Zhilevichyene and R.A. Montrimas) gave a detailed description of laboratory and machine methods of producing photosemiconductor papers (zinc oxide was used). A.A. Sukhiy (speaking also for I.I. Zhilevich, O.V. Gromov, V.A. Gordeyev , N.V. Feintov and T.N. Ger) described a laboratory and industrial machine for producing photosemiconductor papers. T.N. Shishkina (speaking also for Ye.A. Gaman) reported on a method of examining electrophotographic materials using an a/c bridge. S.I. Khotyanovich (speaking also for A.I. Sikens and L.S. Shilevkens) spoke on developing materials for electrophotography and ferromagnitography, including developers giving a "reverse" image. B.I. Tikhonov reviewed methods of measuring the electrostatic potentials of electrophotographic layers, stressing that the oscillating electrode should not be placed above a layer with varying potential as this causes self-discharge. L.V. Krakovskis (speaking also for R.J.Grevey, A.A.Gaipov and Ye. S. Kheyfets) spoke on the practice of producing velveteen papers in an electrostatic field, and showed samples produced by the Krigishskaya paper factory. Ye.L. Kazirovskiy then gave a historical review of the development of electrographic methods in which he paid tribute to the work of the Scientific Research Institute of Electrography in Vil'nyus and the Institut poligraficheskogo mashinostroyeniya (Moskva)-(Polygraphic Machine-building Institute (Moscow)). Debates were then held

Card 6/10

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NAYSET, R.T. [Nieset, R.T.]

Basis of the "kalvar" system of photography. NTI no.5:33-37 '63. (MIRA 16:11)

Naysh B. N.

137-1958-3-5049

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 84 (USSR)

AUTHORS: Leyzerova, M. M., Naysh, B. N.

TITLE: Electric Heating of Valve Stock Replaces Heating in Flame Furnaces (Elektronagrev zagotovok klapanov vzamen nagreva v plamennykh pechakh)

PERIODICAL: Tekhnol. transp. mashinostroyeniya, 1957, Nr 8, pp 19-23

ABSTRACT: A description of a process in which valve stock, made of Kh9S2 steel, is heated by inductive methods in a standard KIN-20 forge heater. The flame-heated forgings have a medium-acicular martensite structure with an R_c of 52-55, whereas induction-heated forgings have a fine-acicular martensite structure with an R_c of 56-58. The introduction of the induction-heating method produced a 25 percent increase in the production, increased the durability of the dies by 17 percent, effected a 5 percent saving of metal, and reduced the total cost of heating the stock by 31 percent. Experiments were carried out in which the heating of stock for tempering purposes was combined with heating operations intended to prepare the metal for die forging. The mechanical properties of metal treated in this fashion are comparable to

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137-1958-3-5049

Electric Heating of Valve Stock Replaces Heating in Flame Furnaces

those of metal treated in the standard manner, whereas the strength characteristics are even somewhat higher. Sorbitic structure is observed in both cases. In the future separate heating operations for tempering may be eliminated.

I. G.

Card 2/2

NAYSH, M.N.; YEGOROV, B.L., mashinist

Readers letters. Elek.i tepl.tiaga 6 no.2:46 F '62. (MIRA 15:2)

1. Glavnyy ! zh. luganskogo teplovozostroitel'nogo zavoda im. "Oktyabr'skoy Revolyutsii" (for Naysh). 2. Depo Batabinsk Zapadno-Sibirskoy dorogi (for Yegorov).
(Locomotives)

NAYSH, M. N., inzh.; YENENKO, B. A., inzh.; KOFANOV, G. F., inzh.

Repairing single-model forging and pressing unit in the forge shop after an accident. Mashinostroenie no.5:16-18 S-O '62. (MIRA 16:1)

1. Teplovozostreitel'nyy zavod im. Oktyabr'skoy revolyutsii.

(Forging machinery—Maintenance and repair)

NAYSH, M.N., inzh.; VARMAN, T.V., inzh.; KARTASHOV, I.N., inzh.

Using special-purpose machine tools for multiple machining. Mashinostroenie no.4:28-29 Jl-Ag '63. (MIRA 17:2)

1. Luganskiy teplovozostroitel'nyy zavod (for Naysh, Varman).
2. Luganskiy vecherniy mashinostroitel'nyy institut (for Kartashov).

L 11972-66 EWT(m)/EWP(t)/EWP(b) JD

ACC NR: AP5028986 SOURCE CODE: UR/0122/65/000/009/0064/0068

AUTHORS: Shainskiy, M. Ye. (Engineer); Kartashev, I. N. (Professor); Naysh, M. N. (Engineer)

ORG: none

TITLE: Vibration grinding and polishing of parts

SOURCE: Vestnik mashinostroyeniya, no. 9, 1965, 64-68

TOPIC TAGS: metalworking; vibration, vibration effect, metal polishing, metal finishing, copper sulfate, nonmechanical metal removal, GRINDING, ABRASIVE

ABSTRACT: Some aspects of vibration grinding and polishing are discussed. The polishing action is the result of the relative velocities of the particles and the parts. In the past, the motion of the vibrating reservoir has been made elliptical. The most effective abrasive action takes place over only about 0.1 of the period, giving a vibrational efficiency of ≈15% for this type of a device. By making the trajectory of the reservoir a circle, the efficiency can be increased to 70—75%. The abrasive force for such a case is derived as

$$F_a = mA\omega^2,$$

(where m = mass of polished part; A and ω = amplitude and frequency of reservoir

Card 1/3 UDC: 621.924.61.7

L 11972-66

ACC NR: AP5028986

vibration; ε = characteristic constant for the damping and frictional properties of the load, including parts, abrasive particles, and chemicals). Presently, frequencies of up to 3000 cpm and amplitudes of 6—7 mm can be used. Figure 1 shows the actions of the reservoir walls on the charge for elliptical and circular motions, with a baffle installed in the reservoir. Preliminary tests with baffles show that the efficiency can be increased to 90—95% and capacity by factors of 2—3. The recommended abrasive particle size is shown to be λ = L min/5 (where L_{min} = minimum dimension of part to be polished). A new modification of the process uses a compound in the charge, which reacts chemically with the metal of the part and speeds up the polishing. For example, using $CuS\emptyset_4$ in the charge to machine steel, the time required to remove 15 mg/cm^2 can be reduced from 1 hour (without $CuS\emptyset_4$) to 5—10 minutes. Although the cost of this chemi-mechanical process increases by a factor of 2—3, the capacity is increased by a factor of 10. A finish of class 10—12 can be obtained by the above methods.

