APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, N. K.

Permanently mounted gauging system. Put' i put. khoz. 6 no.8: 32 '62. (MIRA 15:10)

1. Starshiy inzhener putevoy mashinnoy stantsii No. 46, st. Ushumun, Zabaykal'skoy dorogi.

(Railroads—Equipment and supplies)
(Ballast(Railroads))

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KAZAKOV, D.Ye.; NESTEROV, N.I.

Efficiency of geological search and exploration for oil and gas in the West Siberian Plain. Geol.nefti i gaza 9 no.2:13-15 F '65. (MIRA 18:4)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya.

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NESTEROV, N.G., inzh.; ALEKSANDROV, N.V., inzh.

A brush slide contact on turbogenerator slip rings.
Elek. sta. 34 no.1:45-48 Ja '63. (MIRA 16:2)
(Turbogenerators)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

ALALYKIN, A.B.; GRIGORKIN, V.I.; NESTEROV, N.A.; VERSHININA, L.V.; GOVOROV, A.A.

Properties of heat-treated rails made of 1% chromium and native alloy chromium-nickel steels. Izv. vys. ucheb. zav.; chern. met. 7 no.8:149-154 '64. (MIRA 17:9)

1. Sibirskiy metallurgicheskiy institut.

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On the problem of the development... S/148/63/000/002/005/006
E193/E135

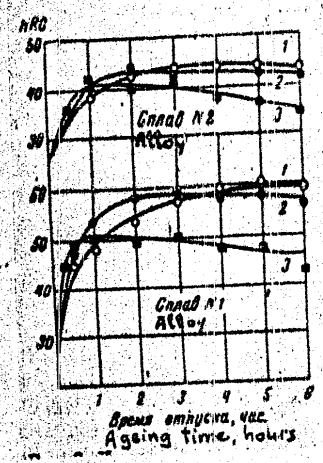

Fig. 2

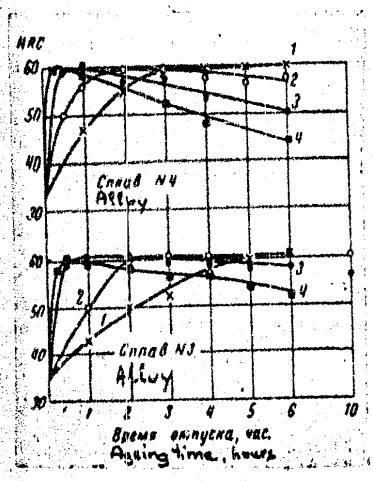

Fig. 4

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On the problem of the development... S/148/63/000/002/005/006
E193/E135

alloy no.3 could be increased to 63-64 HRC by nitriding. It was concluded that the ferritic Fe-Co-W-Ti-Si alloys could be further improved to provide new, high-productivity cutting materials. There are 4 figures and 1 table.

ASSOCIATION: Sibirskiy metallurgicheskiy institut
(Siberian Metallurgical Institute)

SUBMITTED: June 26, 1962

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reproduced in Fig.2, where hardness (HRC) of alloy no.1 (bottom) and no.2 (top) is plotted against ageing time (h) at 650, 700 and 750 °C (curves 1, 2 and 3 respectively); the corresponding data for alloys nos. 3 and 4 are plotted in a similar manner in Fig.4. In the next series of experiments, the cutting properties of alloy no.3 (hardness 59-61 HRC) and a cutting steel Р 18 (R 18) (hardness 62-63 HRC) were compared. The cutting tool tips, measuring 5 x 12 x 16 mm, ground to $\gamma = 15°$, $\alpha = 12°$, $\varphi = 60°$, $\varphi_1 = 10°$, $\alpha_1 = 12°$, and mechanically secured to their shanks, were used in turning tests conducted on steel У8 (U 8) (hardness 170 HB) rods under the following conditions: $v = 60$ m/min; $t = 2$ mm; $s = 0.11$ mm/rev; $n = 315$ rev/min. No lubrication was used in the tests in which the time, T, required for the cutting tip to become completely blunt was determined. The average value of T for the steel U 8 was approximately 2 minutes, the corresponding figure for alloy no.3 being 7 minutes. (In the case of alloy no.3, occasional chipping of the cutting tips took place after about 1 min operation). The results of tentative experiments showed that hardness of

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S/148/63/000/002/005/006
E193/E135

AUTHORS: Nesterov N.A., and Grdina Yu.V.

TITLE: On the problem of the development of dispersion-hardening, cutting alloys

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no.2, 1963, 129-132

TEXT: The effect of titanium and silicon additions upon the ability of four ferritic, dispersion-hardening steels to retain their hardness at elevated temperatures was studied. The composition of the steels was:

	C	Cr	W	V	Ti	Si	Co
no.1	0.64,	3.70,	16.38,	1.44,	2.39,	1.95,	-
no.2	0.74	4.56	8.45	2.00	3.26	2.09	-
no.3	0.08	-	19.68	-	1.86	1.90	12.90
no.4	0.07	-	20.10	-	-	-	13.21.

In the first series of experiments, the effect of ageing at 650 - 750 °C upon the hardness of test pieces, preliminarily quenched from 1300 - 1350 °C, was investigated. The results are

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GRDINA, Yu.V.; GOVOROV, A.A.; NESTEROV, N.A.; GRIGORKIN, V.I.

Alloyed steel rails. Izv. vys. ucheb. zav.; chern. met. 6 no.10:120-124 '63. (MIRA 16:12)

1. Sibirskiy metallurgicheskiy institut.

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GOVOROV, A.A.; ALAGYKIN, A.S.; GRIGORKIN, V.I.; NESTEROV, N.A.; VERSHININ, I.V.

Heat treatment of alloyed rails. Izv. vys. uchen. zav.; [illegible]
7 no.10:132-136 '64. [illegible]

1. Sibirskiy metallurgicheskiy institut.

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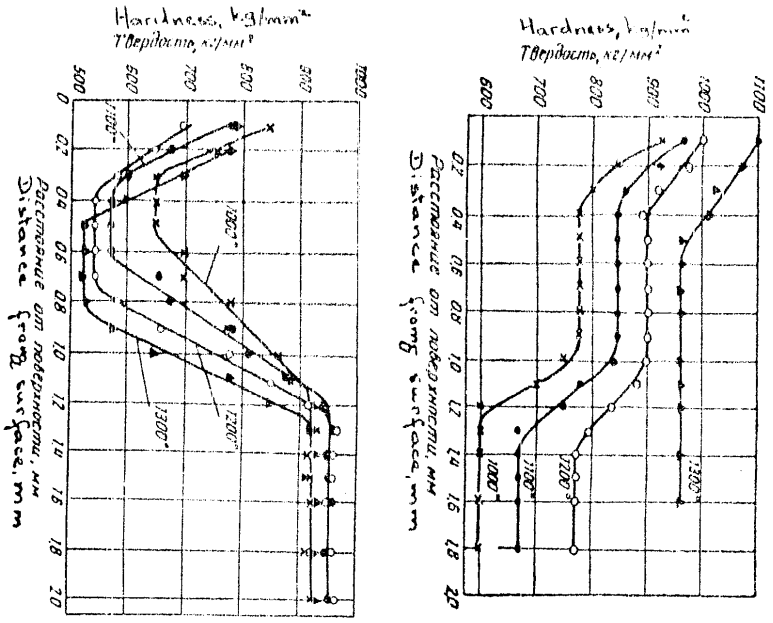
APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

The effect of ....

S/148/62/000/012/006/008
E193/E383

Fig. 3:



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E193/E383

The effect of ....

limited owing to the relatively low temperature at which martensite becomes unstable and coalescence of carbides begins; 3) future development of high-speed cutting alloys should be based on the search for materials with a matrix more stable than that of alloys with martensitic structure; dispersion-hardening, iron-base alloys are one example of materials of this type; 4) owing to technical difficulties, carbon-saturation cannot be recommended as a method of improving the cutting characteristics of high-speed cutting steels. There are 6 figures and 1 table.

