"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

KALYATSKIY, I.I.; DUL'ZON, A.A.; ZHELEZCHIKOV, B.P.

Distortion of high-voltage monopolar pulses in a coaxial cable. Izv. SO AN SSSR no. 10. Ser. tekh. nauk no. 3:151-154 '65 (MIRA 19:1)

1. Tomskiy politekhnicheskiy institut. Submitted February 16, 1965.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZINA, I.I.

Quasi-non-Euclidean line geometry as a complex Euclidean geometry. Uch. zap. MGPI no. 243:233-240 '65 (MIRA 19:1)

Galilean line geometry as a dual Euclidean geometry. Ibid.: 241-247.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

~~ZHELEZINA, I.I.~~ ZHELEZINA I. I.

SUBJECT USSR/MATHEMATICS/Geometry CARD 1/2 PG - 603
AUTHOR ŽELEZINA I.I.
TITLE Line-geometry of degenerated non-Euclidean spaces.
PERIODICAL Doklady Akad.Nauk 106,6,959-962 (1956)
reviewed 2/1957

Moscow State Pedagogical Inst. im V. I. Lenin.

The real projective space P_3 can become a metric space by preference of two absolute planes E_1, E_2 and two absolute points P_1 and P_2 on the line of intersection $g = E_1 \cdot E_2$. According to the fact if E_1, E_2 and P_1, P_2 are assumed real or conjugate complex, there exist four types of spaces. For a suitable choice of the coordinates the motions can easily be written in matrices in all four geometries. The author considers especially all straight lines of P_3 which do not meet g. These lines depending on ∞^4 real parameters, can be fixed by their intersection points with E_1 and E_2 and therewith they can be mapped onto the points of the so-called pseudo-Euclidean planes. Here three types are appearing which are denoted with $R_2(e)$, $R_2(i)$, ${}^1R_2(e)$. Here the notations are chosen such that R_2 is the ordinary Gaussian plane and ${}^1R_2$ is the plane of the elements $\alpha = a+be$ $(e^2=1)$ (a and b real numbers). $R_2(i)$ and ${}^1R_2(e)$ arise herefrom by assuming the a and b to be not real but complex resp.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

elements of the system with the unities 1, e. Now $R_2(i)$ is the system of the elements: $\alpha = (a+bj)+i(c+dj)$ $(i^2=j^2=-1,\ ij = ji)$ and ${}^1R_2(e)$ is that of the elements: $\alpha = (a+bf)+e(c+df)$ $(e^2=f^2=1,\ ef = fe)$. As the fourth system there appears the set of all elements $\alpha = (a+bi)+e(c+di)$ $(i^2=-1,\ e^2=1,\ ie = ei)$ which, according to the sense, is denoted with ${}^1R_2(i)$. But if ie is written as j, then the systems ${}^1R_2(i)$ and $R_2(i)$ are isomorphic.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZINA, I.I.

Motion of regenerate non-Euclidean spaces. Uch. zap. Novosib. gos. ped. inst. no.18:31-39 '63. (MIRA 17:10)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEVA, M.

Some new species of Oribatei (Acarina) for the fauna of Bulgaria. Godishnik biol 56 no.1:133-139 '61-'62 [publ. '64].

1. Chair of Invertebrate Zoology of the Faculty of Biology, Geography, and Geology of the University of Sofia, Sofia (Head of the Chair: Prof. G.Kozarov).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

IANCHEVA, B.; DANOV, At.; ZHELEVA, M.; NITSOVA, P.; KHRISTANOVA, Tsv.; MESARSKI, N.; MIRCHEVA, M.

Antigenic content and immunogenic activity of typhous suspensions obtained through submerged cultivation with aeration. Nauch trud Inst kontrol lek 1:21-29 '63.

1. Scientific Research Institute for the State Control of Drugs, Sofia (for IAncheva, Danov, Zheleva, and Nitsova). 2. Scientific Research Institute of Epidemiology and Microbiology, Sofia (for Khristanova, Mesarski, and Mircheva).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZKO, B.Ye.

Cooling of an internal combustion engine. Vestsi AN BSSR.Ser.fiz.-tekh.nav. no.1:138-140 '62. (MIRA 16:9)
(Gas and oil engines—Cooling)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZKO, B.Ye.

Experimental study of ejector cooling of an engine. Inzh.-fiz. zhur. 5 no.1:79-84 Ja '62. (MIRA 15:3)

1. Institut energetiki AN BSSR, Minsk.
(Gas and oil engines--Cooling)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.I., kand.med.nauk

Cytological examination method in gynecology and obstetrics. Sov.med. 23 no.9:70-77 S '59. (MIRA 13:1)

1. Iz patomorfologicheskoy laboratorii (zav. - prof. Ye.N. Petrova) Instituta akusherstva i ginekologii (dir. - dotsent L.G. Stepanov) Ministerstva zdravookhraneniya RSFSR.
(VAGINAL SMEARS)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

KOLESNIKOV, Aleksandr Ivanovich, doktor sel'khoz.nauk, prof.(1888-); ZHELEZNOV, G.F., red.; CHUGUNOVA, Z.S., red.izd-va; BACHURINA, A.M., tekhn.red.

[Pine Pinus pityusa and related species; on the pines Pinus pityusa, P. eldarica, P. brutia and P. halepensis] Sosna pitsundskaia i blizkie k nei vidy; o sosnakh pitsundskoi, el'darskoi, brutskoi i alepskoi. Moskva, Goslesbumizdat, 1963. 173 p. (MIRA 17:3)

1. Direktor po nauchnoy chasti Abkhazskoy nauchno-issledovatel'skoy lesnoy opytnoy stantsii v g. Ochamchire Abkhazkoy ASSR (for Kolesnikov).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, N. A.

