"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V., inzh.

Organization of the assembly of large-panel apartment houses. (MIRA 15:7)
Stroitel' 8 no.5 My '62.
(Apartment houses)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

REZNICHENKO, V.A.; TKACHENKO, V.A.; MIKELADZE, G.Sh.; KARYAZIN, I.A.; KOZLOV, V.M.; NADIRADZE, Ye.M.; SOLOV'YEV, V.I.; GOGORISHVILI, B.P.; Prinimali uchastiye: PKHAKADZE, Sh.S.; METREVELI, A.I.; CHIKASHUA, D.S.; KHROMOVA, N.V.; KAVETSKIY, G.D.; TSKHVEDIANI, R.N.; ARABIDZE, T.V.

Making titanium slag in an electric closed reduction furnace. Titan i ego splavy no.8:28-40 '62. (MIRA 16:1)
(Titanium--Electrometallurgy)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

ACCESSION NR: AP4022707

S/0020/64/155/002/0289/0291

AUTHOR: Tkachenko, V. A.

TITLE: On the spectral analysis of the one-dimensional Schroedinger operator with periodic complex-valued potential

SOURCE: AN SSSR. Doklady*, v. 155, no. 2, 1964, 289-291

TOPIC TAGS: ordinary differential equation, boundary value problem, spectral theory, Hilbert space, functional analysis, Schroedinger operator, one dimensional spectral analysis

ABSTRACT: The author presents results concerning the geometric structure of the closed differential operator T acting on $L_2(-\infty, +\infty)$, defined by the operation

$$-\frac{d^2}{dx^2} + q(x) \qquad (1)$$

where $q(x)$ is a continuous complex-valued periodic function, of period 1. Use is made of the method suggested by I. M. Gel'fand in the case of real $q(x)$. Together with T, consider the family of operators T_t ($-\pi \leq t \leq \pi$) on $L_2(0,1)$,

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defined by (1) and the boundary conditions

$$y(1) = e^{it}y(0),\ y'(1) = e^{it}y'(0)$$

The spectrum of T is the union Σ of the spectra of all T_t, and consists of a countable family of bounded, simple analytic arcs $\Gamma_1, \Gamma_2, \ldots$ Σ is also the union of the roots of the set of equations $A(\lambda) = \cos t$, for $-\pi \leq t \leq \pi$, where $A(\lambda)$ is an entire function. Each Γ_k may be given by an equation of the form

$$\lambda = \omega_k(\cos t) \qquad (2)$$

where ω_k is an invertible function. Let Δ be a closed connected subset of one of the Γ_k which does not include either end-point (at which $A'(\lambda) = 0$), and let $\delta \subset [-\pi, \pi]$ be the pre-image of Δ under (2). For each $t \in \delta$, let φ_t, ψ_t be the characteristic functions of T_t and T_t^* corresponding to the characteristic values $\lambda(t) = \omega_k(\cos t)$ and $\overline{\lambda(t)}$, respectively, normalized so that

$$\int_0^1 |\varphi_t|^2\,dx = \int_0^1 \varphi_t\bar{\psi}_t\,dx = 1.$$

Extend φ_t and ψ_t to the whole real axis by setting

$$\varphi_t(x+m) = e^{imt}\varphi_t(x),\quad \psi_t(x+m) = e^{imt}\psi_t(x)$$
$$(0 \leq x \leq 1,\ m = 0, \pm 1, \pm 2, \ldots).$$

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ACCESSION NR: AP4022707

Finally, for any $f \in \mathcal{L}_2(-\infty,+\infty)$ let $a(t) = \chi_\delta \int_{-\infty}^{\infty} f(x)\,\overline{\psi_t(x)}\,dx$. where χ_δ is the characteristic function of δ, and let $E(\Delta)$ be the operator defined by

$$E(\Delta) f(x) = \frac{1}{2\pi} \int_{-\pi}^{\pi} a(t)\,\varphi_t(x)\,dt. \qquad (4)$$

Then $E(\Delta)$ has some properties of a resolution of the identity: $E(\Delta)$ is bounded, $E(\Delta_1)E(\Delta_2) = E(\Delta_1 \cap \Delta_2)$ hence $E(\Delta)$ is a projection operator. If $f \in \mathcal{L}_2$ $(-\infty,+\infty)$ and $E(\Delta) f = 0$ for all Δ, then $f = 0$. If M denotes the linear closure of the set of functions of form (4), then M is dense in $\mathcal{L}_2(-\infty,+\infty)$, and T coincides with the closure of the operator S induced by T on M. For any Δ, the range of $E(\Delta)$ lies in the domain of T and is invariant under T (and so is the range of $I-E(\Delta)$.) The last result mentioned is that if $A'(\lambda) \neq 0$ for all $\lambda \in \mathcal{E}$, then there is a unitary equivalence between T and the closure of an operator represented by an infinite triangular matrix (operating on a Hilbert space of vector functions). "The author expresses his gratitude to I. M. Glazman for posing the problem, and to Yu. I. Lyubich for a discussion of the results."

ASSOCIATION: Khar'kovskiy Politekhnicheskiy Institut im. V. I. Lenina (Kharkov Polytechnic Institute)

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ACCESSION NR: AP4022707

SUBMITTED: 22Nov63 DATE ACQ: 08Apr64 ENCL: 00

SUB CODE: MA NO REF SOV: 004 OTHER: 000

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

BLAGOV, V.A., inzh.; TKACHENKO, V.A., inzh.; KUDRETS, V.S., inzh.

Manufacture of plastic ship furniture by the method of compressed air molding. Sudostroenie 30 no.5:44-46 My '64. (MIRA 17:6)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

SHVARTSER, A.Ya., inzh.; SHAPOVALOV, S.I., kand.tekhn.nauk; LUGOVAYA, G.V., inzh.; GLAZUNOV, F.A., inzh.; TKACHENKO, V.A., inzh.; MOZNAIM, G.I., inzh.

Electric slag hard facing of beaters in impact-action crushing machines. Svar. proizv. no.3:22-25 Mr '63. (MIRA 16:3)

1. Donetskiy politekhnicheskiy institut (for Lugovaya).
2. Yasinovatskiy mashinostroitel'nyy zavod (for Moznaim).
(Hard facing) (Crushing machines)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

MITROKHIN, A. K., inzh.; TKACHENKO, V. A., teknik

Machine for winding transformers and relays. Energetik 12 no. 4:18-19 Ap '64. (MIRA 17:7)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V. A.

Spectrum analysis of Schrodinger's one-dimensional operator with a periodic complex-valued potential. Dokl. AN SSSR 155 no. 2: 289-291 Mr '64. (MIRA 17:5)

1. Khar'kovskiy politekhnicheksiy institut im. V. I. Lenina. Predstavleno akademikom S. N. Bernshteynom.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, Vera (Moskva)

"Class supervisor." Sov. profsoiuzy 18 no.4:37 F '62. (MIRA 15:3)

(Conduct of life)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, Vera

Life is in your hands. Sov. profsoiuzy 17 no.16:44-45 Ag '61.
(MIRA 14:7)
(Stalingrad--Malpractice)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V., inzh.

Reusable panel holder. Stroitel' no.1:26 Ja '61. (MIRA 14:2)
(Building--Tools and implements)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V., inzh.

Using ordinary presses in tensile-testing of steel pieces.
Stroitel' no.1:27 Ja '60. (MIRA 13:5)
(Steel, Structural--Testing)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.

In the mountains and valleys of Rumania. Vokrug sveta no.1:30-32 Ja '54. (MLRA 7:1)
(Rumania--Description and travel)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.

TKACHENKO, V.

"In new Rumania." Vl.P'iankov, P.Mel'nikov. Reviewed by V.Tkachenko. Vokrug sveta no.6:61-62 Je '54. (MLRA 7:6)
(Rumania--Description and travel) (P'iankov, Vl.) (Mel'nikov, P.)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

BLAGOV, V.A.; TKACHENKO, V.A.; TSARINNIKOV, V.V.

