"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, I.O.

Morphological changes at different stages in the development of experimental glomerulonephritis (from "Sovremenna meditsina," no.4, 1955) [Abstracted by I.N.Mikhaylov, I.O.Zherebtsov]. Arkh.pat. 19 no.6:77 '57. (MIRA 10:10)

(KIDNEYS--DISEASES)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, [illegible]

Cerebral rheumatism (from "Sovremennaya meditsina," no.[illegible], 1955)
[Abstracted by I.N.Mikhaylov, [illegible] Zherebtsov]. Arkh.pat. 19
no.6:77-78 '57. (M[illegible] 19 10)
(RHEUMATIC FEVER)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, L.D.

A pathomorphological study of the dynamics of experimental arthritis and myocarditis (from "Sovremenna meditsina," no.3, 1955). [Abstracted by I.N.Mikhaylov, L.D.Zherebtsov]. Arkh. pat. 19 no.6:78 '57. (MIRA 10:10)
(ARTHRITIS) (HEART--DISEASES) (RHEUMATIC FEVER)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, L.D.

Precancerous conditions and tumors of the larynx (from "Izvestiia" of the Medical Institute of the Bulgarian Academy of Sciences, 11-12, 1952) [Abstracted by I.N.Mikhaylov, L.D.Zherebtsov]. Arkh. pat. 19 no.6:78 '57. (MIRA 10:10)
(LARYNX--TUMORS)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, L.D.

Visceral forms of malignant anthrax (from "Suvremenna meditsina," no.2, 1955) [Abstracted by I.N.Mikhaylov, L.D.Zherebtsov]. Arkh. pat. 19 no.6:28 '57. (MLRA 10:10)
(ANTHRAX)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, L.D.

Precancerous processes in the larynx (from "Khirurgiia" [Bulgarian], v.9, no.2, 1956) [Abstracted by I.N.Mikhaylov, L.D.Zherebtsov]. Arkh.pat. 19 no.6:78 '57. (MLRA 10:10)
(LARYNX--TUMORS)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, L.D.

Case of lymphogranulomatosis [illegible] from "Khirurgiia" [Bulgaria], [illegible] [Abstracted by I.N.Mikhaylov, L.D. Zherebtsov]. Arkh.pat. 19 no.6:79 '57. (MLRA 10:10)
(INTESTINES--TUMORS)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, [illegible]

Milium colloidale in combination with two epitheliomas (from "Izvestiia" of the Medical Institute of the Bulgarian Academy of Sciences, 11-12, 1955). [Abstracted by [illegible] Mikhaylov, L.D.Zherebtsov]. Arkh.pat. 19 no.6:79 '57. (MIRA 10:10)
([illegible])

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, [illegible]

Activities of pathoanatomical [illegible] from "Zdravio selo," [illegible], 1955) [Abstracted by I.N. Mikhaylov, [illegible] Zherebtsov]. Arkh. pat. 19, no.6:79 '57. (MIRA 11:10)

(ANATOMY, PATHOLOGICAL)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; [illegible]

Experimental aortitis with [illegible] aneurysm and rupture in a dog (from "Suvremenna meditsina, [illegible], 1955). Arkh.pat. 1[illegible] no.6:79 '57. (MIRA 10:10)

(AORTA--DISEASES)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, L.D.

Interstitial plasma [illegible] pneumonia in infants in Bulgaria (from "Suvremenna meditsina," no.11, 1957) Abstracted by I.N.Mikhaylov, L.D.Zherebtsov] Ark. [illegible] (MLRA 10:10)
(PNEUMONIA -BULGARIA)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, L.D.

A comparative study of the nature and location of tumors (from "Suvremenn a meditsina," no.7, 1956) [Abstracted by I.J.Mikhaylov, L.D.Zherebtsov]. Arkh.pat. 19 no.6:79-80 '57. (MIRA 11:10)
(TUMORS)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; ZHEREBTSOV, N.D.

A case of daulty development of the pericardium (from "Suvremenna meditsina," no.3, 1955) [Abstracted by I.N.Mikhaylov, N.D.Zherebtsov] Arkh.pat. 19 no.6:80 '57. (MIRA 1[illegible]:10)
(PERICARDIUM--ABNORMITIES AND DEFORMITIES)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N., inzhener

Automatic control in NTMZ Martin furnaces. Stal' 15 no.5:417-425 My '55. (MLRA 8:6)

1. Novo-Tagil'skiy metallurgicheskiy zavod
(Open-hearth furnaces) (Automatic control)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

AUTHORS: Petrov, G. A., Mikhaylov, I. N., Klyucharev, A. P., Engineers

TITLE: Automated Heating of Open-Hearth Furnace

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1960, No. 10, pp.20-23

TEXT: The article describes in detail the automatic heat control system of a 380-ton open-hearth furnace at Nizhne-Tagil'skiy metallurgicheskiy kombinat (Nizhniy Tagil Metallurgical Combine). The system has been developed by Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (All-Union Scientific Research Institute of Metallurgical Heat Engineering) in cooperation with the institute "Uralmetallurgavtomatika" and the Nizhniy Tagil Combine. The furnace (as all of the Combine) is laid of basic refractories, it works in scrap-ore process with about 65% liquid iron, burns mixed coke and blast furnace gas, and uses oxygen for boosting; gas is carburated by coal tar during the fusion and the finishing periods. The automatic and interacting control units control the combustion, the operating pressure of the furnace, they reverse the flame and regulate the temperature of the checker work tops. The article includes a diagram of the control system (page 21). The main part of the combustion control unit is

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

S/118/60/000/010/005/008
A161/A026

Automated Heating of Open-Hearth Furnace

a pneumatic computer with pneumo-transformers (1, 2, 3, 4, 5, 6) and a proportion regulator РСНЩ-63 (RSNShch-63) that calculates the consumption of all fuel types (and oxygen) and determines the required air quantity for burning with an air excess factor $\alpha = 1.15$. The quantity of carbon monoxide from the bath is not measured. Air feed is corrected automatically by the free-oxygen content in smoke gases analyzed by automatic magnetic gas analyzers (10, 11) МГК-348-ЦЛА (MGK-348-TsLA) "Energochermet", sending commands through an ИР-130-12 (IR-130-12) regulator and a converter (7) into the computer for immediate correction of air feed. Heat loading is controlled by coke gas consumption variations; blast furnace gas consumption is constant; tar consumption is measured by the furnace operator through remote control. The heat loading control includes a coke gas regulator (13) with converter (14) and bellows (15), vault temperature measuring devices (16) and (17), regulators (18) and (19), and devices measuring the checker work top temperature (20) and (21). The coke gas regulator tends to maintain maximum consumption but the correcting devices limit it when the vault temperature reaches 1,720°C, or when the pressure in the furnace exceeds 5 mm water column, or if the blast fan capacity is not sufficient, or the free-oxygen content in smoke is below 5%, or the checker work tops are hotter than 1,300°C. If not limited, the coke gas consumption is determined by the gas line capacity. The pressure