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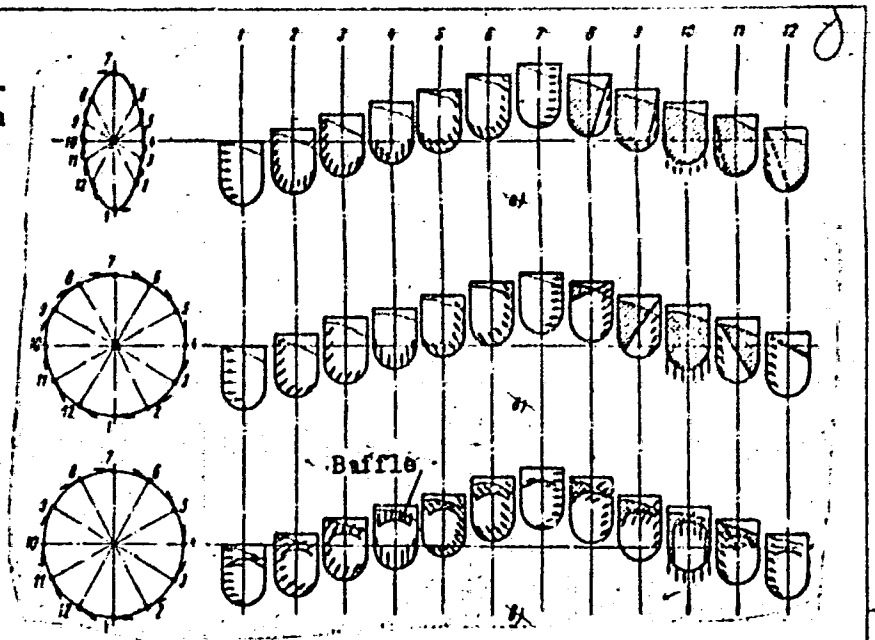
ACC NR: AP5028986

Fig. 1. Reservoir trajectories and forces on the charge.



Orig. art. has: 5 figures and 7 formulas.

SUB CODE: 13/ SUBM DATE: none

Card 3/3

SOV/137-59-3-6887

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3. p 281 (USSR)

AUTHORS: Naysh, B. N., Leyzerova, M. M.

TITLE: HF Induction Heating Replaces Flame Furnaces in the Manufacture of Valve Stampings (Perevod shtampovki klapanov s nagreva v plamennykh pechakh na elektronagrev)

PERIODICAL: V sb.: Chelyabinsk. kuznetsy v bor'be za tekhn. progress. Chelyabinsk, 1958, pp 57-73

ABSTRACT: The introduction of an HF induction heating (H) installation at the plant made it possible to: a) Obtain a homogeneous structure of the blanks; b) perform H without scaling, which increased the durability of the dies and resulted in a monthly economy of ~1700 kg of metal; c) increase the hardness of the valve after stamping in conjunction with HF-induction H, thus eliminating an additional operation of heating prior to quenching.

Ye L

Card 1/1

NAYSH, V.Ye.; TUROV, Ye.A.

Theory of noncollinear ferromagnetism and antiferromagnetism in rhombic crystals. Part I. Fiz. met. i metalloved. 11 no. 2:161-169 F '61. (MIRA 14:5)

1. Institut fiziki metallov AN SSSR.
(Ferromagnetism) (Crystal lattices)

NAYSH, V. Ye.; TUROV, Ye.A.

Theory of noncollinear ferromagnetism and antiferromagnetism in rhombic crystals. Fiz. met. i metalloved. 11 no.3:321-330 Mr '61. (MIRA 14:3)

1. Institut fiziki metallov AN SSSR.
(Metal crystals) (Ferromagnetism)

44174

S/181/62/004/012/023/052
B104/B102

24.6110

AUTHORS: Men', A. N., and Naysh, V. Ye.

TITLE: The term splitting in multicomponent disordered crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 12, 1962, 3522-3525

TEXT: The theory of term splitting in crystals, developed by Bethe (Ann. de Phys., 3, 133, 1929) is extended to multicomponent disordered crystals. It is assumed that a multicomponent crystal comprises N sites. In the case of n types of atoms, N_t ($t = 1,2,\ldots n$), $\sum_t N_t = N$ holds. Each site is characterized by a set M of four symbols ($ikl\alpha$). i characterizes the color (the type of atom) of the point, k the number of atoms of a given type, l the spatial distribution of the other points with respect to the one considered and α gives the condition that among sites of equal color there may be such as have different magnetic moments. l(R) characterizes an island in space which is bounded by a sphere of radius R. M is the set of all sites, whilst the set $M_j(i,k,l)$ of all sites of the same type is a

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subset of M. A sequence $R_{min}^{(j)} < R_i^{(j)} < R_{max}^{(j)}$ is obtained if one point is connected by rays with the remaining sites and if the distances apart of two sites are ordered. $l(R_{i1}) \lesssim l(R_{i2})$ holds for the symmetries $l(R_{ik})$ of the island if $R_{i1} < R_{i2}$. If the symmetry $l(R_{max})$ is known, it becomes possible to find a limiting radius $(R_i)_{limit}$, for which $l(R_i) = l(R_{max})$. Thus the problem is reduced to finding the symmetry of the islands, starting from $l(R_{min})$. The problem is solved for spinel and garnet structures. It is shown that for spinel-type structures that have tetrahedral lattice sites the character of the term splitting is completely explained if due consideration is given to the immediate neighborhood, whereas in the case of octahedral lattice sites two coordination spheres must be considered. There are 1 figure and 2 tables.

