

INVENTOR: Kaplan, S. Z.; Yefimova, L. F.; Zvontsova, A. S.; Zakharova, N. A.;
Khromov-Borisov, N. V.

ORG: none

TITLE: A method for increasing the antioxidative stability of Industrial 12
petroleum lubricating oil. Class 23, No. 187914

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 79

TOPIC TAGS: lubricant, lubricating oil, petroleum lubricating oil, hydrocarbon
lubricant, lubricant additive, antioxidant additive, oxidation inhibition, morpholine,
morpholine derivative, methylmorpholine derivative, propandiol derivative,
morpholinomethyl propandiol derivative

ABSTRACT: An Author Certificate has been issued for a method of increasing the
antioxidative stability of Industrial-12 petroleum lubricating oil by introducing a
methylmorpholine derivative as an antioxidant additive. 2,2-Bis(morpholinomethyl)-1,
2-propandiol was used to widen the selection of additives. [BN]

SUB CODE: 07, 21/ SUBM DATE: 30Jun65/ ATD PRESS: 5109

KAPLAN, S.Z.; ZVONTSOVA, A.S.; RUDKOVSKIY, D.M.; KETSLAKH, M.M.

Synthesis of "etriol" triamine [1,1,1-tris (aminomethyl)-propane].
Zhur.ob.khim. 32 no.10:3197-3198 0 '62. (MIRA 15:11)
(Propane) (Triamine)

BLOK, N.I.; GLAZOVA, A.I.; LASHKO, N.F.; KURAYEVA, V.P.; MOLCHANOVA, Ye.K.;
Prinimali uchastiye: VINOGRADOVA, Ye.A.; ZVONTSOVA, Ye.V.;
POLYAKOVA, L.V.

Phase analysis of alloys on the titanium basis. Zav. lab. 27
no. 12:1470-1472 '61. (MIRA 15:1)
(Titanium alloys) (Phase rule and equilibrium)

TEODOROVICI, Gr., conf.; IVAN, A., dr.; OANA, G., dr.; ZVORISTEANU,
Virginia, dr.; HANDRACHE, Lidmila, dr.; VANOLA, Georges, dr.;
MANTA, I., dr.; CAMNER, M., dr.; URNA, Mirsille, dr.; BOSTEN,
Marie-Jeanne, dr.

Evolution of influenza among a group of school-age children in
the year 1962-1963. Microbiologia (Bucur) 9 no.6:521-529
N-D '64

1. Lucrarea efectuata la Institutul medico-farmaceutic, Iasi.

ZVOR

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720001-8

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720001-8"

V. M. Rodionov and V. K. Zvoriykina, Synthesis in the Pyrimidine row. P. 230.

SO: Bulletin of the U.S.S.R. Academy of Sciences (Chemistry Series)
Izvestia Akad. Nauk, S.S.S.R., No. 3, 1948.

B-1-3

NEUTRAL PRODUCTS OF OXIDATION OF PETROLEUM
HYDROCARBONS BY ATMOSPHERIC OXYGEN. S. b.
Nemetkin and V. K. Zvonikina (J. Gen. Chem. Russ.,
1934, 4, 806--814).--7.7% of the alcohol-aldehyde
fraction of the products of oxidation of paraffin by
atm. O₂ consists of aldehydes of b.p. >100%, amongst
which n-C₅-H₁₁-CHO were identified. The alcohols
n-C₅-H₁₃-OH were identified in the residue after
separation of aldehydes. R. T.

COMBUSTION

COMBUSTION

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGIONS SYMBOLS FROM NOMENCLATURE

GROUP	SYMBOLS	REGIONS	SYMBOLS	FROM NOMENCLATURE
A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y
Z	AA	AB	AC	AD
AE	AF	AG	AH	AI
AJ	AK	AL	AM	AN
AO	AP	AQ	AR	AS
AT	AU	AV	AW	AX
AY	AZ	BA	BB	BC
BD	BE	BF	BG	BH
BI	BJ	BK	BL	BM
BN	BO	BP	BQ	BR
BS	BT	BU	BV	BW
BX	BY	BZ	CA	CB
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"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065720001-8
CIA-RDP86-00513R002065720001-8"

ZVORNAREV, I.N.

Geological formations. Trudy Geol.-geol.inst.zap.Sib.fil.AN
SSSR no.17:9-31 '56. (MIRA 13:5)
(Geology)

137-58-4-7149

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 120 (USSR)

AUTHORS: Zvorono, B. P., Petrova, Ye. N., Polilov, N. A., Vayner, Ye. L., Samsonenko, G. T.

TITLE: Designs of Medical Instruments Suitable for Production by Cold Extrusion (Konstruirovaniye meditsinskikh instrumentov, dopuskayushchikh kholodnoye pressovaniye)

PERIODICAL: Materialy po obmenu opytom i nauchn. dostizh. v med. prom-sti, 1957, Nr 4 (23), pp 90-106

ABSTRACT: The manufacture of medical instruments from blanks in the form of bodies of revolution produced by cold reducing, cross-rolling, or machined by template on a lathe is performed on ordinary presses using open plates, with reduction by 50-60 percent in a single operation in the cold condition under unit pressures of 12-15 t/cm², offering the following advantages: replacement of the laborious operations of hand roughing and filing by machine operation, production of a high degree of surface finish without burrs or having no more than a thin flash, saving of metal, employment of universal equipment, use of simple and cheap dies, repair of which may be done on a flat grinder. When high degrees

Card 1/2

137-58-4-7149

Designs of Medical Instruments Suitable for Production by Cold Extrusion

of reduction are required, the pressing is done in a number of passes, with high-temperature annealing performed between passes. Methods of calculating the initial blank and of designing the non-operating elements of the instrument, also examples of typical products manufactured in this manner, are presented.

1. Medical instruments--Production 2. Metals--Extrusion--Applications Ye. L.

L'VOV, Dmitriy Sergeevich; ROZHDZSTVENSKIY, Yuriy L'vovich; ABRAMOV,
Aleksandr Vasil'yevich; LITVAK, Lev Kosilevich; ZVORONO, B. B.,
Kand. tekhn. nauk, retsenzent; MEZHOVA, V. A., inzh., red.;
GERASIMOVA, Ye. S., tekhn. red.

[Stamping out ring-shaped parts] Shtampovka kol'tsevykh zagotovok.
Moskva, Gos. nauchno-tekhn. iss-vo mashinostroit. lit-ry, 1958.
182 p. (MIRA 11:8)

(Sheet-metal work)

ZVORONO, B. P.

"Handbook on die stamping" by V. P. Romanovskii. Reviewed by
B. P. Zvorono. Kuz.-shtam. proizvod. 2 no. 7:46-47 JI '60.

(MIRA 13:8)

(Sheet-metal work)
(Romanovskii, V. P.)

~~ZVORONO, B.P., kand. tekhn. nauk, doct.~~

Cold pressing of shaped parts in open dies. Vest. mash. 38 no.4:
36-40 Ap '58. (MIRA 11:3)

(Dies (Metalworking))

ZVORONO B.P.

Dimensional accuracy of forgings during free plane sizing on
crank presses. Kuz.-shtam.proizv. 5 no.411-6 Ap '63.
(MIRA 16:4)

(Forging)

(Power presses)

ZVORONO, B.P., kandidat tekhnicheskikh nauk, dotsent.

New method of manufacturing cold pressed steel medical instruments.
[Izd.] LONITOMASH vol.40:114-127 '56. (MLRA 10:4)
(SHEET METAL WORK) (MEDICAL INSTRUMENTS AND APPARATUS)

Raschet i konstruirovaniye shtampov dlia kholodnoi shtampovki. Moskva, Mashgiz, 1949. illus.

Bibliography: v. 1, p. 194-(195).

Contents. - ch. 1. Vyreznye i probivnye shtampy.

(Calculations and designing of dies for cold stamping. v. 1. Dinking and punching dies.)

DLC: TS253.Z9

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

FEDURKIN, V.V.; NESTERENKO, A.T.; KOVSHAROVA, L.A.; RAZUMOVSKAYA, Ye.I.;
OSIPOVA, Ye.V.; VASIL'YEVA, G.S.; PEKARSKIY, M.D., *otv.red.*;
ZVORONO, B.P., *zamestitel' otv.red.*; BOLDYREV, B.V., *red.*; VOLODIN,
Ye.A., *red.*; DANIL'CHENKO, Ye.P., *red.*; ORSKIY, I.N., *red.*; MISHIN,
L.N., *red.*; FREYDIN, G.S., *red.*; TSEPELEV, Yu.A., *red.*

[Technological instruction material; aluminum and aluminum alloys
for medical articles] Rukovodiashchie tekhnicheskie materialy;
aliuminii i aliuminievye splavy dlia meditsinskih izdelii. Moskva,
M-vo zdavookhraneniia, 1959. 70 p. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.

(MEDICAL INSTRUMENTS AND APPARATUS)

(ALUMINUM)

KUKHTAROV, Vladimir Ivanovich; KUKHTAROV, Oleg Vladimirovich; TOMLENOV,
A.D., doktor tekhn.nauk, retsenzent; ZYOROMO, B.P., kand.tekhn.
nauk, red.; OSIPOVA, L.A., red.isd-va; MODEL', B.I., tekhn.red.

[Dies for cold sheet stamping] Shtampy dlia kholodnoi listovoi
shtampovki. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.
lit-ry, 1960. 320 p. (MIRA 13:5)
(Dies (Metalworking)) (Sheet-metal work)

B. P. Avramov. Factory Laboratory (U.S.S.R.), v. 10, No. 10, 1957, p. 673-682. (In Russian.)

The possibility of testing thin sheet metal by measurement of the energy required for punching holes and other operations on the sheet. Two instruments designed to measure this energy--the first, by deformation of a heavy spring or rubber, the second by comparison of the diameters of the impressions made by a ball on the sheet tested and on a standard specimen. Lit. ref.

Immediate Source Clipping

The design and construction of dies for cold die stamping. Moskva, Gos.
nauch.-tekhn. izd-vo mashino-stroit. lit-ry, 1949 (50-15779)

TS253.29

USSR/ Miscellaneous - book review

Card 111 Sub. 123 - 1.28

Authors : Imat'ev, A. I., Eng.; Kart, F. I., Cand. of Tech. Sci.; Lurshak, V. I.,
Cand. of Tech. Sci.; and Lyubimov, S. P., Cand. of Tech. Sci.

Title : Review of books

Periodical : Vest. mash. 35.6, 86 - 90, Jun 1955

Abstract : An extensive review is given of Ya. M. Pavlov's book, "Machine Components,"
published in "Mashziz" 1954; a book, "Planning of Mechanism Chains for a
Machine," published in "Mashziz" 1954; and a book, "Planning of Mechanism
Chains for a Machine," published in "Mashziz" 1954.

Indexing:

Submitted :

Agricultural Machinery - Trade and Manufacture

Use of rolled iron from Bessemer steel in the manufacture of farm machinery. Sel'khoz mashina, No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

25(1)

PHASE I BOOK EXPLOITATION

Gubkin, Sergey Ivanovich (Deceased), Mikhail Vasil'yevich Storozhev, Boris Pavlovich Zvorono, Vasilii Fedorovich Katkov, Ilariy Anatol'yevich Noritsyn, Yevgeniy Aleksandrovich Popov, Georgiy Aleksandrovich Gmirnov-Alyayev, Aleksandr Dmitriyevich Tomlénov, Yevgeniy Pavlovich Unksov, and Leopold Adol'fovich Shofman

Osnovy teorii obrabotki metallov davleniyem (Fundamentals of the Theory of Metal Forming) Moscow, Mashgiz, 1959. 538 p. Errata slip inserted. 7,500 copies printed.

Ed.: M. V. Storozhev; Ed. of Publishing House: A. I. Sirotin, Engineer; Tech. Ed.: B. I. Model'; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): S. Ya. Golovin, Engineer.

~~TOP SECRET~~
PURPOSE: This book is intended for engineers and scientific workers studying the theoretical problems of metal forming.

COVERAGE: This collective work purportedly reflects the contemporary trends in the development of the metal-forming theory. Emphasis is given to methods of calculating forces and deformations.