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

S/118/60/000/010/005/008
A161/A026

Automated Heating of Open-Hearth Furnace

control system consists of a remover (22), a regulator (23), an ЭПИД-06 (EPID-06) instrument (19), a servomotor (24) and a gate (25). The control pulse is given from a point in the vault center 2 m away from the front wall. A blocking system prevents overheating; the limit contact is placed in the EPID-06 instrument When rapid gas separation or some other cause raises the pressure to 5mm water column, the system reduces the heat loading through the bellows. The valves are reversed automatically by an integral time relay (26) - the relay (27) is an emergency relay - and pulse alternation by the temperature of the gas and air regenerators. The reversing system is periodically connected to temperature transmitters (29-32) by a special multicontact relay (28). The maximum temperature of the air regenerator checker tops is limited by a regulator (33) watching the temperature and actuating a gate (34). After the checker tops are cooled down to normal temperature, gas consumption resumes after a time lag (3-4 min) set by a time relay (35). The system provides for a most favourable temperature during the entire heating time. The Tsentral'naya laboratoriya avtomatiki "Energochermet" (Central Automation Laboratory "Energochermet") has devised a method for placing pyrometers directly into the work space through the vault, and this method has been used in the system described, and the indications are more accurate and reliable than with the usual radiation pyrometers on the front and rear wall facing

Card 3/6

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

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the vault. Still, the method takes a great quantity of wires and cables, parts fail frequently, and much cooling water is needed. Tar makes out 6-8% of fuel in the NTMK furnaces, and the control system includes a tar meter of УРМА (URMA) design. It works smoothly only when the tar flow through its transmitter is constant. The usual Blaw-Noks gates being not suitable because of insufficient speed, rotary non-cooled gates have been used. They are rotated by a crank servomotor СК-140 (SK-140). The other 380-ton open-hearth furnaces of the NTMK are fitted with automatic control systems similar in principle to the system described, but using different devices. For instance one furnace has been fitted with units of standard-block system АУС (AUS) of the Moscow "Tizpribor" plant. The AUS system has proved good and is reliable, being hardy and requiring less wires and tubes. The automatic control system has been put into constant operation in August 1959. The effect is a furnace output increase of 5 to 5.5%, a fuel consumption cut of 8-9%, and 5% longer service life of furnace lining. There is 1 figure.

Figure 1.

Schematic diagram of automatic control system

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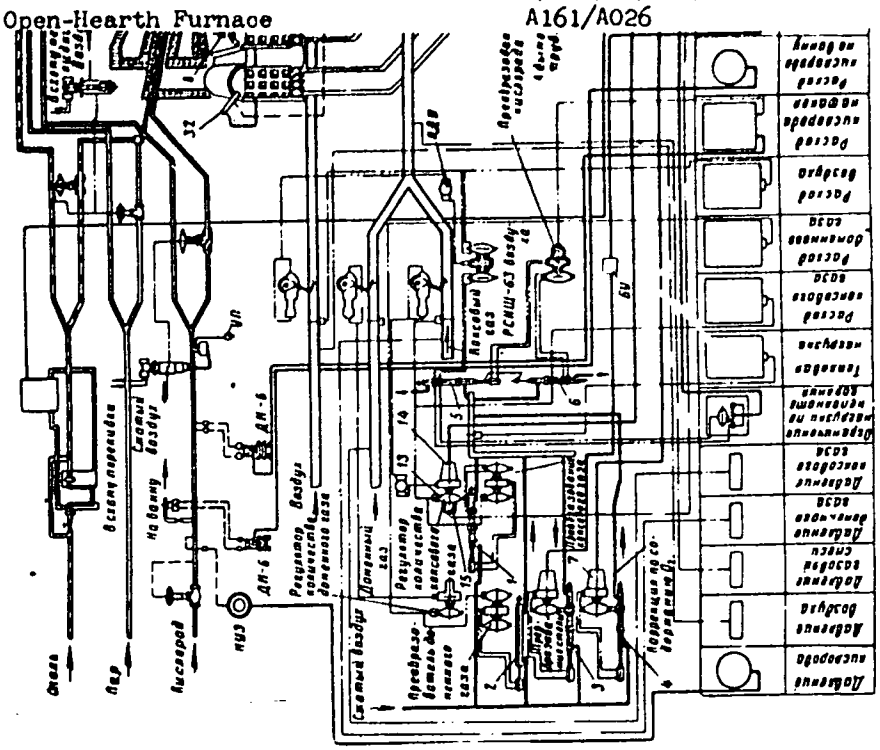
"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

Automated Heating of Open-Hearth Furnace

S/118/60/000/010/005/008
A161/A026



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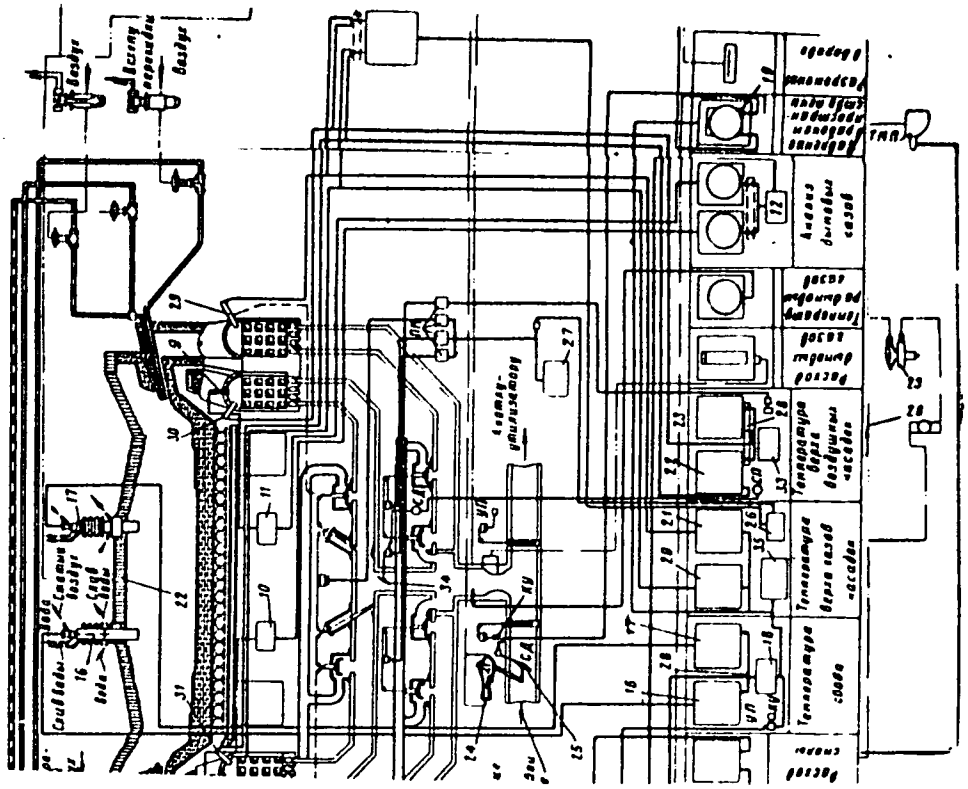
"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6



Card 6/6

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

YAROSHENKO, Yu.G.; LAZAREV, B.L.; MIKHAYLOV, I.N.; KOTEL'NIKOV, Yu.V.; OVCHINNIKOV, Yu.N.