ASSOCIATION: Institut fiziki metallov AN SSSR, Sverdlovsk (Institute of the Physics of Metals AS USSR, Sverdlovsk)

SUBMITTED: July 9, 1962

NAYSH, V.Ye.

Magnetic symmetry of crystals. Fiz. met. i metalloved. 14 no.2:315-316 Ag '62. (MIRA 15:12)

1. Institut fiziki metallov AN SSSR.
(Metal crystals—Magnetic properties)

NAYSH, V.Ye.

Magnetic symmetry in crystals. Izv. AN SSSR. Ser. fiz. 27 no.12:1496-1504 D '63. (MIRA 17:1)

1. Institut fiziki metallov AN SSSR.

MEN', A.N.; NAYSH, V.Ye.

Determining the cation distribution in the interstices from term splitting in compound oxides. Fiz. tver tela 5 no.9:2477-2489 S '63. (MIRA 16:10)

1. Institut metallurgii Ural'skogo filiala AN SSSR, Sverdlovsk.

BIRYUKOV, V.G.; BRITCHUK, V.V.; KOZHUKHOV, V.K.; KRAYZ, A.G.; NAYASHKOV, I.S.; NAZAREVSKIY, N.I.; PANOV, A.V.; PETROV, G.N.; RABINOVICH, S.I.; SAPOZHNIKOV, A.V.

Emmanuil Abramovich Man'kin, 1905- ; on his 60th birthday. Elektrichestvo no.11:86-87 N '65. (MIRA 18:11)

NAYSHTADT, M.I.

Resumption of the activity of the Soviet section of the INQUA. Biul.Kom.chetv.per. no.23:112 '59. (MIRA 13:4)
(Geology)

KVITNITSKAYA, N.N.; KOSTOVETSKIY, Ya.I.; MAYSHTEYN, S.Ya.

Setting up tolerable limits of sewage disposal into natural waters.
Gig. i san. 22 no.12:63 D '57 (MIRA 11:3)

1. Iz Ukrainskogo instituta kommunal'noy gigiyeny.
(WATER--POLLUTION) (SEWAGE DISPOSAL)

GAN, G.S., prof., MAYSHTEYN, S.Ya. kand.med.nauk (Kiyev)

Material on developing the required sanitary conditions for discharging sewage from coal preparation plants into open waters. Vrach.delo no.3:267-269 Mr'58 (MIRA 11:5)

1. Ukrainskiy institut kommunal'noy gigyeny.
(SEWAGE DISPOSAL)

HAYSHTEYN, S.Ya., kand.med.nauk; PETROV, Yu.L., kand.med.nauk; KOROVITSKIY, A.A., nauchnyy sotrudnik; BOBOK, T.Ye., nauchnyy sotrudnik (Kiyev)

Sanitary protection of reservoirs from pollution by waste waters of tanneries. Vrach.delo no.6:623-627 Je '60. (MIRA 13:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy gigiyeny.

(INDUSTRIAL WASTES) (WATER--POLLUTION)

PETROV, Yu.L., kand.med.nauk; MAYSHTEYN, S.Ya., kand.med.nauk

Digestive reactions in animals in sanitary and toxicological investigations aimed at establishing norms for substances in the water supply. Gig. i san. 25 no.3:67-70 Mr '60. (MIRA 14:5)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'noy gigiyeny.

(WATER—POLLUTION)

KVITNITSKAYA, N.N., kand.med.nauk; KOSTOVETSKIY, Ya.I., kand.med.nauk; NAYSHTEYN, S.Ya., kand.med.nauk

Effectiveness of the purification of some industrial wastes. Gig. i san. 26 no.4:68-70 Ap '61. (MIRA 15:5)

1. Iz Ukrainskogo instituta kommunal'noy gigiyeny.
(INDUSTRIAL WASTES)

[illegible], S. M., and [illegible] V. P.

"Materials on the Standardization of DDT Analogs (Methoxychlor and DDD) in the Water of Open Reservoirs,"

Report presented at the 2nd All-Union Scientific Conference on the Hygiene and Toxicology of Pesticides, Ministry of Health USSR Committee on the Study and Regulation of New Poisonous Chemicals of the Main State Sanitary Inspection USSR and Kiev Institute of Labor Hygiene and occupational Diseases, Kiev 17-19 Oct 1962.
(Gigiyena i Sanitariya, No. 3, 1963 p. 104-105.)

Kiev Institute of Labor Hygiene and Occupational Diseases.

WAYSHTEYN, S.Ya., kand. med. nauk

Characteristics of waste waters from plants producing fertilizers and toxic chemicals. Khim. prom. [Ukr.] no.2:39-41 Ap-Je '63. (MIRA 16:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'-noy gigiyeny.

NAYSHTEYN, S.Ya.; DYATLOVITSKAYA, F.G.; LISOVSKAYA, E.V.; PETROV, Yu.L.; SURKINA, R.M.

Experimental basis for the permissible concentration of chlorophenylchlorobenzene sulfonate in open bodies of water. San.okhr.vod.ot zagr.prom.stoch.vod no.5:145-157 '62. (MIRA 17:6)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'noy gigiyeny.