Card 1/11

BOGOMOLN, B.V., laureat Stalinskoy premii; **ZVORONO, A.D.**, kandidat
tekhnicheskikh nauk, retsenzent; **TOMLENOV, A.D.**, kandidat
tekhnicheskikh nauk, redaktor; **MATVYEVA, Ye.N.**, tekhnicheskii
redaktor; **TIKHONOV, A.Ya.**, tekhnicheskii redaktor.

[Dies for automobile body parts] Shtampyy dlia oblitsevochnykh
detalei avtomobilei. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1951. 217 p. (MIRA 8:1)

(Automobiles--Design and construction)
(Dies (Metal-working))

Agricultural Machinery - Trade and Manufacture

Use of rolled iron from Bessemer steel in the manufacture of farm machinery. Sel'khozmaschina, No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1957, Uncl.

GUBKIN, Sergey Ivanovich [deceased]; ZVORONO, Boris Pavlovich; KATKOV,
Vasily Fedorovich; NORITSYN, Ilyar' Anatol'yevich; POPOV,
Yevgeniy Aleksandrovich; SMIRNOV-ALYAYEV, Georgiy Aleksandrovich;
TOMLENOV, Aleksandr Dmitriyevich; UNKSOV, Yevgeniy Pavlovich;
SHOFMAN, Leopol'd Adol'fovich; SPOROZHEV, Mikhail Vasil'yevich,
red.; MODEL', B.I., tekhn.red.

[Basic theories in the pressworking of metals] Osnovy teorii
obrabotki metallov davleniem. Pod red. M.V.Storozheva. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 528 p.

(MIRA 12:9)

(Sheet-metal work) (Deep drawing (Metalwork))

ZVORONO, Ya., inzh.

New "skills" of the magnetic field. Znan. sila 36 no. 5:43 My '61.

(MIRA 14:5)

(Electromagnetism)

BOLDINA, Ye.A., inzh.; ZVORONO, Ya.P., inzh.; PESOTSKIY, A.A., inzh.;
SIMO, I.N., inzh.; SOROKINA, A.P., inzh.

Electromagnetic mixing system in an 80-ton electric-arc furnace.
Vest.elektrom. 33 no.4:43-49 Ap '62. (MIRA 15:4)
(Electric furnaces)

GRISHIN, V.Ya.; ZVORONO, Ya.P.; KAPLAN, M.Ya.

Electrical equipment for an electromagnetic stirring of molten
steel. Elektrosila no.22:18-22 '63. (MIRA 17:1)

ZVORONO, Ya.P.

Electromagnetic mixers of liquid steel used in electric arc
furnaces. Biul.tekh.-ekon.inform. no.10:12-14 '58.

(MIRA 11:12)

(Electric furnaces) (Steel--Metallurgy)

Test of a heat pump air conditioning unit in a movie theater. Khol.
tekh. 37 no.5:18-22 S-0 '60. (MIRA 13:10)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promysh-
lennosti.

(Theaters--Air conditioning)

ROZENFEL'D, L.M., prof.; ZVORONO, Yu.S., inzh.; ONOSOVSKIY, V.V., inzh.

Dynamic heating and cooling by using the heat of discarded water.
Gidr.stroi. 33 no.10:26-31 0 '62. (MIRA 15:12)
(Waste heat) (Heating from central stations)

ZVORONO, Ya.P., inzh.

Calculation of the magnetic field of the stator of an electro-
magnetic liquid metal mixer. Elektrotehnika 35 no.10:58-61
0 '64. (MIRA 17:11)

ROZENFEL'D, L.M., prof.; ZVOIROM, Yu.S., inzh.; ONOSOVSKIY, V.V., inzh.

Application of a freon refrigerating machine for cooling and
dynamic heating. Teploenergetika 8 no,6:12-16 Je '61.

(MIRA 14:10)

(Refrigeration and refrigerating) (Thermodynamics)

ZVOROV, I.

SCIENCE

PERIODICALS: ~~ASTA ZOOLOGICA. Vol. 3, No. 4, 1955~~
MAGYAR FIZIKAI FOLYOIRAT. Vol. 3, no. 4, 1955.

Zvorov, I. Elastic scattering of protons on 660-Mev energy protons. Tr. From
the Russian. p. 423.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

ZVORSKIY, V. (Rostov-na-Donu)

In defense of cameras with wide film. Sov.foto 17 no.6:21 Je '57.
(MLRA 10:8)

(Cameras)

ca

The neutral products of oxidation of petroleum hydrocarbons by atmospheric oxygen. S. S. Nametkin and V. K. Zyrskina. *J. Gen. Chem. (U. S. S. R.)* 4, 900-14 (1934).—The oxidation of paraffin from petroleum by atm. O₂ gives, in addn. to monobasic acids and hydroxy acids, more volatile products which escape with the gases and consist of unchanged hydrocarbons, lower-boiling fatty acids and neutral substances. Condensation of this mist, followed by removal of the acids with Na₂CO₃ gave a neutral or weakly acid oil, the aldehyde-alc. fraction (I). I, washed with Na₂CO₃ and dil. NaOH and treated with concd. NaHSO₃, gave a cryst. mass which was sepd. from unchanged oil and dissolved in water. The aq. soln. was extd. with Et₂O, decompd. with Na₂CO₃, the aldehyde layer distd. in steam, collected, dried and fractionated, giving 7.7% of mixed aldehydes (123 g. from 1000 g. I). The boiling range indicated that C₁₁H₂₂CHO to C₁₇H₃₄CHO were present. Individual aldehydes were not isolated, but an α-alkylcinnamaldehyde was prepd. from one fraction, by condensation with BzH, which closely resembled that formed from esanthaldehyde.

22
The residue from the NaHSO₃ ppt. was boiled 6 hrs. with NaOH soln. Distn. of the washed oil gave a 12.3% yield of alcs. based on I. A petrolatum fraction gave only 0.0% of aldehydes and 1% of alcs. The crude alcs. were purified by esterification with H₂BO₃ and C₁₂H₂₂ with subsequent hydrolysis of the borates. Distn. gave fractions whose consts. corresponded roughly to each of the normal alcs. from C₁₁H₂₂OH to C₁₇H₃₄OH. The alcs. were further characterized by oxidation to the corresponding acids and prepn. from these of the Ag salts and the amides. Aldehydes and alcs. may have been formed from said.

hydrocarbons by a process of oxidative cracking.
Louis W. Bue.

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

ALPHABETIC	NUMERICAL	CLASSIFICATION	ALPHABETIC	NUMERICAL	CLASSIFICATION
A	1		A	1	
B	2		B	2	
C	3		C	3	
D	4		D	4	
E	5		E	5	
F	6		F	6	
G	7		G	7	
H	8		H	8	
I	9		I	9	
J	10		J	10	
K	11		K	11	
L	12		L	12	
M	13		M	13	
N	14		N	14	
O	15		O	15	
P	16		P	16	
Q	17		Q	17	
R	18		R	18	
S	19		S	19	
T	20		T	20	
U	21		U	21	
V	22		V	22	
W	23		W	23	
X	24		X	24	
Y	25		Y	25	
Z	26		Z	26	

ZVORYGIN, F.V.; TOMASHOV, V.M.; KHOKHEL', O.A.

Generator of random voltages of subsonic frequencies with
any distribution law and a controlled spectrum. Avtom. i
prib. no.4:74-78 O-D '63. (MIRA 16:12)

1. Institut kibernetiki AN UkrSSR.

RYKOV, I.A., kand.tekhn.nauk; KUZ'MIN, Yu.G.; ZVORYGIN, L.V.

Shield system for mining extra-thick steeply dipping seams. Ugol'
37 no.7:16-19 J1 '62. (MIRA 15:7)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR.
(Coal mines and mining)

Shield method for mining steeply dipping, 1.5 to 2.5 meter thick coal seams in the Prokop'ev-Kiselevsk District of the Kuznetsk Basin. Ugol' 36 no.9:17-18 S '61. (MIRA 14:9)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR.
(Kuznetsk Basin--Coal mines and mining)

DZYUBENKO, V.T., kand. tekhn. nauk; ZVORYGIN, I.V.; PIROZHKOY, G.I., kand. tekhn. nauk

Further improvement of shield support for mining thick steep seams.
Ugcl' 40 no.6:22-24 Je '65. (MIRA 18:7)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR (for Dzyubenko, Zvorygin).
2. Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta (for Pirozhkov).

ISAKOV, I.V.; ZVONKOVA, Z.V.

Crystalline structure of p-aniline thiocyanate. Kristallografiia
10 no.2:194-198 Mr-Apr '65. (MIRA 18:7)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

TERENT'YEV, A.P.; VOZZHENNIKOV, V.M.; KOININOV, C.V.; ZVONKOVA, Z.V.;
RUKHADZE, Ye.G.; GLUSHKOVA, V.P.; BEREZKIN, V.V.

Semiconducting and optical properties of the dithiocarbamates of
copper, nickel, zinc, and cadmium. Dokl. AN SSSR 160 no.2:405-
408 Ja '65. (MIRA 18:2)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova i Moskovskiy
gosudarstvennyy universitet. 2. Chlen-korrespondent AN SSSR
(for Terent'yev).

ZVONKOVA, Z. V.; KRIVNOV, V. Ya.; KHVATKINA, A. N.

New determination of the atomic and electronic structure of
dicyandiamide. Dokl. AN SSSR 155 no. 2: 98-101 Mr '64.
(MIRA 17:5)

1. Fiziko-khimicheskiy institut im. L. Ya. Karpova.
Predstavleno akademikom S. S. Medvedevym.

VORONTSOVA, L.G.; ZVONKOVA, Z.V. ; ZHDANOV, G.S.

Model of the structure of 3,3'-diethylthiocarbocyanine
chloride as determined by the statistical method. Kris-
tallografiia 8 no.3:374-377 My-Je '63. (MIRA 16:11)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

DOROSINSKIY, A.L.; KOLNINOV, O.V.; ZVONKOVA, Z.V.; ZHDANOV, G.S.

X-ray and spectral studies of the complex compounds of cuprous
thiocyanate with thiourea and pyridine. Dokl. AN SSSR 150
no.6:1278-1279 Je '63. (MIRA 16:8)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. Predstavleno
akademikom S.S. Medvedevym.

(Copper compounds--Spectra) (Thiocyanates) (Urea)

S/076/62/036/010/001/005
B101/B186

AUTHORS: Kolninov, O. V., and ~~Zvonkova, Z. V.~~

TITLE: Study of the dependence of the electron absorption spectra of phenyl derivatives of elements of groups IV and V on the nuclear potentials of the elements

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 10, 1962, 2228-2230

TEXT: The effects of the nuclear potential Z^*/r and difference $\Delta \chi$ in electronegativity of atoms in the element - carbon bond of isomorphous tetraphenyl compounds of C, Si, Ge, Sn, and Pb were studied. The electron absorption spectra in the region 225 - 320 μ were determined in crystalline lamellas $\sim 5\mu$ thick. Except for $(C_6H_5)_4Pb$, all spectra were of the same type and showed two absorption bands, the first of which occurred at 250 - 280 μ owing to electron transition in the phenyl radicals from the ground state into the excited state. This band shows fine structure bands which, compared to the benzene spectrum, are shifted some μ . A noticeable shift of bands depending on the type of the

Card 1/3

Study of the dependence of the electron ... S/076/62/036/010/001/005
B101/B186

central atom, however, does not occur. Conclusion: In tetraphenyl compounds of C, Si, Ge, Sn, and Pb, π -electron conjugation of the phenyl radicals with the central atom is almost completely absent, and the π -electron system of the benzene rings remains almost unchanged. In the second band ($\lambda \approx 250 \text{ m}\mu$) of $(\text{C}_6\text{H}_5)_4\text{Ge}$, the absorption edge, as compared to that of $(\text{C}_6\text{H}_5)_4\text{Si}$ and $(\text{C}_6\text{H}_5)_4\text{Sn}$, shows a shift of some $\text{m}\mu$ towards the short wave region. In accordance with H. H. Jaffe (J. Chem. Phys., 22, 1430, 1954), this effect is assumed to be caused by the central atom. The origin of the second band, however, has not been investigated sufficiently. On the basis of data obtained by Jaffe for the electron spectra of triphenyl compounds of P, As, and Sb, the phenyl radicals are assumed to conjugate owing to the free electron pairs of the central atom. Thus the shift of the first band probably depends on the type of central atom; from this shift, the change in excitation energy of π -electrons is estimated to be of the order of 0.1 eV depending on Z^2/r of P, As, and Sb. Further studies are required to explain the relation between the mobility of holes in InP, InAs, and InSb (650, 200, and $700 \text{ cm}^2/\text{v}\cdot\text{sec}$, respectively) and the ligand. There are 6 figures.