Continuous measurement of cast iron temperatures during its tapping. Stal' 22 no.4:300-302 Ap '62. (MIRA 15:5)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat i Ural'skiy politekhnicheskiy institut.
(Blast furnaces) (Pyrometry)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.

Partially projected functions in the superfluid model of a nucleus. Acta physica Pol 24 no.3:419-425 S'63.

1. Joint Institute for Nuclear Research, Laboratory of Theoretical Physics, Dubna, U.S.S.R.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.

Accuracy of the generalized Hartree - Fock method in nuclear physics. Zhur. eksp. i teor. fiz. 45 no.4:1102-1110 O '63. (MIRA 16:11)

1. Ob"yedinennyy institut yadernykh issledovaniy.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

L 32861-65 EWT(m)/EWP(t)/EWA(m)-2/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5004532 S/0048/65/029/001/0113/0123

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B

AUTHOR: Bang, Ye.M.; Mikhaylov, I.N.

TITLE: Calculation of the properties of rare earth nuclei with the aid of an improved theory of pairing correlations. Report, 14th Annual Conference on Nuclear Physics held in Tbilisi 14-22 Feb 1964

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.1, 1965, 113-123

TOPIC TAGS: nuclear model, pairing correlation, excited state, beta decay, mathematical physics, rare earth element

ABSTRACT: Earlier calculations by one of the authors (I.N.Mikhaylov, Zhur.eksp.i teor.fiz.45,1102,1963) and by V.G.Solov'yev (Ibid.43,246,1962), embodying improvements on the u,v transformation method for solving the Schrödinger equation for the pairing interaction Hamiltonian, are extended to include calculation of matrix elements between different nuclear states. It is also shown that formulas derived in the first reference cited above contain all the corrections of order 1/N to the u,v transformation method, where N is the total number of nucleons. The superconduction type pairing interaction constants were obtained by comparing theoretical and ex-

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ACCESSION NR: AP5004532

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perimental values of the pairing energy, and a number of properties of rare earth nuclei were evaluated. The results are tabulated. These include the two-quasiparticle excited state spectra of Yb^{172} and W^{182}, and the ft values for a number of β-transitions. The energies of the excited states differ very little from those calculated by the u,v transformation method, but the wave functions differ considerably as a result of increased values of the correlation function. The use of the present theory somewhat improves the calculated ft values, but large differences remain, which must be ascribed to factors that are not included in the model. The present theory includes two partially compensating effects of which only one was taken into account by A.F.DeMiranda and M.A.Preston (Nucl.Phys.44,529,1963); this makes their results unsuitable for any inferences concerning the accuracy of β-transition probability calculations based on the u,v transformation method. "In conclusion, the authors express their sincere gratitude to their coworkers of the nuclear theory group of the OIYaI for their interest in the work. We wish particularly to thank N.I.Pyatov and V.G.Solov'yev. We are also grateful to the staff of the Computing Center of the OIYaI for performing the computations. The stay of one of the authors (Ye.Bang) in Dubna was made possible by financial support from the University of Copenhagen and the R.Oersted Fund and also by the hospitality of the OIYaI." Orig.art.has: 39 formulas and 5 tables.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

L 32861-65
ACCESSION NR: AP5004533

ASSOCIATION: Laboratoriya teoreticheskoy fiziki Ob"yedinennogo instituta yadernykh issledovannyy (Theoretical Physics Laboratory, Joint Institute for Nuclear Research)

SUBMITTED: 00/--Jan65 ENCL: 00 SUB CODE: NP

NR REF SOV: 005 OTHER: 006

Card 3/3

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.

τ-meson decay [with summary in English]. Zhur. eksp. i teor. fiz. 32 no.2:284-288 F '57. (MLRA 10:6)
(Mesons--Decay)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

LI,VAN SEN [Yi, Wan-son]; MIKHAYLOV, I.N.; FENIN, Yu.I.; SARANTSEVA, V.R., tekhn. red.

[Reaction $T + T \rightarrow He^4 + 2n$] O reaktsii $T + T \rightarrow He^4 + 2n$. Dubna, Ob"edinennyi in-t iadernykh issl., 1962. 8 p. (MIRA 15:4)

(Nuclear reactions)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.; SARANTSEVA, V.R., tekhn. red.

[Accuracy of the u, v-transformation method] O tochnosti metoda u - , v - preobrazovaniia. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1963. 11 p. (MIRA 16:6)
(Nuclear models) (Quantum theory)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.N.

MICHAILOV, I.N.

Use of the projection in solving variational problems. Acta physica Pol 23 no.6:745-750 Je '63.

1. Joint Institute for Nuclear Research, Laboratory of Theoretical Physics, Dubna.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

ACCESSION NR: AP4010751 S/0020/64/154/001/0068/0071

AUTHOR: Mikhaylov, I.N.

TITLE: On the accuracy of calculating the moment of inertia of nuclei by the method of forced rotation

SOURCE: AN SSSR. Doklady*, v. 154, no. 1, 1964, 68-71

TOPIC TAGS: moment of inertia, forced rotation, rare earth element, Inglis formula

ABSTRACT: In the present work an estimate is given of the accuracy in determining the moment of inertia of a nucleus with the aid of a forced rotation model. The estimate is based on employment of a method of approximate projection of a function previously developed by I.N. Mikhaylov, (ZhETF, 45, (1963) 1102). The moment of inertia is the coefficient with $I(I+1)$ in the energy dispersion of the system with respect to degrees of angular momentum I:

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

ACCESSION NR: AP4010751

$$E_I = E_0 + I(I+1)/2J + \dots \quad (1)$$

The Inglis formula

$$J = 2\sum_i \frac{|\langle i|J_x|0\rangle|^2}{E_i - E_0} \quad (2)$$

for the moment of inertia accurately describes the quadratic with respect to the I term in the expression for the energy of a rotating system, which is characterized by the state of internal motion $|i\rangle$ and by the energies E_i which correspond to it. However, the division of the rotary and internal motions of the closed system itself represents an approximation. Additional errors arise due to the fact that the form of function $|i\rangle$ and value E_i are selected more or less arbitrarily. On the other hand, determination of the moment of inertia with formula (1) is not connected with the approximations mentioned above and so the question of accuracy of the

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

ACCESSION NR: AP4010751

forced rotation model makes sense. The correction value is in the order of 10%. Formula $J_0 = 2\sum_l \frac{|\langle l|I_x|0\rangle|^2}{E_l - E_0} = \frac{2}{E_{cp}}\sum_l |\langle l|I_x|0\rangle|^2 = \frac{2\Delta\overline{I_x^2}}{E_{cp}}$.

also permits an evaluation with respect to known data on the amount of single-particle excitation, and with respect to values of the moment of inertia, and the value of parameter $\Delta^2 \overline{I_x^2}/\hbar^2$ which is a measure of accuracy of the method of steepest descents. For the nuclei of a group of rare earth elements, this amount has an order of 20-30 which indicates the applicability of the method. "In conclusion I am sincerely grateful to Ye. Bang for his many discussions and to V.G. Volov'yev for his constant interest in the work." Orig. art. has: 25 equations.