N. A. ZHELEZNOV, "Stochastic signals with unbounded spectrum having potentially the greatest possible information transport." Scientific Session Devoted to "Radio Day", May 1958, Trudrezervizdat, Moscow, 9 Sep. 58

An essential parameter in the theory of signals based on a new stochastic model in which the condition of boundedness of the spectrum is not included in the correlation interval. One of the important problems of developing the theory is to investigate the dependence of the correlation interval on the characteristic of the signal energy spectrum.

Theorems are established on the relation of the correlation interval to the effective frequency band of the mean power spectrum and on the properties of signals having the greatest number of uncorrelated elements (degrees of freedom).

It is shown that stochastic signals possessing potentially the greatest possible information transport consist of elementary, abutting signals of rectangular shape whose duration equals the correlation interval and whose "amplitudes" are not correlated.

A comparison of the results obtained with the conclusions of Gabor, who investigated the question of the miniumu area on a "frequency-time" diagram when treating signals as a determined process, shows that taking the stochastic nature of the signals into account leads to completely different conclusions.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZKO, K.V.

Study of new antigens for the diagnostic skin test in various forms of dysentery. Sov. med. 24 no. 2:75-79 F '60.
(MIRA 14:2)

1. Iz kafedry infektsionnykh bolezney (zav. - dotsent V.A. Matsiyevskiy) Stanislavskogo meditsinskogo instituta (direktor-dotsent G.A. Babenko).
(DYSENTERY) (SKIN)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZKOV, P.S.

7

The carbide method for determining moisture. P. S. Zhelezkov. *Chemization Socialistic Agr.* (U. S. S. R.) 1936, No. 10, 101-14.—The two methods for detg. H_2O with carbide are: (1) a steel container with a gage for measuring the gas pressure, the gage having been calibrated with definite quantities of water reacting with carbide; (2) an Al container in which the C_2H_2 is generated, weighed, the gas released and the container weighed again. From the wt. of C_2H_2 the quantity of water in the sample is calcd. The moisture in soil, preserved fish and other substances were detd. J. S. Joffe

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

CA

Tensile strength of agar gels. P. S. Zhelezkov. *Colloid J.* (U. S. S. R.) 4, 523-31(1938). The strength, P, of a gel contg. 0.3-1% of agar is $P = P_0K^n$; P_0 and K are consts. characterizing the app. and the agar, resp., and n is the percentage of agar. Heating of agar with H_2O at 80° does not affect P, but heating with dil. citric acid, also in presence of sugar, lowers P; this lowering increases with duration of heating. J. J. Bikerman

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

2

1a

The relations between the freezing out and the concentration of the gels of agar-agar. P. S. Shalashov. Colloid J. (U. S. S. R.) 5, No. 5, 409-10(1939); Khim. Referat. Zhur. 1939, No. 9, 11; cf. C. A. 33, 6121[1]; 34, 924[2].—Gels from the Japanese and the Archangel agar-agar with concns. of 0.3-2% were frozen out at −24° and −8° for 24 hrs. The percentage of water that sepd. on the melting of the gel at room temp. decreased with increase in the concn. of the gels. W. R. Henn

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CA

2

Effect of sugars, alcohols, anions of organic acids, and of pH on the rigidity of agar gels. P. S. Zheleskov. Colloid J. (U. S. S. R.) 5, 733-40(1939); cf. C. A. 33, 6121[1]. —The rigidity of 0.75% agar gels increases on addn. of p% of EtOH, glycerol, glucose or sucrose by 2p%, 1.3p%, 1.1p% and 0.9p%, resp. These substances also lower the reduction of the rigidity produced by heating agar to 75°. Acids increase the rigidity in the order Na citrate > Na tartrate > Na malate > Na acetate. In presence of citric acid the highest rigidity is observed at pH = 3.6; in these expts. the acid must be added immediately before gelation.

J. J. Bikerman

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

COMMON VARIABLES INDEX

OPEN

MATERIALS INDEX

AUTHOR INDEX

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

12

CA

Determination of acidity as hydrogen (sH). P. S. Zhelezkov. *Konservnaya i Plodoovoshchnaya Prom.* 10, No. 6, 27-8(1939); *Chem. Zentr.* 1940, I, 1588.—In food investigations the acidity should not be referred to a definite acid since only the replaceable H (sH) is detd. It is proposed that the titration acidity be reported in terms of % or mg H. H. E. Wirth

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Ca

25

Study of the gelation behavior of agar. P. S. Zhelezkov. *Konservnaya i Plodoovishchnaya Prom.* 10, No. 6, 30-[illegible] (1939).—The 8-hr. soak usually recommended for prepg. agar is not only unnecessary but means loss of the most sol. agar fraction. Gelation behavior is needlessly impaired by this loss. Agar gels are stabilized by alcs. and sugars against hydrolytic degradation. Julian F. Smith

COMMON ELEMENTS

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

2

Ca

Effect of salts and pH on the freezing out of agar-agar gels. P. S. Zhelezkov. *Colloid J.* (U. S. S. R.) 6, 403-7 (1940); *C. A.* 34, 5721[8].—At 0.2 *N*, solns. of org. salts in agar-agar gels noticeably decrease, and similar solns. of inorg. salts considerably increase, the fraction freezing out of agar-agar gels. The freezing out of gels depends on salt concn.; gels 0.1 *N* in NaCl and $NaNO_3$ freeze out 20% more than the control contg. no salts. The fraction freezing out at pH 8 was the least; at pH 1.58 it was 22% more, and at pH 11.1 it was 18% more than at pH 8.

A. A. Podgorny

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZKOV, P. S.

"The Problem of Computing the Titrable Acidity according to the Sum Total of Hydrogen Ions," Zhur. Obshch. Khim., 10, No. 3, 1940. The All-Union Scientific-Research Institute of the Refrigeration Industry Moscow. Received 3 August 1939.