Card 2/3

Study of the dependence of the electron ... 8/076/62/036/010/001/005
B101/B186

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova
(Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED: December 2, 1961

Card 3/3

43821

S/O20/62/147/005/019/032
B106/B186

15.8540

AUTHORS:

Terent'yev, A. P., Corresponding Member AS USSR, Rukhadze, Ye. G., Vozzhennikov, V. M., Zvonkova, Z. V., Oboladze, N. S., Mochalina, I. G.

TITLE:

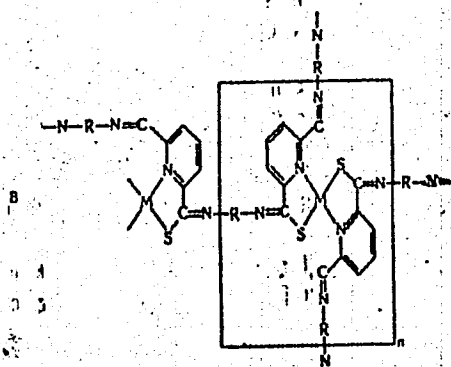
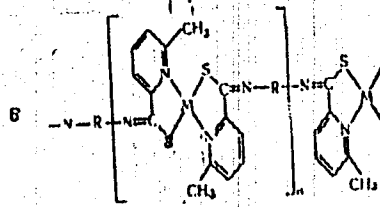
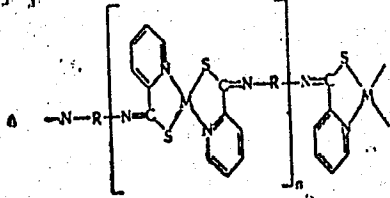
Electrical conductivity and activation energy of chelate compounds of the dithiocarbamates and thioamides of pyridine derivatives ✓

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 5, 1962, 1094-1097

TEXT: The temperature dependence of the electrical conductivity of chelate polymers of the following structures A, B, and C has been determined:

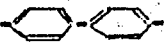

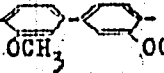
S/020/62/147/005/019/032
B106/B186

Electrical conductivity and...

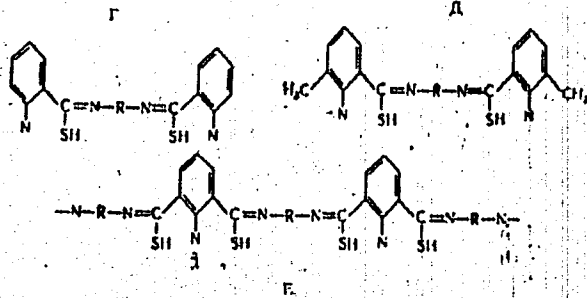


Electrical conductivity and...

8/020/62/147/005/019/032
B106/B186

M = Cu, Co, Zn; R =  (1),  (2),  (3).

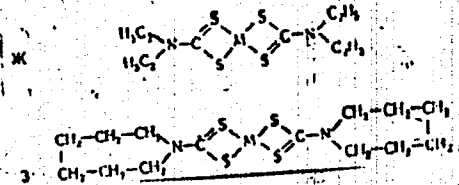
For comparison, the compounds Γ , Δ , and the polymer E (initial products in the synthesis of the above chelate polymers), and the compounds \mathcal{K} and 3 (M = Cu, Co, Zn) (monomers of polychelates investigated earlier (Ref. 2: V. M. Vozzhennikov et al, DAN, 143, 5 (1962)) have been studied analogously:



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Electrical conductivity and...

S/020/62/147/005/019/032
B106/B186



(A)

+

Since the compounds investigated are insulators at room temperature, the values of the electrical conductivity have been determined between 330 and 600°K. The values of the activation energy E have been calculated from the temperature dependence of σ (ascent of the straight line in diagrams ($\log \sigma, 1/T$)). Table 1 shows the results. In agreement with the data of Ref. 2, the electrical conductivity depends considerably on the nature of the metal ($Zn < Cu > Ni > Co$). The stability of the complex compounds and the electron affinity of the metals M change in the same order. The fact that the nature of the radicals bound to nitrogen atoms in the compounds X and 3 has practically no effect on the values of σ and E shows that these two quantities are mainly determined by the nature of the chemical bonds and

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Electrical conductivity and...

S/020/62/147/005/019/032
B106/B186

not by the packing of molecules in the crystal. Activation energies between 1.2 and 1.6 ev were found for the 30 compounds with the grouping $M \cdots S=C-N<$ investigated in Ref. 2 and in the present paper. An activation energy of this order has also been found for $CuSCN$, the simplest semiconductor polymer with the grouping $S=C-N-$. There are 2 figures and 1 table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov); Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: June 22, 1962

Card 5/6

ISAKOV, I.V.; ZVONKOVA, Z.V.

Crystalline structure of the complex formed by zinc chloride
with acetonitrile. Dokl.AN SSSR 145 no.4:801-803 Ag '62.
(MIRA 15:7)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno
akademikom V.A.Karginym.
(Zinc chloride) (Acetonitrile) (Crystallography)

Theory and practice of direct methods in the structure analysis
of crystals. Zhur.strukt.khim. 2 no.5:622-639 S-0 '61. (MIRA 14:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR,
Institut kristallografii AN SSSR i Fiziko-khimicheskiy institut
imeni L.Ya. Karpova.

(Crystallography)

VOZZHENNIKOV, V.M.; ZVONKOVA, Z.V.; RUKHADZE, Ye.G.; ZHDANOV, G.S.;
GLUSHKOVA, V.P.

Electric conductivity and activation energy of some dithioamide,
N-substituted dithiocarbamate, and thiocyanate (Cu, Co, Ni) polymers.
Dokl. AN SSSR 143 no.5:1131-1134 Ap '62. (MIRA 15:4)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno
akademikom V.A.Karginym.

(Polymers--Electric properties) (Thiocyanates)
(Organometallic compounds)

35389 Zadachi Pod'ema Konevodstva i Kachestvonnogo Uluchsheniya Pogolov'ya
Loshadey. V SE: Michurinskaya Nauka-V Praktiku Zhivotnovodstva. Novosibirsk,
1949, S. 173-87

SO: Letopis' Zhurnal'nykh Statey Vol. 34, Moskva, 1949

APPROVED FOR RELEASE: Thursday, September 26, 2002 SURVIVAL CHINA, San Ching-chih; BYKOV, A.A. [translator]; ZABIROV,

B.Sh., red.; KOSHELEVA, S.M., tekhn.red.

[Economic geography as a science] Ekonomicheskaya geografiya kak nauka. Moskva, Gos.izd-vo geogr.lit-ry, 1959. 92 p. Translated from the Chinese.

(MIRA 13:1)

(Geography, Economic)

LYONKIN, I.P. [translator]; GINGOL'D, I.S. [translator]; GRIBNNIKOVA, Ye.N., [translator]; ZANEGIN, B.N. [translator]; ZHONOV, A.A. [translator]; ISAYENKO, B.S. [translator]; KOTOV, A.V. [translator]; MAYZEROV, S.M. [translator]; SAPONOVA, Z.M. [translator]; SOVETOV, I.I. [translator]; SOROKIN, V.F. [translator]; TSVETKOVA, T.Ya. [translator]; CHZHOU, Sun-yuan' [translator]; SOGOMONYAN, G.S. [translator], redaktor; SHAPOVALOV, V.I., tekhnicheskii redaktor

[Socialist development in the Chinese village; a collection of articles prepared by the office of the Central Committee of the Chinese Communist Party] Sotsialisticheski pod'em v kitaiskoi dereven; sbornik izbrannykh statei podgotovlen kantseliariei TsK KPK. Moskva, Izd-vo inostranoi lit-ry, 1956. 502 p. (MLRA 9:10)
(China--Agriculture)

AKAYEV, I.A.; ZVONOV, A.A.; POLYAKOV, M.P.

Using blasthole charges with air gaps at the Angren open-pit coal mine. Ugol' 40 no.12:34-38 D '65. (MIRA 18:12)

1. Angrenskiy ugol'nyy kar'yer (for Akayev). 2. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut po dobyche poleznykh iskopayemykh otkrytym sposobom (for Zvonov, Polyakov).

ZVONOV, A.A., inzh.; KUZNETSOV, I.M., inzh.; POLYAKOV, M.P., inzh.

Practice of using new technology in boring and blasting
operations in pits of the "Magnezit" Plant. Varyv. delo
no.51/8:256-264 '63. (MIRA 16:6)

1. Chelyabinskiy nauchno-issledovatel'skiy inatitut gornogo
dela.

(Boring machinery) (Blasting)

"Organic moderated nuclear power plant."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva
31 Aug-9 Sep 64.

BOBINSKIY, A.M.; ZVONOV, N.V.; LAVROVSKIY, K.P.; TITOV, V.B.

Radiation thermal conversions of petroleum fractions.
Neftekhimia 1 no.3:370-381 My-Je '61. (MIRA 16:11)

2. USSR (600)

4. Putty

7. More about putty. Sel'.stroi. 2 no. 5, 1947.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

ZVONOV, V.

Freight transportation on pallets. Rech. transp. 22 no.6:13 Je 1963.
(MIRA 16:9)

1. Starshiy inzh.-tekhnolog Khabarevskogo porta.
(Unitized cargo systems)

Transportation of packaged railroad ties. *Hoch.transp.* 20 no.4:
45-46 Ap '61. (MIRA 14:5)

1. Starshiy inzhener-tekhnolog Khabarovskogo porta.
(Railroads--Ties) (Lumber--Transportation)

ACC NR: AT6013432 (N, A) SOURCE CODE: UR/0000/65/000/000/0003/0010

15
B+1

AUTHOR: Zvonov, V. A.

ORG: Kharkov Aviation Institute (Khar'kovskiy aviatsionnyy institut)

TITLE: More accurate calculation of gas exchange in four-cycle engines 23

SOURCE: Dvigateli vnutrennego sgoraniya (Internal combustion engines), no. 1. Kharkov, Izd-vo Khar'k. univ., 1965, 3-10

TOPIC TAGS: engine performance characteristic, internal combustion engine, engine adjustment / ChN24/27 internal combustion engine

ABSTRACT: Some simplified methods for calculating the accurate equations of gas exchange proposed by Professor N. M. Glagolev (Raschet rabochego protsessa dvigateley vnutrennego sgoraniya. Uchebnoye posobiye, KhPI imen. Lenina, 1958) are discussed. These do not reduce the accuracy of the equations but facilitate the actual calculations. Two major processes are discussed: gas exchange during valve overlapping and filling process. After restating the general equations of volumetric balance derived by Glagolov (see reference above), it is suggested that the pressure equation

$$dp = [x_1 z_1 - x_0 p \sqrt{T} z_0 - x_0 p] da$$

be numerically integrated using Euler's first method. The use of other appropriate parameters in the equation is discussed, and the procedure is demonstrated by sample curves for engine ChN24/27. A simplified method for calculating the fresh charge is

ACC NRI AT6013432

introduced and it is shown that this method decreases the accuracy by only $\approx 1\%$ for normal engine parameters. Orig. art. has: 22 formulas and 5 figures.

SUB CODE: 21/ SUBM DATE: 20Apr65/ ORIG REF: 004

Card 2/2 MLP.

TEPLOVOZ, V.A., inzh.

Effect of the blow-out of the combustion of a four-cycle engine
with gas turbine injection on the gas parameters in the exhaust
collector. Teplovoz.i sud.dvig. no.3:44-57 '62. (MIRA 16:2)
(Gas and oil engines)

KRUSHEDOL'SKIY, G.I., kand.tekhn.nauk; ZVONOV, V.A., inzh.