ASSOCIATION: Ob'yedinenny*y institut yarderny*kh issledovaniy (Joint Institute for Nuclear Research)

SUBMITTED: 12Jul63 DATE ACQ: 10Feb64 ENCL: 00

SUB CODE: PH NO REF SOV: 002 OTHER: 004

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

BANG, Ye.M.; MIKHAYLOV, I.N.

Determining the properties of nuclei [illegible] with the aid of an improved theory [illegible]. AN SSSR Ser. fiz. 29 no. [illegible] 23 [illegible].

1. Laboratoriya teoreticheskoy fiziki [illegible] yadernykh issledovaniy.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

ARDASHEV, Gavriil Romanovich, kand. tekhn. nauk; MIKHAYLOV, Igor' Nikolayevich, inzh.; MORSHIN, Aleksandr Vasil'yevich, kand. tekhn. nauk; SOLODENIKOVA, G.A., red.

[Technical maintenance of the machinery and tractor fleet] Tekhnicheskoe obsluzhivanie mashinno-traktornogo parka. Moskva, Kolos, 1965. 526 p. (MIRA 18:7)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, Igor' Nikolayevich; MORSHIN, Aleksandr Vasil'yevich; ZAGORSKIY, G., red.; POKHLEBKINA, M., tekhn. red.

[Low-temperature catalytic conversions of hydrocarbons] Nizkotemperaturnye kataliticheskie prevrashcheniia uglevodorodov. Leningrad, 1962. 166 p. (MIRA 15:11)

1. Leningrad. Universitet.

(Catalysis) (Hydrocarbons)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

ARTYUSHOV, Veniamin Pavlovich; MIKHAYLOV, I.P., nauchn. red.; SHAKHNOVA, V.M., red.

[Automatic gas cutting in shipbuilding] Opyt avtomaticheskoi gazovoi rezki v sudostroenii. Izd.2., ispr i dop. Leningrad, Sudostroenie, 1965. 127 p. (MIRA 19:1)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.R.

Lime-sand façade slabs. Stroi. mat. 6 no.9:23-24 S '60.
(MIRA 13:9)
(Sand-lime products)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

85017

S/048/60/024/010/026/033
B013/B063

AUTHORS: Mikhaylov, I. S. and Rotenberg, B. A.

TITLE: Electrical Properties of Some Solid Solutions of Niobates and Tantalates of Bivalent Metals

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960, Vol. 24, No. 10, pp. 1282 - 1284

TEXT: The authors studied $(Pb_{0.5}Ba_{0.1}Sr_{0.4})(Nb_{1-x}, Ta_x)_2O_6$ (designated as NBST) and $(Pb_{0.6}Ba_{0.2}Ca_{0.2})(Nb_{1-x}, Ta_x)_2O_6$ (designated as NBKT). The specimens were produced from these compounds by the conventional ceramic procedure. Specimens with a high tantalum content were burned in the protected medium. Only sintered specimens were examined. Figs 1 and 2 show the temperature dependences of the dielectric constant for NBST and NBKT for f = 1 kilocycle. It may be seen that compositions with a Ta content up to 10 mole% exhibit a marked dielectric constant maximum. At negative temperatures all compositions exhibit an increase of the dielectric losses. Measurements of the temperature dependence of the

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85017

Electrical Properties of Some Solid Solutions of Niobates and Tantalates of Bivalent Metals S/048/60/024/010/026/033 B013/B063

dielectric constant at a frequency of 100 kilocycles have shown that relaxation phenomena are observable in these compounds. Fig.3 shows the dependence of the temperature maximum of the θ_m dielectric constant at different frequencies on the concentration of tantalum ions. The X-ray phase analysis made by V. G. Prokhvatilov has revealed that $(Pb_{0.5}, Ba_{0.1}, Sr_{0.4})Nb_2O_6$ and $(Pb_{0.6}, Ba_{0.2}Ca_{0.2})Nb_2O_6$ are isostructural with $(Pb_{0.5}, Ba_{0.1}, Sr_{0.4})Ta_2O_6$ and $(Pb_{0.6}, Ba_{0.2}, Ca_{0.2})Ta_2O_6$, and have an orthorhombic structure of lead metaniobate. A phase with another structure, which could be responsible for the formation of relaxation properties, was not established. In compounds with marked relaxation properties no hysteresis loops were observed at liquid nitrogen temperatures. Summarizingly, the following conclusions were drawn: An increase of the tantalum content in three-component solid solutions of lead metaniobates and alkaline-earth metals first leads to a weakening of piezoelectric properties and thereupon to the appearance of relaxation properties. At a tantalum content below 20 mole% both these properties are

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

Electrical Properties of Some Solid Solutions of Niobates and Tantalates of Bivalent Metals

85017
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B013/B063

observable. The present paper was read at the Third Conference on Piezoelectricity, which took place in Moscow from January 25 to 30, 1960. There are 3 figures and 5 references: 4 Soviet.

X

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

BAGRYANSKIY, K.V., ZUSIN, [illegible], OBIGORIYEV, Ya.Ya.; MIKHAYLOV, I.S.

Deposition of a steel layer on grey cast iron. Avtom. svar. 18 no.5:25-28 My '65. (MIRA 18:6)

1. Zhdanovskiy metallurgicheskiy institut.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

AUTHOR: Mikhaylov, I. [illegible]

TITLE: Natural Hotbeds at Severnaya Zemlya (Yestestvennyye [illegible] na Severnoy Zemle)

PERIODICAL: Priroda, 19[illegible], [illegible], pp 118-119 [illegible]

ABSTRACT: In May 1956, the author noticed this phenomenon on the [illegible] of Bolshevik. Many hollows on the plateau were lined [illegible] detritus and rock waste and had a covering of snow [illegible] deep. The snow allowed the sun's rays to pass through [illegible] the same time protected the hollows from cold [illegible] thus acting like the glass of a hotbed. The temperature [illegible] the bottom of the hollow was appreciably higher than [illegible] face or air temperatures and gave rise to a flourishing [illegible] of lichen. There is 1 diagram.

ASSOCIATION: Polyarnaya stantsiya Bolshevik, Severnaya Zemlya ("Bolshevik" Polar Station, Severnaya Zemlya)

Card 1/1

1. Snow--Phenomena--USSR [illegible] --Glass--Simulation [illegible] --Applications

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.S.

Characteristics of arctic turf soils of the Bol'shevik Island. Pochvovdenie no.6:89-92 Je '60. (MIRA 13:11)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut, Leningrad.

(Bol'shevik Island--Soils)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.S.

Soil investigations in northern Alaska. Pochvovedenie no. 2:103-108 F '61. (MIRA 14:2)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

(Alaska—Soils)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.S.; GOVORUKHA, L.S.