[redacted] Report U-1526, 24 Oct 52.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

2

Diffusion through a binary osmotic membrane. P. S. Zheleznov. *J. Applied Chem.* (U.S.S.R.) 20, 911-13 (1947) (in Russian).—The binary membrane was produced by depositing $Cu_2Fe(CN)_6$ on a parchment membrane, characterized by a rate of filtration of H_2O of 0.080 g./sq. cm./hr., and which, in a 4-hr. osmosis expt. between a satd. NaCl soln. and a 60% sucrose soln., at equal hydrostatic pressures on both sides, was permeable to NaCl to the extent of 0.088 g., to sucrose 0.013 g., and to H_2O 0.204 g. After deposition of the $Cu_2Fe(CN)_6$, the figures were: filtration of H_2O 0.022 g., osmosis of NaCl 0.068 g., sucrose none, H_2O 0.212. Other samples of parchment gave closely similar results. Thus, the binary membrane has become both less porous (with respect to filtration of H_2O) and somewhat less permeable to NaCl, entirely impermeable to sucrose and much more highly permeable to H_2O. N. Thon

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZKOV, P.S. (g. Kuybyshev).

Preparation and decomposition of copper saccharate. Khim.v shkole 12 no.4:40-41 Jl-Ag '57. (MLRA 10:8)
(Saccharic acid)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

BELOV, S. V.; ZHELEZKOV, R. V.; POLYAKOV, N. T.; SIDOROV, N. V.

Radiometric determination of the isotope composition of cerium separated from fission products of heavy nuclei. Radiokhimiia 4 no.3:334-340 '62. (MIRA 15:10)

(Cerium—Isotopes) (Fission products)
(Isotope separation)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

38520

S/186/62/004/003/013/022
E075/E436

24.6210

AUTHORS: Belov, S.V., Zhelezkov, R.V., Polyakov, N.T., Sidorov, N.V.

TITLE: Radiometric method for the determination of isotopic composition of cerium separated from the fission products of heavy nuclei

PERIODICAL: Radiokhimiya, v.4, no.3, 1962, 334-340

TEXT: A method is described for the quantitative determination of the isotopes of radioactive Ce, isolated radiochemically from Ce^{141}, Ce^{143}, Ce^{144} and their filial isotopes Pr^{143} and Pr^{144}. To determine the activity of Ce^{144} and Pr^{144} from the β-ray spectra, a β-spectrometer was used with an anthracene crystal and photomultiplier. Determinations of Ce^{141} and Ce^{143} were carried out using a scintillation γ-spectrometer. Analysis of impulse amplitudes was realized with a multichannel analyser АИ-100 (AI-100). The total activity of the products was measured with the 4-π-counters. The formula for the calculation of the activity of Ce^{144} is $A = K_{144} \times N_{144}$, where N_{144} is the total number of impulses/min registered in 53 to 100-m channels. The

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

value of K_{144} was found to be 18.9 ± 1.2. The activity of Ce^{143} was calculated by formula $A = K_{143} \times N_{143}$, in which K_{143} was found to be $(1.05 \pm 0.05) \times 10^2$. A similar formula was used for Ce^{141}, where K_{141} was $(1.40 \pm 0.08) \times 10^2$. Activity of Pr^{143} was found either from that of Ce^{143}, taking into account the accumulation, or by calculation from the total activity, measured by the $4\text{-}\pi$-counter, of the combined activities of Ce^{141}, Ce^{143} and $Ce^{144} \longrightarrow Pr^{144}$. Errors in the determinations of the activities did not exceed ± 10%. There are 4 figures and 2 tables.

SUBMITTED: May 6, 1961

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

Zhelezkov, V.

ZHELEZKOV, V., inzh.

Using TL-3 pipe installing cranes in mounting span structures. Avt. dor. 21 no.1:30 Ja '58. (MIRA 11:1)
(Cranes, derricks, etc.)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZKOVA, N.F., inzh.

Sieve-plate column with a helical fluid flow. Khim.mash. no.2: 40 Mr '62. (MIRA 15:3)

(Plate towers)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

VAZINA, A.A.; FRANK, G.M.; ZHELEZNAYA, L.A.

Intermediate actin polymer. Biokhimiia 30 no.4:721-726 Jl-Ag '65. (MIRA 18:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

TSYURUPA, N.N.; ZHELEZNAYA, M.V.

Sedimentation analysis of highly dispersed suspensions. (MIRA 15:7)
Khim.prom. no.5:360-364 My '62.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

(Sedimentation analysis)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

TKACHEV, V.V., inzh.; SHOLENINOV, V.M., inzh.; Prinimali uchastiye: KONSTANTINOV, V.G.; LEVIN, L.Ya.; GRIGOR'YEVYKH, G.F.; ZAKHAROV, V.N.; ZHDANOV, L.A.; PUZANOV, N.A.; SUKHANOV, V.I.; VASIL'YEV, A.N.; ~~ZHELEZNAYA, P.T.~~; TUGARINOVA, Ye.A.; LEVKIN, A.S.; MOKIYEVSKIY, N.M.; SHAKHALOV, V.; SMIRNOV, A.I.

Developing the technology of producing a high-basicity open-hearth sinter. Stal' 25 no.8:683-686 Ag '65. (MIRA 18:8)

1. Cherepovetskiy metallurgicheskiy zavod (for Tkachev, Sholeminov).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

PROTOPOPOV, Vladimir Pavlovich; ZHELEZNAYA, T., red.; ZELENKOVA, Ye., tekhn.red.

[Heating furnaces] Pechnye raboty. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit.USSR, 1961. 125 p. (MIRA 14:6)
(Furnaces)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

considerably complicates the design of the [illegible]
[illegible] of the selected version of the optical system for a proton beam with a current

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

40740

S/120/62/000/004/006/047
E039/E420

24.6730

AUTHORS: Malyshov, I.F., Popkovich, A.V., Roshal', G.Ya., Zheleznikov, F.G., Lysov, A.V., Tsepakin, S.G., Solnyshkov, A.I., Boytsov, A.S., Astakhov, Ye.Ya., Mironov, B.V., Lapitskiy, Yu.Ya., Batalin, V.A., Khoroshkov, V.S.

