

LEBEDEV, Veniamin Stepanovich; SEVOST'YANOV, K.F., retsenzents; FEDOROV, B.M.,
redaktor izdatel'stva; KARASIK, N.P., tekhnicheskii redaktor

[Plywood production] Fanernoie proizvodstvo. Moskva, Goslesbumizdat,
1956. 414 p. (MIRA 9:12)
(Plywood)

SEVOST'YANOV, K.M.

Position and the geotectonic development of Kamchatka fold
structures in connection with their oil and gas potentials.
Geol. i geofiz. no.4:187-191 '65. (MIRA 18:8)

1. Glavnoye upravleniye geologii i okhrany neдр pri Sovete
Ministrov RSFSR, Moskva.

SEVOST'YANOV, K.M.

New data on the stratigraphy and gas and oil potentials of the
Paleogene sediments of Kamchatka. Neftegaz. geol. i geofiz. no.10:
8-12 '63. (MIRA 17:9)

1. Glavnoye upravleniye geologii i okhrany nedr pri Sovets
Ministroy RSFSR.

KOZLOV, A.I., SIVOST'YANOV, K.M.; BAGIROV, G.V.; KUZNETSOV, A.S.

Outlook for the development of geological prospecting operations for oil and gas in Eastern Siberia and the Far East. Neftegaz. geol. i geofiz. no.6:9-12 1983. (MIRA 17:10)

1. Glavnoye upravleniye geologii i okhrany nedr pri Sovete Ministrov RSFSR.

KUZNETSOV, A.S.; SEVOST'YANOV, K.M.

Oil- and gas-bearing basins of South America. Razved. i okh.
nedr. 30 no.5:58-63 My '64. (MIRA 17:10)

1. Gosudarstvennyy geologicheskii komitet RSFSR.

CHARNY, I.A.; KHOLIN, A.I.; EYKHMAN, V.N.; SEVOST'YANOV, M.M.

Dynamics of draining of a layer in the construction of underground
gas reservoirs. Gaz.prom. 7 no.1:51-54 '62. (MIRA 15:1)
(Gas, Natural--Storage)

DAKHNOV, V.N., doktor geol.-miner. nauk; KHOLIN, A.I., kand. geol.-
miner.nauk; PESTRIKOV, A.S.; GALUZO, Yu.V.; AFRIKYAN, AN.;
YUDKEVICH, R.V.; POPOV, V.K.; POZIN, L.Z.; LARIONOV, V.V.;
VENDEL'SHTEYN, B.Yu.; GORBUNOVA, V.I.; DZYURAK, M.D.; YEVDOKIMOVA,
V.A.; ZHOKHOVA, R.G.; LATYSHEVA, M.G.; MAREN'KO, N.N.; MANCHEVA,
N.V.; MOROZOVICH, Ya.R.; OREKHOVSKAYA, Ye.P.; POKLONOV, M.S.;
ROMANOVA, T.F.; SEVOST'YANOV, M.M.; TANASEVICH, N.I.; FARMANOVA,
N.V.; FEDOROVICH, G.P.; SHCHERBININ, V.A.; ELLANSKIY, M.M.;
YANUSH, Ye.F.; YUNGANS, S.M., ved. red.; YAKOVIEVA, Z.I., tekhn.
red.

[Using methods of field geophysics in studying gas-bearing re-
servoirs]Primenenie metodov promyslovoi geofiziki pri izuchenii ga-
zonosnykh kollektorov. Moskva, Gostoptekhizdat, 1962. 279 p.
(MIRA 16:2)

(Gas, Natural--Geology)
(Prospecting--Geophysical methods)

SEVOST'YANOV, N. (Minsk).

Knife for cutting sheets of insulating material. Radio no.11:40
N '56. (MLRA 9:12)

(Radio--Apparatus and supplies)

SEVOST'YANOV, N.D., inzhener; DEVKIN, M.M., inzhener.

Sandblast nozzle design. Lit. proizv. no.3:27-29 Mr '57.
(Nozzles) (Sandblast) (MLRA 10:4)

SEVOST'YANOV, S. I.

Works of the Alma-Ata Veterinary-Zootechnical Institute, vol. v, 1948. In the collected works are published the articles by:

SEVOST'YANOV, S. I. Experiment with the establishment of the coefficient of the skin test with trypan blue in healthy cattle.

So: Veterinariya; 26; 7; Jul; 1949; Uncl.
TABCON

SEVOST'YANOV, S.I.

Suspended packer. Neftianik 1 no.8:23 Ag '56.

(MLRA 9:11)

1. Starshiy inzhener po izobreteniyam i ratsionalizatsii
ob"yedineniya Grozneft'.
(Oil wells--Equipment and supplies)

KURASHEV, Leonid Andreyevich; SEVOST'YANOV, Sergey Ivanovich; FILIPENOK,
T.G., red.; KRUTOUS, V.P., ~~tekhn.red.~~

[New equipment and devices in safety engineering] Novye
prispособleniia i ustroistva po tekhnike bezopasnosti. Checheno-
ingushskoe izd-vo, 1958. 80 p. (MIRA 12:1)
(Oil fields--Safety measures)

KURASHEV, L.A., inzh.; SEVOST'YANOV, S.I.

Valuable suggestions of efficiency promoters in oil fields.
Bezop.truda v prom. 3 no.2:34-36 F '59. (MIRA 12:2)

1. Checheno-Ingushskiy sovnarkhoz.
(Oil fields--Safety measures)

SEVOST'YANOV, S.P., kand. sel'skokhozyaystvennykh nauk; GRINBERG, S.A., kand.
sel'skokhozyaystvennykh nauk.

Summer sowing of sugar beets for seed. Agrobiologiya no.6:111-118
N-D '57. (MIRA 10:12)

1. Pervomayskaya opytno-selektsionnaya stantsiya, Gul'kevichi, Krasno-
darskogo kraya.

(Sugar beets) (Seed industry)

SEVOST'YANOV, S.P., kand. sel'skokhozyaystvennykh nauk; YELETSKAYA, L.K.