ASSOCIATION: Sibirskiy metallurgicheskiy institut (Siberian Metallurgical Institute)

SUBMITTED: January 26, 1962

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

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that its structure after quenching consisted of austenite and coarse needles of primary martensite; a complex carbide phase was precipitated at the boundaries of the original austenite/martensite grains. It was postulated that when the carbon content increased above a certain critical level, the thermal stability of the austenite (at the tempering temperatures) increased at a faster rate than that of martensite. As a result, the following sequence of various processes obtained during tempering: cessation of dispersion-hardening of the martensite and beginning of its decomposition; dispersion-hardening of the austenite; austenite-martensite transformation. The increase in hardness due to the transformation was not sufficiently great to compensate the loss in hardness due to decomposition of the primary martensite. The optimum carbon content of high-speed cutting steels (o.8-1.0%) was evidently the upper limit of the range in which the thermal stability of martensite is higher than that of austenite. Conclusions: 1) thermal stability and cutting properties of steel R18 are improved by saturating it with carbon; 2) the increase in the thermal stability of steel R18 brought about by the formation of an additional carbide phase (Θ-phase) is

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E193/E383

The hardness of the carburized layer decreased from 68 HRC after quenching from 1 000 °C to approximately 48 HRC after quenching from 1280 °C. 4 tempering treatments (each of one-hour duration) were required to attain maximum hardness in the carburized case of specimens quenched from 1280 °C, the maximum hardness of the core being reached after 3 tempering operations; this indicated a higher stability of the austenite in the carburized surface layer. Distribution of hardness in various specimens is shown in Fig. 3, where the hardness (kg/mm^2) is plotted against the distance (mm) from the specimen surface; the curves in graph a relate to quenched specimens, graph $\tilde{\sigma}$ relating to specimens that, after quenching, were given 3 tempering treatments of 1 hour at 560 °C; the hardening temperature is given by each curve. The wear-resistance of various specimens was measured on cutting tool specimens used for turning axle steel (UTS 62-64 kg/mm^2, Brinell hardness 160-180) under the following conditions: depth of the cut - 4 mm; feed rate - 0.52 mm/rev; cutting speed - 29.6 m/min. The average life of the cutting edge of case-hardened tools was 2.7 min, i.e. 85% longer than that of untreated specimens. Metallographic examination of the case-hardened layer revealed

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S/148/62/000/012/006/008
E193/E383

AUTHORS: Nesterov, N.A. and Grdina, Yu.V.

TITLE: The effect of carbon saturation on the properties of a high-speed cutting steel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no. 12, 1962, 120 - 125

TEXT: In continuation of an earlier work (Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no. 10, 1962) the authors have studied the effect of the formation of the θ-phase occurring in carbon-saturated, high-speed cutting steel, on the wear-resistance of this steel and its stability at high temperatures. The experimental work was carried out on steel Р18 (R18) specimens, case-hardened to a depth of 1 mm by a 4-hour treatment at 1 000 °C. These were hardened by quenching from temperatures ranging from 1 000 - 1 280 °C with or without subsequent tempering, and the effect of various factors on the microhardness of the material was studied. The hardness of the core of case-hardened specimens increased slightly with increasing quenching temperature, reached a maximum at about 1200 °C and then decreased slightly.

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NESTEROV, N.A.; GRDINA, Yu.V.

Increasing the heat-resistance of tool steel. Izv. vys. ucheb. zav.; chern. met. 5 no.10:125-130 '62. (MIRA 15:11)

1. Sibirskiy metallurgicheskiy institut.
(Tool steel--Thermal properties)
(Case hardening)

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GRDINA, Yu.V.; GOVOROV, A.A.; NESTEROV, N.A.; GRIGORKIN, V.I.

Full hardening in oil of a commercial batch of rails. Izv. vys. ucheb. zav.; chern. met. 5 no.8:111-118 '62. (MIRA 15:9)

1. Sibirskiy metallurgicheskiy institut.
(Steel—Hardening) (Railroads—Rails)

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S/148/62/000/004/003/006
E111/E435

15.1120

AUTHORS: Grigorkin, V.I., Grdina, Yu.V., Govorov, A.A., Nesterov, N.A.

TITLE: Influence of heat treatment on the mechanical properties of austenitic manganese steel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no.4, 1962, 132-135

TEXT: The authors have studied the effect of heat treatment on the mechanical properties of a commercial forged manganese austenitic steel (0.93% C, 12.02% Mn, 0.13% Ni, 0.05% Cr, 0.14% Cu, 0.021% S and 0.09% P). Tempering at 300 to 700°C greatly reduced strength and plastic properties. With isothermal holding at 650°C all the mechanical properties deteriorate within 30 to 60 minutes and then remain almost steady. Hadfield steel is notch sensitive. The fatigue limit was virtually independent of tempering temperature, it was increased by preliminary dynamic work hardening. To avoid great deterioration in mechanical properties on heating to temperatures over 300°C, parts

Card 1/2

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PLEKHANOV, P.S., inzh.; KOSHKIN, V.A., inzh.; KRITININ, I.A., inzh.; Prinimali uchastiye: BAZHENOV, M.M.; VAYNSHTEYN, I.L.; POPOV, P.G.; ZAKHARENKO, N.I.; MANCHEVSKIY, I.V.; GRDINA, Yu.V.; GOVORKOV, A.P.; NESTEROV, N.A.; GRIGORKIN, V.I.

Rolling of high-manganese rails. Stal' 21 no.5:423-425 My '61. (MIRA 14:5)

1. Kuznetskiy metallurgicheskiy kombinat (for Plekhanov, Koshkin, Kritenin, Bazhenov, Vaynshteyn, Popov, Zakharenko, Manchevskiy).
2. Sibirskiy metallurgicheskiy institut (for Grdina, Govorkov, Nesterov, Grigorkin).
(Railroads—Rails) (Rolling (Metalwork))

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LYUBIMOV, N.N., prof., doktor ekon. nauk; PLETNEV, S.P., doktor ekon. nauk; SERGEYEV, S.D., dots., kand. ekon. nauk; MEN'SHIKOV, S.M., doktor ekon. nauk; BUZYKIN, Yu.I., kand.ekon.nauk; DYEMUIEN, I.I., dots., kand.ekon.nauk; IKONNIKOV, I.S., kand.ekon.nauk; KUZ'MIN, I.A., dots., kand.ekon.nauk; NESTEROV, M.V.; POPOV, A.N., dots., kand.ekon.nauk; SOLOV'YEV, A.A., kand.ekon.nauk; STEPANOV, G.P., dots., kand.ekon.nauk; SHCHETININ, V.D., dots. kand. ekon. nauk; MOGILEVCHIK, A.Ye., red.; SHLENSKAYA, V.A., red.

[Modern international economic relations] Sovremennye mezhdunarodnye ekonomicheskie otnosheniia. Pod red. N.N.Liubimova. Moskva, Izd-vo "Mezhdunarodnye otnosheniia," 1964. 583 p. (MIRA 17:5)

1. Moscow. Institut mezhdunarodnykh otnosheniy. 2. Predsedatel' Prezidiuma Vsesoyuznoy torgovoy palaty (for Nesterov).

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NESTEROV, M.V.

Soviet exhibitions serve the purpose of drawing the peoples together. Vnesh. torg. 29 no.5:25-26 '59. (MIRA 12:6)

1.Predsedatel' Prezidiuma Vsesoyuznoy torgovoy palaty.
(Russia--Foreign economic relations)
(Exhibitions)

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NESTEROV, M.P., inzh.