Soils of Franz Josef Land. Vest. Mosk. un. Ser. 5: Geog. 17 no.6:42-48 N-D '62. (MIRA 16:1)

1. Kafedra geograii pochv Moskovskogo gosudarstvennogo universiteta i Nauchno-issledovatel'skiy institut Arktiki i Antarktiki.

(Franz Josef Land--Soils--Classification)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I. S.

Soils of polar deserts and B. N. Gorodkov's role in studying them. Izv. Vses. geog. ob-va 94 no.6:520-523 N-D '62. (MIRA 16:1)

(Gorodkov, Boris Nikolaevich, 1890-)
(Polar regions--Soils)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.S.

Soils in the northeastern part of Faddey Island. Probl.Arktiki Antark. no.14:75-82 '63. (MIRA 16:12)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.S.

Evolution of soils and vegetative cover in the northeastern part of Faddey Island. Trudy AANII 224:121-132 '63 (MIRA 18:1)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.S.

Builder of Russian railroads. Transp. stroi. 14 no.8:56-57 Ag '64.

Our calendar. Ibid.:57 (MIRA 18:1)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

21995

9, 4300 (1161, 1159, 1139)
17.1200

S/066/61/000/003/006/002
D051/D112

AUTHOR: Davydov, Yu.S., Candidate of Technical Sciences
Mikhaylov, I.T., Engineer

TITLE: Semiconductor proportional temperature regulator PTR-P

PERIODICAL: Kholodil'naya tekhnika, no. 3, 1961, 7-10

TEXT: The authors describe a new proportional semiconductor thermoregulator of the type ПТР-П (PTR-P) (fig. 1), which was developed by the NII Santekhniki and the Orlovskiy SKB Pribor. The device, which contains a thermistor as a sensitive element, was recently tested and passed for serial production to the Orlovskiy zavod priborov (Orel Instrument Plant). The development of a new thermoregulator had been considered as necessary, because previous attempts to improve the existing types, e.g. ТПК (TPK) and ТПД (TPD) of the L'vov plant "Teplokontrol'", were not successful. The new device achieves proportional regulation of liquid and gas temperature without employing the balance relay system. It is highly sensitive, shows only inconsiderable inertness, and can be used also for two- and three-position and even astatic temperature regulation, the latter being possible in combination with a pulsed chopper. The component parts and the operation system of the new

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21995

S/066/61/000/002/002/002

Semiconductor proportional ... D051/D112

regulator are given in fig. 2. The device consists of the following basic elements: an a.c. measuring bridge, two cascades for preliminary amplification, an emitting repeater, a phase-sensitive cascade, and a power unit. The measuring bridge is intended for the transformation of the fluctuations of the temperature being controlled into electrical signals. It consists of constant (R_6, R_{13}, R_{14}) and variable (R_7, R_g) resistors and a thermistor (R_8), the latter being a thermoresistor of the type ММТ-1 (MMT-1) or ММТ-4 (MMT-4), for air media or non-aggressive liquid media, respectively. The bridge also includes a feedback rheostat (terminals C, K, B). Resistor R_7 performs the functions of a temperature controller, and R_g permits establishing the necessary residual irregularity. For amplifying the signal picked up from the bridge an amplifier with semiconductor triodes is used. The signal is first amplified by the two cascades of the preliminary amplifier, the triodes ПT_1 and П T_2. The resistors R_3 and R_{10} are resistors of the collector load. The capacitors C_2, C_3, and C_5 serve for d.c. separation of the cascades and the bridge. Through the capacitors C_1 and C_4 the negative feedback which stabilizes the work of the amplifier is effected. The resistors R_1 and R_2, R_5 and R_9 operate in pairs as dividers; the voltage picked up from them guarantees the required operation conditions of the amplifier cascades. The re-

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S/066/61/000/[illegible]/002
D051/D112

Semiconductor proportional ...

sistors R_4 and R_{11} effect the negative feedback which guarantees the temperature stabilization. From the output of the preliminary amplifier the signal is transmitted to the input of the emitting repeater, which matches the output resistance of the preliminarily amplifying cascade with the input resistance of the phase-sensitive cascade and amplifies the power of the signal. The emitting repeater consists of the triode ΠT_3, the load resistor R_{15}, and the regime resistor (Rezhimnoye Soprotivleniye) R_{12}. The signal further passes to the input of the phase-sensitive cascade which permits discriminating the direction of the unbalance of the bridge and by amplifying the received signal actuates this or that relay in accordance with the phase of the signal. The phase-sensitive cascade consists of the triodes ΠT_4 and ΠT_5 and the regime resistors R_{16}, R_{17}, and R_{20}, R_{21}. The capacitors C_6 and C_7 serve for d.c. separation of the cascades. The triode collectors include a relay operating upon opening and closing of the triodes. The capacitors C_8 and C_9 shunt the relay windings and smooth the current pulses in them. The resistors R_{19} and R_{22} guarantee the steady operation of the relays P_1 and P_2; at the first pulse they are disconnected by the contacts IP_1 and IP_2. The triodes ΠT_4 and ΠT_5 are fed with negative half-waves of sinusoidal voltage obtained from

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S/066/61/000/003/00[illegible]

Semiconductor proportional ... D051/D112

the diodes Д1, and Д2 . The power unit of the device consists of a transformer, the rectifying diodes Д3-Д6, and a smoothing filter composed of the capacitors C_{10}, C_{11} and the resistor R_{18}. The voltage is controlled by a tube Л. In order to achieve proportional regulation, the PTR-P device is equipped with three terminals which are connected with a feedback rheostat. The device will work as a two-position or three-position astatic temperature regulator when the three terminals are connected by a length of wire. The regulator has scales of temperature and irregularity adjustment. The temperature at which the shaft of the executive mechanism with the connected contact-blade of the feedback rheochord is in the center position corresponds to the given temperature of the adjustment scale. The device was tested at the laboratory of automation of sanitary-engineering equipment of the NII Santekhniki. The following characteristics for the device (adjustment range from -10 to +16°C) could be obtained:

Adjustable value of irregularity, °C:

minimum.....1.2

maximum.....5.5

Displacement of the adjustment point during forward and return motion (hysteresis), °C 0.2

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

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D051/D112

Semiconductor proportional ...

Adjustment error at the extreme points and one of the medium points, °C 0.2
Zone of insensitivity, °C 0.02 (60 operation degrees at a minimum value of irregularity).