Increasing the productivity of Cercospora resistant sugar beets.
Agrobiologiya no.6:117-121 N-D '58. (MIRA 12:1)

I.Nauchno-issledovatel'skiy institut sakharnoy svekly, g. Kiyevi
Pervomayskaya sveklovichnaya opytnaya selktsionnaya stantsiya,
Krasnodarskiy kray.

(Sugar beets--Disease and pest resistance)

SEVOST'YANOV, S.P., kand.sel'skokhozyaystvennykh nauk; YELETSKAYA, L.Ye.

Special problems of developing the P 023 cercospora-resistant
sugar beet variety. Agrobiologiya no.6:908-911 M-D '59.
(MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy
svekly, Kiyev. Pervomayskaya sveklovichnaya opytno-selek-
tsionnaya stantsiya, Krasnodarskiy kray.
(Sugar beets--Disease and pest resistance)

SEVOST'YANOV, S.P.

Monospermous sugar beets. Sakh.prom. 35 no.4:55-56 Ap '61.
(MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy
svekly.

(Sugar beets)

SEVOST'YANOV, S.F., kand. sel'khoz. nauk; KRYLATOVA, S.A., red.

[Sugar beet varieties and hybrids] Sorta i gibridy sa-
kharnoi svekly. Moskva, Sel'khozizdat, 1963. 16 p.
(MIRA 17:5)

1. Russia (1923- U.S.S.R.) Ministerstvo sel'skogo kho-
zyaystva. Upravleniye semenovodstva.

KOLCHITS, R.I.; SEVOST'YANOV, S.P.

Productivity of monospermous sugar beets as related to the
biological properties of the fruit. Agrobiologiya no.5:913-
921 N-D '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy
svекly, Kiyev.

SEVOST'YANOV, V., inzh.

Using blast-furnace slags in constructing the bed of the Lipetsk-
Griazi road. Avt.dor. 21 no.9:12 S '58. (MIRA 11:11)
(Voronezh Province--Road construction) (Slag)

SEVO ST. YANOV, V.I.

2,7-Phenanthrenequinonedisulfonic acid. V. I. Sevo-

st'yanov and V. A. Titkov. U.S.S.R. 106,782, Aug. 25, 1967. Phenanthrenequinone is sulfonated with an excess of 60% oleum and the disulfonic acid is sepd. by known means. The yields are increased if the sulfonation is carried out in the presence of H₂O. M. Hosh.

3
yes
yes

no

SEVOST'YANOV, V.Ya., assistant

Experimental investigation of axial residual stresses caused by
face milling of the 45 steel. Izv.vys.ucheb.zav.; mashinostr.
no.1:95-100 '60. (MIRA 14:5)

1. Kuybyshevskiy industrial'nyy institut.
(Metal cutting)

3
S/828/62/000/000/001/017
EO39/E420

AUTHORS: Kaplan, G.Ye., Yagodin, G.A., Moiseyev, S.D.,
Dmitriyeva, L.P., Mostovaya, O.A., Chekmarev, A.M.,
Sevast'yanova, E.N., Udovenko, V.F.

TITLE: The separation of zirconium and hafnium by means of
organophosphorous compounds, amines and other
extraction agents

SOURCE: Razdeleniye blizkikh po svoystvam redkikh metallov.
Mezhvuz. konfer. po metodam razdel. blizkikh po
svoyst. red. metallov. Moscow, Metallurgizdat, 1962,
28-41

TEXT: Although large separation coefficients can be obtained by
the use of mixed nitric and hydrochloric acids the process is not
favoured because of corrosion difficulties and the large quantity
of acids required. The results of experiments on the extraction
of these elements from a sulphuric acid medium in the presence of
different extraction agents is therefore examined. It is shown
that diisoamyl-ether-methylphosphonium acid ($i\text{C}_5\text{H}_{11}\text{O}$)₂POCH₃
(DAMPA) is a more powerful complex forming agent than
Card 1/2

3

The separation of zirconium ...

S/828/62/000/000/001/017
E039/E420

tributylphosphate (TBP). The separation and distribution coefficients for Zr and Hf are 24.6 and 3.2 respectively when using 10% DAMPA in H_2SO_4 solution in the presence of thio-cyanic acid, while for 40% TBP in the same medium the corresponding coefficients are 21.6 and 2.6. An increase in the concentration of TBP is undesirable as it leads to increased viscosity and a large loss of extraction agent. It should be noted however that the re-extraction of DAMPA is more difficult than for TBP. Diphenylphosphoric acid extracts Zr and Hf from H_2SO_4 solution with a separation coefficient 3 to 10. Other extraction agents of this type are also tested. Tests are also made on the use of tri-n-octylamine and in this case as the concentration of H_2SO_4 is increased the separation coefficient for Zr and Hf passes through a maximum value of 12 at about 1 normal H_2SO_4 and then falls to a steady value of about 10 for further increase in the H_2SO_4 concentration. Details are given of the constitution of the organic and aqueous phases and the effect of acidity on the separation coefficient. There are 11 figures and 3 tables. ✓

Card 2/2

SEVOST'YANOVA, G. A.

Sevost'yanova, G. A. - "The Clinical-Physiological Characteristics of Certain Forms of Diencephalic Pathology (Clinical-Physiological Investigation)." Min Health USSR. Central Inst for the Advanced Training of Physicians. Moscow, 1956 (Dissertation for the Degree of Candidate in Medical Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

Sevast'yanova G.A.

GRASHCHENKOV, N.I., SEVOST'YANOVA, G.A.

Infectious diseases of the diencephalon [with summary in French].
Zhur.nevr. i psikh 58 no.4:395-402 '58. (MIRA 11:5)

1. Klinika nervnykh bolezney (zav. kafedroy - prof. N.I. Grashchenkov)
TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.
(DIENCEPHALON, dis.
infect.dis., systemic manifest. (Rus))

SEVOST'YANOVA, G.A.

Features of disorders of higher nervous activity in patients with lesions of the diencephalon. Zhur.vys.nerv.deiat. 9 no.5:657-664 S-O '59. (MIRA 13:3)

1. Klinika nervnykh bolezney Tsentral'nogo instituta usovershenstvovaniya vrachey.

(Diencephalon diseases)

(CENTRAL NERVOUS SYSTEM physiol.)