Experimental study of the interaction between the supports used in roof caving and the direct roof surrounding their contact area. Ugol' Ukr. 5 no.3:5-8 Mr '61. (MIRA 14:3)
(Mine timbering) (Rock pressure)

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, M. P., CAND TECH SCI, "INVESTIGATION OF THE INTERACTION ~~OF THE~~ between ROOF ~~WITH~~ and CAVED-IN TIMBER NEAR THEIR CONTACT AND DETERMINATION OF MAXIMUM PERMISSIBLE REACTIVE PRESSURE OF the CAVED IN TIMBER ON the ROOF." LENINGRAD, 1961. MIN OF HIGHER AND SEC SPEC ED RSFSR. LENINGRAD ORDER OF LENIN AND ORDER OF LABOR RED BANNER MINING INST IMENI V.G. PLEKHANOV). (KL-DV, 11-61, 221).

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, M.P., inzh.

Question of the behavior value of timbering for caving. Izv. vys. ucheb. gav.; gor. zhur. no. 12:15-20 '59. (MIRA 14:5)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy razrabotki mestorozhdeniy poleznykh iskopayemykh.
(Mine timbering)

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NESTEROV, Mikhail Kirillovich; LYUDSKOV, B.P., red.; SUDAK, D.M., tekhn. red.

[Improving accounting in commerce] O sovershenstvovanii ucheta v torgovle. Moskva, Gos. izd-vo torg. lit-ry, 1957. 45 p.
(Commerce--Accounting) (MIRA 11:7)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

ANISOV, Aleksandr Andreyevich; NESTEROV, M.K., red.; KIRAKOSOVA N.Sh., red.

[Organization of accounting in state commerce] Organizatsiia bukhgalterskogo ucheta v gosudarstvennoi torgovle. Izd.2., perer. Moskva, Ekonomika, 1965. 327 p.
(MIRA 18:4)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, Mikhail Aleksandrovich; SMIRNOV, Andrey Aleksandrovich;
VORONIN, A.S., red.

[Interbranch standardization of [illegible] equipment and tools] Mezhotraslevaia normalizatsiia [illegible] i instrumenta. Moskva, Izd-vo Standartov, 1965. [illegible] p.
(MIRA 18:[illegible])

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NESTEROV, M.A.; SMIRNOV, A.A.

Overall standardization in foundry. Standartizatsiia 28 no.6448-51 Je '64.
(MIRA 17:9)

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Nesterov, L. Ye.

CHERNYAK, N.Kh.; ZEMEROV, I.V.; NAUMOV, I.S.; SHMELEV, I.P.; NESTEROV, L.Ye. STEPANOV, P.I.

Improve and develop communication facilities in the economic regions. Vest.sviazi 17 no.8:15-18 Ag '57. (MIRA 10:10)

1.Nachal'nik otdela elektrosvyazi Sverdlovskogo oblastnogo upravleniya (for Chernyak). 2. Nachal'nik Sverdlovskogo telegrafa (for Zemerov) 3.Nachal'nik Sverdlovskoy mezhdugorodnoy telefonnoy stantsii (for Klebanov). 4.Zamestitel' nachal'nika Sverdlovskogo upravleniya svyazi (for Naumov). 5.Nachal'nik otdela pochtovoy svyazi Sverdlovskogo upravleniya svyazi (for Shmelev). 6.Nachal'nik Sverdlovskoy direktsii radiotranslyatsionnykh setey (for Nesterov). 7.Nachal'nik Ordzhonikidzevskoy kontory svyazi g. Sverdlovska (for Stepanov).

(Sverdlovsk--Telecommunication--Congresses)

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L 27756-66 EWT(m)/EWP(j) RM

ACC NR: AP6018507 SOURCE CODE: UR/0079/65/035/011/2006/2009

25
B

AUTHOR: Nesterov, L. V.; Sabirova, R. A.

ORG: Institute of Organic Chemistry, AN SSSR, Kazan' (Institut organicheskoy khimii AN SSSR)

TITLE: Derivatives of phosphorous acid. IV. New esters of salicylphosphorous acid

SOURCE: Zhurnal obshchey khimii, v. 35, no. 11, 1965, 2006-2009

TOPIC TAGS: phosphorous acid, organic synthetic process, ester, nonmetallic organic derivative

ABSTRACT: A number of new esters of salicylphosphorous acid were synthesized. The exaltation of the molecular refraction of esters of salicylphosphorous acid was corrected on the basis of measurements of 13 esters to E_{MR} = 1.07. All the esters of salicylphosphorous acid obtained, except for the phenyl and trichloroethyl esters, react with methyl iodide, yielding the corresponding alkyl iodides and the salicylderivative of methylphosphinic acid. Esters of salicylphosphorous acid react with halogens; the phenyl ester forms stable adducts with chlorine and bromine, while the trichloroethyl ester forms a stable adduct with chlorine. Decomposition of the esters by heating is accompanied by the liberation of olefinic compounds (in cases when this is possible) or of hydrolysis products. Orig. art. has: 1 table. [JPRS]

SUB CODE: 07/ SUBM DATE: 13Nov64 / ORIG REF: 003 / OTH REF: 002

Card 1/1 Qo UDC: 547.587.11:546.183

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ACC NR: ap AP7011829

which does not participate in the redistribution reaction with ortho esters and acetals. The ester methyl formate, in view of its low nucleophilic properties, does not react with methyltriphenoxyphosphonium iodide even after many hours of heating in a sealed tube. Orig. art. has: 6 formulas and 1 table. [JPRS: 40,351]

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

ACC NR: AP7011829 SOURCE CODE: UR/0079/66/036/010/1835/1838

AUTHOR: Nesterov, L. V.; Kessel', A. Ya.

ORG: Institute of Organic and Physical Chemistry, Academy of Sciences of the USSR, Kazan' (Institut organicheskoy i fizicheskoy khimii AN SSSR)

TITLE: Reaction of salts of aromatic quasiphosphonium bases with ortho esters of carboxylic acids and acetals

SOURCE: Zhurnal obshchey khimii, v. 36, no. 10, 1966, 1835-1838

TOPIC TAGS: acetal, carboxylic acid, organic salt, reaction mechanism, ester

SUB CODE: 07

ABSTRACT: Salts of aromatic quasiphosphonium bases were found to react with ortho esters of carboxylic acids and acetals, exchanging a phenoxy group for an alkoxy group. The reactions were conducted between methyltriphenoxyphosphonium and methylphenyldiphenoxyphosphonium iodides as the salts of aromatic quasiphosphonium bases and triethyl orthoformate, triethyl orthoacetate, and dimethylformal as the ortho esters and acetals. The reaction mechanisms are discussed. The ortho esters and acetals behave as weak nucleophilic reagents in these reactions. They are insufficiently active to attack the neutral phosphorus atom in triphenyl phosphite,

Card 1/2 UDC: 547.26'118+547.426.3 0932 0425

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L 27657-66

ACC NR: AP6018511

binations of radicals: n-amyl and beta-ethoxyethyl (almost the same weight, size, and shape, but differing greatly in Taft constants, -0.145 and +0.185) and n-amyl and beta-methoxyethyl (the electronegative radical is appreciably lighter) were synthesized to eliminate the influence of steric factors on the second stage of the Arbuzov reaction and to demonstrate only the difference in the electronegativity of the radicals. All the radicals were primary, and there was a basis for assuming the possibility of splitting out. The more electron-donor radicals were found to be preferentially split out. The results of the reactions indicated that the rate of splitting out of aliphatic primary radicals in the second step of the Arbuzov reaction, with all other conditions equal, is determined not by the ease of attack of the halogen ion on the alpha-carbon atom of the radical, but by the initial polarization and consequent ease of cleavage of the R-O bond. The chromatographic research was completed by N. A. Aleksandrova. Orig. art. has: 1 table. [JPRS]

SUB CODE: 07/ SUBM DATE: 13Nov64 / ORIG REF: 017 / OTH REF: 004

Card 2/2

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

L 27057-66 EWP(j)/EWT(m) RM

ACC NR: AP6018511 SOURCE CODE: UR/0079/65/035/011/2050/2055

AUTHOR: Nesterov, L. V.; Krepyshev, N. Ye.; Mutalapova, R. I.