Effect of the blowout of a combustion chamber on the temperature of the components of the D70 engine. Izv. vys. ucheb. zav.; energ. 5 no.10:80-85 0 '82. (MIRA 15:11)

1. Khar'kovskiy politekhnicheskii institut imeni V.I. Lenina. Predstavlena kafedroy dvigateley vnutrennego sgoraniya.

(Diesel engines)

ZVONOV APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720001-8
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720001-8

Tables, formulas, and instructions for computing the Gauss-Kruger coordinates for latitudes from 35 degrees - 70 degrees. Moskva, 1930. 79 p. (50-41539)

QB321.Z8

ZVONKOV, V.V., ~~otv. red.~~; ZHELEZNYAKOV, G.V., doktor tekhn. nauk, red.;
YUFIN, A.P., doktor tekhn. nauk, red.; CERNOSKUTOV, K.A., red.;
DOBYSHEV, Yu.G., red. izd-va; DOROKHINA, I.N., tekhn. red.

[New methods for measurements and instruments for hydraulic surveys]
Novye metody izmereni i pribory dlia gidravlicheskikh issledovani.
Moskva, 1961. 287 p.
(MIRA 14:11)

1. Akademiya nauk SSSR. Sovet po problemam vodnogo khozyaystva.
2. Moskovskiy institut inzhnerov vodnogo khozyaystva im V.R.Vil'yamsa
(for Zheleznyakov).
(Hydrodynamics) (Measuring instruments)

1. APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720001-8
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720001-8

2. USSR (600)

4. Construction Industry

7. Thorough improvement in the economics of capital construction. Ryb. khoz. 29,
no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

ZVONTSOV, A.A., inventor.

The wear of suction dredges during the filling of the Mingeaur
dam. Gidr.stroi 23 no.8:9-11 '54. (MIRA 8:1)
(Mingeaur Hydroelectric Power Station) (Dredging machinery)

ZVOMTSOV, A.A., inzhener

Using hydraulic equipment for the recovery of inert materials
in the area of the Mingechar Hydroelectric Power Station. Gidr.
stroi.24 no.6:6-9 '55. (MIRA 8:12)
(Mingechar Hydroelectric Power Station) (Dredging)

ZVONTSOV, A.A., Eng.

Dams

"Building the upstream dike of an earthdam." Gidr. stroi. 21 no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October ¹⁹⁵² ~~1953~~, Unclassified.

KAPLAN, S.Z.; ZYONTSOVA, A.S.

Derivatives of morpholine. Part 1: Interaction of morpholine
with 1,1,1-tris-(chloromethyl) propane and with pentaerythritol
trichlorohydrin. Zhur.ob.khim. 31 no.7:2239-2241 J1 '61.
(MIRA 14:7)

(Morpholine)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720001-8
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720001-8"

KAPLAN, S.Z.; GALASHINA, A.P.; ZVONTSOVA, A.S.

Effect of the naphthenes of metals on the heat-oxidizing
stability of thickened lubricants. Khim. i tekhn. topl.
i masel 9 no.7:54-59 J1 '64. (MIRA 17:12)

ZVONITSKIY, Aleksandr Yulianovich, inzh.; VERZHBINSKAYA, I.I., inzh., red.;

~~GVRTS, V.B., tekhn.red.~~

[Multiple machining of parts on turret lathes] Opyt gruppovoi obrabotki detalei na revol'vnykh stankakh. Leningrad, 1959. 23 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriya: Mekhanicheskaya obrabotka metallov, vyp.10). (MIRA 13:3)

(Turning)

SOV/6100

PHASE I BOOK EXPLOITATION

Akademiya nauk SSSR. Institut tochnoy mekhaniki i vychislitel'noy tekhniki.

Trudy (Academy of Sciences of the USSR, Institute of Precision Mechanics and Computer Technology. Transactions) no. 2. Moscow, 1961. 447 p. 1000 copies printed. Contributors not mentioned.

PURPOSE: This collection of articles is intended for scientific and technical personnel concerned with machine translation and computer technology.

COVERAGE: This collection of articles of the Institute of Precision Mechanics and Computer Technology, Academy of Sciences USSR, is the second in a series concerned with machine translation and mathematical linguistics. The collection contains reports written by members of the Machine-Translation Group of the Institute as well as reports by researchers from other organizations. The articles deal with various problems in machine translation, such as the possibility of an intermediate language, relationships between various languages, systems of recording, structure of

SOV/6100

Academy of Sciences (Cont.)

algorithms, methods of independent analysis of a number of languages (Chinese, German, English, Russian, Rumanian, Swedish, Tartar, etc.), independent synthesis of the Russian language, some problems of binary Japanese-Russian and Chinese-Russian translation, theoretical translation problems, and problems associated with automatic recognition of speech elements and the introduction of written texts. No personalities are mentioned. There are 11 references: 2 Soviet and 9 English.

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| 2. Belokrinskaya, S. S., G. A. Volchek, M. B. Yefimov, A. A. Zvonov, T. M. Nikolayeva, and G. A. Tarasova. One of the Possible Approaches to the Building-Up of a Vocabulary for an Intermediate Language | 5 |
| 3. Zholkovskiy, A. K., N. N. Leont'yeva, and Yu. S. Martem'yanov. On the Fundamental Use of Meaning in Machine Translation. | 17 |

Card 2/6

SOV/6100

Academy of Sciences (Cont.)

- | | |
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| [19. Missing] | |
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| 22. Yefimov, M. B. Basic Characteristics of a Japanese-Russian Dictionary for Machine Translation | 338 |
| 23. Zvonov, A. A. Analysis of "Frame Constructions" in Binary Machine Translation From Chinese into Russian | 349 |
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Card 5/6

Academy of Sciences (Cont.)

80V/6100

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| 26. Ivanov, V. V. On the Acceptability of Phonological Patterns | 398 |
| 27. Yefimov, M. B., and A. A. Zvonov. Attempt at Constructing a System of Graphic Analysis of Hieroglyphic Writing | 415 |
| 28. Komandrovskiy, V. G. Problems of Constructing Reading Device | 425 |
| References | 444 |

AVAILABLE: Library of Congress

SUBJECT: Automation and Computer Engineering

Card 6/6

IS/wrc/eb
11/30/62

ZVONOV, A.A., gornyy inzh.

Blasting practices in the open-pit mines of Korkinugol' Trust.
Ugol' 36 no.9:22-24 S '61. (MIRA 14:9)

1. Chelyabinskiy nauchno-issledovatel'skiy institut gornogo dela.
(Chelyabinsk Basin--Strip mining)
(Blasting)

ZVONOV, N.V.; ALEKSENKO, Yu.N.; STROGONOV, V.A.; MESHCHERYAKOV,
M.N.; BUYNITSKAYA, V.I.; YAROSLAVTSEV, B.Ye.

[Critical tests of an organic moderator - monoiso-
propylbiphenyl] Kriticheskie opyty s organicheskim za-
medlitem-monoizopropildifenilom. Moskva, In-t atom-
noi energii AN SSSR, 1960. 42 p. (MIRA 16:12)
(Nuclear reactors--Materials) (Biphenyl)

39631

S/195/62/003/004/001/002
E075/E436

11600

AUTHORS: Zhabrova, G.M., Kadenatsi, B.M., Zvonov, N.V.,
Yegorov, Ye.V., Azizov, T.S., Batalov, A.A.,
Gordeyeva, V.A., Glazunov, P.Ya.

TITLE: Preparation of finely divided metals and oxides by
radiation

PERIODICAL: Kinetika i kataliz, v.3, no.4, 1962, 610-613

TEXT: A possibility was investigated of preparing metals and
oxides in a finely divided form by irradiation of $Zr(OH)_4$,
 $Al(OH)_3$, $Fe(OH)_3$, Ni and Cu oxalates and basic copper carbonate
with accelerated electrons having the energy of 0.8 Mev. The
temperature of the samples during irradiation (1 to 2 g) did not
exceed 40 to 50°C. Thermal decomposition at 400 to 500°C was
also carried out for comparison with the irradiated materials.
The decomposition of all the compounds commenced at radiation
doses exceeding 10^8 rads and was intense at 10^9 to 10^{10} rads.
At the latter doses the compounds were almost completely
Card 1/3

S/195/62/003/004/001/002
E075/E436

Preparation of finely ...

decomposed. It was shown that the specific surface of the metals and oxides prepared by the irradiation method exceeds in most cases that of the samples prepared by the usual high-temperature pyrolysis. An especially marked advantage was noticed for the radiolysis of Cu and Ni oxalates. The surface area of the oxalate decomposition products consisting predominantly of metals was sometimes 10 or more times that of the decomposition products obtained by vacuum pyrolysis. Radiolysis of $Zr(OH)_4$ and $Fe(OH)_3$ gives dispersed oxides having considerable surface areas. $Al(OH)_3$ is an exception, Al_2O_3 produced by the radiolysis having a similar surface area to that of Al_2O_3 obtained by pyrolysis. The metals and oxides prepared by radiolysis may find application as low temperature catalysts and adsorbents. There are 2 figures and 2 tables. 4

ASSOCIATIONS: Institut khimicheskoy fiziki AN SSSR
(Institute of Chemical Physics AS USSR)
Institut atomnoy energii im. I.V.Kurchatova AN SSSR
(Institute of Atomic Energy imeni I.V. Kurchatov
AS USSR)

Card 2/3

Preparation of finely ...

S/195/62/003/004/001/002
E075/E436

Institut fizicheskoy khimii AN SSSR
(Institute of Physical Chemistry AS USSR)

SUBMITTED: March 15, 1962

Card 3/3

X

ZHARKOV, M.M.; ORESHKIN, A.N.; ZVORICHIN, V.

Industrial testing of a doubled, solid shield with a protective fore, support in hydraulic mining conditions. Trudy Inst. gor. dela Sib. otd. AN SSSR no.5:3-16 '64.

(MIRA 17:11)

ZVORYGIN Ye.K.
MOHICH, V.K.; ZVORYGIN, Ye.K.

Petrography of middle Hercynian intrusions in the Kounrad region.
Izv. AN Kazakh. SSR. Ser. geol. no.4:30-48 '57.
(Tokrau Valley--Rocks, Igneous)

(MIRA 11:3)

MONICH, V.K.; ZVORYGINA, Ye.K.; MELIKHOV, V.D.

Alkali feldspars from granites of the Eastern Kounrad and Bektauata
massifs. Izv. AN Kazakh. SSR. Ser.geol. no.3:58-69 62.
(MIRA 15:7)

(Kounrad region--Feldspar) (Kounrad region--Granite)

ZVORYKIN, A.

On the paths to communist labor. Vop.ekon. no.7:16-28 JI '62.
(Labor and laboring classes—Education) (Automation) (MIRA 15:7)

L 45078-66

SOURCE CODE: UR/0106/66/000/008/0055/0058

ACC NR: AP6029845

AUTHOR: Zvorygin, F. V.

33
B

ORG: none

TITLE: Telegraph broken signal regenerator designed with pulse elements

SOURCE: Elektrosvyaz', no. 8, 1966, 55-58

TOPIC TAGS: telegraph signal, telegraph equipment, signal noise separation

ABSTRACT: Known methods of pre- and post-detector filtering of a telegraph signal have secured regeneration of signals distorted up to 40% and broken up to one-half the duration of the elementary train. These methods require complicated and expensive equipment. A new signal regenerator is proposed in which the signal is evaluated on the basis of its mean value during the elementary train and which uses standard pulse devices. The regenerator can handle the breaks in radiotelegraph signal trains that lie within certain ratio of the total duration of distortions to the total duration of the elementary train. Regenerable trains are selected by means of measuring the duration of intact sections of the signals. The new method was experimentally verified with 16-element code combinations artificially distorted by statistically (near-Poisson) distributed 10-msec impulses; 10000 transmission-receptions were performed for each value of the mean noise frequency.

Orig. art. has: 5 figures, 5 formulas, and 1 table.

SUB CODE: 17, 09/ SUBM DATE: 01Apr65/ ORIG REF: 002/ ATD PRESS: 5081

[03]

Card 1/1 blg

UDC: 621.374.147.181

ZVORYGINA, Ye.K.