GRASHCHENKOV, N.I.; SEVOST'YANOVA, G.A. (Moskva)

Characteristics of vascular reflexes in diseases of the hypothalamic
region. Zhur. nevr. i psikh. 61 no.6:837-842 '61. (MIRA 15:2)
(REFLEXES) (HYPOTHALAMUS___DISEASES)

SEVOST'YANOVA, G.A.; YEROFEYEV, L.A.

Characteristics of thyroid function in patients with a diencephalic syndromes. Zhur. nerv. i psikh. 61 no. 1:36-43 '61. (MIRA 14:4)

1. Kafedry nervnykh bolezney (zav.- prof. M.B. TSuker) i meditsinskoy radiologii (zav.- prof. V.K. Modestov) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

(THYROID GLAND) (DIENTEPHALON—DISEASES)

YEROFEYEV, L.A.; SEVOST'YANOVA, G.A.

Study of the function of the thyroid gland using radioactive iodine I^{131} in lesions of the diencephalon. Sov.med. no.3:73-78 '62. (MIRA 15:5)

1. Iz kafedry meditsinskoy radiologii (zav. - prof. V.K. Modestov) i kafedry nervnykh bolezney (zav. - prof. N.S. Chetverikov) Tsentral'nogo instituta usovershenstvovaniya vrachey.

(THYROID GLAND) (IODINE—ISOTOPES)
(DIENTEPHALON—DISEASES)

SEVER'YANOVA, L.A.

Significance of the hypophysis in the pathogenesis of experimental hypertension caused by a "clash" of basic cortical processes. Biul. eksp. biol. i med. 59 no.2:46-50 F '65.

(MIRA 18:7)

1. Kafedra normal'noy fiziologii (zav. - prof. P.A. Nekrasov)
Kurskogo meditsinskogo instituta.

5.3831

78230
SOV/80-33-3-31/47

AUTHORS: Starobinets, G. L., Sevost'yanova, L. I., Bulatskaya, G. N.

TITLE: Sulfo Cation Exchangers Based on Polybutadienes

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 3,
pp 690-694 (USSR)

ABSTRACT: Sulfonation of polybutadiene rubber and its vulcanizates containing 2, 10, 18, and 26% bound sulfur, gave sulfo cation exchangers with an ion exchange capacity of 1.4 to 3.2 mg equiv/g. The sulfonation was made in a water bath at 100° C, in a six-fold excess of 98% H₂SO₄ (based on weight). The reaction took from 40 hr (for cation exchanger containing 2% S), to 55 hr (for one containing 26% S). Exchangers thus obtained were chemically stable, swelled little, and were mechanically and thermally resistant. A clear separation of a mixture of Ca and Ba ions was achieved using sulfo exchanger containing 18% sulfur in a chromatographic

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Sulfo Cation Exchangers Based on
Polybutadienes

78230
SOV/80-33-3-31/47

elution column. There are 4 figures; and 9 references, 1 U.S., 1 German, and 7 Soviet. The U.S. reference is: J. Phys. Chem., 58, 456 (1954).

ASSOCIATION: Minsk, The V. I. Lenin Belorussian State University
(Minsk, Belorusskiy gosudarstvennyy universitet imeni
V. I. Lenina)

SUBMITTED: June 24, 1959

Card 2/2

KOROBOCHKIN, I.V., kand. tekhn. nauk; BEL'SKIY, B.R., inzh.; MIKHAYLOV, Ye.A., inzh.; GUTENMAKHER, L.I., laureat Stalinskoy premii doktor tekhn. nauk, nauchnyy red.; SEVOST'YANOVA, M.V., doktor fiz.-mat. nauk, prof., nauchnyy red.; RUSEVICH, I.M., inzh., red.; OSTROVSKAYA, Ye.G., otv. za vypusk

[Catalog-manual of laboratory devices and equipment] Katalog-spravochnik laboratornykh priborov i oborudovaniia. Moskva, Mashgiz. No.21. [Calculating machines and devices] Schetno-vychislitel'nye pribory i apparaty. 1948. 22 p. No.27. [Microscopes and lenses] Mikroskopy i lupy. 1950. 87 p. (MIRA 16:4)

1. Moscow. Vsesoyuznaya vystavka otechestvennogo priborostroyeniya, 1948.

(Calculating machines--Catalogs)
(Microscopes--Catalogs) (Lenses--Catalogs)

SEVOST'YANOVA, M.V.; AGAYEVA, E.A.

Effect of macromolecular substances on the absorption spectra
of dye solutions (in connection with the problem of the nature
of the H nuclei). Zhur. nauch. i prikl. fot. i kin. 8 no.4:
249-252 J1-Ag '63. (MIRA 16:7)

1. Gosudarstvennyy opticheskiy institut imeni Vavilova.
(Absorption spectra)
(Photographic emulsions)

UTEMAGAMBETOV, Musletdin Megambetovich; PAL'GOV, N.N., red.;

SEVOST'YANOVA, N., red.; KUZ'MENKO, N., tekhn.red.

[Physical geography of Kazakhstan; textbook for teachers]
Fizicheskaja geografiia Kazakhstana; posobie dlia uchitelei.
Pod red. N.N.Pal'gova. Alma-Ata, Kazakhskoe gos.uchebno-pedagog.
izd-vo, 1959. 169 p. (MIRA 14:3)
(Kazakhstan--Physical geography)

YARMUKHAMEDOV, Mukhtamid Shamukhamedovich; GLADYSHEVA, Ye.N., spets. red.;
SEVOST'YANOVA, N., otvet. po vypusku; MUKHAMEDZHANOV, A., tekhn. red.

[Economic geography of the Kazakh S.S.R.; textbook for the teachers of
Kazakhstan schools] Ekonomicheskaja geografiia Kazakhskoi SSR; uchebnoe
posobie dlia uchitelei shkol Kazakhstana. Alma-Ata, Kazakhskoe Gos.
uchebno-pedagog. izd-vo, 1959. 150 p. (MIRA 14:7)
(Kazakhstan—Economic geography)

S/08:/61/000/019/059/085
B117/B110

AUTHORS: Shikhmamedbenova, A. Z., Sevost'yanova, N. A., Sadykh-zade, S. I.