ORG: Institute of Organic Chemistry, AN SSSR, Kazan' (Institut organicheskoy khimii AN SSSR)

TITLE: Derivatives of phosphorous acid. III. Arbuzov reaction in certain mixed phosphites

SOURCE: Zhurnal obshchey khimii, v. 35, no. 11, 1965, 2050-2055

TOPIC TAGS: phosphorous acid, ester, organic synthetic process, electron donor

ABSTRACT: The authors attempted to confirm the hypothesis that if the difference in the Taft constants of two radicals of a mixed phosphite is sufficiently great (0.2 or greater), then the determining influence on the second step of the Arbuzov reaction is exerted by the initial polarization of the R-O bond, and the electron-donor radicals are predominantly split out, whereas, if the difference in the Taft constants is small (0.1 or less), but the radicals differ greatly enough in size and shape, then the steric factor becomes the determining factor: large substituents on the alpha-carbon atom of the radical prevent nucleophilic attack of the halogen ion, and the less cumbersome, although also less electron-donor radical is split out. Mixed esters with the following com-

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L 27769-66 EWP(j)/EWT(m) RM

ACC NR: AP6018500 SOURCE CODE: UR/0079/65/035/011/1976/1980

AUTHOR: Nesterov, L. V.; Sabirova, R. A.;

ORG: Institute of Organic Chemistry, AN SSSR, Kazan' (Institut organicheskoy khimii AN SSSR)

TITLE: Derivatives of phosphorous acid. V. Mixed anhydrides of salicylphosphorous and carboxylic acids and some of their properties

SOURCE: Zhurnal obshchey khimii, v. 35, no. 11, 1965, 1976-1980

TOPIC TAGS: phosphorous acid, organic synthetic process, carboxylic acid, alcohol, nonmetallic organic derivative

ABSTRACT: Continuing a study of derivatives of salicylphosphoric acid with electronegative radicals, the authors synthesized five mixed anhydrides of it with certain carboxylic acids. The nucleophilic character of the phosphorus atom in the anhydrides is so reduced that none of them enter into an Arbuzov reaction with methyl iodide. Acetosalicylphosphorous anhydride (2-acetoxy-5,6-benzo-1,2,3-dioxaphosphorinone-4) was used as the model for a study of the properties of the mixed anhydrides. Acyl derivatives of salicylphosphorous acid react with hydrogen chloride, acetic acid, and one mole of alcohol, splitting out the acyl radical. The products of the reaction of one mole of the anhydride and three moles of ethanol represented a complex mixture of alcoholysis products and products of their further transformations. In reactions with phenol, acyl derivatives and esters of salicylphosphorous acid split out salicylic acid. The acyl derivatives of salicylphosphoric acid decompose spontaneously when heated, forming anhydrides of carboxylic acid and a resinous mass. Orig. art. has 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 13Nov64 / ORIG REF: 006 / OTH REF: 001

Card 1/1 UDC: 547.26'118:547.298

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

S/020/63/148/005/018/029
B117/B186

β-Hydroxy-alkyl-alkylene...

all compounds gave satisfactory results.

ASSOCIATION: Institute organicheskoy khimii Akademii nauk SSSR, Kazan' (Institute of Organic Chemistry of the Academy of Sciences USSR, Kazan')

PRESENTED: July 12, 1962, by A. Ye. Arbuzov, Academician

SUBMITTED: July 9, 1962

Card 3/3

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S/020/63/148/005/018/029
B117/B186

β-hydroxy-α,α,β-trimethopropylpinaconylene-phosphite (2-(2'-hydroxy-1',1',2'-trimethopropyloxy)-4,4,5,5-tetramethyl-1,3,2-dioxaphospholane (II), melting point 88 - 89°C, obtained from pinacol; β-hydroxy-α-methopropylpseudobutylene phosphite (2-(LD-erythro-2'-hydroxy-1'-methopropyloxy)-cis-4,5-dimethyl-1,3,2-dioxaphospholane) (III), melting point 82 - 85°C, obtained from mezo-butane diol-2,3; (pinaconylene designates the bivalent radical $-C(CH_3)_2C(CH_3)_2$, and pseudobutylene the radical $-CH(CH_3)CH(CH_3)$. The two homologs of (I) are crystalline substances, better soluble in organic solvents, than (I). They are decomposed by water. Alcohol hydroxyls of (I), (II), and (III) can be determined easily by the Chugayev-Tserevetinov method. The possibility of tautomerism was refuted by the synthesis of 2 isomers: hydroxyethylpinaconylene phosphite (2-(2'-hydroxyethyloxy)-4,4,5,5-tetramethyl-1,3,2-dioxaphospholane) (IV) and β-hydroxy-α,α,β-trimethopropylethylene phosphite (2(2'-hydroxy-1'-1',2'-trimethopropyloxy)-1,3,2-dioxaphospholane (V). (IV) and (V) proved to be two different substances : (IV) is a viscous liquid which decomposes on distillation and which does not crystallize at temperatures above -40°C; below -40°C it solidifies to a glassy mass. (V) is also a viscous liquid, crystallizing completely at 0°C and melting again at 20°C. The elementary analysis of

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S/020/63/148/005/018/029
B117/B186

AUTHORS: Nesterov, L. V., Sabirova, R. A., Krepysheva, N. Ye., Mutalapova, R. I.

TITLE: β-Hydroxy-alkyl-alkylene phosphites - a new type of phosphorous acid esters

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 5, 1963, 1085 - 1087

TEXT: β-Hydroxy-ethyl-ethylene phosphite (2-(2'-hydroxyethyloxy)-1,3,2-dioxaphospholane (I) was obtained unexpectedly instead of β-β'-dihydroxy-triethyl phosphite by treating 1 mole ethyl ester of phosphorous salicylic acid with 2 moles ethylene glycol. This new type of phosphite, the first of a series, is a crystalline, slightly evil-smelling substance with its melting point at 50°C. It can be distilled in vacuo without decomposition; boiling point 86°C (9 mm Hg); it is easily soluble in alcohol, dioxane, warm ether and slightly soluble in benzene, benzine, and cold ether, and decomposes with water; it can best be purified by recrystallization from warm ether solutions after cooling to -85°C; it reacts with copper (I) salt and sulfur under self-heating. The structure was confirmed by 7 different types of synthesis. Additionally, the following homologs of I were obtained:

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GORLOV, S.I.; D'YAKONOV, A.I.; NESTEROV, L.V.; SOKOLOV, P.N.

New gas-bearing area in the northern foothills of the Greater Caucasus. Geol. nefti i gaza 7 no.5:39-43 My '63.
(MIRA 16:6)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta i Nauchno-promyslovoye upravleniye Khadyzhenneft'.
(Caucasus—Gas, Natural—Geology)

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NESTEROV, L. V.

26. [illegible] . . . . . [illegible]
27. [illegible] . . . . . [illegible]
28. [illegible] . . . . . [illegible]
29. [illegible] . . . . . [illegible]
30. [illegible] . . . . . [illegible]
31. [illegible] . . . . . [illegible]
32. [illegible] . . . . . [illegible]
33. [illegible] . . . . . [illegible]
34. [illegible] . . . . . [illegible]
35. [illegible] . . . . . [illegible]
36. [illegible] . . . . . [illegible]
37. ACTION OF [illegible] . . . . . [illegible]
38. [illegible] . . . . . [illegible]
39. [illegible] . . . . . [illegible]
40. [illegible] . . . . . [illegible]
41. [illegible] . . . . . [illegible]
42. STUDIES OF [illegible] . . . . . [illegible]
43. [illegible] . . . . . [illegible]
44. [illegible] . . . . . [illegible]
45. [illegible] . . . . . [illegible]
46. [illegible] . . . . . [illegible]
47. [illegible] . . . . . [illegible]
48. [illegible] . . . . . [illegible]
49. [illegible] . . . . . [illegible]
50. [illegible] . . . . . [illegible]

Khimiya i [illegible] (Chemistry and Application of Organophosphorus Compounds) [illegible] Arbuzov, Ed. publ. by Nauka' AFTIL, Acad. Sci. USSR, Moscow, 1962 [illegible].