New geological and petrographic data on the Kokdombakakiy Massif.
Trudy Inst. geol. nauk AN Kazakh. SSR 12:142-147 '65.
(MIRA 18:9)

ZVORYKIN, A.

Productive forces of communism. Vop. ekon. no.12:38-48 D '61.
(MIRA 14:11)

(Russia--Industries)
(Russia--Economic policy)

ZVORYKIN, A.

Labor and technological progress. Vop. ekon. no.10:29-41
0 '61. (MIRA 14:10)

(Technology) (Work)

ZVORYKIN, A.

Ocherki Po Istorii Sovetskoy Gornoy Tekhniki. (Outline of History of Soviet Mining Technology)

Moskva, IZD-VO Akademii Nauk SSSR, (1950)

539 P. Illus., diagra., ports., tables.

"Ispol'zovannaya Literatura": P. 470-533.

At head of title: Akademiya Nauk SSSR. Komissiya Po Istorii Tekhniki.

Author discusses the post-revolutionary period's importance in the development of the Bolshevik Party's and Soviet Government's organizational efforts to develop this industry in to a powerful branch of the Socialist industry.

INVENTOR: Kaplan, S. Z.; Yefimova, L. F.; Zvontsova, A. S.; Zakharova, N. A.;
Khromov-Borisov, N. V.

ORG: none

TITLE: A method for increasing the antioxidative stability of Industrial 12
petroleum lubricating oil. Class 23, No. 187914

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 79

TOPIC TAGS: lubricant, lubricating oil, petroleum lubricating oil, hydrocarbon
lubricant, lubricant additive, antioxidant additive, oxidation inhibition, morpholine,
morpholine derivative, methylmorpholine derivative, propandiol derivative,
morpholinomethyl propandiol derivative

ABSTRACT: An Author Certificate has been issued for a method of increasing the
antioxidative stability of Industrial-12 petroleum lubricating oil by introducing a
methylmorpholine derivative as an antioxidant additive. 2,2-Bis(morpholinomethyl)-1,
2-propandiol was used to widen the selection of additives. [BN]

SUB CODE: 07, 21/ SUBM DATE: 30Jun65/ ATD PRESS: 5109

KAPLAN, S.Z.; ZVONTSOVA, A.S.; RUDKOVSKIY, D.M.; KETSLAKH, M.M.

Synthesis of "etriol" triamine [1,1,1-tris (aminomethyl)-propane].
Zhur.ob.khim. 32 no.10:3197-3198 0 '62. (MIRA 15:11)
(Propane) (Triamine)

BLOK, N.I.; GLAZOVA, A.I.; LASHKO, N.F.; KURAYEVA, V.P.; MOLCHANOVA, Ye.K.;
Prinimali uchastiye: VINOGRADOVA, Ye.A.; ZVONTSOVA, Ye.V.;
POLYAKOVA, L.V.

Phase analysis of alloys on the titanium basis. Zav. lab. 27
no. 12:1470-1472 '61. (MIRA 15:1)
(Titanium alloys) (Phase rule and equilibrium)

TEODOROVICI, Gr., conf.; IVAN, A., dr.; OANA, G., dr.; ZVORISTEANU,
Virginia, dr.; HANDRACHE, Lidmila, dr.; VANOLA, Georges, dr.;
MANTA, I., dr.; CAMNER, M., dr.; URNA, Mirsille, dr.; BOSTEN,
Marie-Jeanne, dr.

Evolution of influenza among a group of school-age children in
the year 1962-1963. Microbiologia (Bucur) 9 no.6:521-529
N-D '64

1. Lucrare efectuata la Institutul medico-farmaceutic, Iasi.

ZVOR

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720001-8
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065720001-8"

V. M. Rodionov and V. K. Zvoriykina, Synthesis in the Pyrimidine row. P. 230.

SO: Bulletin of the U.S.S.R. Academy of Sciences (Chemistry Series)
Izvestia Akad. Nauk, S.S.S.R., No. 3, 1948.

B-1-3

NEUTRAL PRODUCTS OF OXIDATION OF PETROLEUM
HYDROCARBONS BY ATMOSPHERIC OXYGEN. S. b.
Nemetkin and V. K. Zverikina (J. Gen. Chem. Russ.,
1934, 4, 806--814).--7.7% of the alcohol-aldehyde
fraction of the products of oxidation of paraffin by
atm. O₂ consists of aldehydes of b.p. >100%, amongst
which n-C₅-H₁₁-CHO were identified. The alcohols
n-C₅-H₁₃-OH were identified in the residue after
separation of aldehydes. R. T.

COMBUSTION

COMBUSTION

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

GROUP	CLASS	SECTION	SUBSECTION	DETAILS	REMARKS

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720001-8
CIA-RDP86-00513R002065720001-8"

ZVORNAREV, I.N.

Geological formations. Trudy Geol.-geol.inst.zap.Sib.fil.AN
SSSR no.17:9-31 '56. (MIRA 13:5)
(Geology)

137-58-4-7149

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 120 (USSR)

AUTHORS: Zvorono, B. P., Petrova, Ye. N., Polilov, N. A., Vayner, Ye. L., Samsonenko, G. T.

TITLE: Designs of Medical Instruments Suitable for Production by Cold Extrusion (Konstruirovaniye meditsinskikh instrumentov, dopuskayushchikh kholodnoye pressovaniye)

PERIODICAL: Materialy po obmenu opytom i nauchn. dostizh. v med. prom-sti, 1957, Nr 4 (23), pp 90-106

ABSTRACT: The manufacture of medical instruments from blanks in the form of bodies of revolution produced by cold reducing, cross-rolling, or machined by template on a lathe is performed on ordinary presses using open plates, with reduction by 50-60 percent in a single operation in the cold condition under unit pressures of 12-15 t/cm², offering the following advantages: replacement of the laborious operations of hand roughing and filing by machine operation, production of a high degree of surface finish without burrs or having no more than a thin flash, saving of metal, employment of universal equipment, use of simple and cheap dies, repair of which may be done on a flat grinder. When high degrees

Card 1/2

137-58-4-7149

Designs of Medical Instruments Suitable for Production by Cold Extrusion

of reduction are required, the pressing is done in a number of passes, with high-temperature annealing performed between passes. Methods of calculating the initial blank and of designing the non-operating elements of the instrument, also examples of typical products manufactured in this manner, are presented.

1. Medical instruments--Production 2. Metals--Extrusion--Applications Ye. L.

L'VOV, Dmitriy Sergeevich; ROZHDESTVENSKIY, Yuriy L'vovich; ABRAMOV,
Aleksandr Vasil'yevich; LITVAK, Lev Kosilevich; ZVORONO, B. B.,
Kand. tekhn. nauk, retsenzent; MEZHOVA, V. A., inzh., red.;
GERASIMOVA, Ye. S., tekhn. red.

[Stamping out ring-shaped parts] Shtampovka kol'tsevykh zagotovok.
Moskva, Gos. nauchno-tekhn. isd-vo mashinostroit. lit-ry. 1958.
182 p. (MIRA 11:8)

(Sheet-metal work)

ZVORONO, B. P.

"Handbook on die stamping" by V. P. Romanovskii. Reviewed by
B. P. Zvorono. Kuz.-shtam. proizvod. 2 no. 7:46-47 JI '60.

(MIRA 13:8)

(Sheet-metal work)
(Romanovskii, V. P.)

~~ZVORONO, B.P., kand. tekhn. nauk, doct.~~

Cold pressing of shaped parts in open dies. Vest. mash. 38 no.4:
36-40 Ap '58. (MIRA 11:3)

(Dies (Metalworking))

ZVORONO B.P.

Dimensional accuracy of forgings during free plane sizing on
crank presses. Kuz.-shtam.proizv. 5 no.411-6 Ap '63.
(MIRA 16:4)

(Forging)

(Power presses)

ZVORONO, B.P., kandidat tekhnicheskikh nauk, dotsent.

New method of manufacturing cold pressed steel medical instruments.
[Izd.] LONITOMASH vol.40:114-127 '56. (MLRA 10:4)
(SHEET METAL WORK) (MEDICAL INSTRUMENTS AND APPARATUS)

Raschet i konstruirovaniye shtampov dlia kholodnoi shtampovki. Moskva,
Mashgiz, 1949. illus.

Bibliography: v. 1, p. 194-(195).

Contents. - ch. 1. Vyreznye i probivnye shtampy.

(Calculations and designing of dies for cold stamping. v. 1.
Dinking and punching dies.)

DLC: TS253.Z9

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

FEDURKIN, V.V.; NESTERENKO, A.T.; KOVSHAROVA, L.A.; RAZUMOVSKAYA, Ye.I.;
OSIPOVA, Ye.V.; VASIL'YEVA, G.S.; PEKARSKIY, M.D., *otv.red.*;
ZVORONO, B.P., *zamestitel' otv.red.*; BOLDYREV, B.V., *red.*; VOLODIN,
Ye.A., *red.*; DANIL'CHENKO, Ye.P., *red.*; ORSKIY, I.N., *red.*; MISHIN,
L.N., *red.*; FREYDIN, G.S., *red.*; TSEPELEV, Yu.A., *red.*

[Technological instruction material; aluminum and aluminum alloys
for medical articles] Rukovodiashchie tekhnicheskie materialy;
aliuminii i aliuminievye splavy dlia meditsinskih izdelii. Moskva,
M-vo zdavookhraneniia, 1959. 70 p. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumentariya i oborudovaniya.

(MEDICAL INSTRUMENTS AND APPARATUS)

(ALUMINUM)

KUKHTAROV, Vladimir Ivanovich; KUKHTAROV, Oleg Vladimirovich; TOMLENOV,
A.D., doktor tekhn.nauk, retsenzent; ZYOROMO, B.P., kand.tekhn.
nauk, red.; OSIPOVA, L.A., red.isd-va; MODEL', B.I., tekhn.red.

[Dies for cold sheet stamping] Shtampy dlia kholodnoi listovoi
shtampovki. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.
lit-ry, 1960. 320 p. (MIRA 13:5)
(Dies (Metalworking)) (Sheet-metal work)

B. P. Avramov. Factory Laboratory (U.S.S.R.), v. 10, No. 10, 1957, p. 673-682. (In Russian.)

The possibility of testing thin sheet metal by measurement of the energy required for punching holes and other operations on the sheet. Two instruments designed to measure this energy--the first, by deformation of a heavy spring or rubber, the second by comparison of the diameters of the impressions made by a ball on the sheet tested and on a standard specimen. 11 ref.

Immediate Source Clipping

ZVORONO, B. P. APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720001-8
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720001-8"

The design and construction of dies for cold die stamping. Moskva, Gos.
nauch.-tekhn. izd-vo mashino-stroit. lit-ry, 1949 (50-15779)

TS253.29

USSR/ Miscellaneous - book review

Card 111 Sub. 123 - 1.28

Authors : Imat'ev, A. I., Eng.; Kart, F. I., Cand. of Tech. Sci.; Lurshak, V. I.,
Cand. of Tech. Sci.; and Lyubov, S. P., Cand. of Tech. Sci.

Title : Review of books

Periodical : Vest. mash. 35.6, 86 - 90, Jun 1955

Abstract : An extensive review is given of Ya. M. Pavlov's book, "Machine Components,"
published in "Mashziz" 1954; a book, "Planning of Mechanism Chains for a
Machine," published in "Mashziz" 1954; and a book, "Planning of Mechanism
Chains for a Machine," published in "Mashziz" 1954.

Indexing:

Submitted :

Agricultural Machinery - Trade and Manufacture

Use of rolled iron from Bessemer steel in the manufacture of farm machinery. Sel'khoz mashina, No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

25(1)

PHASE I BOOK EXPLOITATION

Gubkin, Sergey Ivanovich (Deceased), Mikhail Vasil'yevich Storozhev, Boris Pavlovich Zvorono, Vasilii Fedorovich Katkov, Ilariy Anatol'yevich Noritsyn, Yevgeniy Aleksandrovich Popov, Georgiy Aleksandrovich Gmirnov-Alyayev, Aleksandr Dmitriyevich Tomlénov, Yevgeniy Pavlovich Unksov, and Leopold Adol'fovich Shofman

Osnovy teorii obrabotki metallov davleniyem (Fundamentals of the Theory of Metal Forming) Moscow, Mashgiz, 1959. 538 p. Errata slip inserted. 7,500 copies printed.