TITLE: Study of the dehydrogenation process of butyl benzene in butenyl benzene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 322, abstract 19L20 (Azerb. khim. zh., no. 5, 1960, 37 - 46)

TEXT: Equilibrium constants and equilibrium composition were calculated for the dehydrogenation of secondary $C_4H_9C_6H_5$ to secondary butenyl benzene (I) at 450 - 700°C both without dilution and with dilution by water vapor in molar ratios from 1:9 to 1:15. The activity of the industrial catalysts k-12 (K-12), k-16 (K-16), styrene contact as well as k-67 (K-67) during this reaction at 540 - 630°C was examined. On hydrogenation upon K-67 the yield of I amounts to 16 - 17% at 580°C and at a molar dilution of 1:12. It has chiefly the structure of α -ethyl styrene and contains α , β -dimethyl styrene impurities. [Abstracter's note: Complete translation.]
Card 1/1

SHIKHMAMEDBEKOVA, A.Z.; SEVOST'YANOVA, N.A.; SADYKH-ZADE, S.I.

Investigating the process of dehydrogenation of butylbenzene into
(butenyl) benzene, Azerb.khim.zhur. no.5:37-46 '60. (MIRA 14:8)
(Benzene) (Butene)

L 45610-65 EPF(n)-2/EWA(c)/EWT(m)/EWP(b)/T/EWP(t) Pu-4 IJP(c) JD/JG

ACCESSION NR: AP5012768

UR/0020/65/161/006/1359/1361

AUTHOR: Sevost'yanova, N. I.; Murav'yeva, I. A.; Kovba, L. M.; Martynenko, L. I.;
Spitsyn, Vikt. I. (Academician)

TITLE: New compounds of the rare earths with lithium

SOURCE: AN SSSR. Doklady, v. 161, no. 6, 1965, 1359-1361

TOPIC TAGS: rare earth compound, ²⁷lithium compound, lithium terbate, lithium
praseodymate, lithium lanthanate, lithium ytterbate ²⁷

ABSTRACT: Two new and two known compounds of rare earths with lithium
oxide have been prepared and analyzed by x-rays to supplement study of the amphoteric
character of the rare earths. The new compounds were prepared by calcining at
500-800C compacted mixtures of Pr_2O_3 or Tb_2O_3 and lithium carbonate. As x-ray
powder patterns of the products were similar to the previously described patterns
of $LiNdO_2$ or $LiGdO_2$, it was possible to assign the new compounds the formula $LiPrO_2$
or $LiTbO_2$. Lithium terbate ($LiTbO_2$) crystallized in the rhombic system with lattice
constants: $a = 5.27 \text{ \AA}$, $b = 11.16 \text{ \AA}$, and $c = 3.41 \text{ \AA}$. The crystal structure of
 $LiPrO_2$ is different but could not be determined from its x-ray pattern. The known
compounds $LiLaO_2$ and $LiYbO_2$ were prepared by calcining mixtures of the nitrates of

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ACCESSION NR: AP5012768

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corresponding rare earth elements with lithium nitrate. LiLaO_2 in disagreement with the earlier data, crystallized in the rhombic system and had a distorted cubic unit cell. The lattice parameters of LiLaO_2 were determined. The earlier reported crystal structure of LiYbO_2 was confirmed. Orig. art. has: 3 tables. [JK]

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 07Dec64

ENCL: 00

SUB CODE: GC, IC

NO REF SOV: 000

OTHER: 006

ATD PRESS: 4001

Card 2/2

212788

CA SEVOST'YANOVA, V.V.

15

The influence of superphosphate on southern chernozem of the Crimean province. A. S. Tulin and V. V. Sevost'yanova. *Doklady Akademii Nauk SSSR* 1951, 690-5. - Tests with granulated and powdery superphosphate on barley show no significant difference on the yield of roots and no increase in P content of tops and roots. Neither was there a difference in the N content of the tops. J. S. Joffe

SEVOSTYANOVA, V. V.

USSR/ Chemistry - Catalysts

Card : 1/1

Authors : Novikov, S. S., Khromov, S. I. and Sevostyanova, V. V.

Title : Contact conversions of ethyl- and butylcyclopentane in conditions of increased temperature and hydrogen pressure

Periodical : Dokl. AN SSSR, 97, Ed. 3, 463 - 466, July 21, 1954

Abstract The effect of oxide-metallic catalysts, increased temperatures and hydrogen pressure on the contact conversions of ethyl- and butylcyclopentanes, was investigated. The effect of catalyst composition and magnitude of the hydrocarbon side-chain on the contact conversion, is explained. The hydro- and dehydrogenation activity of the Pt and Ni catalysts was determined by the hydrogenation reaction of benzene and the dehydrogenation reaction of cyclohexane. The results obtained are shown in tables. Five references: 4-USSR and 1-German.

Institution : Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organ. Chemistry

Presented by : Academician, B. A. Kazanskiy, March 24, 1954

SEVOST'YANKOVA, V. V.

SEVOST'YANKOVA, V. V.: "Phosphorus nutritiuin of winter wheat and the use of phosphorus in superphosphate under the conditions of the steppe portion of the Crimea." Moscow Order of Lenin Agricultural Academy. Kaunas, 1956.
(Dissertation for the Degree of Candidate in Agricultural Science)

So: Knizhnaya Letopis', No. 18, 1956

5.4/30
AUTHORS:

Shklovskiy, A. M.; Shteyn, Ya. I.; Corresponding Member
of USSR Academy of Sciences, Institute of Organic Chemistry,
Moscow, U.S.S.R.