Use of plastics in shipbuilding. Mor. sbor. 47 no.3:68-74 Mr '64.
(MIRA 18:7)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

KORNEVA, N.K.; ANDREYEV, V.L.; DOROFEYEV, G.A.; GRINEVICH, I.P.; VINOKUROV, Ye.B.; TKACHENKO, V.A.

Study of the operation of ports in heavy duty open-hearth furnaces. Stal' 25 no.4:324-325 Ap '65. (MIRA 18:11)

1. Donetskiy institut chernoy metallurgii.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

LYUBICH, Yu.I.; TKACHENKO, V.A.

Uniqueness and approximation theorems for a local Laplace transformation. Dokl. AN SSSR 164 no.2:273-276 S '65. (MIRA 18:9)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo i Khar'kovskiy politekhnicheskiy institut im. V.I. Lenina.
Submitted February 16, 1965.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

BLAGOV, V.A., inzh.; TKACHENKO, V.A., inzh.

Industrial area for manufacturing plastic furniture for ships.
Sudostroenie 27 no.10:64-65 O '61. (MIRA 14:12)
(Furniture)
(Plastics)
(Ships—Equipment and supplies)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

KOSTYUK, D.I., kand.tekhn.nauk, dots.; TKACHENKO, V.A., inzh.

Effect of the reference shape of toothed racks according to the All-Union State Standard 3058-54 on the efficiency of flanking. Izv.vys.ucheb.zav.; mashinostr. no.7/8:95-108 '58. (MIRA 12:8)

1. Khar'kovskiy aviatsionnyy institut.
(Gearing)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.A.; KOZLOV, V.M.; GUSEVA, K.S.

Investigating certain regularities in the reduction of iron-titanium concentrates in the solid phase. Titan i ego splavy no.9:70-81 '63. (MIRA 16:9)

(Titanium--Electrometallurgy)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

DYURGEROV, N.G.; RYLOV, L.A.; ISHCHENKO, Yu.L.; TKACHENKO, V.A.; BARILOV, O.A.; ZHIDKOV, A.I.; GRIGOR'YEV, G.G.

Using GSR-9000 generators for submerged arc welding. Mashinostroitel' no.9:33 S '62. (MIRA 15:9)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

MIKHAYLOV, V.G., doktor tekhn.nauk; KRAPIVIN, M.G., kand.tekhn.nauk;
KARYUK, G.G., kand.tekhn.nauk; KOZHENTSEV, Yu.T., aspirant;
GARASHCHENKO, P.A., aspirant; MALYAROV, G.P., aspirant;
KOGAN, K.B., inzh.; SUKACH, V.D., inzh.; TKACHENKO, V.A., inzh.;
LINENKO, Yu.P., inzh.; MOZNAIM, G.I., inzh.; MARTYNENKO, I.A., inzh.

Cutting tool for the cutter loader. Ugol' Ukr. 6
no.8:37-39 Ag '62. (MIRA 15:11)
(Coal mining machinery)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V. A.

"The Architecture of a Sanatorium Complex." Cand in Architecture, Acad of Architecture Ukrainian SSR, 25 Dec 54. (PU, 15 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

884
TKACHENKO, V A .T6

Arkhitektura sanatoriya (Architecture of sanatoriums) Kiyev, Izd-vo Akademii arkhitektury Ukrainskoy SSR, 1954.

153 p. illus., diagrs., map, tables.

At head of T.-P.: "Akddemiya arkhitektury Ukrainskoy SSR. Institut arkhitektury sooruzheniy".

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKHCHENKO, V. A.

NEVRAYEV, G.A., kandidat meditsinskikh nauk; SVIRSKIY,V,L., kandidat arkhitektury.

"Architecture of a sanatorium." V.A. Tkachenko. Reviewed by. G.A. Nevraev, V.L. Svirskii. Vop.kur.fizioter. i lech. fiz. kul't. no.2:80-82 Ap-Je '55. (MLRA 8:8)
(Sanatoriums) (Tkanchenko, V.A.)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V. A.

LYSAYA, L. G. Institut Arkhitektury Sooruzheniy Akademii Arkhitektury USSR. i TKACHENKO, V. A. Ml. Nauchnyye sotrudniki, SHTEYNBERG, YA. A. Ch- Korr. Akademii Arkhitektury USSR

Seriya 2-etazhnykh shlakoblochnykh zhilykh domov s primeneniyem konstruktsiy zavodskogo izgotovleniya Page 73

SO: Collections of Annotations of Scientific Research Work on Construction, completed in 1950. Moscow, 1951

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.A.; KOZLOV, V.M.; GUSEVA, N.S.; Prinimali uchastiye: RAPOPORT, M.B.; MIKHAYLOV, N.S.

Making high-titanium slags of iron-titanium concentrates from coastal placers. Titan i ego splavy no.9:86-95 '63. (MIRA 16:9)
(Titanium--Electrometallurgy)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

25 (1) SOV/145-58-7/8-11/24

AUTHORS: Kostyuk, D.I., Candidate of Technical Sciences, Docent and Tkachenko, V.A., Engineer

TITLE: Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Mashinostroyeniye, 1958, Nr 7-8, pp 95-108 (USSR)

ABSTRACT: A theoretical substantiation of flanking angle values is given in the work by M.S. Polotskiy, "Initial and Working Form of Toothed Rack". TsNIITMASh, Book 13. Theory and Estimation of Toothed Gears and Slide Bearings, Mashgiz, 1948 [1]. The above work is based on the GOST 3058-45 which was later superseded by the GOST 3058-54. The new GOST gives for the flanking angles considerably lesser values (sometimes by twice smaller) than is the case with the GOST 3048-45. The purpose of this article is to establish the optimum flanking angles when meshing different pairs of toothed wheels. The authors analyze two cases: 1) Driv-

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

ing wheel pitch is greater than that of driven wheel, that is, $t_1 > t_2$; 2) Driving wheel pitch is smaller than that of driven wheel: $t_1 < t_2$. For the first case, the flanking angles are defined by diagrams a, b, c (Fig 1); for the second case - by diagrams a, b, c (Fig 2). In Fig 3, profiles of driving and driven wheel teeth at the beginning of their meshing are shown; Fig 4 illustrates position of the teeth at the initial and final moment of their meshing. The efficiency of flanking is expressed by the function

$$\frac{V_k}{V_f} = \frac{\frac{C_1}{K}\sqrt{\frac{\Delta_a}{d_1}}}{\cos\alpha_d - \cos(\alpha_d + \alpha_f)}$$

, where V_k is impact speed of non-flanked teeth; V_f - impact speed of flanked teeth; C_1 - coefficient for standard gears determined in Table 4;

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Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

$K = \frac{V_s}{V_k}$, where V_s is central impact speed; $\Delta_o = t_1 - t_2$; α_f - angle of flanking. The values expressing the efficiency of flanking obtained by the authors exceed by 1.4-1.93 times those received by experimental method; the same values calculated by the method of M.S. Polotskiy are by 2.5-3.3 times greater than the experimental ones. After the research, the authors arrive at the following conclusions: 1) When the difference in gear pitches is slight, the efficiency of flanking is not over 1.15; 2) When this difference approaches its maximum permissible value, the flanking efficiency varies between 1 and 6.9; 3) the maximum efficiency is obtained when the number of teeth on both gears $Z_1 = Z_2$ (the gear ratio is equal to 1);

Card 3/4 4) efficiency of flanking is small when the number of

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

teeth and the flanking angles are large; in some cases the flanking may even result in a negative effect; 5) increasing the modulus (at equal angles α_f) diminishes the efficiency; 6) efficiency is increased with the increased degree of accuracy in manufacturing toothed gears. There are 6 tables, 7 figures and 3 references, 2 of which are Soviet and 1 German.