TITLE: The electrostatic accelerator - Injector of the proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 37-45

TEXT: An electrostatic accelerator used as an injector in the 7.0 Gev proton synchrotron developed in 1956 by NIIEFA is described. The pressure chamber is 2200 mm in diameter and 7400 mm high and is intended for working pressures of up to 16 atm. Insulating gas is $N_2:CO_2$ mixture with a ratio of partial pressure of 3:1. The main column is of conventional segmented construction using polymethylmetacrylate. Values of the dependence of the voltage produced on the gas pressure shows that 4 MV is obtained at 6.5 atm and 5.7 MV at 16 atm and a relative humidity of $< 1\%$. The charge transporter belt is a six layer

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

fabric driven by a 3000 rpm 10 KW motor at 20 m/sec. The accelerating tube and its electrode system is described in detail: it is 300 mm inner diameter with 44 segments and the residual pressure is 2 to 5 x 10^{-6} mm Hg. A Penning type discharge is used in the ion source which provides 0.3 mA total ion current on continuous operation or 20 mA pulsed; the proton component being 10 to 12% and 65% respectively. The energy of the injected particles is stabilized to about 0.1%. Results of operation in 1960-61 show that beam currents of 4 to 5 mA are obtained at 4 MV. There are 10 figures and 1 table.

ASSOCIATIONS: Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury GKAE (Scientific Research Institute for Electrophysical Apparatus GKAE)
Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE)

SUBMITTED: April 6, 1962

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

MALYSHEV, I.F.; POPKOVICH, A.V.; ROSHAL', G.Ya.; ZHELEZNIKOV, F.G.; LYSOV, A.V.; TSEPAKIN, S.G.; SOLNYSHKOV, A.I.; BOYTSOV, A.S.; ASTAKHOV, Ye.Ya.; MIRONOV, B.V.; LAPITSKIY, Yu.Ya.; GATALIN, V.A.; KHOROSHKOV, V.S.

Electrostatic accelerator-injector in a proton synchrotron. Prib. i tekh. eksp. 7 no.4:37-45 Jl-Ag '62. (MIRA 16:4)

1. Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR i Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR.

(Particle accelerators) (Synchrotron)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

SOLNYSHKOV, A. I. ; KOMAROV, V. P.; KUZNETSOV, V. S.; ABROYAN, M. A.; IVANOV, N. F.
ZHELEZNIKOV, F. G.; ROYFE, I. M.; ZABLOTSKAYA, O. R.; IVLEV, I. V. ; LATMANISOVA, G. M.
and GERASIMOV, V. P.

Current Injector for a Strong Focussed Linac.

report presented at the Intl. Conf. on High Energy Accelerators, Dubna, August 1963.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

PHASE I BOOK EXPLOITATION SOV/6536

Val'ter, A. K., F. G. Zheleznikov, I. F. Malyshev, G. Ya. Roshal', A. N. Serbinov, A. A. Tsygikalo, and S. P. Tsytko

Elektrostaticheskiye uskoriteli zaryazhennykh chastits (Electrostatic Accelerators of Charged Particles) Moscow, Gosatomizdat, 1963. 301 p. 4700 copies printed.

Ed. (Title page): A. K. Val'ter, Academician, Academy of Sciences of the UkrSSR.

Ed.: A. V. Gorokhovskiy; Tech. Ed.: N. A. Vlasova.

PURPOSE: This book is intended for scientists, students, engineers, and technicians developing, utilizing, or studying high-potential engineering and acceleration of charged particles.

COVERAGE: This textbook on electrostatic generators is devoted chiefly to electrostatic accelerators intended for nuclear research.

Card 1/8

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

Sections 1—3 of Ch. I are written by A. K. Val'ter; Section 4 of Ch. I and Chs. II, V, and VII are written by A. A. Tsygikalo; Ch. III, by A. N. Serbinov; Ch. IV, by S. P. Tsytko; and Ch. VI, by I. F. Malyshev, F. G. Zheleznikov, and G. Ya. Roshal'. There are 182 references: 73 Soviet and 109 non-Soviet.

TABLE OF CONTENTS [Abridged]:

Foreword 3

Ch. I. Introduction
1. Short outline of the development of electrostatic generators 5
2. Application of accelerated particles for the investigation of atomic nuclei 8
3. Comparative evaluation of linear, cyclic, and electrostatic accelerators within the range of moderate energies 21
4. Application of electrostatic generators and accelerators in industry 31

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

Ch. II. Physical Elements of Operation of an Electrostatic Accelerator
1. Principle of operation and diagram of installation 37
2. Electric fields in the generator column 47
3. Electric field in the accelerating tube 57
4. Insulating medium 64
5. Electroinsulating properties of the vacuum 75

Ch. III. Sources of Charged Particles
1. Introduction 91
2. Ionization of rarified gases 94
3. Design of ion sources employed in electrostatic accelerators 105

Ch. IV. Measurement and Stabilization of Accelerating Voltage
1. Accelerated particles, distribution according to energy, and monoenergy or degree of precision 141
2. Requirements with regard to a beam of accelerated particles 143

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

3. Sources causing inhomogeneity of energy in the accelerated beam 146
4. Stabilization of accelerating voltage 148
5. Difficulties encountered while utilizing magnetic and electrostatic analyzers as sensing elements 151
6. Selection of a method for measuring the energy of accelerated particles and a system for stabilization of accelerating voltage 152
7. Stabilization system of the electrostatic accelerator of the FTI AN USSR 156
8. Calibration of the energy scale of the electrostatic accelerator 161
9. Experimental determination of the monoenergetic property of an accelerated particle beam 163