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of Organophosphorus Compounds.

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, L.V., SAHIROVA, R.A.

Reaction of dicarboxylic acids with menshutkin acid chlorides.

Shimiya i Primenyaiye Yoshchevanicheskikh Kryadi[illegible]
application of [illegible]
[illegible] by Kazan [illegible] Acad [illegible]

Collection of [illegible]
Chemistry of [illegible]

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, L.V.; SABIROVA, R.A.

Derivatives of phosphorous acid. Part 2: Arbuzov rearrangement of esters of salicylphosphorous acid. Zhur.ob.khim. 31 no.7: 2358-2362 Jl '61. (MIRA 14:7)

1. Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M. Kirova.

(Phosphorous acid)

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B118/B207

Derivatives of ...

R	Температура кипения (давление в мм) (4)	n_D^{20}	d_4^{20}	MR_D найдено (2)	MR_D вычислено (3)	E_{MR}	Эквивалентный вес (4) найдено (5)	Эквивалентный вес (4) вычислено (3)	Выход (в %) (5)
CH_3	137—138° (11)	1.5523	1.3394	47.23	46.42	0.84	99.67	99.06	38
C_2H_5	101.5—102 (1)	1.5408	1.2761	52.2[illegible]	51.04	1.17	106.82	106.07	48
(6) н.-C_3H_7	110—113 (2)	1.5326	1.2270	56.97	55.66	1.31	112.8	113.09	35
(7) изо-C_3H_7	101.5—102 (0.5)	1.5270	1.2220	56.79	55.66	1.13	113.04	113.09	56
(6) н.-C_4H_9*	111—112 (0.3)	1.5239	1.1974	61.37	60.28	1.09	—	—	35
(7) изо-C_4H_9	101 (0.3)	1.5221	1.1928	61.43	60.28	1.15	121.25	120.11	58

Legend to Table: 1) Boiling point (pressure in mm), 2) found, 3) calculated, 4) equivalent weight, 5) yield, 6) n-, 7) iso-.

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B118/B207

Derivatives of ...

time; one mole of alcohol separates 50% of the salicylic acid, and the addition of the second mole liberates the entire salicylic acid. All esters, apart from methyl ester, decompose when heated (each of them at a specific temperature) under vigorous separation of the respective olefin. There are 1 table and 18 references: 5 Soviet-bloc and 13 non-Soviet-bloc. The 3 references to English-language publications read as follows: F. W. Hoffmann, R. J. Ess, T. C. Simmons, R. S. Hanzel, J. Am. Chem. Soc, 78, 6414 (1956); J. A. Cade, W. Gerrard, J. Chem. Soc., 2030, 1954; J. A. Cade, W. Gerrard, Chem. a. Ind., 1954, 402.

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut (Kazan' Institute of Chemical Technology)

SUBMITTED: March 12, 1960

Card 3/4

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

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was not attained since a partial polymerization of the esters could not be avoided when they were heated. The average difference between the found and the calculated values of molecular refraction is 1.12; the esters were thoroughly purified so that an exaltation was caused by the salicylic acid radical, since exaltation is also observed with the dialkyl derivatives of salicylic acid (1.09), which is very similar to that found by the authors. All esters are slightly saponified by the moisture of air and separate salicylic acid. The reaction

$$o\text{-}C_6H_4CO(O_2)POR + 2NaOH \longrightarrow o\text{-}C_6H_4(OH)COONa + ROPH(O)ONa$$

takes place in the case of solution in cold dilute alkali lye. Since alkali phosphite salts saponify very slowly with dilute alkali lyes in the cold, this reaction was used for determining the equimolecular weights of the esters (titration with phenol phthalein). The strong heating that accompanies the reaction of cuprous chloride with the esters yields vaseline-like products. If the esters are mixed with alcohols, a strong heating occurs after some time under the separation of salicylic acid and the respective trialkyl phosphite $ROP(OR')_2$. Both oxygen bonds linking the phosphorus with the salicylic acid radical, are split at the same time, or almost at the same

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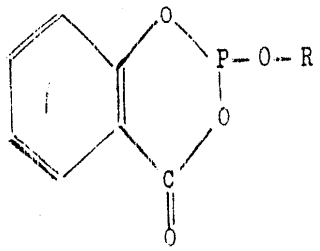
S/079/61/031/003/008/013
B118/B207

AUTHORS: Nesterov, L. V. and Sabirova, R. A.

TITLE: Derivatives of phosphorous acid. I. Esters of salicyl phosphorous acid and some of its properties

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 3, 1961, 897-901

TEXT: Proceeding from the papers of I. A. Cade and W. Gerrard on the synthesis of the butyl ester of salicyl phosphorous acid, the authors synthesized 6 alkyl esters of salicyl phosphorous acid (Table) by reacting its chloride with the respective alcohol and dimethyl aniline in absolute ether. If the esters react with the alcohols, the order of addition of the components exerts an essential effect upon the yield of the initial product; it is necessary to add the alcohol to the acid chloride. The constants of the esters were determined after three-, four-, and even five-fold distillation; however, the 93% yield obtained by I. A. Cade and W. Gerrard already after distillation,



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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, L. V. (Kazan Chemical Technological Inst. im. S. M. Kirov)

"Fifty Years of the Arbuzov Rearrangement" (5 [illegible] arbuzovskoy [illegible])

Chemistry and Uses of Organophosphorous Compounds
(Khimiya i primeneniye fosfororganicheskikh soyedneniy),
Trudy of First Conference, 8-10 December 1955, Kazan,
pp. Published by Kazan Affil. AS USSR, 1957
42-49