ASSOCIATION: Khar'kovskiy aviatsionnyy institut (Khar'kov Aviation Institute)

SUBMITTED: December 17, 1957

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.A., inzh.

Increasing the efficiency of planetary mechanisms of boring units. Vest.mashinostr. 42 no.6:10-14 Je '62. (MIRA 15:6)
(Drilling and boring machinery) (Gearing)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

RYDCHENKO, V.M., inzh.; TKACHENKO, V.A., inzh.

Determining the coefficient of basic load of a tightened bolt joint. Vest.mashinostr. 42 no.8:15-18 Ag '62. (MIRA 15:8)
(Bolts and nuts)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

REZNICHENKO, V.A.; TKACHENKO, V.A.; SIRYAPOV, G.V.; KOZLOV, V.M.; SIDORENKO, G.D.

Reduction of ilmenite concentrates in a fluidized bed. Titan i ego splavy no.5:60-64 '61. (MIRA 15:2)
(Titanium--Metallurgy)
(Fluidization)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

POLYAKOV, Ye.M., inzh.; TKACHENKO, V.A., inzh.

Establish contours of old flooded workings exactly.
Bezop.truda v prom. 4 no.7:11 Jl '60.
(MIRA 13:8)

(Mining engineering)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

SOV/98-59-6-14/20

14(10)

AUTHORS: Konopkin, B.K., Candidate of Technical Sciences and Tkachenko, V.A., Engineer; Zababurin, I.A., Candidate of Technical Sciences

TITLE: On Hydraulic Resistances of the Sub-Surface Flat Floodgates of Round Cross-Section

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 6, pp 48-49 (USSR)

ABSTRACT: In the first part of this article the first two authors criticize the article under the same title by I.A. Zababurin published in Nr 2 (1956) of this periodical, and in the second part, Zababurin defends his viewpoint. His opponents find that the resistance coefficient as given by Zababurin is exaggerated and, as a result, the real passing capacity of the floodgate will be different from that indicated by Zababurin. The latter explains that his opponents checked his formula with a model of a floodgate, different from the one he described, and which

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

On Hydraulic Resistances of the Sub-Surface Flat Floodgates of Round Cross-Section

is at present widely used. There are 2 diagrams.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

SOV/137-58-12-24328

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 56 (USSR)

AUTHORS: Rapoport, M. B., Tkachenko, V. A.

TITLE: Production of Titanium Lacquers (Proizvodstvo titanovykh lakov)

PERIODICAL: V sb.: Legkiye metally. Nr 4. Leningrad, 1957, pp 108-111

ABSTRACT: Studies by VAMI [All-Union Aluminum and Magnesium Institute] on the technology of production of Ti slag from ilmenite concentrate are presented. Experimental melts yield slag containing 1-2% FeO and 80-90% TiO_2.

M. M.

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25 (1)

SOV/145-58-7/8-11/24

AUTHORS: Kostyuk, D.I., Candidate of Technical Sciences, Docent and Tkachenko, V.A., Engineer

TITLE: Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Mashinostroyeniye, 1958, Nr 7-8, pp 95-108 (USSR)

ABSTRACT: A theoretical substantiation of flanking angle values is given in the work by M.S. Polotskiy, "Initial and Working Form of Toothed Rack". TsNIITMASh, Book 13. Theory and Estimation of Toothed Gears and Slide Bearings, Mashgiz, 1948 [1]. The above work is based on the GOST 3058-45 which was later superseded by the GOST 3058-54. The new GOST gives for the flanking angles considerably lesser values (sometimes by twice smaller) than is the case with the GOST 3048-45. The purpose of this article is to establish the optimum flanking angles when meshing different pairs of toothed wheels. The authors analyze two cases: 1) Driv-

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Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

ing wheel pitch is greater than that of driven wheel, that is, $t_1 > t_2$; 2) Driving wheel pitch is smaller than that of driven wheel: $t_1 < t_2$. For the first case, the flanking angles are defined by diagrams a, b, c (Fig 1); for the second case - by diagrams a, b, c (Fig 2). In Fig 3, profiles of driving and driven wheel teeth at the beginning of their meshing are shown; Fig 4 illustrates position of the teeth at the initial and final moment of their meshing. The efficiency of flanking is expressed by the function

$$\frac{V_k}{V_f} = \frac{\frac{C_1}{K}\sqrt{\frac{\Delta_e}{d_1}}}{\cos\alpha_d - \cos(\alpha_d + \alpha_f)}$$

, where V_k is impact speed of non-flanked teeth; V_f - impact speed of flanked teeth; C_1 - coefficient for standard gears determined in Table 4;

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Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

$K = \frac{V_s}{V_k}$, where V_s is central impact speed; $\Delta_o = t_1 - t_2$; α_f - angle of flanking. The values expressing the efficiency of flanking obtained by the authors exceed by 1.4-1.93 times those received by experimental method; the same values calculated by the method of M.S. Polotskiy are by 2.5-3.3 times greater than the experimental ones. After the research, the authors arrive at the following conclusions: 1) When the difference in gear pitches is slight, the efficiency of flanking is not over 1.15; 2) When this difference approaches its maximum permissible value, the flanking efficiency varies between 1 and 6.9; 3) the maximum efficiency is obtained when the number of teeth on both gears $Z_1 = Z_2$ (the gear ratio is equal to 1); 4) efficiency of flanking is small when the number of

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Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

teeth and the flanking angles are large; in some cases the flanking may even result in a negative effect; 5) increasing the modulus (at equal angles α_f) diminishes the efficiency; 6) efficiency is increased with the increased degree of accuracy in manufacturing toothed gears. There are 6 tables, 7 figures and 3 references, 2 of which are Soviet and 1 German.

ASSOCIATION: Khar'kovskiy aviatsionnyy institut (Khar'kov Aviation Institute)

SUBMITTED: December 17, 1957

Card 4/4

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V. A.

1857

Arkhitektura sanatornogo kompleksa. Analiz praktiki I printsipy proektirovaniya primenitel'no k usloviyam Ukr. SSR. Kiev, 1954
20 sm. 22 sm. (Akad. Arkhitektury Ukr. SSR. In-t Arkhitektury sooruzheniy).
100 ekz. B. Ts.- (54-55122)

SO: Knizhnaya Letopis', Vol. 1, 1955

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

S/147/59/000/04/020/020
E031/E413

AUTHOR: Zolotukhin, V.K.

TITLE: The Scientific-Technical Conference at Khar'kov Aviation Institute

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya tekhnika, 1959, Nr 4, pp 161-165 (USSR)

ABSTRACT: In May 1959, the 16th Conference of Professorial and Teaching Staff took place.

Mathematics and Mechanics Section. The following papers were read: "A Spectral Representation of the Theory of Axisymmetric Turbulence" by Candidate of Physical and Mathematical Sciences G.M.Taranova; "Some Evaluations for Functions with Positive Real Parts" by Assistant G.S.Shpak; "Existence, Uniqueness and Correctness Theorems for Mixed Systems of Functional Equations" by Docent, Candidate of Physical and Mathematical Sciences M.N.Tikhov; "On the Application of Boll and Chebyshev Points to the Solution of Some Problems in the Synthesis of Four Bar Linkages" by Docent, Candidate of Physical and Mathematical Sciences Ya.L.Geronimus; "The Influence of the Structural Properties of Functions on the Convergence Almost Everywhere of their Conjugate Fourier Series" by Docent, Candidate of Physical and Mathematical Sciences B.I.Golinskiy.

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General Technological Section. The following papers were read: "The Relation Between the Compton Length of Waves, the Length of de Broglie Waves and the Acceleration Potential for High Energy Particles" by Docent, Candidate of Physical and Mathematical Sciences I.Ya.Mints; "The Problem of Determining the Heat Transfer Coefficient of Conductors" by Senior Instructor P.P.Bezuglov; "An Electron-Graphical Method of Investigating the Structure of Matter" by Assistant I.Ya.Surovtsev; "On the Results of the VIII th Mendeleyev Congress of Chemists of the USSR" by Docent, Candidate of Chemical Sciences E.I.Krech.