Ch. V. Modern Accelerators
1. Electrostatic accelerators for laboratory investigations in the field of nuclear physics 169

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

2. Accelerators employed in industry 191

Ch. VI. Electrostatic Accelerators Manufactured by Domestic Industry

General Information 200
1. Main characteristics 200
2. Construction of electrostatic accelerating installations 204

Design of Accelerator's Main Assembly 206
3. Charge transporter 206
4. Insulating supports and high-voltage electrodes 217
5. Voltage divider 222
6. High-voltage electrodes and equipotential rings 223
7. Inner equipment of a high-voltage electrode 224
8. Sources of charged particles 224
9. Accelerating tubes 237
10. Tanks 240
11. Tank equipment 242

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

Design of Ion Guide Equipment Assembly 245
12. Preliminary remarks 245
13. Magnetic analyzers 245
14. Distributing magnets 248
15. Focusing lenses 250
16. Devices for measuring the current and observing the situation of a beam 252
17. Slit devices 255

Vacuum System 256
18. Vacuum aggregates and forevacuum system 256
19. Vacuum locks 257

Feed, Control, and Signal Systems 258
20. Preliminary remarks 258
21. Feed and control system of ESA electrostatic accelerator of EG-2.5 type 259
22. Feeding installation of ion and electron sources 259
23. Control of charged particle source circuits 264

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

24. Feeding installation and stabilization system of a belt-charging current 265
25. Belt-transporter motor power supply 267
26. Power supply and current regulator for the analyzing magnet 268
27. Measurement of the field potential in the slit of the analyzing magnet 271
28. Accelerator high-voltage meters and regulators 275
29. Measurement of beam current 281
30. Installation of vacuum system feed and measurement of vacuum 282
31. Signaling and shielding installation 287
32. Gas system establishment 289

Ch. VII. Testing and Utilization of Electrostatic Accelerator
1. Preliminary remarks 293

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

Electrostatic Accelerators (Cont.) SOV/6536

2. Testing during assemblage 293
3. Prestarting testing 296
4. Accelerator utilization 298

AVAILABLE: Library of Congress

SUBJECT: Nuclear Engineering

Card 8/8

SK/zp/ef
4/15/64

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

30606
S/058/61/000/008/006/044
A058/A101

26.1351

AUTHORS: Malyshev, I., Zheleznikov, F. G., Roshal', G. Ya.

TITLE: Attempt to develop industrial models of electrostatic generators

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1961, 35, abstract 8B31 (V sb. "Elektrostat. generatory". M., Atomizdat, 1959, 224-255)

TEXT: A detailed description is given of a 2.5 Mev ЭГ-2,5 (EG-2.5) electrostatic generator developed in 1955 - 1956 for mass production. Incident to operation with an ion beam, stable operation was feasible at 2.7 Mev energy and a beam current of $\sim 15\mu$a. Beam currents $> 100\mu$a were produced at energies above 2 Mev. The focusing system of the source made it possible to obtain a patch 10 mm in diameter at a distance of 1.5 m from the output of the magnetic analyzer. The stabilization system assures energy stability better than $\pm$ 0.2% for stabilization by means of a corona triode and $\pm$ 0.1% for stabilization by means of an electron gun. Data are also given on a 4 - 5 Mev (at a current of 5 ma) ЭГ-5-1 (EG-5-1) generator with one accelerating tube, which is intended for pulse operation as an injector.

D. Koshkarev

[Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, I.G.; PEREVARZA, T.S.

Ionization of the air at the Borovoye health resort. Trudy Inst. kraev. pat. AN Kazakh. SSR 7:49-52 '59. (MIRA 13:3)
(BOROVOYE--AIR, IONIZED)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

Zhelezhikov, I. G.

BEKLEMISHEV, N.D.; ZHELEZHIKOV, I.G.; TOROPKINA, Yu.I.

Prospects of building a sanatorium for silicosis patients in Kazakhstan. Trudy Inst.kraev.pat. AN Kazakh.SSR 4:201-225 '56. (MLRA 10:3)
(LUNGS--DUST DISEASES)
(BUROVOYE--CLIMATOLOGY, MEDICAL)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, I.G.

Characteristics of the microclimate of the Shchichinskiy and Borovoye health resorts. Trudy Inst.Kraev. pat. AN Kazakh SSSR 5:34-42 '57. (MIRA 11:2)
(SHCHICHINSK DISTRICT--CLIMATOLOGY, MEDICAL)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNKOV, I.G.

Comparative rating of the climate of Bayan-Aul and Borovye. Trudy Inst. Kraev. pat. AN Kazakh SSR 5:127-133 '57. (MIRA 11:2)
(BOROVOYE--CLIMATOLOGY, MEDICAL)
(BAYAN-AUL--CLIMATOLOGY, MEDICAL)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, I.G., Cand Med Sci--(diss) "Topographic peculiarities of the histologic structure of the skin and its heat regulating function in children under seven years of age." Alma-Ata, 1958. 16 pp (Kazakh State Med Inst), 300 copies (KL,45-58, 152)

-143-

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, I.G.; TATARENKO, V.N.

Solar radiation in Borovoye. Izv. AN Kazakh. SSR. Ser. med. i fiziol. no. 2:91-95 '60. (MIRA 13:10)
(BOROVOYE—SOLAR RADIATION) (SUN BATHS)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, I.G.

Therapeutic use of aeroions. Preliminary report. Izv. AN Kazakh. SSR. Ser. med. i fiziol. no. 2:97-100 '60. (MIRA 13:10)
(AIR, IONIZED—THERAPEUTIC USE)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, I.G., kand.med.nauk; SOKOLOV, A.S., kand.med.nauk, starshiy nauchnyy sotrudnik

S.I. Zamiatin, oldest health resort specialist of Kazakhstan; on his 60th birthday. Vop. kur., fizioter. i lech. fiz. kul't. 25 no. 6:568-569 N-D '60. (MIRA 14:2)

1. Zav.otdelom kurortoterapii Instituta krayevoy patologii (for Zheleznyakov).
(ZAMIATIN, SERGEI IVANOVICH, 1900-)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, I.G.; RUSMANOVA, T.S.