The positive testing results permit serial production of the device in several modifications (table 2). The breaking capacity of the output contacts is the same for all modifications: at 220 V a.c. it is equal to 500 V-amp, at 220 V d.c. - 50 V-amp. The device is fed by alternating current of a voltage of 127/220 V and a frequency of 50 cycles. The power consumption is 3 ÷ 5 W. The error of the program installation is ± 0.5°. The production includes devices of the cubicle and the remote control type. The normal distance between the pick-ups and the device is 3 m, but it can be increased. Attention has to be paid to the circumstance that every 5 ohm resistance of the line involves an additional adjustment error of about 0.1°. The device is installed in a casing and weighs no more than 2.5 kg. There are 2 figures, 2 tables, and 2 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy institut sanitarnoy tekhniki Akademii stroitel'stva i arkhitektury SSSR (Scientific Research Institute of Sanitary Engineering at the Academy of Construc-

Card 5/9

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

21995

S/066/61/000/003/002/00[illegible]
D051/D112

Semiconductor proportional ...

tion and Architectur: USSR) (Yu.S. Davydov)
SKB Pribor Orlovskogo sovnarkhoza (SKB Pribor of the Orel Sovnarkhoz) (I.T. Mikhaylov)

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

[illegible], [illegible]gor' Vasil'yevich, [illegible], [illegible]eksandr Il'ich,
[illegible], [illegible], red

[illegible]ondensers [illegible] Kondensatory. Moskva, Energiia, [illegible]
Massovaia radiobiblioteka. Sprav[illegible] seriia, no. [illegible]
[illegible]

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

L 60128-65 EWT(d)/EWP(c)/EWP(v)/T/EWP(k)/EWP(l)/ETC(m) Pf-4 WW

ACCESSION NR: AP5015098 UR/0381/65/000/002/0036/0038

AUTHOR: Baryshev, S. Ye.; Litvintsev, A. I.; Mikhaylov, I. V.

23
B

TITLE: Description and use of a voltage calibrator in an ultrasonic flaw detector

14

SOURCE: Defektoskopiya, no. 2, 1965, 36-38

TOPIC TAGS: flaw detection, ultrasonic equipment, voltage calibrator

ABSTRACT: The amplitude of a reflected ultrasonic pulse has a definite relationship to the area of the reflecting surface. This relationship may be used for evaluating the size of defects if equipment is available for measuring the amplitude of the reflected signal. The usual method for doing this is to compare the received signal with a special calibrated signal. This is the method used for measuring the amplitude of the reflected signal in the ID-1 flaw simulator which is made as an attachment to an ultrasonic flaw detector. The device was developed at the Central Scientific Research Institute of Technology and Machine Building. Using a flaw simulator for ultrasonic inspection is not very convenient, therefore the authors propose a new method for measuring the amplitude of reflected signals using units which are found in any ultrasonic flaw detector. A voltage calibrator may be set up by con-

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

L 60128-65

ACCESSION NR: AP5015098

necting part of the pulse circuits in the flaw detector in a certain way and adding a small number of extra components. The accuracy of the reading in the proposed system is 10-15%. Using a regulated power supply will give higher accuracy. The device gives a much wider scope to ultrasonic flaw detection. A schematic diagram of the unit is given. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 28Jan65 ENCL: 00 SUB CODE: EC, GP

NO REF SOV: 002 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I. Ye.

"Cross Sectional Shapes of Spiral Turbine Chambers and the Study of Their Flow. Cand Tech Sci, Moscow Order of Labor Red Banner Construction Engineering Inst Imeni V. V. Kuybyshev, Min Higher Education USSR, Moscow, 195 . (KL, No 16, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, Ivan Yefimovich; IL'CHENKO, Aleksey Ignat'yevich; PRAVNICHENKO, A., insh., retsenzent; ZHUKOVSKIY, L., insh., retsenzent; SOROKA, M.S., red.

[Reductors for mining machinery] Reduktory shakhtnykh mashin. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 254 p. (MIRA 13:5)
(Mining machinery) (Gearing)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.Ye., kand.tekhn.nauk

New cross section of reinforced concrete spiral turbine chamber. Sbor. trud. MISI no.35:14-23 '61. (MIRA 14:9)
(Hydraulic turbines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.Ye., kand.tekhn.nauk; MITYUREV, Ye.L., inzh.

Energy losses in spiral turbine chambers having different cross sections. Sbor. trud. MISI no.35:23-26 '61. (MIRA 14:9)
(Turbines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, I.Ye., kand.tekhn.nauk; MITYUREV, Ye.L., inzh.

Effect of the grouping of split buttresses in spiral chambers on the characteristics of hydraulic turbines. Sbor. trud. MISI no.35:26-33 '61. (MIRA 14:9)

(Hydraulic turbines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

GUBIN, F.F.; MIKHAYLOV, I.Ye.; MITYUREV, Ye.L.

Choosing the relation of the height of a spiral inlet section to the width. Izv.vys.uch.zav.; stroi. i arkhit. 5 no.4:137-144 '62. (MIRA 15:9)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni inzhenerno-stroitel'nyy institut imeni Kuybysheva.
(Hydraulic turbines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

S/262/62/000/021/003/003
E194/E435

AUTHORS: Mikhaylov, I.Ye., Mityurev, Ye.L.

TITLE: The design of T-section helical casings of turbines

PERIODICAL: Referativnyy zhurnal. Otdel'nyy vypusk. 42. Silovyye ustanovki, no.21, 1962, 66, abstract 42.21.417. (Sb. tr. Mosk. inzh.-stroit. in-t. no.40, 1962, 7-16)

TEXT: An analytical method of designing the helical casings of Kaplan turbines is given which, allowing for the combined operating conditions of the helical casing and the guide vanes, permits in each particular case the determination of the optimum cross-sectional dimensions of the helical casing. In cases where the dimensions of the helical casing govern the width of the turbine unit in the power station building this method makes it possible to use casings of smaller cross-section than usual without impairing the power characteristics or water throughput of the turbine. 7 figures. 7 literature references.

[Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

AZERNIKOV, V.; ARLAZOROV, M.; ARSKIY, F.; BAKANOV, S.; BELOUSOV, I.; BILENKIN, D.; VAKEL', I.; VLADIMIROV, L.; GUSHCHEV, S.; YELAGIN, V.; YERESHKO, F.; ZHURBINA, S.; KAZARNOVSKAYA, G.; KALININ, Yu.; KELER, V.; KONOVALOV, D.; KREYNDLIN, Yu.; LEBEDEV, L.; PODGORODNIKOV, M.; RAMINOVICH, I.; REPIN, L.; SMOLYAN, G.; TITARENKO, V.; TOPILINA, T.; FEDCHENKO, V.; EYDEL'MAN, N.; EMME, A.; NAUMOV, F.; YAKOVLEV, N.; MIKHAYLOV, K., nauchn. red.; LIVANOV, A., red.

[Little stories about the great cosmos] Malen'kie rasskazy o bol'shom Kosmose. Izd.2., Moskva, Molodaia gvardiia, 1964. 368 p. (MIRA 18:4)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

L 60238-65

ACCESSION NR: AP5021068 BU/0001/64/000/004/0036/0044

AUTHOR: Mikhaylov, K. (Engineer)

4
B

TITLE: Centralized urban heating system for the town of Sofia

SOURCE: Bulgarska akademiya na naukite. Spisanie, no. 4, 1964, 36-44

TOPIC TAGS: heating engineering, general construction

Abstract: After a brief survey of questions of methodology, the author presents pertinent data needed for the design of a centralized urban heating system for the Bulgarian capital city which would supply heat and hot water to all the multistory buildings (housing 75% of the population in 1980). He discusses at length the possible choice of appropriate equipment, the types of fuel and fuel savings during centralized heat production, and the economic effects resulting from an accelerated expansion of the existing system containing two heat and electricity generating plants ("Sofia" and "Traycho Kostov").