Electrical and Radio Technology Section. The following papers were read; "On the Problem of the Optimum Passage of Transients in an Electric Drive with a Controlling Exciter" by Docent, Candidate of Technical Sciences M.M.Perel'muter; "The Experimental Determination of the Reactances in Synchronous Machines" by Senior Instructor S.V.Khmel'nitskiy; "An Experimental Method of Investigating Electric Fields" by Assistant A.I.Lopatin; "A Discrete Transformer of Current into Code Signals with Magneto-Electric Comparison Units" by Docent, Candidate of Technical Sciences G.M.Butayev; "The Application of Infrared Instruments in Aviation" by Docent, Candidate of Technical Sciences I.D.Artamonov.

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General Engineering Section. "The Adaptation of a Thermobaric Chamber to the Simulation of the Sinking of a Mine Shaft in Quicksand and Certain Results of Investigations to Determine the Mechanical Characteristics of Sand at Different Temperatures and Humidities" by Docent, Candidate of Technical Sciences S.V.Blyashenko; "Friction and Abrasion in Cermets" by Docent, Candidate of Technical Sciences O.I.Goldayeva; "The Construction of Multi-Satellite Planetary Gears" by Assistant V.A.Tkachenko; "The Influence of Work Hardening on the Fatigue of Threaded Connections" by Assistant V.M.Rydchenko; "Investigation of Cermets Slide Bearings" by Assistant A.S.Efoyan.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, Viktor Andreyevich; DOBROVOL'SKIY, V.A., prof., doktor tekhn. nauk, retsenzent; D'YACHENKO, S.K., dots., kand. tekhn. nauk, retsenzent; KOSTYUK, D.I., kand. tekhn. nauk, otv. red.; TRET'YAKOVA, A.N., red.; KOGAN, Ye.M., tekhn. red.

[Designing multisatellite planetary transmissions] Proektirovanie mnogosatellitnykh planetarnykh peredach. Khar'kov, Izd-vo Khar'kovskogo gos.univ. im. A.M.Gor'kogo, 1961. 181 p. (MIRA 15:8)
(Gearing)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

DRUCHENKO, V.A.; TKACHENKO, V.A.; MARCHENKO, N.A., kand. tekhn. nauk, nauchnyy red.; DONSKOY, Ya.Ye., red.; SHEVCHENKO, M.G., tekhn. red.

[Ultrasonics are an asset to industrial production] Ul'trazvuk pomogaet proizvodstvu. Khar'kov, Khar'kovskoe knizhnoe izd-vo, 1963. 55 p. (MIRA 16:7)
(Ultrasonic waves--Industrial applications)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

RYDCHENKO, V.M., assistent; TKACHENKO, V.A., starshiy prepodavatel'

Determining stresses in a tightly bolted joint taking into consideration the changes in the rigidity of intermediate parts. Izv. vys.ucheb.zav.;mashinostr.no.1:44-48 '63. (MIRA 16:5)

1. Khar'kovskiy aviatsionnyy institut.
(Bolts and nuts) (Strains and stresses)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

L 22918-66 EWT(m)/ETC(m)-6/T WW/DJ

ACC NR: AP6007892 SOURCE CODE: UR/0420/65/000/002/0042/0050

AUTHOR: Tkachenko, V. A.

ORG: none

30
B

TITLE: Theoretical and experimental determination of the dynamic loads on the teeth of planetary gears

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 2, 1965, 42-50

TOPIC TAGS: dynamic load, transmission gear, impact stress

ABSTRACT: The author investigates the AI gear described earlier by V. A. Tkachenko (Kopredeleniyu dinamicheskikh nagruzok na zub'yakh planetarnykh peredach. Trudy KhAI, vyp. 22, Izd-vo KhGU, 1963). The following conditions are imposed: (1) During the impact, prior to the attainment of the maximum force of the impact, the static load is transmitted by the couple ahead; (2) the specific rigidities of the tooth engagements during impact are constant; (3) the number of teeth of the wheels are multiples of the number of satellites; in this case the impacts appear simultaneously in the engagement of the central wheel with all the satellites. In the first approximation, it is assumed that the appearing impact does not cause variations in the load in the engagement of the other central wheel with the satellites. The results of the tests conducted are analyzed. It is found that the dynamic load increases with an increase in peripheral speed. At a lower static load the increase in the dynamic load is

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ACC NR: AP6007892

more appreciable; at a higher load the increase in the dynamic load (at speeds above 8 m/sec) is slower. The dynamic load increases with an increase in the mass of the components. There is a less marked increase in the dynamic load with an increase in the mass of the satellites. At lower static loads the influence of the mass is greater than that at higher loads. A comparison of the curves of the variation of mass effect coefficients obtained theoretically and experimentally lead to the conclusion that the formulas derived are fundamentally correct. A final recommendation requires further work. Orig. art. has: 3 figures and 30 formulas.

SUB CODE: 20,13/ SUBM DATE: none / ORIG REF: 004

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

ACC NR: AP7005597 (A) SOURCE CODE: UR/0413/67/000/002/0023/0024

INVENTOR: Verigin, V. N.; Tkachenko, V. A.; Varyushenkov, A. M.

ORG: None

TITLE: A method for producing technically pure silicon. Class 12, No. 190356 [announced by the All-Union Scientific Research and Design Institute of the Aluminum, Magnesium and Electrode Industry (Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut alyuminiyevoy, magniyevoy i elektrodnoy promyshlennosti)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 23-24

TOPIC TAGS: silicon, metal purification, quartz

ABSTRACT: This Author's Certificate introduces: 1. A method for producing technically pure silicon by reduction of silicon-containing raw material. To provide a wider range of raw materials and reduce the cost of the product, a silicon-containing material such as quartzite fines or quartz sand is mixed with a reducing agent such as green and partially metamorphosed minerals, coal with poor sintering properties, lignin or products formed by low-temperature carbonization or coking of these materials. The resultant silicon is then pressed and subjected to conventional treatment. 2. A modification of this method with intensification by conducting the reduction process in the presence of organic additives, specifically wastes from the wood processing industry as briquets or in some other form.

SUB CODE: 11, 07/ SUBM DATE: 16Jan65

Card 1/1

UDC: 546.28-121

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

KOMPAN, Ye.G.; RUTGAYZER, I.D.; TKACHENKO, V.A., otv. za vypusk; LYSENKO, I.F., red.; CHERNYSHENKO, Ya.T., tekhn. red.

[Use of plastic materials in the machinery manufacture; list of literature (for inventors, efficiency promoters, and innovators of the industry)] Primenenie plastmass v mashinostroenii; katalog literatury (v pomoshch' izobretateliam, ratsionalizatoram i novatoram proizvodstva). Khar'kov, Izd-vo TsBTI Khar'kovskogo SNKh, 1960. 55 p. (MIRA 16:7)

1. Khar'kov. TSentral'naya nauchno-tekhnicheskaya biblioteka. (Plastics) (Machinery industry)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

REZNICHENKO, Vladlen Alekseyevich; ROPOPORT, Mikhail Borisovich; TKACHENKO, Vasiliy Andreyevich; DMITROVSKIY, Ye.B., kand.tekhn.nauk, otv.red.; MAKOVSKIY, G.M., red.izd-va; GOLUB', S.P., tekhn.red.; LAUT, tekhn.red.

[Titanium metallurgy; investigating the electric melting of titanium slags] Metallurgiia titana; issledovanie elektroplavki titanovykh shlakov. Moskva, Izd-vo AN SSSR, 1963. 198 p. (MIRA 16:9)
(Titanium--Electrometallurgy)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

ZYKOV, A.I.; TKACHENKO, V.D.; OSTROVSKIY, Ye.K.