NAYSHTUT, G.M.

Treatment of patients with chronic aneurysm of the heart in local sanatoriums. Vop. kur., fizioter. i lech. fiz. kul't. 26 no.3:233-238 My-Je '61. (MIRA 14:7)

1. Iz kardiologicheskogo sanatoriya "Podlipki" Moskovskogo territorial'nogo upravleniya kurortov, sanatoriyev i domov otdykha (glavnyy vrach V.K.Turgenev, nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. M.S. Vovsi [deceased]).
(ANEURYSMS) (HEART--DISEASES)

MAYSHTUT, Grigoriy Mikhaylovich, st. nauchn. sotr.; PRESSMAN, L.P., doktor med. nauk, red.

[Clinical instrumental examinations in cardiac insufficiency] Kliniko-instrumental'nye issledovaniia pri serdechnoi nedostatochnosti. Moskva, Meditsina, 1965. 69 p. (MIRA 18:6)

NAYSHTUT, Yu.S. (Kuybyshev)

"A successive approximation in the analysis of shells of complex form"

Report presented at the 2nd All-Union Congress on Theoretical and Applic. Mechanics, Moscow 29 Jan - 5 Feb 64

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136220(

USSR/Mathematics - Analysis

Card 1/1 Pub. 22 - 5/49

Authors : Nayshul', A. B.

Title : Linear functional problems

Periodical : Dok. AN SSSR 102/1, 21-23, May 1, 1955

Abstract : A series of theorems is presented giving the conditions under which differential equations of the following type have solutions and their number:

$$\frac{dr(x)}{dx} = A(x)\, r(x) + b(x),$$

satisfying the so-called functional condition

$$Q_0\, r(a) + \int_a^b dG(x)\, r(x) = \varphi,$$

where the Q and G(x) are quadratic matrices of the n-order. Three references: 1 Fr. and 2 USSR (1932-1950).

Institution : .....

Presented by : Academician A. N. Kolmogorov, December 27, 1954

NAYSHUL, A. B.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscwo, 1956, 237 pp.

Gurevich, B. L. (Odessa). New Space Types of a Basic and Generalized Functions and the Uniqueness Classes of Generalized Cauchy Problem. 114

Kovan'ko, A. S. (L'vov). On the Compactness of Systems of Continuous Functions. 114

Mukminov, B. R. (Odessa). Expansions in Eigen-functions of Dissipative Kernels. 114-116

Mention is made of Livshits, M. S.

Nayshul', A. B. (Moscow). Functional Problem for Ordinary Differential Equations. 116-117

There are 8 references, 2 of which are USSR, 2 French, 3 English, and 1 is a translation into Russian.

Nikol'skiy, V. N. (Kalinin). Operator Properties of Polynomials of the Best Approximation. 117-118

Card 37/80

NAYSHUL', A.B. (Moskva); SVETLITSKIY, V.A. (Moskva).

Determination of the domain of possible solutions for a system of linear differential equations. Prikl.mat.i mekh.20 no.1:144-147 Ja-F '56. (MLRA 9:5)

(Differential equations, Linear)

NAYSHUL', A.B.

Refinement of the convergence of successive approximation methods for linear equations. Dokl. AN SSSR 158 no.2:279-280 S '64. (MIRA 17:10)

1. Predstavleno akademikom A.Yu.Ishlinskim.

NAYSHULER, G.M., inzh.

Losses of power and voltage and their distribution in various sectors of the current conductor of the MVI gyrocompass. [Trudy] VNIMI no.47:367-372 '62 (MIRA 17:7)

GINBERG, A.M.; MAYSHULER, M.A.

Ultrasonic preparation of a magnesium oxide suspension in carbon tetrachloride. Zhur. prikl. Khim. 33 no.8:1729-1733 Ag '60. (MIRA 13:9)

(Magnesium oxide) (Ultrasonic waves) (Suspensions (Chemistry))

ACCESSION NR. AP4024766 S/0080/64/037/003/0553/0557

AUTHOR: Ginderg, A. M.; Nayshuller, M.A.

TITLE: Effect of the ultrasonic field on parkerizing and properties of phosphate coatings

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 3, 1964, 553-557

TOPIC TAGS: Ultrasound, parkerizing, phosphate coating, corrosion property, porosity, electrical stability, ultrasonic field

ABSTRACT: The possibility of intensifying the parkerizing process of ferrous metals and improving the physico-mechanical and corrosion properties of phosphate films with the aid of ultrasonics was studies. The possibility of substituting the sandblast treatment of the surface of products, which was usually employed before parkerizing and provided the best results, is studied with ultrasound parkerizing. The superimposition of the ultrasonic field during parkerization makes it possible to precipitate qualitative phosphate films in steel without sandblast treatment. The phosphate films obtained in the ultrasound field with 16-22 kc frequency for 40-60 minutes are less porous and differ by more highly

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ACCESSION NR: AP4024766

anti-corrosive properties, electrical stability, and finer structure. Parkerization in the ultrasonic field makes it possible to obtain a coating with the same (and in many cases superior) properties as coatings obtained in steel with preliminary sandblasting. Orig. art. has: 2 tables, 5 figures

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 16Apr64 ENCL: 00

SUB CODE: CH, EL NO. REF. SOV: 000 OTHER: 000

Card 2/2

NAYVEL'T, E. H.