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: GO

NO REF SOV: 001 OTHER: 004 JPRS

Card 1/1

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, K.A.

Experience in the Use of a Fettling Machine for Electric Furnaces. K. A. Mikhailov. (*Stal'*, 1956, (4), 360-361). (In Russian). Brief descriptions are given of the design and operation of a machine for fettling electric steel-melting furnaces of about 40 tons capacity. The machine has been in successful use at the Chelyabinsk works for several years.

1, 4E2c

Chelyabinsk Metallurgical Plant

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

MIKHAYLOV, K.A., kand. tekhn. nauk.

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MIKHAYLOV, K.

"New hydraulic methods of calculation of filtration in earth dams, dikes and wells."

Dissertation for Doctor of Technical Sciences, Moscow Water Resources Development Institute im. Vil'yams. (MGMI)

Subject: Hydroengineering building and construction.

Gidrotekhnicheskoye, stroitel'stvo, 12, 1946.

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MIKHAYLOV, K.A., professor, doktor tekhnicheskikh nauk; DENISOV, N.Ya., professor, doktor geol.-miner. nauk; FEDOROV, I.V., kandidat tekhnicheskikh nauk.

Method of determining degree of settling in loess-type soils. Stroi. prom. 32 no.5:45-48 My '54. (MLRA 7:6)

1. Deystvitel'nyy chlen Akademii nauk Azerbaydzhanskoy SSR (for Mikhaylov).
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MIKHAYLOV, K. A.

SIDOROV, A.A., kandidat tekhnicheskikh nauk, redaktor; BLIZNYAK, [illegible].V. doktor tekhnicheskikh nauk, professor; OLESHKEVICH, L.V., kandidat tekhnicheskikh nauk, dotsent; AKHUTIN, A.N., doktor tekhnicheskikh nauk, professor; BEREZINSKIY, A.R., doktor tekhnicheskikh nauk, professor; GRISHIN, M.M., doktor tekhnicheskikh nauk, professor; DZHUNKOVSKIY, N.N., doktor tekhnicheskikh nauk, professor; ZHEMOCHKIN, B.N., laureat Stalinskoy premii, doktor tekhnicheskikh nauk, professor; MIKAYLOV, K.A., doktor tekhnicheskikh nauk, professor; NICHIPEROVICH, A.A., doktor tekhnicheskikh nauk, professor; NESTERUK, F.Ya., doktor tekhnicheskikh nauk; NEDRIGA, V.P., kandidat tekhnicheskikh nauk; SAFONOV, P.V., inzhener; LATYSHENKOV, A.M., kandidat tekhnicheskikh nauk, dotsent, redaktor; MUROMOV, V.S., kandidat tekhnicheskikh nauk, dotsent, redaktor; BARSOV, M.V., inzhener, redaktor; MEYSTER, V.A., kandidat tekhnicheskikh nauk, redaktor; LIPKIND, M.V., kandidat tekhnicheskikh nauk, redaktor; LYAPICHEV, P.A., kandidat tekhnicheskikh nauk, redaktor; KARPOV, I.M., kandidat tekhnicheskikh nauk, dotsent, redaktor; REPKIN, V.P., inzhener, redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Hydraulic engineering handbook]Spravochnik po gidrotekhnike. Moskva, Gos.izd-vo lit-ry, po stroit. i arkhit.1955. 828 p. (MLRA 8:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii. 2. Zasluzhenyy deyatel' nauki i

(Continued on next card)

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SIDOROV, A.A., kandidat tekhnicheskikh nauk, redaktor, and others... (Card 2)

[Hydraulic engineering handbook] Spravochnik to gidrotekhnike. Moskva, Gos.izd-vo lit-ry, po stroit i arkhit. 1955. 828 p. (Card 2) (MLRA 8:10)

2. Zasluzhenyy deyatel' nauki i tekhniki RSFSR (for Bliznyak)
3. Deystvitel'nyy chlen Akademii nauk AzSSR (for Mikaylov)
(Hydraulic engineering)

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VESELOV, A.A., inzh.; KARNEYEV, N.A., inzh.; KOZLOVSKIY, L.I., inzh.; STEPANOV, A.I., inzh.; TUSHNYAKOV, M.D., inzh.; SHCHEPET'YEV, A.I., inzh.; VOLNYANSKIY, A.K., glav. red.; SUDAKOV, G.G., zam. glav. red.; TARAN, V.D., red.; SEREBRENNIKOV, S.S., red.; MIKHAYLOV, K.A., red.; STAROVEROV, I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya., red.

[Hoisting and conveying equipment for assembly and specialized operations] Pod"emno-transportnoe oborudovanie dlia montazhnykh i spetsial'nykh rabot. Izd.2., dop. Moskva, Stroiizdat, 1964. 679 p. (MIRA 18:4)

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BOGOMOLOV, Anatoliy Ivanovich, prof.; MIKHAYLOV, Konstantin Aleksandrovich, prof. Prinimal uchastiye SHATAN, V.S., kand. tekhn. nauk; UGINCHUS, A.A., prof., doktor tekhn. nauk, retsenzent; KISELEV, P.G., dots., kand. tekhn. nauk, retsenzent; AL'TSHUL', A.D., retsenzent; OBREZKOV, S.S., inzh., nauchn. red.

[Hydraulics] Gidravlika. Moskva, Izd-vo lit-ry po stroit. 1965. 632 p. (MIRA 18:7)

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[illegible], K.A.

[illegible]

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ulfured and sulfered (frezola) L," Nauch. zapiski Gor'k. in-ta dermatolo i
enerologii i Kafedry k zhno-veronich. Polezhny GoI im. Kirova, Issue 1, 194 ,
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MIKHA[illegible]OV, [illegible]

Mik[illegible]aylov, K. A. "Arsenoxides [illegible]," [illegible]
in-ta [illegible] i [illegible]
[illegible], [illegible] 12, [illegible], [illegible]

[illegible]

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[illegible], L.A.

[illegible]khov, [illegible]. A. [illegible] Sinovezhkina, [illegible].A. "[illegible] [illegible]
[illegible]overshenom)," [illegible]. [illegible] [illegible] [illegible]
[illegible]zhno-vermin[illegible]. [illegible]olozhev [illegible]MI im. [illegible], [illegible], [illegible], [illegible]

[illegible]: [illegible]-[illegible]54, 1[illegible] April 1[illegible], (Le[illegible] is [illegible]urnal [illegible]ykh [illegible], [illegible], [illegible]

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MIKHAYLOV, K.A.