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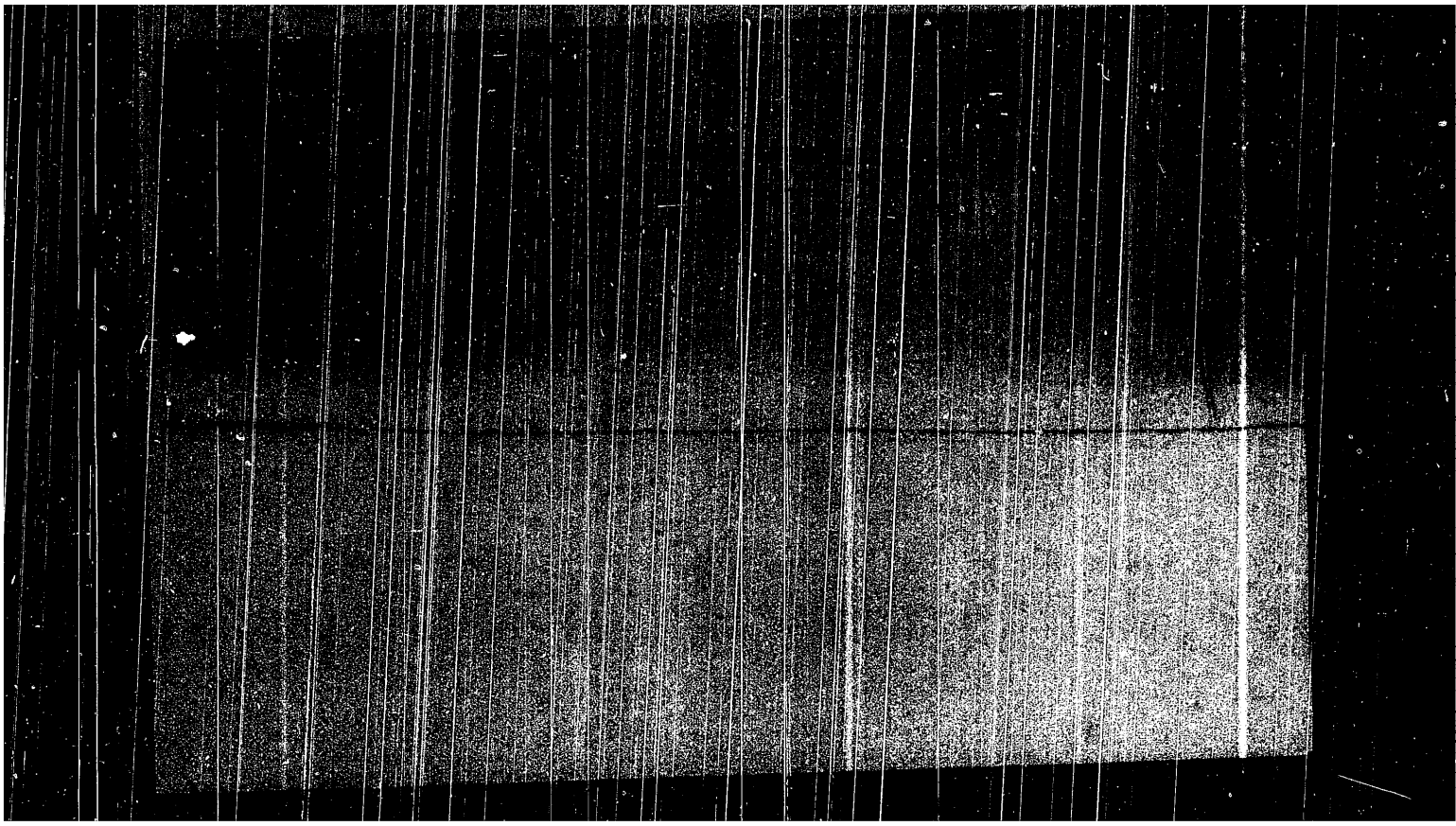

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

USSR/ Chemistry

Card : 1/1

Authors : Arbuzov, A. E., and Nesterov, L. V.

Title : Size and structure of radicals and their effect on the rate of isomerization of phosphorous acid esters

Periodical : Izv. AN SSSR, Otd. Khim. Nauk., 3, 427 - 435, May - June 1954

Abstract : Data are presented regarding the rate of isomerization of new mixed phosphorous acid esters (phosphites), the addition of alkyl iodides to triphenyl phosphite, thermal decomposition of addition products and the rate of all mentioned conversions. It was established that the products obtained from phosphite isomerization actually accelerate the isomerization process thus changing the isomerization reaction into an autocatalytic reaction. The effect of size and structure of radicals on the rate of isomerization is explained. Eleven references: 5 USSR, 2 USA, 1 German, 2 Polish, 1 French. Tables.

Institution : The S. M. Kirov Chem-Technological Institute, Kazan

Submitted : June 19, 1953

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NESTEROV, L. V.

Dissertation: "The Influence of the Size and Structure of Radicals on the Rate of Isomerization of Phosphorous Acid Esters. (Research in the Filed of the Mechanism of the Arbusow Rearrangement.)" Cand Chem Sci, Kazan' Chemico-Technological Inst, Kazan' 1953

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (W-30928)

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SHEFER, D.G., prof.; NESTEROV, L.N., kand. med. nauk

Thalamotomy in the treatment of Kozhevnikov's epilepsy.
Vop. neirokhir. no.1:8-11 '65. (MIRA 18:4)

1. Klinika nervnykh bolezney i neyrokhirurgii (zav. - prof. D.G. Shefer) Sverdlovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

ORANSKIY, I.Ye.; NESTEROV, L.M.

Methodology for objective recording of hyperkinesis. Zhur. nevr. i psikh. 65 no.8:1194-1196 '65. (MIRA 18:8)

1. Otdel funktsional'noy diagnostiki Sverdlovskogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii (direktor N.V. Orlov) i klinika nervnykh bolezney i neyrokhirurgii (zaveduyushchiy - prof. D.G. Shefer) Sverdlovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

SHEFER, D.G.; NESTEROV, L.N.; STARIKOV, A.S.

Carotid angiography in the diagnosis of cerebrovascular diseases. Zhur. nevr. i psikh. 64 no.10:1494-1497 '64. (MIRA 17:11)

1. Klinika nervnykh bolezney i neyrokhirurgii (zaveduyushchiy - prof. D.G. Shefer) Sverdlovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

SHEFER, D.G., prof.; NESTEROV, L.N., kand. med. nauk; KISLITSINA, G.S.

Changes in the electrical activity of the optic thalamus and cerebral cortex in thalamectomy. Vop. neirokhir. 28 no.1:16-19 Ja-F '64. (MIRA 18:1)

1. Klinika nervnykh bolezney i neyrokhirurgii (zav. - prof. D.G. Shefer) Sverdlovskogo meditsinskogo instituta i Nauchno-issledovatel'skogo instituta kurortologii i fizicterapii.

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

SHEFER, D.G.; NESTEROV, L.N.

Angiography in tumors and vascular diseases of the brain. Zhur. nerv. psikh. 60 no. 4:421-425 '60. (MIRA 14:4)

1. Klinika nervnykh bolezney i neyrokhirurgii (zav. - prof. D.G. Shefer) Sverdlovskogo meditsinskogo instituta i Sverdlovskogo nauchno-issledovatel'skogo instituta kurortologii i fizioterapii.
(ANGIOGRAPHY) (BRAIN--DISEASES)

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, L.N.

Automatic syringe for angiography with a remote electric switch. Vest. rent. i rad. 35 no. 4:62-63 Jl-Ag '60. (MIRA 14:2)

1. Iz kliniki nervnykh bolezney i neyrokhirurgii (zav. - prof. D.G. Shefer) Sverdlovskogo meditsinskogo instituta.
(ANGIOGRAPHY—EQUIPMENT AND SUPPLIES)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, L.N. (Sverdlovsk)

Diagnosis of cancer metastases into the brain using angiography. Vop.neirokhir. 23 no.5:43-45 S-O '59. (MIRA 12:11)

1. Klinika nervnykh bolezney i neyrokhirurgii Sverdlovskogo gosudarstvennogo meditsinskogo instituta.
(BRAIN neoplasms)
(CEREBRAL ANGIOGRAPHY)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

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NESTEROV, L.L., radiomekhanik

Signaling in a hump yard. Avto., telem. i sviaz' 8 no. 8:29-30 Ag '64. (MIRA 17:11)

1. Krasnolimanskaya distantsiya Donetskoy dorogi.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

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MASTERKOV, L. I.

Dissertation defended for the degree of Candidate of Economic Sciences at the Institute of the Economics of the World Socialist

"Statistical Methods of Comparing Capital Investments of the USSR with the US."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-125

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IOFFE, Ya.A.; NIKONOVA, I.I.; CHERTKO, V.F.; MAYDENOV, G.N.; ZIMIN, B.N.; NOCHEVKINA, L.P.; MEST'EROV, L.I.; KISTANOV, N.I.; KUDROV, V.M.; PAK, G.V., red.; PONOMAREVA, A.A., tekhn. red.

[Structural changes in the industries of the United States, Great Britain and German Federal Republic in the postwar year]Strukturnye izmeneniia v promyshlennosti SSHA, Anglii i FRR v poslevoennye gody. Moskva, Ekonomizdat, 1962. 417 p. (MIRA 15:10)

1. Moscow. Nauchno-issledovatel'skiy ekonomicheskiy institut.
(United States--Industries) (Great Britain--Industries)
(Germany, West--Industries)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

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NESTEROV, L.I.

Synthetic resins and plastics in American construction. Stroi. mat. 7 no. 1:33-34 Ja '61. (MIRA 14:1)
(United States—Plastics) (United States--Resins, Synthetic)

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, L. I.