8/02/60/132/06/42/066
R04/R003

TITLE:

Dipole Moments of Some Halogen Polynitroethanes

PERIODICAL: Doklady Akademii Nauk SSSR, 1960, Vol. 132, No. 6,
pp. 1376 - 1377

NOTE: To investigate the effect of an accumulation of nitro groups for
polarity and dipole moment, the authors measured the dipole moments
of the compounds $\text{CCl}(\text{NO}_2)_2$, $\text{CH}_2(\text{NO}_2)_2$, $\text{CH}_3\text{C}(\text{NO}_2)_2$, $\text{CH}_3\text{C}(\text{NO}_2)_2\text{CH}_3$,
 $\text{CH}_3\text{C}(\text{NO}_2)_2\text{CH}_2\text{CH}_3$, and $\text{CH}_3\text{C}(\text{NO}_2)_2\text{CH}_2\text{CH}_2\text{CH}_3$ in benzene at 29°C by the
heterodyne method. Table 1 lists the investigated concentrations of sub-
stances, the sum of atomic and electron polarization, and the dipole
moments. A comparison of the dipole moments of CH_3I and $\text{Cl}(\text{NO}_2)_2$
(X - halogen) shows, for the halogen trinitroethanes, a small negative

SLIT

Dipole Moments of Some Halogen Polynitroethanes 3/02/60/132/06/42/066
R04/R003

charge in the chlorine compound, a small positive charge in the bromine,
and a strong positive charge in the iodine compound. This is explained by the
fact that in the presence of three C-NO₂ bonds the interaction between I
and C is not limited to the formation of the C-I⁺ bond. Iodine acts here
as a donor of the unshared electron pair, and effects a further shift
of electrons, and a partial transition of nitro groups into nitrite
groups. This explains the observed properties of halogen trinitroethanes
described in Refs. 2-5. Besides, the methyl group becomes more positive
by the vicinity of the three NO₂ groups which circumstance explains the
behavior of 1,1,1-trinitroethane which is easily transposed (Ref. 6) into
1,1-dinitroethylene. The dipole moments of some geminal dinitro compounds
are calculated from the experimental data. Also here a considerable de-
crease of the dipole moment of the carbon-halogen bond results in agree-
ment with the experiment. There are 1 table and 6 references: 2 Soviet,
1 British, 1 German, and 2 American.

SLIT

Dipole Moments of Some Halogen Polynitroethanes 3/02/60/132/06/42/066
R04/R003

ASSOCIATION: Institut tekhnoy khimicheskoy tekhnologii, N. Y. Lomonosov
(Institute of Pure Chemical Technology, Acad. N. Y. Lomonosov),
Institut organicheskoy khimii, N. Y. Lomonosov, Moscow, U.S.S.R.
mark SSSR (Institute of Organic Chemistry, Acad. N. Y. Lomonosov,
of the Academy of Sciences, USSR)

SUBMITTED: February 14, 1960

Card 3/3

NOVIKOV, S.S.; FAYNZIL'BERG, A.A.; GULEVSKAYA, V.I.; SEVOST'YANOVA, V.V.

Synthesis and quantitative determination of α -halo nitro compounds.
Izv.AN SSSR Otd.khim.nauk no.4:672-677 Ap '61. (MIRA 14:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Nitro compounds)

S/062/62/000/008/015/016
B117/B180

AUTHORS: Novikov, S. S., and Sevost'yanova, V. V.
TITLE: Synthesis of alkyl silanes with a nitro-group in the γ -position
PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 8, 1962, 1485-1486

TEXT: The addition between substituted silanes (trichloro-, methyl dichloro-, ethyl dichloro-, diethyl chloro- and triethylsilane) and unsaturated nitro-compounds (nitro-ethyls and 3-nitropropene-1) was investigated. with the aim of finding a better synthesis for organo-silicon nitro-compounds. Chloro platonic acid in i-propyl alcohol was used as a catalyst. Autoclave experiments at atmospheric and high pressures showed that pressure changes have hardly any effect on yield or composition of the products. The nitro ethyls reacted extremely vigorously with Cl_3SiH or $\text{CH}_3\text{SiHCl}_2$, H and HCl being liberated with methyl dichlorosilane; however 1-chloro-2-nitro ethane and unidentified polymers

Card 1/2

Synthesis of alkyl silanes ...

S/062/62/000/008/015/016
B117/B180

were isolated, and not the product expected. Heating 3-nitro prop-1-ene with Cl_3SiH , $\text{CH}_3\text{SiHCl}_2$ and $\text{C}_2\text{H}_5\text{SiHCl}_2$ (to 75°C) produced, the corresponding adducts in satisfactory yield. The γ -nitro-propyl dichloro-silanes synthesized are colorless, viscous compounds, hydrolyzing rapidly in air. The reaction products of 3-nitro propene-1- decompose with liberation of gas. No reaction occurs between $(\text{C}_2\text{H}_5)_3\text{SiH}$ and 3-nitro propene-1. The activity of the substituted silanes diminished with the number of chlorine atoms: $\text{Cl}_3\text{SiH} > \text{CH}_3\text{SiHCl}_2 > (\text{C}_2\text{H}_5)_2\text{SiHCl}$.



ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: February 22, 1962

Card 2/2

NOVIKOV, S.S.; SEVOST'YANOVA, V.V.; FAYNZIL'BERG, A.A.

Characteristic chemical properties of organic compounds containing positive halogen. Usp.khim. 31 no.12:1417-1436 D '62.
(MIRA 16:2)

1. Institut organicheskoy khimii AN SSSR imeni N.D.Zelinskogo.
(Organic compounds) (Halogens)

NOVIKOV, S.S.; SEVOST'YANOVA, V.V.; YEPISHINA, L.V.

Synthesis of nitroalkyl siloxanes. Izv. AN SSSR Ser.khim. no.10:
1860-1861 0 '63. (MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

L 24839-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-Li/Pr-Li/Ps-Li ASD(m)-3/AFETR/RPL
RM/WW

ACCESSION NR: AP4047401

S/0062/64/000/010/1881/1882 33

AUTHOR: Zamyatina, V. A. ; Oganesyan, R. M. ; Sevost'yanova, V. V. ;
Sidorov, T. A. 32
B

TITLE: The reaction of nitroallyl with N-trimethylborazole

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 10, 1964, 1881-1882

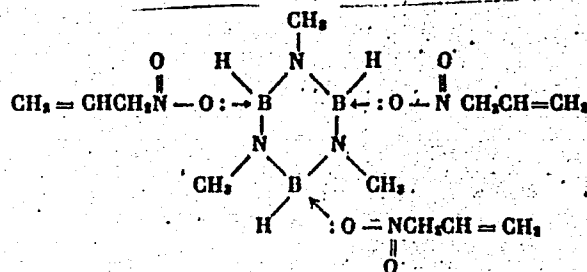
TOPIC TAGS: nitroallyl, trimethylborazole, nitroallyl trimethylborazole reaction product, synthesis, polymerization