Ed.: M. V. Storozhev; Ed. of Publishing House: A. I. Sirotin, Engineer; Tech. Ed.: B. I. Model'; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): S. Ya. Golovin, Engineer.

~~CLASS.~~
PURPOSE: This book is intended for engineers and scientific workers studying the theoretical problems of metal forming.

COVERAGE: This collective work purportedly reflects the contemporary trends in the development of the metal-forming theory. Emphasis is given to methods of calculating forces and deformations.

Card 1/11

BOGOMOLN, B.V., laureat Stalinskoy premii; **ZVORONO, A.D.**, kandidat
tekhnicheskikh nauk, retsenzent; **TOMLENOV, A.D.**, kandidat
tekhnicheskikh nauk, redaktor; **MATVYEVA, Ye.N.**, tekhnicheskii
redaktor; **TIKHONOV, A.Ya.**, tekhnicheskii redaktor.

[Dies for automobile body parts] Shtampy dlia oblitsevochnykh
detalei avtomobilei. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1951. 217 p. (MIRA 8:1)

(Automobiles--Design and construction)
(Dies (Metal-working))

Agricultural Machinery - Trade and Manufacture

Use of rolled iron from Bessemer steel in the manufacture of farm machinery. Sel'khoz mashina
No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1957, Uncl.

GUBKIN, Sergey Ivanovich [deceased]; ZVORONO, Boris Pavlovich; KATKOV,
Vasily Fedorovich; NORITSYN, Ilyar' Anatol'yevich; POPOV,
Yevgeniy Aleksandrovich; SMIRNOV-ALYAYEV, Georgiy Aleksandrovich;
TOMLENOV, Aleksandr Dmitriyevich; UNKSOV, Yevgeniy Pavlovich;
SHOFMAN, Leopol'd Adol'fovich; SPOROZHEV, Mikhail Vasil'yevich,
red.; MODEL', B.I., tekhn.red.

[Basic theories in the pressworking of metals] Osnovy teorii
obrabotki metallov davleniem. Pod red. M.V.Storozheva. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 528 p.

(MIRA 12:9)

(Sheet-metal work) (Deep drawing (Metalwork))

ZVORONO, Ya., inzh.

New "skills" of the magnetic field. Znan. sila 36 no. 5:43 My '61.

(MIRA 14:5)

(Electromagnetism)

BOLDINA, Ye.A., inzh.; ZVORONO, Ya.P., inzh.; PESOTSKIY, A.A., inzh.;
SIMO, I.N., inzh.; SOROKINA, A.P., inzh.

Electromagnetic mixing system in an 80-ton electric-arc furnace.
Vest.elektroprom. 33 no.4:43-49 Ap '62. (MIRA 15:4)
(Electric furnaces)

GRISHIN, V.Ya.; ZVORONO, Ya.P.; KAPLAN, M.Ya.

Electrical equipment for an electromagnetic stirring of molten
steel. Elektrosila no.22:18-22 '63. (MIRA 17:1)

ZVORONO, Ya.P.

Electromagnetic mixers of liquid steel used in electric arc
furnaces. Biul.tekh.-ekon.inform. no.10:12-14 '58.

(MIRA 11:12)

(Electric furnaces) (Steel--Metallurgy)

Test of a heat pump air conditioning unit in a movie theater. Khol.
tekh. 37 no.5:18-22 S-0 '60. (MIRA 13:10)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promysh-
lennosti.

(Theaters--Air conditioning)

ROZENFEL'D, L.M., prof.; ZVORONO, Yu.S., inzh.; ONOSOVSKIY, V.V., inzh.

Dynamic heating and cooling by using the heat of discarded water.
Gidr.stroi. 33 no.10:26-31 0 '62. (MIRA 15:12)
(Waste heat) (Heating from central stations)

ZVORONO, Ya.P., inzh.

Calculation of the magnetic field of the stator of an electro-
magnetic liquid metal mixer. Elektrotehnika 35 no.10:58-61
0 '64. (MIRA 17:11)

ROZENFEL'D, L.M., prof.; ZVOIIONQ, Yu.S., inzh.; ONOSOVSKIY, V.V., inzh.

Application of a freon refrigerating machine for cooling and
dynamic heating. Teploenergetika 8 no,6:12-16 Je '61.

(MIRA 14:10)

(Refrigeration and refrigerating) (Thermodynamics)

Q

9-125. Utilization of Stamping Service for Experiments With Sheet Metal. B. P. Pyoruno. *Factory Laboratory (U.S.S.R.)*, v. 13, July 1947, p. 879-882. (In Russian.)

The possibility of testing thin sheet metal by measurement of the energy required for punching holes and other operations on the sheet. Two instruments designed to measure this energy—the first, by deformation of a heavy spring or rubber, the second by comparison of the diameters of the impressions made by a ball on the sheet tested and on a standard specimen 11 ref.

COMMON ELEMENTS

OPEN

MATERIALS MORE

COMMON VARIABLES MORE

ATC-55A METALLURGICAL LITERATURE CLASSIFICATION

6-27-55-1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

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ZVOROV, I.

SCIENCE

PERIODICALS: ~~ASTA ZOOLOGICA. Vol. 3, No. 4, 1955~~
MAGYAR FIZIKAI FOLYOIRAT. Vol. 3, no. 4, 1955.

Zvorov, I. Elastic scattering of protons on 660-Mev energy protons. Tr. From
the Russian. p. 423.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

ZVORSKIY, V. (Rostov-na-Donu)

In defense of cameras with wide film. Sov.foto 17 no.6:21 Je '57.
(MLRA 10:8)

(Cameras)

ca

The neutral products of oxidation of petroleum hydrocarbons by atmospheric oxygen. S. S. Nametkin and V. K. Zyrskina. *J. Gen. Chem. (U. S. S. R.)* 4, 900-14 (1934).—The oxidation of paraffin from petroleum by atm. O₂ gives, in addn. to monobasic acids and hydroxy acids, more volatile products which escape with the gases and consist of unchanged hydrocarbons, lower-boiling fatty acids and neutral substances. Condensation of this mist, followed by removal of the acids with Na₂CO₃ of this mist or weakly acid oil, the aldehyde-alc. gave a neutral or weakly acid oil, the aldehyde-alc. fraction (I). I, washed with Na₂CO₃ and dil. NaOH and treated with concd. NaHSO₃, gave a cryst. mass which was sepd. from unchanged oil and dissolved in water. The aq. soln. was extd. with Et₂O, decompd. with Na₂CO₃, the aldehyde layer distd. in steam, collected, dried and fractionated, giving 7.7% of mixed aldehydes (123 g. from 1000 g. I). The boiling range indicated that C₁₁H₂₂CHO to C₁₇H₃₄CHO were present. Individual aldehydes were not isolated, but an α-alkylcinnamaldehyde was prepd. from one fraction, by condensation with BzH, which closely resembled that formed from esanthaldehyde.

22
The residue from the NaHSO₃ ppt. was boiled 6 hrs. with NaOH soln. Distn. of the washed oil gave a 12.3% yield of alcs. based on I. A petroleum fraction gave only 0.0% of aldehydes and 1% of alcs. The crude alcs. were purified by esterification with H₂BO₃ and C₁₂H₂₂ with subsequent hydrolysis of the borates. Distn. gave fractions whose consts. corresponded roughly to each of the normal alcs. from C₁₁H₂₂OH to C₁₇H₃₄OH. The alcs. were further characterized by oxidation to the corresponding acids and prepn. from these of the Ag salts and the amides. Aldehydes and alcs. may have been formed from said.

hydrocarbons by a process of oxidative cracking.
Louis W. Bue.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ALPHABETIC INDEX	NUMERICAL INDEX	CLASSIFICATION	ALPHABETIC INDEX	NUMERICAL INDEX	CLASSIFICATION
A	1		A	1	
B	2		B	2	
C	3		C	3	
D	4		D	4	
E	5		E	5	
F	6		F	6	
G	7		G	7	
H	8		H	8	
I	9		I	9	
J	10		J	10	
K	11		K	11	
L	12		L	12	
M	13		M	13	
N	14		N	14	
O	15		O	15	
P	16		P	16	
Q	17		Q	17	
R	18		R	18	
S	19		S	19	
T	20		T	20	
U	21		U	21	
V	22		V	22	
W	23		W	23	
X	24		X	24	
Y	25		Y	25	
Z	26		Z	26	

ZVORYGIN, F.V.; TOMASHOV, V.M.; KHOKHEL', O.A.

Generator of random voltages of subsonic frequencies with
any distribution law and a controlled spectrum. Avtom. i
prib. no.4:74-78 O-D '63. (MIRA 16:12)

1. Institut kibernetiki AN UkrSSR.

RYKOV, I.A., kand.tekhn.nauk; KUZ'MIN, Yu.G.; ZVORYGIN, L.V.

Shield system for mining extra-thick steeply dipping seams. Ugol'
37 no.7:16-19 J1 '62. (MIRA 15:7)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR.
(Coal mines and mining)

Shield method for mining steeply dipping, 1.5 to 2.5 meter thick coal seams in the Prokop'ev-Kiselevsk District of the Kuznetsk Basin. Ugol' 36 no.9:17-18 S '61. (MIRA 14:9)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR.
(Kuznetsk Basin--Coal mines and mining)

DZYUBENKO, V.T., kand. tekhn. nauk; ZVORYGIN, I.V.; PIROZHKOY, G.I., kand. tekhn. nauk

Further improvement of shield support for mining thick steep seams.
Ugcl' 40 no.6:22-24 Je '65. (MIRA 18:7)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR (for Dzyubenko, Zvorygin).
2. Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta (for Pirozhkov).

ISAKOV, I.V.; ZVONKOVA, Z.V.

Crystalline structure of p-aniline thiocyanate. Kristallografiia
10 no.2:194-198 Mr-Apr '65. (MIRA 18:7)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

TERENT'YEV, A.P.; VOZZHENNIKOV, V.M.; KOININOV, C.V.; ZVONKOVA, Z.V.;
RUKHADZE, Ye.G.; GLUSHKOVA, V.P.; BEREZKIN, V.V.

Semiconducting and optical properties of the dithiocarbamates of
copper, nickel, zinc, and cadmium. Dokl. AN SSSR 160 no.2:405-
408 Ja '65. (MIRA 18:2)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova i Moskovskiy
gosudarstvennyy universitet. 2. Chlen-korrespondent AN SSSR
(for Terent'yev).

ZVONKOVA, Z. V.; KRIVNOV, V. Ya.; KHVATKINA, A. N.

New determination of the atomic and electronic structure of
dicyandiamide. Dokl. AN SSSR 155 no. 2: 98-101 Mr '64.
(MIRA 17:5)

1. Fiziko-khimicheskiy institut im. L. Ya. Karpova.
Predstavleno akademikom S. S. Medvedevym.

VORONTSOVA, L.G.; ZVONKOVA, Z.V. ; ZHDANOV, G.S.

Model of the structure of 3,3'-diethylthiocarbocyanine
chloride as determined by the statistical method. Kris-
tallografiia 8 no.3:374-377 My-Je '63. (MIRA 16:11)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

DOROSINSKIY, A.L.; KOLNINOV, O.V.; ZVONKOVA, Z.V.; ZHDANOV, G.S.

X-ray and spectral studies of the complex compounds of cuprous
thiocyanate with thiourea and pyridine. Dokl. AN SSSR 150
no.6:1278-1279 Je '63. (MIRA 16:8)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. Predstavleno
akademikom S.S. Medvedevym.