VOLODARS'KA, D.M.; GOROKHOVS'KYY, M.E.; KONDRAT'YEV, S.F.; PRAKHOV, M.M.; KOVPAKENKO, T.M.; SUKHENKO, Ye.K.; LYASHEVS'KA, V.F.; ZHEL'NIO, T.M.; KHIVRICH, G.K.; GEORGIYEVSKYY, M.I.; NAYVEL'T, E.M.; DENISENKO, L., veduchiy redaktor; PATSALYUK, P., tekhnichniy redaktor

[Hints for everyday living] Pobutovi porady; Vyd. 3-ie, vypr. i dop. Kyiv, Derzh. vyd-vo tekhn.lit-ry URSR, 1957. 184 p.
(Home economics) (MIRA 10:8)

SYPCHENKO, G.I. [Sypchenko, H.I.]; MAL'TSEV, N.N. [Mal'tsev, M.N.]; TKACHUK, V.P.; KOVAL'CHUK, L.S.; MAZVELIS, V.M.

Application of various methods for measuring acetaldehyde concentration in water solutions. Khim. prom.[Ukr.] no.1:64-66 Ja-Mr '65. (MIRA 18:4)

NAYVEL'T, Z. (Kiyev)

Advertising in the wholesale trade. Sov. torg. 35 no.12:51-52 D '61. (MIRA 14:11)

1. Nachal'nik otdela organizatsii torgovli Ukroptgalanterei, g. Kiyev.

(Advertising--Wholesale trade)

HAYVIDELENE, B.

Fundus oculi in hypertension. Sovet. med. 16 no. 8:32-33 Aug 1952. (CIML 23:3)

1. Of the Department of Eye Diseases (Head -- Docent P. Pakonaytis), Vil'nyus State University.

HAYVIRT, Karel, professor

Development and present state of urology in Czechoslovakia. Urologiia no.4:77-83 O-D '55. (MLRA 9:12)

1. Zav. urologicheskoy klinikoy meditsinskogo fakul'teta v Brno. Predsedatel' Chekhoslovatskogo urologicheskogo obshchestva.
(UROLOGY,
in Czech.)

NAYYER, V.A., kand.tekhn.nauk; ROZHENTSEVA, S.A., inzh.

Semiconductor cooler for liquids. Khol.tekh. 40 no.1:20-23 Ja-F '63. (MIRA 16:3)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti.
(Refrigeration and refrigerating machinery) (Thermistors)

HAYZELIS, M.N., kand.med.nauk

Effect of intravascular injections of pyramidon on kidney function. Vrach.delo supplement '57:98 (MIRA 11:3)

1. Kafedra patologicheskoy fiziologii (zav.-prof. I.I.Fedorov) L'vovskogo meditsinskogo instituta.
(AMINOPYRINE) (KIDNEYS)

NAZAGOV, A. I. and FINKELSTEIN, I. I.

"The size of the load in the feeding cylinder of a carding machine," published by State Publishing House of Light Industry, page 14.

SO: Textile Industry, Moscow 1955.

BILEK, Vatslav, inzhener; BLATTNYY, TStibor, inzhener, doktor; BROZHEK, Karl, inzhener; DOGHAL, Lyudvig; GLAVACHEK, Frantishek; LGOTSKIY, Alois, inzhener, doktor; MAKHAT, Frantishek; HAZAL, Yaroslav; OSVAL'D, Vladimir, inzhener; MUZHICHKA, Koymir, inzhner; [illegible], Vatslav, inzhener, doktor; TRKAN, Miroslav, inzhener; ZHILA, Vladimir; SHKOP, Ya., inzhener [translator]; MEDINTSEV, M., inzhener, [translator]; MASLOVA, Ye.F., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor.

[Techology of malt and beer] Tekhologiia soloda i piva. Avtorskii kollektiv Vatslav Bilek i dr. Avtoriz. perevod s cheshskogo IA. Shkopa i M. Medintseva. Moskva, Pishchepromizdat. Vol. 1. [Malt production] Proizvodstvo soloda. Translated from the Czech. 1957. 285 p. (MLRA 10:6)

(Malt)

NAZALEV, ANDREEV

Developing the Short-wave Activity. "RADIO" Ministry of Communications, #11:13:Nov. 55

NAZAR, Krystyna; POCZTARSKA, Jolanta

Changes in the excretion of 17-ketosteroids and uropepsin in emotional states in various stages of development. Acta physiol. pol. 14 no.5:503-515 S-O'63

1. Z Zakladu Fizjologii Pracy PAN; z Zakladu Fizjologii INKF w Warszawie; kierownik; prof.dr. Wl.Missiuro.

*

NAZAR, Krystyna

Changes in the level of 17-hydroxycorticosteroids in the blood plasma under the influence of muscular work. Acta physiol. Pol. 16 no.2:195-206 Mr-Ap'65.

1. Z Zakladu Fizjologii Pracy Polskiej Akademii Nauk (Kierownik: prof. dr. Wl. Missiuro).

GALUSZKA, Jan; NAZAR, Tadeusz; SZAFLARSKI, Jerzy; WACLAWEK, Dorota

Sabin-Feldman toxoplasmin color reaction in dogs in Krakow. Wiadomosci parazyt., Warsz. 6 no.5:425-427 '60.

1. Pracownia toksoplazmozy Wojewodzkiej Przychodni Immunopatologii Ciazy i Noworodka i Wojewodzki Zaklad Higieny Weterynaryjnej, Katowice (Doniesienie tymczasowe)
(TOXOPLASMOSIS immunol)

NAZARANKA, B., arkhitektor

Cosiness of our apartments. Rab. i sial. 35 no.10:23 '59. (MIRA 13:2)

(Interior decoration)

NAZARBEGOV, V.Ye.

Selecting the method for the construction of railroad tunnels. Trudy GPI [Gruz.] no.7:115-127 '63. (MIRA 18:6)

NAZARBEGOV, Vakhtang Yevstaf'yevich

[Railroad tunnels] [Zheleznodorozhnye tonneli. Tbilisi, Ganatleba] 1965. 151 p. [In Georgian] (MIRA 18:8)

NAZARCHIK, A.F.