ABSTRACT: The reaction of 3-nitropropen-1 with N-trimethylborazole in ether solution at reduced temperature gave a white crystalline product corresponding to the formula $(\text{NO}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{BNCH}_3)_3$. The material did not melt, but gradually decomposed on heating from 180-300C. It exploded in a sealed capillary at 130-140C and was not reduced to the amine with Raney nickel. The material did not form a complex with methanol at room temperature, but dissolved in boiling benzene and on cooling separated as a powder insoluble in benzene or dimethylformamide, probably due to polymerization. IR data and physical properties in-

Card 1/2

L 24839-65
ACCESSION NR: AP4047401

dicat formation of the complex:



Orig. art. has: 1 formula and 1 equation

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR
(Institute of Organometallic Compounds Academy of Sciences SSSR)

SUBMITTED: 17Feb64

ENCL: 00

SUB CODE: GC, OC

NO REF SOV: 004

OTHER: 002

Card 2/2

ACC NO. AP6030569

SOURCE CODE: UR/0413/66/000/016/0035/0036

INVENTOR: Lebedev, O. V.; Yepishina, L. V.; Sevost'yanova, V. V.; Novikova, T. S.; Khmel'nitskiy, L. I.; Novikov, S. S.

ORG: none

TITLE: Preparation of 2-nitro derivatives of imidazole. Class 12, No. 184868
[announced by Institute of Organic Chemistry im. N. D. Zelinskiy (Institut organicheskoy khimii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 35-36

TOPIC TAGS: imidazole nitro derivative, methylformylimidazole oxime, nitrogen tetroxide, imide, organic nitro compound, organic oxime

ABSTRACT: In the proposed method, 2-nitro derivatives of imidazole are prepared by treatment of 4-methyl-5-formylimidazole oxime with nitrogen tetroxide at 2-3°C in absolute acetonitrile with further heating at ~70°C and isolation of the product by known methods.

[WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 24Mar65/

Card 1/1

UDC: 547.781.5.07

KOROLEV, P.P.; SEVOST'YANOV, V.V.

Portable unit for testing relay protection. Pats. predl. na gor.
elektrotransp. no.9:59-61 '64. (MIRA 18:2)

1. Trust "Mosselektrotrans".

L 23990-66 EWT(1)/EWT(m)/EPF(n)-2/ETC(m)-6 IJP(c) WW/GG
ACC NR: AP6007811 SOURCE CODE: UR/0120/66/000/001/0045/0050

AUTHORS: Orlov, Yu. V.; Sevost'yanov, Yu. A.

ORG: none

TITLE: Sensitivity function of a scintillation gamma spectrometer with CsI(Tl) crystal to gamma radiation with energy up to 10 Mev

SOURCE: Pribery 1 tekhnika eksperimenta, no. 1, 1966, 45-50

TOPIC TAGS: gamma spectrometer, scintillation spectrometer, radiation sensitivity, matrix element, luminescent crystal

ABSTRACT: The authors describe a procedure for constructing two matrices with uniform (50th-order) and nonuniform (42nd-order) energy interval for the reduction of apparatus spectra of a single-crystal scintillation gamma spectrometer with energy up to 10 Mev. It is assumed in the construction of the matrix that the amplitude distributions for CsI(Tl) are analogous to those of NaI(Tl) crystals with equivalent dimensions. This made it possible to use for the calculation the amplitude distributions published by M. I. Berger and

Card 1/2 UDC: 539.16.08

L 23990-66

ACC NR: AP6007811

I. Doggett (J. Res. Nat. Bur. Standards, 1956, 56, 355). The matrices are constructed for a cylindrical crystal CsI(Tl) of diameter and height of 80 mm, for collimated incident radiation of 50 mm diameter (this is a standard Soviet crystal size). Reduced spectra, obtained with reactor experiments with the aid of this crystal and with these matrices are presented. The accuracy of reduction by the matrix method is estimated at 15 -- 20%. The authors thank V. N. Ignatenko for help during the reduction of the experimental data, and Yu. M. Bezborodov and I. G. Voronina for computer calculations. Orig. art. has: 10 figures, 1 table, and 7 formulas.

SUB CODE: 20/ SUBM DATE: 25Dec64/ ORIG REF: 009/ OTH REF: 006

Card

2/2 *low*

TODOROV, P., kandidat tekhnicheski nauki; SEVOV, S., inzh.; ATANASOV, S., inzh.

Production of modified MSCH 32-52 cast iron and its introduction in the G. Dimitrov State Metallurgical Plant, Ruse. Ratsionalizatsiia 11 no.9:10-13 '61.

1. Durzhaven Metalurgicheski zavod "G. Dimitrov".

(Castiron)

TODOROV, Radoslav, k. t. n.; SEVOV, S., inzh.

Reconstruction of our foundry shop. Tekhnika Bulg 11
no.9:342-344 '62.

1. Durzhaven mashinostroitelnen zavod, Ruse.

SARUKHANYAN, F.G.; SEVOYAN, A.G.

Some variants of yeasts found on fruits of the Armenian S.S.R.
Mikrobiol.sbor. no.3:59-67 '49. (MLRA 9:8)
(ARMENIA--YEAST)

Sevov an, A. G.

Fermentation of fruit musts. P. G. Sarukhanyan and A. G. Sevov an. *Mikrobiol. Sbornik, Akad. Nauk Armyan. SSR*, 1951 (in Russian), 162-4 (Armenian summary) (1951).—Successful prepn. of wines by fermentation of local products, such as cherries, peaches, apricots, and mulberry, is described. The operation required, however, addn. of sugar, since the local products were too low in sugars to yield satisfactory materials alone. The use of *Saccharomyces ellipsoideus* was satisfactory in fermentation of fruit products. The use of *Pseudosaccharomyces apiculatus* gave only a very low EtOH content in the products. *Dematiu* must be avoided since this fungus spoils the taste of wine products. G. M. Kasolapoff

S. PRUKHANYAN, F.G.; SEVOYAN, A.G.

Changes in the fermentative characteristics of the yeast *Saccharomyces ellipsoideus* depending on the sources of nutrition. *Vopr. mikrobiol.* no. 1:129-133 '61.