(Copper compounds--Spectra) (Thiocyanates) (Urea)

S/076/62/036/010/001/005
B101/B186

AUTHORS: Kolninov, O. V., and ~~Zvonkova, Z. V.~~

TITLE: Study of the dependence of the electron absorption spectra of phenyl derivatives of elements of groups IV and V on the nuclear potentials of the elements

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 10, 1962, 2228-2230

TEXT: The effects of the nuclear potential Z^*/r and difference $\Delta \chi$ in electronegativity of atoms in the element - carbon bond of isomorphous tetraphenyl compounds of C, Si, Ge, Sn, and Pb were studied. The electron absorption spectra in the region 225 - 320 μ were determined in crystalline lamellas $\sim 5\mu$ thick. Except for $(C_6H_5)_4Pb$, all spectra were of the same type and showed two absorption bands, the first of which occurred at 250 - 280 μ owing to electron transition in the phenyl radicals from the ground state into the excited state. This band shows fine structure bands which, compared to the benzene spectrum, are shifted some μ . A noticeable shift of bands depending on the type of the

Card 1/3

S/076/62/036/010/001/005
B101/B186

Study of the dependence of the electron ...

central atom, however, does not occur. Conclusion: In tetraphenyl compounds of C, Si, Ge, Sn, and Pb, π -electron conjugation of the phenyl radicals with the central atom is almost completely absent, and the π -electron system of the benzene rings remains almost unchanged. In the second band ($\lambda \approx 250 \text{ m}\mu$) of $(\text{C}_6\text{H}_5)_4\text{Ge}$, the absorption edge, as compared to that of $(\text{C}_6\text{H}_5)_4\text{Si}$ and $(\text{C}_6\text{H}_5)_4\text{Sn}$, shows a shift of some $\text{m}\mu$ towards the short wave region. In accordance with H. H. Jaffe (J. Chem. Phys., 22, 1430, 1954), this effect is assumed to be caused by the central atom. The origin of the second band, however, has not been investigated sufficiently. On the basis of data obtained by Jaffe for the electron spectra of triphenyl compounds of P, As, and Sb, the phenyl radicals are assumed to conjugate owing to the free electron pairs of the central atom. Thus the shift of the first band probably depends on the type of central atom; from this shift, the change in excitation energy of π -electrons is estimated to be of the order of 0.1 eV depending on Z^2/r of P, As, and Sb. Further studies are required to explain the relation between the mobility of holes in InP, InAs, and InSb (650, 200, and $700 \text{ cm}^2/\text{v}\cdot\text{sec}$, respectively) and the ligand. There are 6 figures.

Card 2/3

Study of the dependence of the electron ... 8/076/62/036/010/001/005
B101/B186

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova
(Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED: December 2, 1961

Card 3/3

43821

S/O20/62/147/005/019/032
B106/B186

15.8540

AUTHORS:

Terent'yev, A. P., Corresponding Member AS USSR, Rukhadze, Ye. G., Vozzhennikov, V. M., Zvonkova, Z. V., Oboladze, N. S., Mochalina, I. G.

TITLE:

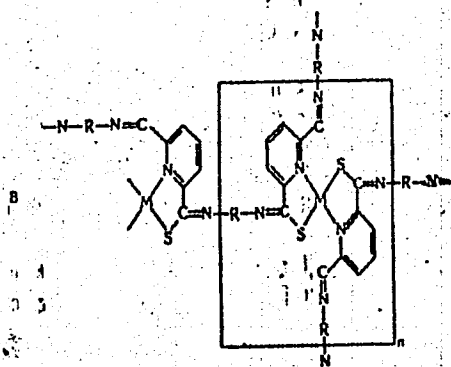
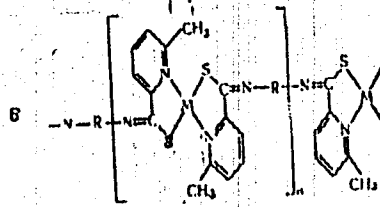
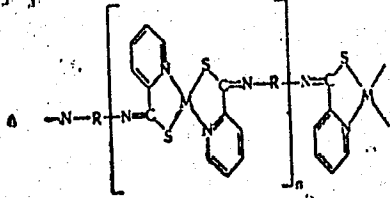
Electrical conductivity and activation energy of chelate compounds of the dithiocarbamates and thioamides of pyridine derivatives ✓

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 5, 1962, 1094-1097

TEXT: The temperature dependence of the electrical conductivity of chelate polymers of the following structures A, B, and C has been determined:

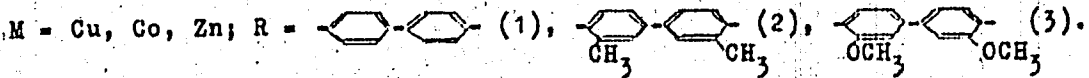
S/020/62/147/005/019/032
B106/B186

Electrical conductivity and...

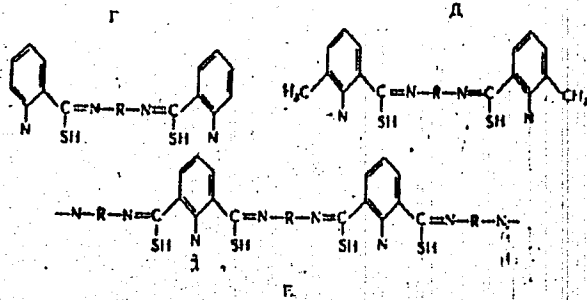


Electrical conductivity and...

8/020/62/147/005/019/032
B106/B186

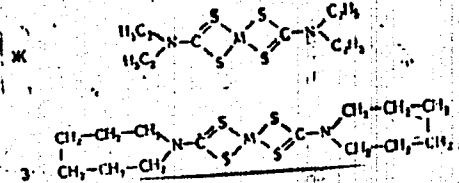


For comparison, the compounds Γ , Δ , and the polymer E (initial products in the synthesis of the above chelate polymers), and the compounds \mathcal{K} and 3 (M = Cu, Co, Zn) (monomers of polychelates investigated earlier (Ref. 2; V. M. Vozzhennikov et al, DAN, 143, 5 (1962)) have been studied analogously:



Electrical conductivity and...

S/020/62/147/005/019/032
B106/B186



(A)

+

Since the compounds investigated are insulators at room temperature, the values of the electrical conductivity have been determined between 330 and 600°K. The values of the activation energy E have been calculated from the temperature dependence of σ (ascent of the straight line in diagrams ($\log \sigma, 1/T$)). Table 1 shows the results. In agreement with the data of Ref. 2, the electrical conductivity depends considerably on the nature of the metal ($Zn < Cu > Ni > Co$). The stability of the complex compounds and the electron affinity of the metals M change in the same order. The fact that the nature of the radicals bound to nitrogen atoms in the compounds X and 3 has practically no effect on the values of σ and E shows that these two quantities are mainly determined by the nature of the chemical bonds and

Card 4/6

Electrical conductivity and...

S/020/62/147/005/019/032
B106/B186

not by the packing of molecules in the crystal. Activation energies between 1.2 and 1.6 ev were found for the 30 compounds with the grouping $M \cdots S=C-N<$ investigated in Ref. 2 and in the present paper. An activation energy of this order has also been found for $CuSCN$, the simplest semiconductor polymer with the grouping $S=C-N-$. There are 2 figures and 1 table.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov); Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: June 22, 1962

Card 5/6

ISAKOV, I.V.; ZVONKOVA, Z.V.

Crystalline structure of the complex formed by zinc chloride
with acetonitrile. Dokl.AN SSSR 145 no.4:801-803 Ag '62.
(MIRA 15:7)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno
akademikom V.A.Karginym.
(Zinc chloride) (Acetonitrile) (Crystallography)

Theory and practice of direct methods in the structure analysis
of crystals. Zhur.strukt.khim. 2 no.5:622-639 S-0 '61. (MIRA 14:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR,
Institut kristallografii AN SSSR i Fiziko-khimicheskiy institut
imeni L.Ya. Karpova.

(Crystallography)

VOZZHENNIKOV, V.M.; ZVONKOVA, Z.V.; RUKHADZE, Ye.G.; ZHDANOV, G.S.;
GLUSHKOVA, V.P.

Electric conductivity and activation energy of some dithioamide,
N-substituted dithiocarbamate, and thiocyanate (Cu, Co, Ni) polymers.
Dokl. AN SSSR 143 no.5:1131-1134 Ap '62. (MIRA 15:4)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno
akademikom V.A.Karginym.

(Polymers--Electric properties) (Thiocyanates)
(Organometallic compounds)

35389 Zadachi Pod'ema Konevodstva i Kachestvonnogo Uluchsheniya Pogolov'ya
Loshadey. V SE: Michurinskaya Nauka-V Praktiku Zhivotnovodstva. Novosibirsk,
1949, S. 173-87

SO: Letopis' Zhurnal'nykh Statey Vol. 34, Moskva, 1949

APPROVED FOR RELEASE: Thursday, September 26, 2002 SURVIVAL CHINA, San Ching-chih; BYKOV, A.A. [translator]; ZABIROV,

B.Sh., red.; KOSHELEVA, S.M., tekhn.red.

[Economic geography as a science] Ekonomicheskaya geografiya kak nauka. Moskva, Gos.izd-vo geogr.lit-ry, 1959. 92 p. Translated from the Chinese.

(MIRA 13:1)

(Geography, Economic)

LYONKIN, I.P. [translator]; GINGOL'D, I.S. [translator]; GRIBNNIKOVA, Ye.N., [translator]; ZANEGIN, B.N. [translator]; ZHONOV, A.A. [translator]; ISAYENKO, B.S. [translator]; KOTOV, A.V. [translator]; MAYZEROV, S.M. [translator]; SAPONOVA, Z.M. [translator]; SOVETOV, I.I. [translator]; SOROKIN, V.F. [translator]; TSVETKOVA, T.Ya. [translator]; CHZHOU, Sun-yuan' [translator]; SOGOMONYAN, G.S. [translator], redaktor; SHAPOVALOV, V.I., tekhnicheskii redaktor

[Socialist development in the Chinese village; a collection of articles prepared by the office of the Central Committee of the Chinese Communist Party] Sotsialisticheski pod'em v kitaiskoi dereven; sbornik izbrannykh statei podgotovlen kantseliariei TsK KPK. Moskva, Izd-vo inostranoi lit-ry, 1956. 502 p. (MLRA 9:10)
(China--Agriculture)

AKAYEV, I.A.; ZVONOV, A.A.; POLYAKOV, M.P.

Using blasthole charges with air gaps at the Angren open-pit coal mine. Ugol' 40 no.12:34-38 D '65. (MIRA 18:12)

1. Angrenskiy ugol'nyy kar'yer (for Akayev). 2. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut po dobyche poleznykh iskopayemykh otkrytym sposobom (for Zvonov, Polyakov).

ZVONOV, A.A., inzh.; KUZNETSOV, I.M., inzh.; POLYAKOV, M.P., inzh.

Practice of using new technology in boring and blasting
operations in pits of the "Magnezit" Plant. Varyv. delo
no.51/8:256-264 '63. (MIRA 16:6)

1. Chelyabinskiy nauchno-issledovatel'skiy inatitut gornogo
dela.

(Boring machinery) (Blasting)

"Organic moderated nuclear power plant."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva
31 Aug-9 Sep 64.

BOBINSKIY, A.M.; ZVONOV, N.V.; LAVROVSKIY, K.P.; TITOV, V.B.

Radiation thermal conversions of petroleum fractions.
Neftekhimia 1 no.3:370-381 My-Je '61. (MIRA 16:11)

2. USSR (600)

4. Putty

7. More about putty. Sel'.stroi. 2 no. 5, 1947.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

ZVONOV, V.

Freight transportation on pallets. Rech. transp. 22 no.6:13 Je 1963.
(MIRA 16:9)

1. Starshiy inzh.-tekhnolog Khabarevskogo porta.
(Unitized cargo systems)

Transportation of packaged railroad ties. *Hoch.transp.* 20 no.4:
45-46 Ap '61. (MIRA 14:5)

1. Starshiy inzhener-tekhnolog Khabarovskogo porta.
(Railroads--Ties) (Lumber--Transportation)

ACC NR: AT6013432 (N, A) SOURCE CODE: UR/0000/65/000/000/0003/0010

15
B+1

AUTHOR: Zvonov, V. A.