TERPOGOSOV, Z.A.; NAZARCHIK, A.F.

Mastering the technique of narrow vein sectional mining.
Trudy Inst.gor.dela 1:59-68 '54. (MLRA 7:12)
(Mining engineering)

NAZARCHIK, A.F., kandidat tekhnicheskikh nauk.

In the quest of effective methods for exploiting mineral deposits; the all-Union scientific-technological conference. Vest.AN SSSR 26 no.11:110-112 N '56. (MLRA 9:12)
(Baley--Mining engineering--Congresses)

NAZARCHIK

SKOCHINSKIY, A.A.; TERPIGOREV, A.M.; SHEVYAKOV, L.D., SERGEYEV, A.A.; ZAKHAROV, P.A.; USKOV, S.I.; AGOSHKOV, M.I.; MEL'NIKOV, N.V.; BRONNIKOV, D.M.; YEMIEEYEV, N.B.; PROTOPOPOV, D.D.; SUDOPLATOV, A.P.; BARON, L.I.; MAN'KOVSKIY, G.I.; NAZARCHIK, A.F.; TERPOGOSOV, Z.A.; BARSUKOV, F.A.; POMORTSEV, A.D.; DEMIDYUK, G.P.; MOLCHANOV, P.V.; MAKSIMOVA, Ye.P., GRIBIN, A.A.; BARONENKOV, A.V.; SINDAROVSKIY, N.S.; BOGOMOLOV, V.I.; KHODOV, L.V.; MOSKAL'KOV, Ye.F.; GONCHAROV, T.I.

Aleksandr Vasil'evich Kovazhenkov; obituary. Bezop. truda v prom. 1 no.12:35 D '57. (MIRA 12:3)
(Kovazhenkov, Aleksandr Vasil'evich, 1906-1957)

SKOCHINSKIY, A.A.; TERPIGOREV, A.M.; SHEVYAKOV, L.D.; AGOSHKOV, M.I.; KEL'NIKOV, N.V.; BRONNIKOV, D.M.; YENIKEYEV, N.B.; NAZARCHIK, A.F.; TERPOGOSOV, Z.A.; BARSUKOV, F.A.; SEREBRYAKOV, A.A.; PROTOPOPOV, D.D.; SUDOPLATOV, A.P.; BARON, L.I.; MAN'KOVSKIY, G.I.; POMORTSEV, A.D.; DEMIDYUK, G.P.; KAPITANOV, T.V.; MOLCHANOV, P.V.; MAKSIMOVA, Ye.P.; GRIBIN, A.A.; BARONENKOV, A.V.; SINDAROVSKIY, N.S.; BOGOMOLOV, V.I.; KHODOV, L.V.; MOSKAL'KOV, Ye.F.

Aleksandr Vasil'evich Kovazhenikov; an obituary. Gor. zhur. no.12: 72 D '57. (MIRA 11:1)

(Kovazhenkov, Aleksandr Vasil'evich, d. 1957)

A.F. Nazarchik

18(5) PHASE I BOOK EXPLOITATION SOV/1944

Akademiya nauk SSSR. Institut gornogo dela

Nauchnye problemy vskrytiya i razrabotki mestorozhdeniy poleznykh ishopaemykh (Scientific Problems in Developing and Exploiting Mineral Deposits) Moscow, Izd-vo AN SSSR, 1959. 333 p. 3,000 copies printed. Errata slip inserted.

Resp. Ed.: N.V. Mel'nikov, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: Ts.P. Vasil'yev; Tech. Ed.: F.S. Khabina.

PURPOSE: This book is intended for coal and ore mining engineers.

COVERAGE: The collection of articles reports on the results of scientific studies conducted by members of the Institute of Mining Industries of the AN SSSR on problems of developing and exploiting coal and ore deposits. The book is divided into two parts. Part I discusses the development and exploitation of coal deposits, the trends in developing underground and surface exploitation methods, the scientific bases and principles applied in selecting exploitation methods for different natural conditions, the determination of the basic elements in the use of modern mechanized equipments in underground development, and the preparation and exploitation of coal. Part II is devoted to problems in the development and exploitation of ore deposits, the draining and mining methods used in underground exploitation of deposits in the area of the KMA (Kursk Magnetic Anomaly), the open pit mining method used in exploiting the rich KMA ores, the determination of size of ore, and further ore dressing. The book is dedicated to Academician Lev Dmitriyevich Shevyakov, mining engineer. The articles are accompanied by diagrams, tables, and bibliographic references.

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Scientific Problems (Cont.) SOV/1944

PART II. PROBLEMS IN THE DEVELOPMENT AND EXPLOITATION OF ORE DEPOSITS

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Nazarchik, F.F.

14(5) PHASE I BOOK EXPLOITATION SOV/1944

Akademiya nauk SSSR. Institut gornogo dela

Nauchnye problemy razrabotki mestorozhdeniy poleznykh ikopaemykh (Scientific Problems in Developing and Exploiting Mineral Deposits) Moscow, Izd-vo AN SSSR, 1959. 333 p. 3,000 copies printed. Errata slip inserted.

Resp. Ed.: N.V. Mel'nikov, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: Ye.F. Vasil'yev; Tech. Ed.: F.S. Kachina.

PURPOSE: This book is intended for coal and ore mining engineers.