AUTHOR: Nesterov, L. I. 2-58-4-10/14

TITLE: Annoying Mistakes (Dosadnyye oshibki)

PERIODICAL: Vestnik Statistiki, 1958, Nr 4, pp 82-84 (USSR)

ABSTRACT: Gosstroyizdat is accused of making numerous mistakes due to carelessness in handling statistical material of the countries concerned in making abstracts of a series of books: "Construction Experiences Abroad", "In the USA", On English Building Sites".
There are 6 references, 2 of which are Soviet, 1 Dutch and 3 English.

AVAILABLE: Library of Congress

Card 1/1

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, I.V., dotsent

Combined mixtures of antibiotics in preventing purulent complications in emergency surgery on the abdominal cavity. Vest.khir. no.5:55-57 '62. (MIRA 15:11)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. P.M. Maksimov) Ivanovskogo meditsinskogo instituta (rektor - dotsent Ya.M. Romanov).

(ABDOMEN--SURGERY)

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, I.V., kandidat meditsinskikh nauk, zasluzhennyy vrach Gruzinskoy SSR.

Prevention of suppuration in surgical wounds. Khirurgiia 32 no.7: 38-40 Jl '56. (MLRA 9:11)

1. Iz khirurgicheskogo otdeleniya (zav. I.V.Nesterov) Yaltinskoy gorodskoy bol'nitsy

(SURGERY, OPERATIVE, compl.
suppuration of surg. wds, prev.)
(WOUNDS AND INJURIES
surg. wds., prev. of suppuration)
(INFECTION, etiol. and pathogen.
surg. wounds supperation, prev.)

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NESTEROV, I. V., BABUSHKIN, A. I., PETRUNIN, A. D.

Stomach - Diseases

Clinical aspects and diagnosis of phytobezoars. Vest. khir. 72 no. 72 no. 1, 1954.

9. Monthly List of Russian Accessions, Library of Congress, June 1958, Uncl.

2

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, I. V.

Penicillin in prevention of postoperative suppurations. Khirurgiia, Moskva no. 11:44-46 Nov. 1951. (CLML 21:3)

1. Honored Physician Georgian SSR. 2. Of the Surgical Division of Yalta Municipal Hospital.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, I. V.

Bee Culture

Raising bees in winter. Pchelovodstvo 29 no. 3: 25-27 Mr '52

9. Monthly List of Russian Accessions, Library of Congress, July 1958. Unclassified.

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

L 25792-65

ACCESSION NR: [illegible]

tion energy of the reduction of Fe is 8.71 kcal/mol. A drying oil was then prepared based on glyptal and tung oil and containing an Fe naphthenate drying agent activated by fumoir. Comparative tests of effectiveness were carried out simultaneously on this drying oil, a glyptal-tung oil drying oil and a glyptal drying oil [illegible] (OAO-36). The drying oil films were tested for their content of insoluble polymer and residual unsaturated compounds, hardness, wear resistance, water resistance, heat stability and stability in the atmosphere. According to the quality of the films obtained, the tested drying oil was comparable to the glyptal-tung oil drying oil containing Fe-, Mn- and Co drying agents, and surpassed the glyptal drying oil ([illegible] OAO-36) while having a significantly shorter drying time (2 hours). For Part I, see [illegible], 1962, [illegible]; see also [illegible], 1964, [illegible], V. Latev.

SUB CODE: [illegible] ENCL: 00

Card 2/2

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L 25792-65 EWT(m)/EWP(j) Pc-4 RM

ACCESSION NR: AR4040355 S/0081/64/000/006/8070/8070

SOURCE: Ref. zh. Khimiya, Abs. 6S491

AUTHOR: Pestarov, I. S.

TITLE: A study of the drying of oils in the presence of drying agents. Part 2

CITED SOURCE: Tr. Vses. n.-i. in-ta zhirov, vyp. 23, 1963, 341-347

TOPIC TAGS: drying agent, drying oil, furoin, ferric oxide reduction, glyptal drying oil, tung oil, ferric naphthenate, drying oil film, film stability, film mechanics property

TRANSLATION: The author studied the kinetics of the reduction of ferric to ferrous oxide by furoin, and tested the properties of a drying oil containing a glyptal-tung oil base with an Fe drying agent and furoin. The reduction of ferric to ferrous oxide naphthenate by furoin was studied by the method for determining the reducing properties of benzoin. The amount of ferrous oxide formed was determined by titrating the aqueous $FeSO_4$ solution, obtained by shaking the reaction mixture with sulfuric acid, with a solution of $K_2Cr_2O_7$. The results showed that this reaction satisfies a second-order equation. The total activa-

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NESTEROV, I.N., kandidat meditsinskikh nauk.

Prevention of suppurative complications of appendectomies. Vest. khir. 76 no.8:128 S '55. (MLRA 8:11)

1. Zasluzhennyy vrach Gruzinskoy SSSR .Iz khirurgicheskogo otdeleniya Yaltinskoy gorodskoy bol'nitsy.
(APPENDIX(ANATOMY)--SURGERY) (SUPPURATION)

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, I.M., kand.tekhn.nauk; MILLER, E.V.

New methodology for exact determination of the specific weight of individual samples of the products of gravity concentration. Nauch. soob. IGD 16:52-59 '62. (MIRA 16:8)
(Gravity separation of ores)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

[illegible] M

DUBERDEYEV, I.Ke. (Moskva); KARS[illegible], V.I. ([illegible]); [illegible] ([illegible]); [illegible], [illegible]. (Moskva)

Effect of [illegible] on the [illegible] jigging machine. Izv. AN SSSR. Otd. [illegible]. Ust. [illegible]. no.1: 162-165 Ja-F '61. ([illegible])

(Ore dressing)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

PLAKSIN, I.N.; KLASSEN, V.I.; NESTEROV, I.M.; MILLER, E.V.

Water movement in a sinusoidal settling cycle; quality evaluation.
Trudy Inst.gor.dela 3:247-254 '56. (MLRA 9:8)
(Ore dressing)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

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124-1957-10-11793

Resistance of a Layer of Mineral Grains (cont.)

(size 0.2 - 0.1 cm) lead glance (0.16 - 0.1 and 0.0147 - 0.0104), and chalcopyrites (0.042 - 0.025), showed that formula (2) can be used for velocities $v_1 < 1$ cm sec - 1. An analysis of results obtained shows that the formulae cannot be used without giving them a further, more accurate definition in the case of a low degree of grain compactness. Bibliography: 6 references.

Ye. M. Minskiy

Card 3/3

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

Resistance of a Layer of Mineral Grains (cont.)

where x_0 is the radius of a circle having an area equal to the cross section of the channel; dp/dz is the pressure gradient; μ is the viscosity; α is a coefficient depending upon the shape of the cross section which is equal to 0.125 for a round section, 0.14 for a square or triangular section, etc. On the average α is assumed to be 0.13. An average velocity through a layer containing a large amount of grains is computed. The pressure drop across the layer is determined by the equation:

$$\left|\frac{dp}{dz}\right| = \frac{189.4\,\mu\, v_1 (1-\theta)\,\theta^{\frac{1}{2}}}{(d_1^2 + d_1 d_2 + d_2^2)(1-\theta^{2/3})^4\, g} \qquad (2)$$

where θ is the compactness of the layer and d_1 and d_2 are the dimensions of the largest grain and the smallest grain in cm. A formula for the computation of the velocity in poured and compacted particles (grains) was obtained. The formulas were tested by experiments. The experiments carried out with magnetite

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Nesterov, I.M.

124-1957-10-11793

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 87 (USSR)

AUTHORS: Plaksin, I. N., Klassen, V. I., Nesterov, I. M., Miller, E. V.