Measurement of the reflection coefficient of a periodic wave guide in pulsed operation. Radiotekh. i elektron.5 no.12: 1933-1936 D'60. (MIRA 13:11)

1. Fiziko-tekhnicheskiy institut AN USSR.
(Wave guides)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

ACC NR: AP7005881 SOURCE CODE: UR/0181/66/008/012/3683/3684

AUTHOR: Volod'ko, L. V.; Lappo, M. T.; Lomako, V. M.; Tkachev, V. D.

ORG: Belorussian State University im. V. I. Lenin, Minsk (Belorusskiy gosudarstvennyy universitet)

TITLE: Modulation of light reflected from silicon p-n junctions irradiated with fast neutrons

SOURCE: Fizika tverdogo tela, v. 8, no. 12, 1966, 3683-3684

TOPIC TAGS: pn junction, neutron irradiation, fast neutron, light reflection, light modulation

ABSTRACT: Working on the assumption that the spectra of modulated reflected light can yield information on the energy spectrum of radiation damage in semiconductor crystals, especially directly in the vicinity of p-n junctions, the authors have measured the dependence of the intensity of reflected light on the magnitude of the current through a p-n junction in n-type silicon with specific resistivity 0.5 ohm-cm. The junction was prepared by diffusion, the light was produced by an incandescent lamp, and the reflected light was measured with a monochromator. The nonequilibrium carriers were injected by applying unipolar current pulses at 20 cps frequency in the forward direction. Reflection from nonirradiated control samples was observed over the entire spectral range (0.8 - 2.5 μ) and exhibited no structure. Irradiation with neutrons (integral dose from 10^{15} to 10^{18} neut/cm^2) produced a clear-cut structure in the spec-

Card 1/2 UDC: none

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

ACC NR: AP7005881

tral region from 1 to 2.5 μ. The shape of the spectra depend on the irradiation dose and on the subsequent heat treatment, thus pointing to a direct connection between the observed maxima and the damage produced by the radiation. From a comparison of the data obtained with earlier results (FTT v. 5, 3188, 1963) on the photoconductivity in irradiated silicon crystals, it is concluded that the maxima observed on the structure are correlated with the radiation-damage levels determined in the earlier paper. Orig. art. has: 2 figures.

[02] [WA95]

SUB CODE: 20/ SUBM DATE: 01Jul66/ ORIG REF: 001/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

ACC NR: AP7007511 SOURCE CODE: UR/0250/67/011/001/0013/0015

AUTHOR: Sevchenko, A. N. (Academician AN BSSR); Tkachev, V. D. Lugakov, P. F.

ORG: Belorussian State University im. V. I. Lenin (Belorusskiy gosudarstvennyy universitet)

TITLE: Electric and photoelectric properties of p-type silicon single crystals irradiated with fast neutrons

SOURCE: AN BSSR. Doklady, v. 11, no. 1, 1967, 13-15

TOPIC TAGS: neutron irradiation, silicon single crystal, crystal property, PHOTOELECTRIC PROPERTY, ELECTRIC PROPERTY

ABSTRACT: An investigation was made of the electric and photoelectric properties of silicon p-type single crystals irradiated with fast neutrons. The investigated crystals contained about 10^{18} oxygen atoms per cubic centimeter. Initial resistivity was 1 and 30 ohm·cm for lower- and higher-purity crystals respectively. The specimens were irradiated in a reactor with various fast neutron fluxes (1×10^{13}—5×10^{18} neutrons/cm^2). The electrical conductivity was measured before and after irradiation, and the photoconductivity spectra were taken at room and nitrogen temperatures. It is shown that the increase of integral

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ACC NR: AP7007511

flux of fast neutrons leads to an increase in resistivity, i.e., to compensation of the principal chemical impurity. In the higher-purity crystals (30 ohm·cm), a larger change in resistivity at smaller irradiation doses (10^{15} neutrons/cm^2) was observed than in the lower-purity crystals (1 ohm·cm), in which the resistivity begins to change only at fluxes exceeding 10^{15} neutrons/cm^2. The photoconductivity spectra of p-type silicon crystals with a 30 ohm·cm resistivity irradiated with a flux of 1 x 10^{15} neutrons/cm^2 show a rise in photoconductivity in the region of wavelengths: 3.1, 2.8, 2.6, 2.2, 1.65, and 1.25 μm, which correspond to the energy minima necessary to bring electrons from the valence band to free levels: E_v+0.40 ev, E_v+0.45 ev, E_v+0.76 ev (E_c-0.40 ev), and E_v+0.99 ev (E_c-0.16 ev) with the formation of majority carriers (holes). The photoconductivity spectra of a crystal irradiated with a flux of 1 x 10^{16} neutrons/cm^2 show that in the range 1.4-1.6 μm optical quenching of the photoconductivity occurs. The rise in photoconductivity can be associated with centers which introduce into the forbidden band of p-type silicon the following levels: E_v+0.30 ev, E_v+0.35 ev, E_v+0.38 ev, E_v+0.40 ev, and E_v+0.45 ev. When the crystals are irradiated with a flux of 1 x 10^{17} neutrons/cm^2 a series of centers appears on the photoconductivity spectrum which introduce deep levels into the forbidden band. In the range 2.5-3.6 μm, a longwave optical photoconductivity quenching takes place. Orig. art. has: 2 figures. [WA95] [JA]

SUB CODE: 20/ SUBM DATE: none

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

ATAMALYAN, E.G.; SKLOVSKIY, G.O.; TKACHENKO, V.G. [deceased].

Studying strain distribution in members of the VAS-42 A-shaped derrick. Neft. khoz. 35 no.9:28-31 S '57. (MIRA 11:1)
(Oil well drilling--Equipment and supplies)
(Strains and stresses)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V. G.

"On the Kinetics of the Oxidating-Reducing Potentials. IV." by A. I. Kotinjan J.J. Appenin, and stud. V. G. Tkachenko (p. 1599)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1946, Volume 16, No. 10

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

S/109/60/005/012/010/035
E192/E482

9,1310

AUTHORS: Zykov, A.I., Tkachenko, V.D. and Ostrovskiy, Ye.K.

TITLE: Pulse Measurement of the Reflection Factor of a Periodic Waveguide

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.12, pp.1933-1936

TEXT: The paper presents a method and experimental results of measuring the reflection factor of a diaphragmed waveguide under pulse conditions. It is found that the distortion of the pulse envelope in such a waveguide 3.5 m long is very severe and the SWR measured under stationary conditions does not reflect the true situation. The envelope settling time is much greater than the pulse duration (2 μ sec). The form of pulse reflected back to the input of the waveguide at various frequencies is shown in Fig.3. Under such conditions, the SWR measured by a pulse method can only have a formal significance; in the present paper the SWR was measured at the centre of the pulse. Under these conditions, differences of up to 35% between the pulse and stationary SWR's were found. There are 3 figures and 1 table.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

Pulse Measurement of ...

S/109/60/005/012/010/035
E192/E482

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR
(Physicotechnical Institute AS UkrSSR)

SUBMITTED: February 29, 1960

Fig.3.

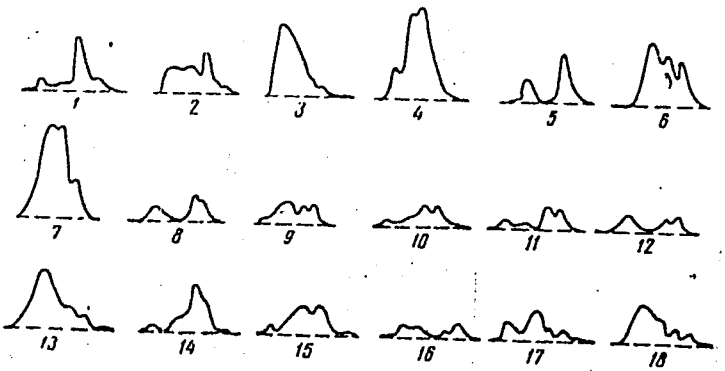

Рис. 3. Форма отраженного импульса на входе диафрагмированного волновода при различных частотах

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.F.