ORG: Kharkov Aviation Institute (Khar'kovskiy aviatsionnyy institut)

TITLE: More accurate calculation of gas exchange in four-cycle engines 23

SOURCE: Dvigateli vnutrennego sgoraniya (Internal combustion engines), no. 1. Kharkov, Izd-vo Khar'k. univ., 1965, 3-10

TOPIC TAGS: engine performance characteristic, internal combustion engine, engine adjustment / ChN24/27 internal combustion engine

ABSTRACT: Some simplified methods for calculating the accurate equations of gas exchange proposed by Professor N. M. Glagolev (Raschet rabocheho protsessa dvigateley vnutrennego sgoraniya. Uchebnoye posobiye, KhPI imen. Lenina, 1958) are discussed. These do not reduce the accuracy of the equations but facilitate the actual calculations. Two major processes are discussed: gas exchange during valve overlapping and filling process. After restating the general equations of volumetric balance derived by Glagolov (see reference above), it is suggested that the pressure equation

$$dp = [x_1 z_1 - x_0 p \sqrt{T} z_0 - x_0 p] da$$

be numerically integrated using Euler's first method. The use of other appropriate parameters in the equation is discussed, and the procedure is demonstrated by sample curves for engine ChN24/27. A simplified method for calculating the fresh charge is

ACC NRI AT6013432

introduced and it is shown that this method decreases the accuracy by only $\approx 1\%$ for normal engine parameters. Orig. art. has: 22 formulas and 5 figures.

SUB CODE: 21/ SUBM DATE: 20Apr65/ ORIG REF: 004

Card 2/2 MLP.

TEPLOVOZ, V.A., inzh.

Effect of the blow-out of the combustion of a four-cycle engine
with gas turbine injection on the gas parameters in the exhaust
collector. Teplovoz.i sud.dvig. no.3:44-57 '62. (MIRA 16:2)
(Gas and oil engines)

KRUSHEDOL'SKIY, G.I., kand.tekhn.nauk; ZVONOV, V.A., inzh.

Effect of the blowout of a combustion chamber on the temperature of the components of the D70 engine. Izv. vys. ucheb. zav.; energ. 5 no.10:80-85 0 '82. (MIRA 15:11)

1. Khar'kovskiy politekhnicheskii institut imeni V.I. Lenina. Predstavlena kafedroy dvigateley vnutrennego sgoraniya.

(Diesel engines)

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YUFIN, A.P., doktor tekhn. nauk, red.; CERNOSKUTOV, K.A., red.;
DOBYSHEV, Yu.G., red. izd-va; DOROKHINA, I.N., tekhn. red.

[New methods for measurements and instruments for hydraulic surveys]
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(for Zheleznyakov).
(Hydrodynamics) (Measuring instruments)

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2. USSR (600)

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no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

ZVONTSOV, A.A., inventor.

The wear of suction dredges during the filling of the Mingeaur
dam. Gidr.stroi 23 no.8:9-11 '54. (MIRA 8:1)
(Mingeaur Hydroelectric Power Station) (Dredging machinery)

ZVOMTSOV, A.A., inzhener

Using hydraulic equipment for the recovery of inert materials
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Derivatives of morpholine. Part 1: Interaction of morpholine
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trichlorohydrin. Zhur.ob.khim. 31 no.7:2239-2241 J1 '61.
(MIRA 14:7)

(Morpholine)

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KAPLAN, S.Z.; GALASHINA, A.P.; ZVONTSOVA, A.S.

Effect of the naphthenes of metals on the heat-oxidizing
stability of thickened lubricants. Khim. i tekhn. topl.
i masel 9 no.7:54-59 J1 '64. (MIRA 17:12)

ZVONITSKIY, Aleksandr Yulianovich, inzh.; VERZHBINSKAYA, I.I., inzh., red.;

~~GVRTS, V.B., tekhn.red.~~

[Multiple machining of parts on turret lathes] Opyt gruppovoi obrabotki detalei na revol'vnykh stankakh. Leningrad, 1959. 23 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriya: Mekhanicheskaya obrabotka metallov, vyp.10). (MIRA 13:3)

(Turning)

ZVONOV, A. A.

SOV/6100

PHASE I BOOK EXPLOITATION

Akademiya nauk SSSR. Institut tochnoy mekhaniki i vychislitel'noy tekhniki.

Trudy (Academy of Sciences of the USSR, Institute of Precision Mechanics and Computer Technology. Transactions) no. 2. Moscow, 1961. 447 p. 1000 copies printed. Contributors not mentioned.

PURPOSE: This collection of articles is intended for scientific and technical personnel concerned with machine translation and computer technology.

COVERAGE: This collection of articles of the Institute of Precision Mechanics and Computer Technology, Academy of Sciences USSR, is the second in a series concerned with machine translation and mathematical linguistics. The collection contains reports written by members of the Machine-Translation Group of the Institute as well as reports by researchers from other organizations. The articles deal with various problems in machine translation, such as the possibility of an intermediate language, relationships between various languages, systems of recording, structure of

SOV/6100

Academy of Sciences (Cont.)

algorithms, methods of independent analysis of a number of languages (Chinese, German, English, Russian, Rumanian, Swedish, Tartar, etc.), independent synthesis of the Russian language, some problems of binary Japanese-Russian and Chinese-Russian translation, theoretical translation problems, and problems associated with automatic recognition of speech elements and the introduction of written texts. No personalities are mentioned. There are 11 references: 2 Soviet and 9 English.

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18. Dreyzin, F. Table of Tartaric-Russian Equivalents 304
- [19. Missing]
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SUBJECT: Automation and Computer Engineering

Card 6/6

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ZVONOV, A.A., gornyy inzh.

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Ugol' 36 no.9:22-24 S '61. (MIRA 14:9)

1. Chelyabinskiy nauchno-issledovatel'skiy institut gornogo dela.
(Chelyabinsk Basin--Strip mining)
(Blasting)

ZVONOV, N.V.; ALEKSENKO, Yu.N.; STROGONOV, V.A.; MESHCHERYAKOV,
M.N.; BUYNITSKAYA, V.I.; YAROSLAVTSEV, B.Ye.

[Critical tests of an organic moderator - monoiso-
propylbiphenyl] Kriticheskie opyty s organicheskim za-
medlitem-monoizopropildifenilom. Moskva, In-t atom-
noi energii AN SSSR, 1960. 42 p. (MIRA 16:12)
(Nuclear reactors--Materials) (Biphenyl)

39631

S/195/62/003/004/001/002
E075/E436

11600

AUTHORS: Zhabrova, G.M., Kadenatsi, B.M., Zvonov, N.V.,
Yegorov, Ye.V., Azizov, T.S., Batalov, A.A.,
Gordeyeva, V.A., Glazunov, P.Ya.

TITLE: Preparation of finely divided metals and oxides by
radiation

PERIODICAL: Kinetika i kataliz, v.3, no.4, 1962, 610-613

TEXT: A possibility was investigated of preparing metals and
oxides in a finely divided form by irradiation of $Zr(OH)_4$,
 $Al(OH)_3$, $Fe(OH)_3$, Ni and Cu oxalates and basic copper carbonate
with accelerated electrons having the energy of 0.8 Mev. The
temperature of the samples during irradiation (1 to 2 g) did not
exceed 40 to 50°C. Thermal decomposition at 400 to 500°C was
also carried out for comparison with the irradiated materials.
The decomposition of all the compounds commenced at radiation
doses exceeding 10^8 rads and was intense at 10^9 to 10^{10} rads.
At the latter doses the compounds were almost completely
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Preparation of finely ...

decomposed. It was shown that the specific surface of the metals and oxides prepared by the irradiation method exceeds in most cases that of the samples prepared by the usual high-temperature pyrolysis. An especially marked advantage was noticed for the radiolysis of Cu and Ni oxalates. The surface area of the oxalate decomposition products consisting predominantly of metals was sometimes 10 or more times that of the decomposition products obtained by vacuum pyrolysis. Radiolysis of $Zr(OH)_4$ and $Fe(OH)_3$ gives dispersed oxides having considerable surface areas. $Al(OH)_3$ is an exception, Al_2O_3 produced by the radiolysis having a similar surface area to that of Al_2O_3 obtained by pyrolysis. The metals and oxides prepared by radiolysis may find application as low temperature catalysts and adsorbents. There are 2 figures and 2 tables. 4

ASSOCIATIONS: Institut khimicheskoy fiziki AN SSSR
(Institute of Chemical Physics AS USSR)
Institut atomnoy energii im. I.V.Kurchatova AN SSSR
(Institute of Atomic Energy imeni I.V. Kurchatov
AS USSR)

Card 2/3

Preparation of finely ...

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E075/E436

Institut fizicheskoy khimii AN SSSR
(Institute of Physical Chemistry AS USSR)

SUBMITTED: March 15, 1962

Card 3/3

X

ZHARKOV, M.M.; ORESHKIN, A.N.; ZVORICHIN, V.

Industrial testing of a doubled, solid shield with a protective fore, support in hydraulic mining conditions. Trudy Inst. gor. dela Sib. otd. AN SSSR no.5:3-16 '64.

(MIRA 17:11)

ZVORYGIN Ye.K.
MOHICH, V.K.; ZVORYGIN, Ye.K.

Petrography of middle Hercynian intrusions in the Kounrad region.
Izv. AN Kazakh. SSR. Ser. geol. no.4:30-48 '57.
(Tokrau Valley--Rocks, Igneous) (MIRA 11:3)

MONICH, V.K.; ZVORYGINA, Ye.K.; MELIKHOV, V.D.

Alkali feldspars from granites of the Eastern Kounrad and Bektauata
massifs. Izv. AN Kazakh. SSR. Ser.geol. no.3:58-69 62.
(MIRA 15:7)

(Kounrad region--Feldspar) (Kounrad region--Granite)

ZVORYKIN, A.

On the paths to communist labor. Vop.ekon. no.7:16-28 JI '62.
(Labor and laboring classes--Education) (Automation) (MIRA 15:7)

L 45078-66

SOURCE CODE: UR/0106/66/000/008/0055/0058

ACC NR: AP6029845

AUTHOR: Zvorygin, F. V.

33
B

ORG: none

TITLE: Telegraph broken signal regenerator designed with pulse elements

SOURCE: Elektrosvyaz', no. 8, 1966, 55-58

TOPIC TAGS: telegraph signal, telegraph equipment, signal noise separation

ABSTRACT: Known methods of pre- and post-detector filtering of a telegraph signal have secured regeneration of signals distorted up to 40% and broken up to one-half the duration of the elementary train. These methods require complicated and expensive equipment. A new signal regenerator is proposed in which the signal is evaluated on the basis of its mean value during the elementary train and which uses standard pulse devices. The regenerator can handle the breaks in radiotelegraph signal trains that lie within certain ratio of the total duration of distortions to the total duration of the elementary train. Regenerable trains are selected by means of measuring the duration of intact sections of the signals. The new method was experimentally verified with 16-element code combinations artificially distorted by statistically (near-Poisson) distributed 10-msec impulses; 10000 transmission-receptions were performed for each value of the mean noise frequency.

Orig. art. has: 5 figures, 5 formulas, and 1 table.

SUB CODE: 17, 09/ SUBM DATE: 01Apr65/ ORIG REF: 002/ ATD PRESS: 5081

[03]

Card 1/1 blg

UDC: 621.394.147.181

ZVORYGINA, Ye.K.

New geological and petrographic data on the Kokdombakakiy Massif.
Trudy Inst. geol. nauk AN Kazakh. SSR 12:142-147 '65.
(MIRA 18:9)

ZVORYKIN, A.

Productive forces of communism. Vop. ekon. no.12:38-48 D '61.
(MIRA 14:11)

(Russia--Industries)
(Russia--Economic policy)

ZVORYKIN, A.

Labor and technological progress. Vop. ekon. no.10:29-41
0 '61. (MIRA 14:10)

(Technology) (Work)

ZVORYKIN, A.

Ocherki Po Istorii Sovetskoy Gornoy Tekhniki. (Outline of History of Soviet Mining Technology)

Moskva, IZD-VO Akademii Nauk SSSR, (1950)

539 P. Illus., diagra., ports., tables.

"Ispol'zovannaya Literatura": P. 470-533.

At head of title: Akademiya Nauk SSSR. Komissiya Po Istorii Tekhniki.

Author discusses the post-revolutionary period's importance in the development of the Bolshevik Party's and Soviet Government's organizational efforts to develop this industry in to a powerful branch of the Socialist industry.