TITLE: Resistance of a Layer of Mineral Grains to a Liquid Stream Passing Through It (O soprotivlenii sloya mineral'nykh zeren prokhodyashchemu potoku zhidkosti)

PERIODICAL: Tr. In-ta gorn. dela AN SSSR, 1956, Vol 3, pp 213-238

ABSTRACT: To compute the resistance of a liquid flow through a layer of mineral grains, the Navier-Stokes equation for laminar flow through channels with varied cross sections is solved. Shapes of cross sections similar to those prevailing between adjacent grains are discussed. The flow equation is solved by a method of finite differences. For an average velocity v the following equation is given:

$$v = -\alpha \frac{r_0^2}{\mu} \frac{dp}{dz} \qquad (1)$$

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NESTEROV, I. M. Cand. Tech. Sci.

Dissertation: "Study of the Process of Jigging Small Pieces of Rare Metals [illegible] Establishment of Essential Parameters on the Example of Concentration [illegible] Tin Ores." Moscow Inst of Nonferrous Metals and Gold Imeni M. I. [illegible], [illegible].

SO: Vechernyaya Moskva, Jun, 1947 (Project [illegible])

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CA

9

New method of ore concentration in the Buranowa concentrator. I. M. Nestetov. *Tsvetnye Metal.* **16**, No. 5, 20-30(1941). *Chem. Zentr.* **1942, II**, 2524. The plant treats scheelite and originally obtained only a 30-60% recovery of WO_3 (av. 45-50%). By improvements in the process (use of settling machines instead of concg. tables) the recovery was raised to 75-86.2%, while the output of the plant rose to 1.5-2 times the old figure, with water consumption reduced to 1/4-1/6. Old residues are also treated in the same machines with 94-97% recovery.

B. H. Strom

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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ROSTOVTSEV, N.P., NESTEROV, I.I.

[illegible] Siberian Plain is a new oil base [illegible] Sari. [illegible] i gaza 9 no.7:1-8 Je '65. (MIRA 18:12)

1. Zapadnosibirskiy [illegible]issledovatel'skiy geologo[illegible]dochnyy [illegible] institut.

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BOGOMYAKOV, G.P.; GURARI, F.G.; KAZAKOV, D.Ye.; MIRONOV, Yu.K.; NESTEROV, I.I.; ROZHOK, N.G.; ROVNIN, L.I.; ROSTOVTSEV, N.N.; RUDKEVICH, M.Ya.; TSIBULIN, L.G.; ERV'YE, Yu.G.

Prospecting for oil and gas in the West Siberian Plain. Geol. nefti i gaza 8 no.9:43-48 S '64. (MIRA 17:11)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya, Tyumenskoye geologicheskoye upravleniye i Novosibirskoye territorial'noye geologicheskoye upravleniye.

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NESTEROV, I.I.

Studying and classifying platform local structures of the West Siberian Plain. Neftegaz. geol. i geofiz. no.10:43-45 '61. (MIRA 14:1)

1. Tyumenskiy filial Sibirskogo nauchno-issledovatel'skogo instituta geologii, geofiziki i mineral'nogo syr'ya.

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GUARI, F. G.; MIRONOV, Yu. K.; NESTEROV, I. I.; ROVNIN, L. I.; ROSTOVTSEV, N. N.; RULKEVICH, M. Ya.; ERV'YE, Yu. G.

"Oil and gas deposits of the West Siberian Lowland."

Report submitted for 22nd Sess, Intl Geological Cong, New Delhi, [illegible] Dec 1964.

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NESTEROV, I.I.

Estimating the [illegible]
Barremain sediments [illegible]
Plain. Geol. i geofiz. [illegible]

1. Tyumenskiy filial [illegible]
geologii, geofiziki i mineralnogo [illegible]

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APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

NESTEROV, I.I.; PEROZIO, G.N.; BRADUCHAN, Yu.V.; STAVITSKIY, B.P.; NESTEROVA, Ye.I.; MITROFANOVA, G.M., vedushchiy red.

[Surgut keywell. Tymen' Province.] Surgutskaia opornaia skvazhina (Tiumenskaia oblast'). Leningrad Nedra, 1964. 187 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.226)

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700036-6

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NESTEROV, I.I.

Some problems of the formation of gas fields in the Berezovo region of the West Siberian Plain. Trudy SNIIGGIMS no.26:151-159 '62. (MIRA 16:3)

(Berezovo region (Tyumen' Province)--Gas, Natural-geology)

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GURARI, F.G.; ZAPIVALOV, N.P.; KONTOROVICH, A.E.; NESTEROV, I.I.; STAVITSKIY, B.P.

Regularities of change in the composition of Mesozoic crudes of the West Siberian Plain. Geol. nefti i gaza 8 no.12:23-27 D '62. (MIRA 18:2)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya.

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GURARI, F.G.; NESTEROV, I.I.; RUDKEVICH, M.Ya.

Stratigraphy of Mesozoic and Cenozoic sediments in the West Siberian Plain. Geol. i geofiz. no.3:3-10 '62. (MIRA 15:7)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya, Novosibirsk.
(West Siberian Plain--Geology, Stratigraphic)

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NESTEROV, I.I.

Genesis and formation of structures in the Berezovo region of the West Siberian Platform. Trudy SNIIGGIMS no.17:42-50 '61. (MIRA 15:9)
(Berezovo region (Tyumen' Province)--Geology, Structural)

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NESTEROV, I.I.

Tara series of the Berezovo region of the West Siberian Plain.
Trudy SNIIGGIMS no.14:33-36 '61. (MIRA 15:8)
(Berezovo region (Tyumen' Province)--Geology, Stratigraphic)

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GURARI, F.G.; KAZARINOV, V.P.; KAS'YANOV, M.V.; NESTEROV, I.I.; ROSTOVTSEV, N.N.; ROVNIN, L.I.; RUDKEVICH, M.Ya.; TROFIMUK, A.A.; ERV'YEV, Yu.G.; MIRONOV, Yu. K.

West Siberian Plain is a new oil and gas production center of the U.S.S.R. Geol.i geofiz. no.10:3-15 '61. (MIRA 14:12)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya, Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk, Tyumenskoye territorial'noye geologicheskoye upravleniye i Novosibirskoye territorial'noye geologicheskoye upravleniye.

(West Siberian Plain--Petroleum geology)
(West Siberian--Gas, Natural)

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[illegible], I.I., Cand Geo-Min Sci —(diss) " [illegible]
capacity)
and [illegible] the northern [illegible] [illegible]."
Min of Hydrocarbon
Sverdlovsk, 1957. 19 pp (~~MVS~~ USSR. Main Admin of [illegible]
VUZ.
and Construction ~~Vuzov~~, Sverdlovsk Mining Inst [illegible]).

100 copies (KL, 20-58, 94)

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RYABUKHIN, G.Ye.; NESTEROV, I.I.

Tectonics and the possible oil- and gas-bearing capacity of Mesozoic deposits in the northern buried folded region of Kazakhstan. Neft.khoz. 34 no.10:32-41 O '56. (MLRA 9:11)
(Kazakhstan--Petroleum geology)

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NESTEROV, I.K., gvardii polkovnik, Geroy Sovetskogo Soyuza, voyennyy letchik [redacted] klassa.

Role of the flight leader's assistant in complex meteorological conditions. Vest. Vozd. Fl. 41 no.10:37-39 O '58. (MIRA 11:10)
(Meteorology in aeronautics) (Navigation (Aeronautics))

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SOV/86-58-10-16/40

AUTHOR: Nesterov, I.K., Guards Col, Hero of the Soviet Union

TITLE: The Role of the Assistant Flight Supervisor Under Unfavorable Weather Conditions (Rol' pomoshchnika rukovoditelya poletov v slozhnykh meteousloviyakh)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 10, pp 37-39 (USSR)

ABSTRACT: In this article the author deals with the role and duties of the assistant flight supervisor when flights are carried out under unfavorable weather conditions.

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