Preservation of the productive characteristics of baker's yeast depending on the nutrient content of the medium. *Ibid.* 1:149-166 (MLRA 17:10)

ALEKSANDROV, V.Ye., inzh.; SEVRIKOV, V.V., inzh.

Reasons for the increase in the use of bore bits. Ugol'. Ukr. 7
no.11:25-27 N '63. (MIRA 17:4)

1. Upravleniye no burovzryvnym rabotam Donetskogo soveta
narodnogo khozyaystva.

ALEKSANDROV, V.Ye., gornyy inzh.; SEVRIKOV, V.V., gornyy inzh.;
PIDGORA, V.V., gornyy inzh.

Using a new type of a borehole charge. Vzryv. delo no.54/11:
367-374 '64. (MIRA 17:9)

1. Luganskoye upravleniye burovzryvnykh работ.

KOLESNICHENKO, I.T.; BAKHAREVICH, N.S.; ALEKSANDROV, V.Ye.; SEVRIKOV,
V.V.

Using the E-6 explosive in Donets Basin mines. Vzryv. delo
no.55/12:126-131 '64. (MIRA 17:10)

1. Mezhdudomstvennaya komissiya po vzryvnomu delu.

MINDELI, E.O., doktor tekhn. nauk; ALEKSANDROV, V.Ye., inzh.; SEVRIKOV,
V.V., inzh.

Efficiency of a wedge cut in development faces of coal mines.
Vzryv. delo no.55/12:454-266 '64. (MIRA 17:10)

1. Institut gornogo dela im. A.A. Skochinskogo (for Mindeli).
2. Proizvodstvenno-eksperimental'noye upravleniye Donetskogo
soveta narodnogo khozyaystva (for Aleksandrov, Sevrikov).

SEVRIN, G.

Under the leadership of the party. Za rul. 17 no.1:6-7 Ja '59.
(MIRA 12:3)

1. Sekretar' obkoma Kommunisticheskoy partii Sovetskogo Soyuz, Orenburg-
skaya oblast'.

(Orenburg Province--Automobile drivers)

ACC NR: AP6037032

SOURCE CODE: UR/0085/66/000/012/0008/0009

AUTHOR: Sevrin, M. (Chief organizer)

ORG: VLKSM

TITLE: For young romantics [Young astronauts' clubs]

SOURCE: Kryl'ya rodiny, no. 12, 1966, 8-9

TOPIC TAGS: astronautics, ~~training~~ military training, training procedure, education

ABSTRACT: Since the space flights of Soviet cosmonauts, the younger generation has become intensely interested in space research. Schools and clubs of young cosmonauts (pilots) are becoming very popular. The Orenburg school for young cosmonauts, with 60 to 80 available spaces, receives 800 to 900 applications for admission annually; the Balashevo School, with 90 available spaces, receives from 400 to 500 applications. The majority of the graduates from these schools enter Air Force and Civil Aviation schools. Young pilots study the history of aviation and astronautics, principles of aerodynamics, aviation technology, radio equipment, and aviation and space medicine. After the first year of study they make their first 30-minute flight and 2-3 parachute jumps. The schools are administered by oblast', kray, and republic komsomol committees; the clubs are part of the DOSAAF organization and have the primary goal of providing patriotic military education.

SUB CODE: 05, 22, 01/ SUBM DATE: none/
Card 1/1

1. SEVROV, K. P.
2. USSR (600)
4. Mixing Machinery
7. Resistance and power in the work of blade mixers. Mekh. stroi. 10, No. 2, 1953.

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

SEVROV, K.P., kandidat tekhnicheskikh nauk.

Resistance and power in the operation of blade mixers. Mekh.stroi
11 no.8:26-29 Ag '54. (MLRA 7:8)
(Mixing machinery)

SEVROV, Konstantin Pavlovich; LOZOVY, Dmitriy Andreyevich; MER,
Iosif Il'ich; MANAKIN, N.V., redaktor; MAL'KOVA, N.V., tekhnicheskiiy redaktor.

[Trailing and mounted types of road machinery; tractor driver's manual] Pritsepnye i navesnye doroznye mashiny; spravochnik traktorista. Moskva, Nauchno-tekhn.izd-vo avtotransportnoi lit-ry, 1955. 402 p. (MLBA 8:11)
(Road machinery)

SOV/124-57-4-4467

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 86 (USSR)

AUTHOR: Sevrov, K. P.

TITLE: Efficient Feeding of Paddle Agitators When Mixing Mineral Road-surfacing Mixtures With Liquid Bitumen (Ratsional'naya zagruzka lopastnykh meshalok pri peremeshivanii dorozhnykh mineral'nykh smesey s zhidkim bitumom)

PERIODICAL: Tr. Saratovsk, avtomob.-dor. in-ta, 1956, Nr 14, pp 240-261

ABSTRACT: Bibliographic entry

Card 1/1

SEVROV, K.P., kand.tekhn.nauk, dotsent

Investigating mixing processes in blade paddle mixers. Trudy
SADI no.16 pt.1:115-134 '59. (MIRA 13:11)
(Mixing machinery)

SEVROV, K.P., kand.tekhn.nauk

Designing the parameters of periodic blade mixers for asphalt-concrete mixes. Stroi.i dor.mash. 7 no.10:25-28 0 '62.

(MIRA 15:11)

(Asphalt concrete)

(Mixing machinery)

SEVROV, K.P., kand. tekhn. nauk; LOZOVY, P.A., kand. tekhn.
nauk; KABALKIN, V.A., kand. tekhn. nauk; FOMIN, M.I.,
kand. tekhn. nauk; POKROVSKIY, A.A., inzh.; BROMBERG,
A.N., doktor tekhn. nauk prof., retsenzent

[Road construction machinery] Dorozhnostroitel'nye ma-
shiny. Moskva, Mashinostroenie, 1965. 384 p.