COVERAGE: The collection of articles reports on the results of scientific studies conducted by members of the Institute of Mining Industries of the AN SSSR on problems of developing and exploiting coal and ore deposits. The book is divided into two parts. Part I discusses the development and exploitation of coal deposits, the trends in developing underground and surface exploitation methods, the scientific bases and principles applied in selecting exploitation methods for different natural conditions, the determination of the basic elements in the use of modern mechanized equipments in underground development, and the preparation and exploitation of coal. Part II is devoted to problems in the development and exploitation of ore deposits, the draining and mining methods used in underground exploitation of deposits in the area of the KMA (Kursk Magnetic Anomaly), the open pit mining method used in exploiting the rich KMA ores, the determination of size of ore, and further ore dressing. The book is dedicated to Academician Lev Dmitriyevich Shevyakov, mining engineer. The articles are accompanied by diagrams, tables, and bibliographic references.

TABLE OF CONTENTS:

Scientific Problems (Cont.) SOV/1944

Card 6/7

NAZARCHIK, Aleksandr Fedorovich; AGOSHKOV, M.I., otv.red.; MAKOVSKIY, O.M., red.izd-va; RYLINA, Yu.V., tekhn.red.

[Ore dilution in mining vein deposits] Razubozhivanie rudy pri razrabotke zhil'nykh mestorozhdenii. Moskva, Izd-vo Akad.nauk SSSR, 1960. 110 p. (MIRA 14:2)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining engineering)

AGOSHKOV, M.I., prof.; MUKHIN, M.Ye., kand.tekhn.nauk; NAZARCHIK, A.F., kand.tekhn.nauk; MAMSUROV, L.A., gornyy inzh.; RAFIYENKO, D.I., gornyy inzh.; SERGEYEV, A.A., otv.red.; SLAVOROSOV, A.Kh., red. izd-va; BOLDYREVA, Z.A., tekhn.red.

[Systems of mining vein deposits] Sistemy razrabotki zhil'nykh mestorozhdenii. Pod obshchei red. M.I.Agoshkova. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 375 p. (MIRA 14:1)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Mining engineering) (Ore deposits)

AGOSHKOV, M.I.; NAZARCHIK, A.F., kand.tekhn.nauk

Reducing stoping labor in working vein deposits. Nauch.soob. Inst.gor.dela 5:3-11 '60. (MIRA 15:1)

1. Chlen-korrespondent AN SSSR (for Agoshkov).
(Stoping (Mining))

88606

S/127/60/000/005/001/008
B012/B058

AUTHORS: Agoshkov, M. I., Corresponding Member AS USSR, and Nazarchik, A. F., Candidate of Technical Sciences (Lyubertsy, Moskovskaya oblast')

TITLE: New Technology of Excavation for the Mining of Vein Deposits

PERIODICAL: Gornyy zhurnal, 1960, No. 5, pp. 14 - 18

TEXT: Since 1951 the tin mines of the Khrustal'ninskiy kombinat Primorskogo sovnarkhoza (Khrustal'nyy Combine of the Primorskiy sovnarkhoz) jointly with the Institut gornogo dela AN SSSR (Mining Institute AS USSR) have been engaged in improving the processes applied for the mining of vein deposits. The following mining systems were elaborated in the course of these activities: mining with ore storing in layers; mining with complete storing and stull timbering; mining with divided mining of the ore and with storing of the debris; downcast excavation with gob flushing and with filling of the mined space. Drilling and blasting operations were also improved. Compared with 1951, the efficiency of a team was trebled at the beginning of

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1959. Moreover, experiments were made, using bore holes of smaller diameter (34 to 36 mm) for mining in a narrow working space. 1957 to 1958 new variants of ore drawing from the blocks were elaborated: drawing over ore chutes to the drift ground and subsequent transportation to the lower horizon by means of scrapers; drawing by means of closely spaced drawing chutes. Both variants proved to be suitable. At the same time, attempts were made to organize the work in such a way that one brigade should carry out the biggest number of mining processes, and a maximum interchangeability of laborers should be achieved. After drawing up the plan and fixing the processes, experimental work was conducted in April 1959 in the Khrustal'nyy mine on some blocks of the Volkovskaya vein. The comprehensive brigade under direction of Brigade Leader M. N. Boyko mined 40-m high and 60-m long blocks according to the ore-storing process with continuous drift line along the entire block (Fig. 1). The holes were drilled in the Krivoy Rog with the new telescopic overspeed perforator ПТ-29 (PT-29) from the zavod "Kommunist" ("Kommunist" Plant). The rate of drilling was 48 to 49 cm/min. The holes were simultaneously drilled to a depth of 1.8 m with 4 to 5 perforators. The holes were arranged in three rows like a chess-

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board pattern with a distance of from 0.5 to 0.6 m between rows. The distance between the holes was 0.6 to 0.7 m, as usual. The output increased to 10 to 13 m^3 per shift. The rate of drilling increased from 22 to 49.2 cm/min after using core bits of 36 mm diameter (instead of 44 mm). The drift was thus driven at a rate of about 40 m per month, which is unprecedented for the mining of vein deposits in the USSR. In conjunction with the reduced diameter, the use of the new cruciform core bits with interrupted cutting edge from the experimental batch produced by the Kiyevskiy eksperimental'nyy zavod tverdosplavnogo i almaznogo instrumenta (Kiyev Experimental Plant for Hard Alloy and Diamond Tools) was of great influence on the reduction of the bulk of work. The holes in the experimental blocks were blasted with the new explosive Detonit. The mined ore was drawn by means of drawing chutes arranged along the entire block length without interspaces (Fig. 1). The new process was completely adopted by the Tsentral'nyy Mine in December 1959, as well as by the Primorskiy Mine of the kombinat Sikhali (Sikhali Combine) and the Verkhne-Kentsukhinskiy Mine of the kombinat Dal'olovo (Dal'olovo Combine). There are 3 figures, 1 table, and 1 Soviet reference.