Certain aspects in reinforced syphilis therapy. Vest.vener. no. 2:28-29 Mr-Ap '50. (CLML 19:3)

1. Gor'kiy.

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BATUNIN, M.P., prof., zasluzhennyy deyatel' nauki; KAGAN, M.Z., starshiy nauchnyy sotrudnik; MIKHAYLOV, K.A., dotsent; NOSYREVA, N.N., nauchnyy sotrudnik; KHIZHIN, V.Yu., nauchnyy sotrudnik

Observations on the treatment of syphilitic patients with bicillin I. Vest.derm.i ven. 33 no.5:50-54 S-O '59. (MIRA 13:2)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta i kafedry kozhno-venericheskikh bolezney Gor'kovskogo gosudarstvennogo meditsinskogo instituta imeni S.M. Kirova (direktor instituta i zaveduyushchiy kafedroy - zasluzennyy deyatel' nauki prof. M.P. Batunin).

(SYPHILIS ther.)
(PENICILLIN ther.)

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SHALOV, Ivan Ivanovich; MELIKHOV, Savva Alekseyevich; MIKHAYLOV, Konstantin Dmitriyevich; LIPKOV, I.A., retsenzent; BURMISTROV, M.N., retsenzent; YAKUNKIN, M.T., retsenzent; PLEMYANNIKOV, M.N., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Planning knit goods factories]Proektirovanie trikotazhnykh fabrik. Pod red. I.I.Shalova. Moskva, Gos. nauchno-tekhnicheskoe izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 355 p. (MLRA 8:4)

(Textile factories) (Knit goods)

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MIKHAYLOV, Konstantin Dmitriyevich; KHARITONOV, Lev Fedorovich; GUSEVA, Antonina Aleksandrovna; DALIDOVICH, A.S., redaktor; MIL'CHENKO, I.S. redaktor; NADEZHDINA, N.P., kandidat tekhnicheskikh nauk, retsenzent, [deceased]; IGNATOVA, L.P., kandidat tekhnicheskikh nauk, retsenzent; PLEMYANNIKOV, M.N., redaktor; NEKRASOVA, O.I., tekhnicheskiy redaktor

[Knitting technology] Tekhnologiia trikotazha. Pod obshchei red. A.S. Dalidovicha, L.S. Mil'chenko i K.D. Mikhailova. Moskva, Gos. nauchno-tekhn. izd-vo M-va legkoi promyshl. SSSR, 1956. 825 p. (MLRA 10:5)

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MIKHAYLOV, K.D.

Estimating the coincidance rate in establishing machine productivity norms. Leg.prom.17 no.3:30-34 Mr '57. (MLRA 10:4)
(Knitting machines--Production standards)

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MIKHAYLOV, K.D., kand.tekhn.nauk, dotsent

Possibility of increasing the number of loop-forming systems on circular knitting machines. Izv.vys.ucheb.zav.; tekh.leg.prom. no.3:140-144 '61. (MIRA 14:7)

1. Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii shveynogo proizvodstva.
(Knitting machines)

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MIL'CHENKO, Ivan Stepanovich[deceased]; MIKHAYLOV, K.D., nauchnyy red.; MINAYEVA, T.M., red.; VINOGRADOVA, G.A., tekhn. red.

[Fundamentals of the design of knitting machines]Osnovy proektirovaniia trikotazhnykh mashin. Moskva, Rostekhizdat, 1962. 225 p. (MIRA 16:3)

(Knitting machines)

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MIKHAYLOV, K.D., dotsent; SHEVTSOV, N.F., dotsent; KATSHELENBOGEN, A.M.

Analysis of the process of loop formation. Tekst. prom. 24 no.7: 77-81 Jl '64. (MIRA 17:8)

1. Vsesoyuznyy zaochnyy institut tekstil'noy i legkoy promyshlennosti (VZITLP) (for Mikhaylov, Shevtsov). 2. Zamestitel' nachal'nika nauchno-issledovatel'skoy laboratorii Ivanteyevskoy trikotazhnoy fabriki imeni Dzerzhinskogo (for Katschelenbogen).

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Mikhaylov K.F.

MIKHAYLOV, K.F.

Packer with hemp filling. Neftianik 2 no.12:23-24 D '57. (MIRA 11:2)

1. Starshiy inzhener Gosplana USSR.
(Packing (Mechanical engineering)) (Hemp)

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MIKHAYLOV, K.F., inzh.

Devices for taking off taper keys. Bezop. truda v prom. 2 no.2:34-35 F '58. (MIRA 11:2)

(Machine-shop practice)

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BEKAREVICH, A.N. (Gomel');BERESLAVSKIY, M.D. (Uzhgorod);GROMOV, A.P. (Melekess); DUBINCHUK, Ye.S.;TESLENKO, I.F.(Kiyev);ZOLOTOVITSKIY, Ye.N. (Reutovo); KAZHDAN, B.I. (Leningrad);KLIMENCHENKO, D.V. (Berdyansk);MEL'NIKOV, K.S. (Sterlitamak);MIKHAYLOV, K.F. (Magnitogorsk);NASYROV, A.Z. (Sterlitamak);NEFEDOV, D.I. (Moskva);NOVOSELOV, S.I. (Moskva);PRAVILOV, B.R. (s.Kanino Ryazanskoy obl.);PRINTSEV, N.A.(Kursk);SEMENOVICH, A.F. (Sverdlovsk)

Discussion of the plans for the programs. Mat. v shkole no.6:5-28 N-D '59. (MIRA 13:3)
(Mathematics--Study and teaching)

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KOTOV, V.F.; MIKHAYLOV, K.F. (Magnitogorsk)

Studying the elements of vector algebra in secondary schools. Mat. v shkole no.2:59-64 Mr-Ap '63. (MIRA 16:4)
(Algebra—Study and teaching) (Vector analysis)

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MIKHAILOV

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Brazing Bits with Hard Alloys by Means of Natural Gas. K. Mikhailov (*Azerbaidzhanov Neftyanoe Khozyaistvo*, 1933, (2), 33–35; *C. Abs.*, 1934, **28**, 6691).—[In Russian.] Bits were brazed with copper and Poledit by means of natural gas and oxygen. Because of a lower temperature, the structure of the alloy was only little affected and the bit was more resistant. The hard alloy can be taken off dull bits and used again on new ones.—S. G.

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3RD AND 4TH ORDERS

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Mud solution used in the Stalin oil fields. K. F. Mikhailov. *Azerbaidzhanskoe Neftyanoe Khozyaistvo* 1934, No. 1, 79-81.—The best clay, judging by the colloidal properties, is Bogiogin clay, followed by Kirikishor and Surakhanui clays; this order was observed for both sea-water and ordinary-water suspensions. All clays have inferior colloidal properties when prepd. with sea water. Karachkhur clay varies greatly through the deposit. A. A. Boehtlingk

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001034010015-6

IKHAILOV, K. F.

ne assembly and dismantling of petroleum industrial equipment. Baku, znefteizdat, 1944. 138 p. (50-41612)

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MIKHAILOV, K. F.

Installation of the pumping equipment SKN-3 and SKN-5; work experience in the Asiatic Petroleum Trust. Moskva, Gostoptekhizdat, 19[illegible]. 15 p. (Biuro tekhniko-ekonomicheskoi informatsii [illegible] Tnefti. Obmen otechestvennym opytom. Lobycha) (51-27957)

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