Effect of intrusions on the metamorphism of coals in the South Donets Basin deposit. Geol.zhur. 22 no.4:89-94 '62.
(MIRA 15:9)

1. Trudivs'ka GRP.
(Donets Basin--Coal geology) (Metamorphism)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.F.

Time of the formation of tectonic structures in the southwestern margin of the Donets Basin. Geol. zhur. 24 no.1:97-101 '64. (MIRA 18:7)

1. Dnepropetrovskaya ekspeditsiya Ukrainskogo nauchno-issledovatel'skogo gornorudnogo instituta.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.F.

Tectonics of the southern wing of the Kal'mius-Toretsk trough in the Donets Basin. Trudy UkrNIGRI no.5:35-42 '63.

(MIRA 18:3)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TRACHENKO, V.F.

Origin of some coal bed "washouts" in the Donets Basin. Geol. zhur. 24 no.2:48-51 '64 (MIRA 18:2)

1. Dnepropetrovskaya ekspeditsiya, Ukrainskiy nauchno-issledovatel'skiy gornorudnyy institut.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

MILERYAN, Ye.A.; TKACHENKO, V.G.

Influence of exercise on the value of the spatial threshold of tactile differentiation. Vop.psikhol. 7 no.3:60-69 My-Je '61. (MIRA 14:6)

1. Institut psikhologii USSR.
(Exercise) (Senses and sensation) (Skin)

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L 05706-67 EWP(k)/EWT(d)/EWT(m)/EWF(h)/T/EWP(l)/EWP(w)/EWI(w)/EWP(t)/ETI IJP(c)
ACC NR: AP6029677 JD/HM/JG (N) SOURCE CODE: UR/0136/66/000/008/0090/0092

AUTHOR: Kharchenko, G. K.; Tkachenko, V. G.

ORG: none

TITLE: Titanium cladding of steel with a vanadium insert

SOURCE: Tsvetnyye metally, no. 8, 1966, 90-92

TOPIC TAGS: metal cladding, titanium ~~cladding~~, titanium ~~clad~~ steel, metal property

ABSTRACT: Titanium cladding of steel with a vanadium insert has been tested. The cladding was done by rolling a pack consisting of electrolytically polished steel, vanadium, and titanium sheets in a two-high vacuum mill 170 at 1000C. It was found that the bond strength of clad sheets was over 30 kg/mm^2. Fracture occurred in the steel-vanadium transition zone, because of the layer containing brittle vanadium carbides with microhardness of over 1150 kg/mm^2. Alloying the steel with up to 20% carbon-forming elements did not reduce the diffusion of carbon from steel to vanadium. Diffusion of carbon increases with increased reduction. Therefore, rolling should be performed at the lowest possible temperature and reduction. In another experiment, high-purity vanadium (less than 0.02% carbon) was diffusion bonded to titanium, and to titanium and iron, in vacuum at 900C. Two diffusion layers were found in the transition zone between titanium and vanadium. One, on the vanadium side, was β-titanium (microhardness - 200—300 kg/mm^2); the other consisted of α-phase and

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oversaturated α'-phase (microhardness - 400—500 kg/mm^2). The microstructure of the transition zone between iron and vanadium showed again the presence of vanadium carbides. Orig. art. has: 3 figures. [TD]

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 003/ ATD PRESS: 5069

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

KHARCHENKO, G.K.; TKACHENKO, V.G.

Preparation of test pieces for the mechanical testing of bimetals. Zavod. lab. 38 no.2:189-190 F '65.

(MIRA 18:4)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.G., assistent

Amylase activity of the saliva in some [illegible] in man. Trudy OMI no.54:71-75 '66. (MIRA 18:10)

1. Iz kafedry biologicheskoy khimii (zav.- dotsent [illegible] Stepanenko) Omskogo meditsinskogo instituta.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.G.,
A. L. KOTMYAM, ZhOKh 16, 1599-1612 (1946)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

PETROV, Mikhail Aleksandrovich; TKACHENKO, Vladimir Gerasimovich; TSYBULEVSKIY, B.L., red.; YERKHOVA, Ye.A., tekhn. red.

[Black guard of the Pentagon] Chernaia gvardiia Pentagona. Moskva, Izd-vo In-ta mezhdunarodnykh otnoshenii, 1962. 55 p. (United States--Army) (MIRA 15:6)

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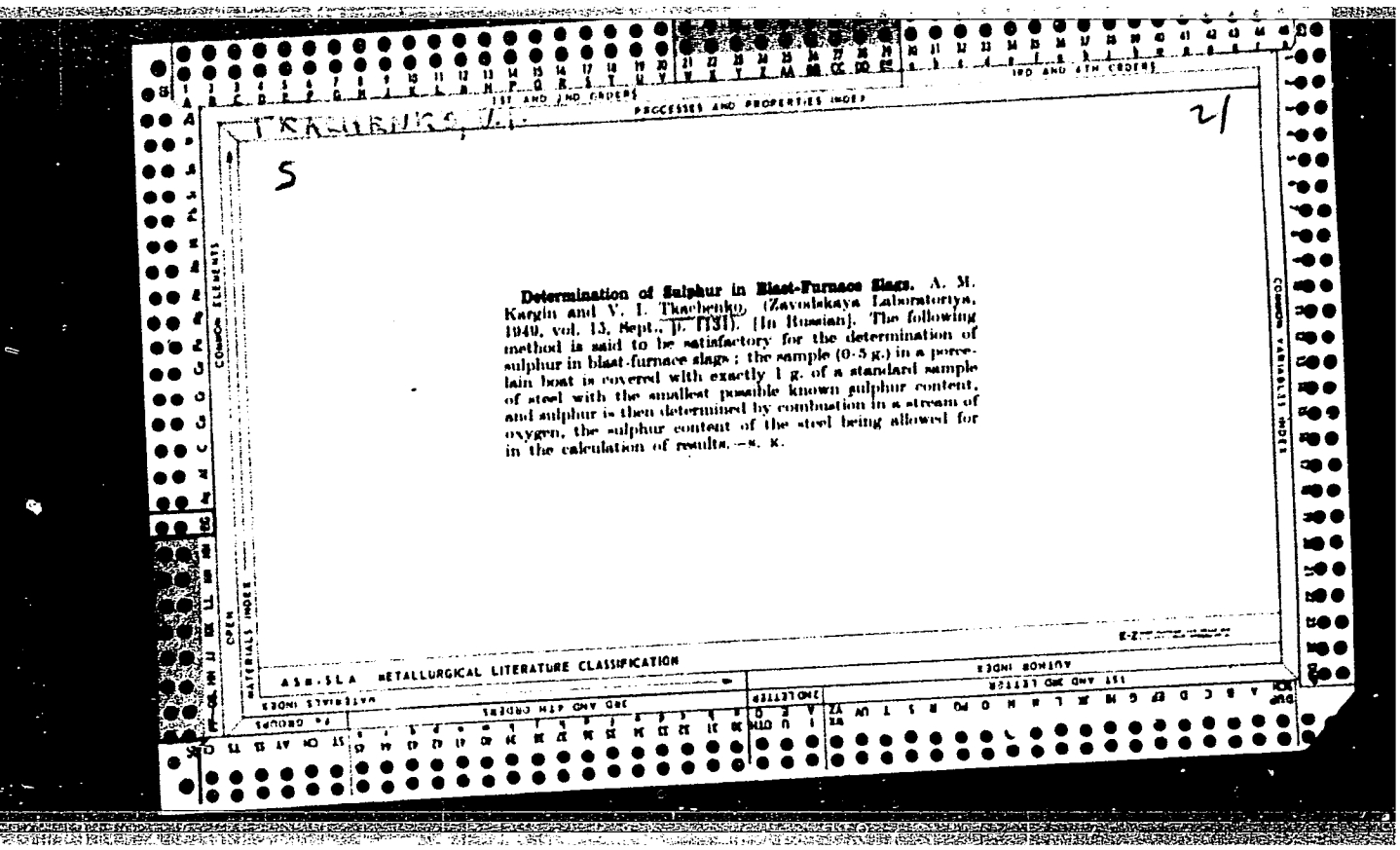