Climatic characteristics of the Turksib Sanatorium. Report No.1. Trudy Inst.kraev.pat.AN Kazakh. S.S.R. 11:119-125 '62. (MIRA 16:4)

(TURKSIB--CLIMATE) (TURKSIB--SANATORIUMS)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, I.G.

Our experiment with aero-ionotherapy in the Turksib Sanatorium. Report No.2. Trudy Inst.kraev.pat.AN Kazakh. S.S.R. 11:126-132 '62. (MIRA 16:4)

(TURKSIB--AIR, IONIZED--THERAPEUTIC USE)
(TURKSIB--SANATORIUMS)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

BOGOMAZ, P.G., inzh.; ZHELEZNIKOV, I.V., inzh.

Improve the quality of hydrogeological studies of earth roadbeds. Transp. stroi. 12 no.1:62 Ja '62. (MIRA 17:2)

1. Tomgiprotrans.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, M.A.

A single formula for calculating the vertical stress from the horizontal load. Osn., fund. i mekh. grun. 5 no.1:23-24 '63. (MIRA 16:5)

(Soil mechanics)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, M.A. (Leningrad)

Design of thin hinged semi-infinite plates laying on a two-layer foundation. Inzh.zhur. 5 no.2:367-371 '65.

(MIRA 18:4)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, N. N.

Zheleznikov, N. N. - "One form of endotoxic asthenia," Trudy Tsentr. in-ta psikhiatrii, Vol. IV, 1949, p. 269-78

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOV, V.A.; DOGOMIAGKIKH, V.A.

Selection of some parameters for "Khersonets" combine. Trakt. i sel'khozmash. no.5:27-29 My '64. (MIRA 17:6)

1. Vsesoyuzniy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOVA, N.A.

Practices in conducting interfactory schools; the example of enterprises of the knitted-goods industry in the Moscow City Economic Council. NTI no.11:9-10 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOVA, N. S.

14

Comparative evaluation of methods of determination of oxidizability of water under field conditions. N. S. Zheleznikova. *Voenno-Med. Zhur.* 1946, No. 7/8, 47–9.—After examn. of official methods for detn. of oxidizables in drinking water, the following improved procedure was developed: a water sample of 25 cc. is acidified with 1 cc. 1:4 H_2SO_4, heated to boiling, treated with 1 cc. 0.025 *N* $KMnO_4$, boiled 10 min., treated with 1 cc. 0.025 *N* $(CO_2H)_2$ and the decolorized soln. is titrated with 0.025 *N* $KMnO_4$ to pink color. Oxidizability is calcd. by: mg./l. O = $8(A - B)/A$, where *A* is total $KMnO_4$ soln. used and *B* is the amt. of $KMnO_4$ used for oxidation of the 1 cc. of oxalate soln. G. M. Kosolapoff

METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOVA, V.I.

Yield and life span of sweet cherry trees. Agrobiologiia no.6:938-939 N-D '63. (MIRA 17:2)

1. Krymskaya opytno-selektsionnaya stantsiya, Krymsk.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOVA, V.I.

Tillage of interrows in orchards. Kons. i ov. prom. 14 no.5:26-28 My '59. (MIRA 12:6)

1.Opytno-selektsionnaya stantsiya v Krymske.
(Krasnodar Territory--Fruit culture)
(Tillage)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNIKOVA, Ye.P., uchitel biologii

Moved aside by the sea. IUn. nat. no.11:18-19 N '61.
(MIRA 14:11)

1. Vos'miletnyaya shkola sovkhoza imeni Stepana Razina Kuybyshevskoy oblasti.

(Kuybyshev province—School gardens)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNITSKAYA, V. A.

Large hematoma of the mesosigmoid developing during the puerperal period. Akush. i gin. no.2:100-101 '62. (MIRA 15:6)

1. Iz akushersko-ginekologicheskogo otdeleniya 1-y gorodskoy bol'nitsy (glavnyy vrach V. G. Brikman) g. Podol'sk Moskovskoy oblasti.

(HEMATOMA) (PUERPERIUM)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, A.A.; SAPERSON, E.I.

Stratigraphy of Paleogene sediments in the Karashor Depression.
Trudy VSEGEI 46:261-270 '61. (MIRA 14:11)
(Turkmenistan--Foraminifera, Fossil)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

SAPERSON, E.I.; ZHELEZNOV, A.A.

Breakdown of the Paleocene and Eocene of northern Turkmenistan.
Dokl.AN SSSR 144 no.4:893-895 Je '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.
Predstavleno akademikom D.V.Nalivkinym.
(Turkmenistan, Geology, Stratigraphic)

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

Activity of the Dnepr Aluminum Combine during nine months of 1934. A. I. Zhelezov. *Legkie Metaly*, 4, No. 1, 13-25(1935).—The use of artificial cryolite with a ratio $NaF:AlF_3$ of 2.5-7 gave very good results. Alloys of Al with Si, Ti or Cu were produced by the addn. of Al-Si, TiO_2 or Cu scrap to the electrolyte. Increasing the c. d. from 1.18 to 1.35 amp./sq. cm. decreased the efficiency about 10%, decreased the output and made operation difficult. Substitution of magnesite for graphite linings increased the output 2-5% and decreased consumption of raw materials and of elec. energy 2-3%. Si-Al contg. Si 77-78%, Al 20-21 and Fe 1-1.5% was produced by reduction of kaolin in an elec. furnace. H. W. R.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV A. I.