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ASSOCIATION: Institut gornogo dela AN SSSR, Lyubertsy, Moskovskoy obl. (Mining Institute AS USSR, Lyubertsy, Moskovskaya oblast')

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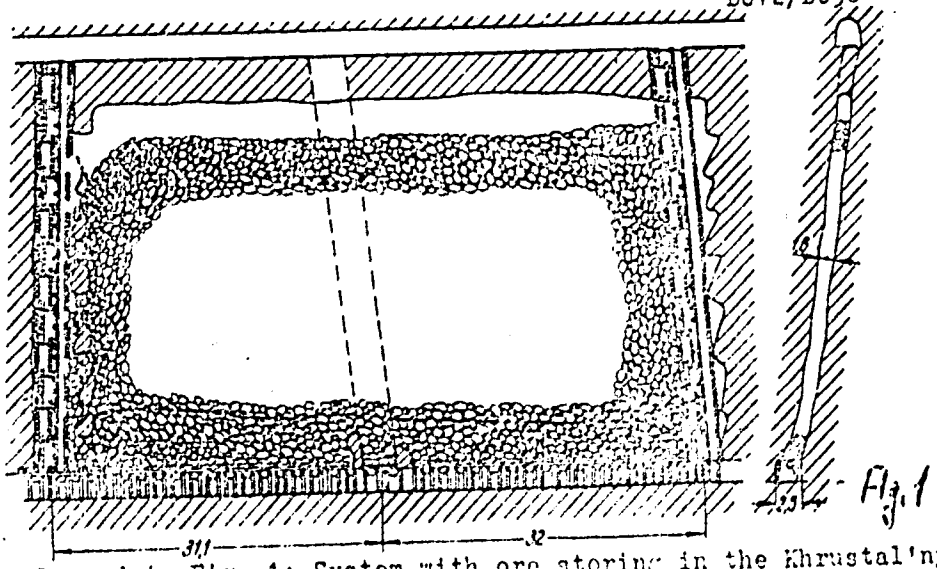

Fig. 1

Legend to Fig. 1: System with ore storing in the Khrustal'nyy mine.

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NAZARCHIK, A.F., kand. tekhn. nauk; CHUDAKOV, V.V., gornyy inzhener

Studying the stoping rate in developing vein deposits. Nauch. soob. IGD 11:38-47 '61. (MIRA 16:4)

(Stoping(Mining))

NAZARCHIK, A.F., kand.tekhn.nauk

Study of labor consumption in development and cutting operations in working vein deposits. Nauch. soob. IGD 17:27-40 '62. (MIRA 16:7)
(Mining engineering--Labor productivity)

NAZARCHIK, A.F., kand.tekhn.nauk; CHUDAKOV, V.V., gornyy inzhener

Features of breaking and shattering rock by blasting in a narrow stope. Vzryv. delo no.50/7:148-152 '62. (MIRA 15:9)

1. Institut gornogo dela imeni A.A. Skochinskogo.
(Blasting)

SEMEVSKIY, V.N., doktor tekhn. nauk; BRONNIKOV, D.M., doktor tekhn. nauk; NAZARCHIK, A.F., kand. tekhn. nauk

"rapid drifting" by B.I. Nifontov. Gor. shur. no.10:79-80 O '63. (MIRA 16:11)

SAVCHENKO, D.S.; NAZARCHUK, A.P., kandidat sel'skokhozyaystvennykh nauk; BOBOROVA, G.K., redaktor; TISHEVSKIY, I.I., tekhnicheskiy redaktor

[Raising 48.6 centers of millet per hectare] 48,6 tsentnera prosa s gektora. [Moskva, Izd-vo Ministerstva sel'skogo khoziaistva SSSR, 1956] folder (4 p.) (MIRA 10:1)
(Millet)

RAPOPORT, G.N.; NAZARCHUK, A.T.

Effect of the phase velocity gradient on the self-excitation of a backward-wave tube. Radiotekh. i elektron. 7 no.3:460-463 Mr '62. (MIRA 15:2)

(Traveling--Wave tubes)

VSEKHSVYATSKIY, S.K.; NAZARCHUK, G.K.; VODOP'YANOVA, T.V.

Mrkos' comet (1955b). Astron.tsir. no.162:8-9 Ag '55. (MLRA 9:5)

1. Kafedra astronomii Kiyevskogo gosudarstvennogo universiteta, Kiyev.

(Comets--1955)

KAZARCHUK

KAZYUTINSKIY, V.V.; KAZARCHUK, O.K.

Observations of Arend-Roland's comet (1956 h) in Kiev. Astron. tsir. no.183:2-3 Jl '57. (MIRA 11:3)

1. Kiyevskiy gosudarstvennyy universitet, kafedra astronomii. (Comets--1956)

S/035/61/000/011/020/028
A001/A101

AUTHOR: Nazarchuk, O. K.

TITLE: Accelerations in the tail of the comet 1956 h (Arend-Roland)

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 11, 1961, 73, abstract 11A533 ("Visnyk Kyivs'k. un-tu", 1958, no. 1, ser. astron., matem. ta mekhan., no. 2, 153-157, Ukrainian, Russian summary)

TEXT: Accelerations were determined in the tail of the comet 1956 h from the motion of cloudy formations and non-homogeneities in it. Accelerations of particles in the comet tail were determined by A. Ya. Orlov's method on 27 and 30 April and 2 May. The results obtained show that repulsive forces of the order of 1,000 units of solar attraction acted upon the particles in the comet tail. Speeds of the particles in the tail increased with increasing radius-vector. Accelerations of the repulsive force at first increased and then decreased with increasing radius-vector of the particle. A further investigation of this problem has shown that high accelerations of the particles in the comet tail may be caused by the effect of a corpuscular stream at the base of which was a prominence.

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Accelerations in the tail...

Identification of the prominence with the position of the comet was carried out by projecting the comet on the Sun's disk. There are 6 references.

Author's summary

[Abstracter's note: Complete translation]

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