Determination of Sulphur in Blast-Furnace Slags. A. M. Kargin and V. I. Tkachenko. (Zavodskaya Laboratoriya, 1949, vol. 15, Sept., p. 1131). [In Russian]. The following method is said to be satisfactory for the determination of sulphur in blast-furnace slags: the sample (0·5 g.) in a porcelain boat is covered with exactly 1 g. of a standard sample of steel with the smallest possible known sulphur content, and sulphur is then determined by combustion in a stream of oxygen, the sulphur content of the steel being allowed for in the calculation of results.—S. K.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

A new Calligonum species in Kirghizia (Uzum-Akhmat-Tau). Trudy Inst. bot. i rast, KirFAN SSSR no.1:25-26 '54. (MLRA 10:1)
(Naryn Valley--Calligonum)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

KUNCHENKO, Anna Ivanovna; TKACHENKO, V.I., [illegible] red.

[New trees and shrubs in the western Issyk-kul' region; introduction, biology, and recommendations] Novye derev'ia i kustarniki v Zapadnom Priissykkul'e; introduktsiia, biologiia, rekomendatsii. Frunze, Izd-vo AN Kirg.SSR, 1964. 139 p. (MIRA 17:8)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

BOGATYREV, K.P.; VADKOVSKAYA, O.A.; GERASIMOV, I.P.; GERASIMOV, Iv.P.; YEROKHINA, A.A.; IVANOVA, Ye.N.; LETKOV, L.A.; LIVEROVSKIY, Yu.A.; LOBOVA, Ye.V.; NOGINA, N.A.; ROZOV, N.N.; RUDNEVA, Ye.N.; TKACHENKO, V.I.; UFIMTSEVA, K.A.; FRIDLAND, V.M.

Academician L.I.Prasolov; obituary. Izv.AN SSSR Ser.geog. no.2: 73-78 Mr-Ap '54. (MLRA 7:5)

(Prasolov, Leonid Ivanovich, 1875-1954)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

"Technology of automobile and tractor construction." D.P.Maslov, V.V.Sasov, P.G.Nizhanskii. Reviewed by V.I.Tkachenko. Avt.trakt. prom. no.10:32-32 O '54. (MLRA 7:10)

1. Altayskiy traktornyy zavod.
(Automobiles--Design and construction) (Maslov, D.P.) (Sasov, V.V.) (Nizhanskii, P.G.)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.; KUNCHENKO, A.I.

Trees and shrubs of the Far East in northern Kirghizia. Biul. Glav.bot. sada no.19:16-21 '54. (MLRA 8:2)

1. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR.
(Kirghizistan--Trees) (Kirghizistan--Shrubs)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

NIKITINA, Ye.V.; PROTOPOPOV, G.F.; ROZHEVITS, R.Yu. [deceased]; POPOVA, K.I., KASHCHENKO, L.I.; SMIRNOV, L.A.; TKACHENKO, V.I.; YAKUBOVA, P.A.; GOLOVKOVA, A.G.; AYDAROVA, P.A.; SEPOTA, Ye.I.; SHEVCHENKO, D.A.; SHISHKIN, Boris Konstantinovich, professor, doktor biologicheskikh nauk, nauchnyy redaktor; VVEDENSKIY, A.I., nauchnyy redaktor; YEVRUSHENKO, G.A., professor, otvetstvennyy redaktor; KOVALEV, V.N., otvetstvennyy redaktor; SEREBRYAKOV, V.I., tekhnicheskiy redaktor

[The flora of Kirghizistan; classification of the plants of Kirghizistan] Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi SSR. Sost. E.V.Nikitina i dr. Frunze, Izd-vo Akademii nauk Kirgizskoi SSR. Vol.1. [Pteridophyta, Gymnospers and Monocotyledons of the Angiosperms] Paporotnikoobraznye, golosemennye i odnodol'nye iz pokrytosemennykh. 1952. 103 p. Vol. 2. [Grasses and sedges] Zlaki i osokovye. 1950. 315 p. Vol.3. [Aroidae - Orchidaceae] Aroidnye - Orkhidnye. 1951. 148 p. Vol.4. [Salicaceae - Polygonaceae] Ivovye - Grechishnye. 1953. 153 p. Vol. 5. [Families: Chenopodiaceae, Amaranthaceae, Portulacaceae, Caryophyllaceae] Semeistva: Marevye, Amarantovye, Portulakovye, Gvozdichnye. 1955. 185 p. Vol. 6. [Families: Ceratophyllaceae, Ranunculaceae, Berberidaceae, Papaveraceae, Capparidaceae, Cruciferae] Semeistva: Rogolistnikovye, Liutikovye, Barbarisovye, Makovye, Kapersovye, Krestotsvetnye. 1955. 297 p. (MLRA 9:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Shishkin)
(Kirghizistan--Botany)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

GAREYEV, E.Z., kand.sel'skokhoz.nauk; TKACHENKO, V.I., kand.biolog.nauk; KUNCHENKO, A.I., mladshiy nauchnyy sotr.; SHPAK, R.L., mladshiy nauchnyy sotr.; KRIVOSHEYEVA, L.S., mladshiy nauchnyy sotr.; NIKITINA, Ye.V., kand.biol.nauk, red.; ANOKHINA, M.G., tekhn.red.

[Guide to the botanical garden] Putevoditel' po Botanicheskomu sadu. Frunze, 1957. 78 p. (MIRA 11:1)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Botanicheskiy sad.
2. Akademiya nauk Kirgizskoy SSR, Botanicheskiy sad, Institut botaniki (for Kareyev, Tkachenko, Kunchenko, Shpak, Krivosheyeva, Nikitina).

(Frunze--Botanical gardens)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

NIKITINA, Ye.V.; POPOVA, L.I.; AYDAROVA, R.A.; KASHCHENKO, L.I.; PROTOPOPOV, G.F.; UBUKEYEVA, A.U.; TKACHENKO, V.I.; KORNEVA, I.G.; OBOZOV, A.O.; GOLOVKOVA, A.G.; VVEDENSKIY, A.I., nauchnyy redaktor; TSYBINA, Ye.V., tekhnicheskiy redaktor

[Flora of the Kirghiz S.S.R.; guide to plants of the Kirghiz S.S.R.] Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi SSR. Frunze, Izd-vo AN Kirgizskoi SSR. Vol.7. 1957. 642 p. (MLRA 10:9)
(Kirghizistan--Botany)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.; KUNCHENKO, A.I.

Raising birch in the Frunze Botanical Garden. Biul.Glav.bot.sada no.27:18-20 '57. (MLRA 10:5)

1.Botanicheskiy sad Akademii nauk Kirgizskoy SSR.
(Frunze--Birch)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

GAN, P.A.; DZHANAYEVA, V.M.; KUNCHENKO, A.I.; LYSOVA, N.V.; NIKITINA, Ye.V.; PROTOPOPOV, G.F.; PRUTENSKIY, D.I.; TKACHENKO, V.I.; ANOKHINA, M.G., tekhn.red.