M

7

Direct Production of Silumin and Aluminosilicon in Works' Electrolytic Baths. A. I. Zheleznov and B. N. Maksimenko (*Legkie Metalli* (*Light Metals*), 1935, (2), 32–46).—[In Russian.] Silumin may be made directly by adding silico-aluminium (an alloy of silicon 77, aluminium 16, and iron 1·5% produced by electrothermal reduction of alumina by coke and silicon) to baths from which aluminium is being obtained by electrolysis, the additions being made, after anode "flashings," during the first 18 hrs. of the 24 hrs. before pouring. After tapping off the alloy the bath is operated for 48 hrs. before further addition of silico-aluminium. An alloy containing up to 16% silicon, was obtained; attempts to produce alloys of higher silicon content resulted in the increased dissolution of silicon in the electrolyte, a reduction in the efficiency of the bath due to secondary reactions, and a decrease in the recovery of silicon in the alloy. In obtaining the 16% silicon alloy the output of the bath (alumina reduced) and the consumption of raw material are unchanged, except for an increased consumption of 10–20 kg. of fluoride per ton of aluminium.—D. N. S.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CA

4

Production of aluminum-silicon alloys directly in commercial electrolytic cells. A. I. Zhelezney and B. N. Makelmenko. *Legkie Metal.* 4, No. 2, 33-46(1938).—Silicoaluminum contg. Si 77 and Fe 1.5% was added directly to the Hall cell to produce alloys contg. up to 20% Si. The productivity of the cell, in terms of Al reduced, remains const., while the consumption of cryolite and elec. energy is slightly increased. Silicoaluminum should be added in small portions of 30-40 kg., from 14 to 2 hrs. before tapping the cell. The compn. of the electrolyte should be constantly corrected by adding AlF_3.

H. W. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

PROCESSES AND PROPERTIES INDEX

4

Production of titanium-aluminum alloys in fused-electrolyte cells. A. I. Zheleznov and B. N. Maksimenko.

Legkie Metal. 4, No. 4, 24-32(1935).—Alloys contg. up to 1.53% Ti were made by dissolving and electrolyzing a mixt. of Al_2O_3 and TiO_2. A total of 3800 kg. of alloy was obtained with an av. daily output of 141.3 kg. per cell and a current efficiency of 73.5%. Ti segregated somewhat because of the large difference in sp. gr. of Ti and Al; this can be prevented by frequent stirring. H. W. R.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CA

4

Operation of fused-electrolyte cells with an increased charge of alumina. A. I. Zheleznov and B. N. Maksimenko. *Legkie Metal.* 4, No. 5, 4-8 (1935).—The amt. of alumina charged at one time into 2 Hall cells at the Dnieper aluminum plant was increased to 120-140 kg. (about 50-75%) for a 4-mo. period. As a result the output increased 1% and the consumption of cryolite decreased 10%, that of anodes 15%.

H. W. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

2a

4

Production of copper-aluminum alloys by electrolysis of aluminum dross. A. I. Zhelezny and B. N. Maksimenko. *Legkie Metal.* 4, No. 6, 18-20(1935).—Al alloys contg. Cu 0.91-1.5, Si 2.20-3.61 and Fe 0.58-2.04% were produced by electrolysing in a fused salt bath mixts. of alumina and Al dross from foundries.

H. W. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

BUGAREV, L.A.; ZHELEZNOV, A.I.; SHINDEL'MAN, R.I.

Improving the process of aluminum electrolysis. TSvet. met. 31 no.4:49-52 Ap '58. (MIRA 11:5)

1. Gosudarstvennyy nauchno-tekhnicheskiy Komitet Soveta Ministrov RSFSR.

(Aluminum—Electrometallurgy)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, A.V.

Effect of gamma rays on variation in buckwheat. Izv. SO AN SSSR no.4 Ser. biol.-med. nauk no.1:136-137 '64. (MIRA 17:11)

1. TSentral'nyy Sibirskiy botanicheskiy sad Sibirskogo otdeleniya AN SSSR, Novosibirsk.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, A.V.

Crossing closely related forms in buckwheat breeding. Trudy TSSBS no. 2:97-103 '64.

Obtaining changes in the buckwheat progeny by means of mutagenic factors. Ibid.:104-106 (MIRA 17:9)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, A.V.

Experimental induction of mutations in buckwheat. Genetika no.3:78-84 S '65. (MIRA 18:12)

1. Institut biologii Sibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted April 13, 1965.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.

Let's increase control over the correct granting of leave. Okhr. truda i sots. strakh. 7 no.2:43-44 F '64. (MIRA 17:2)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.

Overtime. Okhr. truda i sots. strakh. 6 no.3:41-42 Mr '63. (MIRA 16:4)

1. Zaveduyushchiy sekterom otdela okhrany truda Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov.

(Overtime)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.

Employee vacations and work on holidays. Okhr. truda i sots. strakh. no.4:37-38 Ap '63. (MIRA 16:4)

(Vacations, Employee)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.

Control of the trade-union organization over the correct maintenance of labor passports. Okhr.truda i sots.strakh. 5 no.11:39-40 N '62. (MIRA 15:12)

1. Zaveduyushchiy sektorom otdela okhrany truda Vsessoyuznogo tsentral'nogo soveta professional'nykh soyuzov.
(Labor passports)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.

Overtime work. Okhr.truda i sots.strakh. no.5:66-67 N '58.
(MIRA 12:1)

(Overtime)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.

Transfer of laborers and office workers to other work. Okh. truda i sots. strakh. no.6:65-66 Je '59. (MIRA 12:10)
(Employees, Relocation of)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, Boris Ivanovich; MARFENIN, Vasiliy Semenovich; VESELKINA, A.A., red.; GOLICHENKOVA, A.A., tekhn. red.

[Labor protection; a collection of decrees and regulations] Okhrana truda; sbornik postanovlenii i pravil. [Moskva] Izd-vo VTsSPS, 1958. 397 p. (MIRA 11:10)

1. Russia (1923- U.S.S.R.) Laws, statutes, etc. (Labor laws and legislation)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B. I.