[Trees and shrubs of Kirghizistan] Derev'ia i kustarniki Kirgizii. Frunze. No.1. [Gymnosperms] Golosemennye. 1959. 119 p. (MIRA 13:2)

1. Akademiya nauk Kirgizskoi SSR, Frunze. Institut botaniki. Sektor lesa.
(Khirghizistan--Gymnosperms)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

NIKITINA, Ye.V.; AYDAROVA, R.A.; KASHCHENKO, L.I.; UBUKEYEVA, A.U.; POPOVA, L.I.; TKACHENKO, V.I.; GOLOVKOVA, A.G., SHPOTA, Ye.I.; FILATOVA, N.S.; SHARASHOVA, V.S.; VVEDENSKIY, A.I., nauchnyy red.; VYKHODTSEV, I.V., red.; ANOKHINA, M.G., tekhn.red.

[Flora of the Kirghiz S.S.R.; key to the plants of the Kirghiz S.S.R.] Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi SSR. Sost. E.V.Nikitina i dr. Nauchn.red. A.I.Vvedenskii. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR. Vol.8. [The carrot, dogwood, wintergreen, heath, primrose, leadwort, olive, gentian, dogbone, milkweed, and morning-glory families] Semeistva: zontichnye, kizilovye, grushankovye, vereskovye, pervotsvetnye, svinchatkovye, maslinovye, gorechavkovye, kutrovye, lastovnevye, v'iunkovye. 1959. 222 p. Vol.9. [The mint and nightshade families] Semeistva: gubotsvetnye i paslenovye. 1960. 213 p. (MIRA 13:7)
(Kirghizistan--Dicotyledons)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

A new honeysuckle from the Kirghiz Range. Izv. AN Kir.SSR. Ser.biol.nauk 1 no.3:147-149 '59. (MIRA 13:7)
(KIRGHIZ RANGE--HONEYSUCKLE)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

Results of tree and shrub introductions at the Botanical Garden of the Institute of Botany of the Academy of Sciences of the Kirghiz S.S.R. Trudy Bot.inst.Ser.6 no.7:469-470 '59.
(MIRA 13:4)

1. Botanicheskiy sad Instituta botaniki AN KirgSSR, Frunze.
(Kirghizistan--Trees)
(Kirghizistan--Shrubs)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.; GAREYEV, E.Z., otv.red.; BUTENKO, N.P., red.izd-va; ANOKHINA, M.G., tekhn.red.

[Trees and shrubs of the North American flora in the botanical garden of Frunze] Derev'ia i kustarniki severoamerikanskoi flory v usloviiakh Botanicheskogo sada goroda Frunze. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1960. 129 p. (MIRA 13:7)
(Frunze--Plant introduction) (Trees) (Shrubs)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

Injury of trees and shrubs due to sharp drops in temperature during the vegetative period. Biul.Glav.bot.sada no.36:43-46 '60. (MIRA 13:7)

1. Botanicheskiy sad Akademii nauk Kirgizskoy SSR, g. Frunze.
(Kirghizistan--Plants--Frost resistance)
(Trees)
(Shrubs)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

DZHANAYEVA, Valentina Mikhaylovna; TKACHENKO, V.I., otv. red.

[Juniper in Kirghizistan; its compsotion, biology, and growing] Archa v Kirgizii; sostav, biologiia i vyrashchivanie. Frunze, Ilim, 1965. 97 p. (MIRA 18:12)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

NIKITINA, Ye.V.; AYDAROVA, R.A.; DZHANAYEVA, V.M.; UBUKEYEVA, A.U.; ARBAYEVA, Z.S.; SUDNITSYNA, I.G.; SULTANOVA, R.M.; GORBUNOVA, N.V.; TKACHENKO, V.I.; FILATOVA, N.S.; CHERNEVA, O.V.; VVEDENSKIY, A.I., nauchn. red.; VYKHODTSEV, I.V., otv. red.

[Flora of the Kirghiz S.S.R.; a guide to the plants of the Kirhiz S.S.R.] Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi SSR. Frunze, Ilim. Vol.11. 1965. 606 p.
(MIRA 18:11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

Raising wild apple trees of Kirghizistan in the Botanical Garden. Izv. AN Kir.SSR.Ser.biol.nauk 5 no.4:19-33 '63. (MIRA 17:4)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

Results of the introduction of trees and shrubs and their use in the greenbelts and parks of the Republic. Izv. AN Kir. SSR. Ser. biol. nauk 5 no.2:13-19 '63. (MIRA 16:9)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

SHPAK, Raisa Lukinichna; TKACHENKO, V.I., otv. red.; SORONBAYEVA, N.V., red. izd-va; POPOVA, M.G., tekhn. red.

[Annual cycle in the development of some tulips of Kirghizistan] Godovoĭ tsikl razvitiia nekotorykh tiul'panov Kirgizii. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1963. 65 p. (MIRA 16:7)
(Kirghizistan--Tulips)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

New species of plants in the collection of the Frunze Botanical Garden. Biul. Glav. bot. sada no.45:55-59 '62. (MIRA 16:2)

1. Botanicheskiy sad AN Kirgizskoy SSR, Frunze.
(Frunze--Poplar)
(Frunze—Honeysuckle)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

Biology of trees and shrubs in the Frunze Botanical Garden. Izv. AN Kir.SSR.Ser.biol.nauk 4 no.3:33-42 '62. (MIRA 15:11)
(FRUNZE--WOODY PLANTS)
(FRUNZE--PLANT INTRODUCTION)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

TKACHENKO, V.I.

Replenishing tree and shrub species for landscape gardening in Frunze. Izv.AN Kir.SSR.Ser.biol.nauk 4 no.3:15-20 '62. (MIRA 15:11)

(FRUNZE--LANDSCAPE GARDENING)
(FRUNZE--WOODY PLANTS)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

GAN, P.A.; DZHANAYEVA, V.M.; KARAFA-KORBUT, I.G.; KRIVOSHEYEVA, L.S.; KUNCHENKO, A.I.; ORLOVA, N.A.; PROTOPOPOV, G.F.; PRUTENSKIY, D.I.; TKACHENKO, V.I.; SOROKBAYEVA, N.V., red. izd-va; POPOVA, M.G., tekhn. red.

[Trees and shrubs of Kirghizia]Derev'ia i kustarniki Kirgizii. Frunze, Izd-vo AN Kirgizskoi SSR. No.2. [Families: Liliaceae-Moraceae]Semeistva lileinye-tutovye. 1961. 211 p. (MIRA 15:10)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut botaniki. Sektor lesa.

(Kirghizistan--Angiosperms)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1

NIKITINA, Ye.V.; AYDAROVA, R.A.; UBUKEYEVA, A.U.; FILATOVA, N.S.; SUDNITSYNA, I.G.; TKACHENKO, V.I.; SHARASHOVA, V.S.; KASHCHENKO, L.I.; SHPOTA, Ye.I.; VVEDENSKIY, A.I., nauchnyy red.; VYKHODTSEV, I.V., otv. red.; SORONBAYEVA, N.V., red. izd-va; ANOKHINA, M.G., tekhn. red.

[Flora of the Kirghiz S.S.R.; classification key of the plants of the Kirghiz S.S.R.]Flora Kirgizskoi SSSR; opredelitel' rastenii Kirgizskoi SSSR. Sost. E.V.Nikitina i dr. Nauchn. red. A.I.Vvedenskii. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR. Vol.10. [Families: Cuscutaceae, Polemoniaceae, Boraginaceae, Verbenaceae, Scrophulariaceae, Bignoniaceae, Orobanchaceae, Lentibulariaceae, Plantaginaceae, Rubiaceae, Caprifoliaceae, Adoxaceae, Valerianaceae, Morinaceae, Dipsacaceae, Cucurbitaceae, Campanulaceae, Lobeliaceae] Semeistva: Povilikovye, Siniukhovye, Burachnikovye, Verbenovye, Norichnikovye, Bignonievye, Zarazikhovye, Puzyrchatkovye, Podorozhnikovye, Marenovye, Zhimolostnye, Adoksovye, Valerianovye, Morinovye, Vorsiankovye, Tykvennye, Kolokol'chikovye, Lobelievye. 1962. 387 p. (MIRA 15:9)
(Kirghizistan--Dicotyledons)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920010-1"