"Relative Value of Stained Vaginal Smear for the Diagnosis of Cancer,"

Akusher. i Ginekol, No. 6, 1949.

Mbr., Pathomorphological Div., Inst Obstetrics & Gynecology, Min Public Health, -c1949-.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B. I. Cand. Medical Sci.

"Comparative Evaluation of Methods of Diagnosing Cancer in Gynecological Diseases With the Aid of Smear Preparations." Sub 8 Oct 51, First Moscow Order of Lenin Medical Inst.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.I., kandidat meditsinskikh nauk.

Sclerocystic ovaries. Akush. i gin. no5:40-44 S-O '55. (MLRA 9:1)

1. Iz Instituta akusherstva i ginekologii (dir. L.G. Stepanov) Ministerstva zdravookhraneniya SSSR.
(OVARIES, cysts
sclerocystic dis., surg.)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

EXCERPTA MEDICA Sec 10 Vol.9/10

1905. ZHELEZNOV B.I. *Diagnosing female carcinomas with luminescence microscope (Russian text) AKUŠ. I GINEK. 1956, 1 (43-46) Illus. 4

The examination of fresh preparations with luminescence microscope is simple and it can be made in a few minutes. Therefore it must have an important rôle in the treatment of carcinoma, especially in controlling the X-ray and radium effects. With this method the cytochemical properties of the cells can be examined, so that the diagnosis of pre-carcinomatous states is also possible.

Szirmai - Budapest

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.I.

Clinical-diagnostic importance of fluorescence microscopy. Lab.delo 2 no.4:3-6 Jl-Ag '56. (MLRA 9:10)

1. Iz Instituta akusherstva i ginekologii (dir. L.G.Stepanov) Ministerstva zdravookhraneniya SSSR, Moksva.
(FLUORESCENCE MICROSCOPY)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

USSR/General Problems of Pathology. Comparative Oncology. Human Tumors. U-5

Abs Jour : Ref Zhur - Biol., No 14, 1 58, No 66079

Author : Zheleznov B.I.
Inst : -
Title : On the Ovarian Neoplasms of the Brenner Type

Orig Pub : Akusherstvo i ginekologiya, 1956, No 4, 78-82

Abstract : Four cases of ovarian Brenner tumors were described in 65, 58, 49 and 35-year old patients. In one patient the Brenner tumor was associated with a pseudomucinous cystoma and a fibroma of the same ovary, in 2 patients with a myoma of the corpus uteri. In all cases histological studies of the ovarian tumors revealed separate epithelial formations of various shapes consisting of round or irregularly elongated cells in fibrous connective tissue. In some epithelial formations there were cavities of various sizes of which the inner layer was lines with columnar epithelium. Absence of mitoses was noticed. The bundles of the fibrous connective tissue ran in various directions.

Card : 1/1

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.I., kand.med.nauk

Theca cell tumors of the ovaries [with summary in English]. Akush. i gin. 34 no.3:70-75 My-Je '58. (MIRA 11:6)

1. Patomorfologicheskoy laboratorii (zav. - prof. Ye.N.Petrova) Instituta akusherstva i ginekologii (dir. - dotsent L.G.Stepanov) Ministerstva zdravookhraneniya RSFSR.
(THECA CELL TUMORS, surg.
(Rus))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

SELITSKAYA, S.S.; ZHELEZNOV, B.I., kand.med.nauk

Primary cancer of the fallopian tubes. Akush. i gin. 35 no.2:83-84 Mr-Ap '59. (MIRA 12:5)

1. Iz otdeleniya operativnoy ginekologii (zav. - prof. V.S. Frinovskiy) i patomorfologicheskoy laboratorii (zav. - prof. Ye.N.Petrova) Nauchno-issledovatel'skogo instituta akusherstva i ginekologii (dir. - dots. L.G.Stepanov) Ministerstva zdravookhraneniya RSFSR.

(FALLOPIAN TUBES, neoplasms primary (Rus))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.I., kand.med.nauk

On heterological mesodermal tumors of the uterus. Akush.i gin. 35 no.4:87-91 Jl-Ag '59. (MIRA 12:11)

1. Iz patomorfologicheskoy laboratorii (zav. - prof. Ye.N. Petrova) Instituta akusherstva i ginekologii (dir. - dotsent L.G. Stepanov) Ministerstva zdravookhraneniya RSFSR.
(UTERUS neoplasms)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.I. (Moskva)

Diagnosis of cancer of the cervix uteri on the basis of fluorescent-histological and fluorescent-cytological methods of examination. Arkh. pat. 26 no.12:31-39 '64. (MIRA 18:5)

1. Patogistologicheskaya laboratoriya (zav. - kand.med.nauk B.I.Zheleznov) Nauchno-issledovatel'skogo instituta akusherstva i ginekologii (dir. - prof. O.V.Makeyeva) Ministerstva zdravookhraneniya SSSR.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.I.

Content of polysaccharides and nucleic acids in cancer cells of the cervix uteri. Akush. i gin. 40 no.4:62-67 Jl-Ag '64. (MIRA 18:4)

1. Patomorfologicheskaya laboratoriya (zav. - kand. med. nauk B.I. Zheleznov) Nauchno-issledovatel'skogo instituta akusherstva i ginekologii (dir. - prof. O.V.Makeyeva) Ministerstva zdravookhraneniya SSSR, Moskva.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8

ZHELEZNOV, B.I., kand.med.nauk

Fluorescence-morphological method of examination in the diagnosis of uterine cancer. Akush. i gin. no.2:76-80'63. (MIRA 16:10)

1. Iz Nauchno-issledovatel'skogo instituta akusherstva i ginekologii (dir. - prof. O.V.Makeyeva) Ministerstva zdravookhraneniya RSFSR.

(UTERUS--CANCER) (FLUORESCENCE MICROSCOPY)
(VAGINAL SMEARS)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064630011-8"