(MIRA 19:1)

(A) L 25587-66 EWT(d)/EWP(h)/EWP(1)			
ACC NR:	AM6004821	Monograph	UR/ 27 B+1
Sevrov, K. P.; Lozovoy, D. A.; Kabalkin, V. A.; Fomin, M. I.; Pokrovskiy, A. A.			
Road construction machinery (Dorozhnoostroitel'nyye mashiny) Moscow, Izd-vo "Mashino-stroyeniye", 1965. 384 p. illus., biblio. Errata slip inserted. 10,000 copies printed. Textbook for students specializing in road construction machinery at institutions of higher learning			
TOPIC TAGS: highway engineering, excavating machinery, construction machinery, road			
PURPOSE AND COVERAGE: The book describes the constructions of road building machines of Soviet manufacture (predominantly new models), and contains a brief review of the constructions of foreign machines as well as a description of original model designs. The main trends in the development of road building machinery are indicated. The purpose of the book was to help future engineers in the study of the construction of such machinery and is a textbook for students in courses of "Construction and Road Building Machinery and Equipment" and "Automobile Roads" of polytechnic and automobile-road institutes. It can also be used by engineers and technicians, mechanics, and constructors, during the operation of road-building machinery. It is intended to serve as a companion to the existing textbooks on the theory and design of machinery. Chapters 1, 2, and 4 were written by engineer A. A. Pikrovskiy, Ch. 3 by Candidate of Technical Sciences D. A. Lozov, Ch. 6 by Candidate of Technical Sciences K. P. Sevrov, Ch. 8 by Candidate of Technical Sciences V. A. Kabalkin, Chs. 9 and 10 by Candidate of Technical Sciences M. I. Fomin, Ch. 5 by Candidate of Technical Sciences N. L. Zhikharev, and Ch. 7 by B. N. Zakharov. The overall editor of			
Card	1/2	UTC: 621.0:625.002.2(075.8) 2	

I 25587-66

ACC NR: AM6004821

the textbook was Candidate of Technical Sciences, Professor K. P. Sevrov

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SUB CODE: 13/

SUBM DATE: 05 Jun 65/

ORIG REF: 018

Card 2/2 dcb

D'YACHKOVA, T.V.; SEROVA, N.V.

Thermophysical properties of snow. Trudy GGO no.94:76-79
'60. (MIRA 13:5)

(Snow--Thermal properties)

VOROMTSOV, P.A.; MESHCHERSKAYA, A.V.; SELEZNEVA, Ye.S.; CHESTNAYA, I.I.;
AYNBUND, M.M.; KIRILLOVA, T.V.; NESINA, L.V.; OGNEVA, T.A.;
SEROVA, N.V.; TIMOFEEV, M.P., kand.fiz.-mat.nauk; ZHDANOVA, L.P.,
red.; BRAYNINA, M.I., tekhn.red.

[Meteorological regime of Lake Sevan] Meteorologicheskii rezhim
ozera Sevan. Pod red. M.P.Timofeeva. Leningrad, Gidrometeor.
izd-vo, 1960. 310 p. (MIRA 14:3)

1. Leningrad. Glavnaya geofizicheskaya observatoriya.
(Sevan Lake region--Meteorology)

VORONISOV, P.A.; OGNEVA, T.A.; SEROVA, N.V.

Formation of the temperature regime of soil and air. Trudy GGO
no.107:21-33 '61. (MIRA 14:10)
(Soil temperature) (Atmospheric temperature)

AYZENSHTAT, B.A.; ANTROPOVA, U.I.; GRACHEVA, V.P.; OGNEVA, T.A.; SEROVA, N.V.

Thermal balance of the active surface. Trudy GGO no. 107:34-43 '61.
(MIRA 14:10)

(Solar radiation)

GORBUNOVA, I.G.; SEROVA, N.V.

Thermophysical characteristics and moisture of soils. Trudy GGO
no.107:44-46 '61. (MIRA 14:10)
(Soils--Thermal properties) (Soil moisture)

SEVOYAN, A.G.; KARAPETYAN, I.O.

Interrelationship among some yeast species. Vop. mikrobiol. no.2.
195-209 '64. (MIRA 18:3)

MARUCHANIAN, Y. I.; SEVOYAN, A. G.; HOVSEPYAN, G. P.; KARAPETIAN, I. C.

Biological characteristics of *Saccharomyces coreanus* var. *armeniensis*
and its practical significance. Izv. AN Arm. SSR. Biol. nauki 18
no.3:3-10 Mr '65. (MIRA 18:5)

1. Institut mikrobiologii AN ArmSSR.

SEVROV, Konstantin Pavlovich, kand. tekhn. nauk, i ts.;
KAZENKITY, A., red.

[Performance of mixers and the method of calculating
their basic parameters for the mixing of mineral mixes
with organic binding materials] Rabota smesitelei i me-
todika rascheta ikh osnovnykh parametrov pri pereme-
shivanii mineral'nykh smesei s organicheskimi v'язhu-
shchimi materialami. Saratov, Saratovskoe knizhnoe iz-
vo, 1962. 177 p. (MIRA 18:1)

SEVROVA, O.K.

Development of induced heat resistance in plants. Trudy TSSBS no.7:
127-135 '64. (MIRA 17:11)

77 1400/11A

137-58-2-3424

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 163 (USSR)

AUTHORS: El'kina, T. P., Gavranek, V. V., Sevruck, B. A., Volobuyev, I. V.

TITLE: Isothermic and Interrupted Quench of Parts Undergoing Gas Cyaniding (Primeneniye izotermicheskoy i stupenchatoy zakalki k detalyam, proshedshim gazovoye tsianirovaniye)

PERIODICAL: Tr. Khar'kovsk. politekhnich. in-ta, 1957, Vol 11, pp 79-81

ABSTRACT: The object of the work was to employ isothermic (I) and interrupted quench (S) to eliminate rejects due to changes in the dimensions of a tractor starter-dog arm made of Nr 20 steel. A bath of the following composition was employed for I and S: 45 percent NaNO_2 and 55 percent KNO_3 , with an m. p. of about 150°C . Eighteen different regimes were tested to select the I and S regime. The results of the quench are adduced as to hardness, warping, and microstructure. It was found that the S of cyanided parts (and the I of martensite) provides them with the required degree of hardness and diminishes warping to tolerable levels. The proposed S for a cyaniding regime is a) gas cyaniding at $850 \pm 10^\circ$; b) immediate quench in a salt bath at $210 \pm 10^\circ$ and holding there for 10-15 min, followed by cooling in water or oil.

A. B.

Card 1/1

1. Steel--Hardening 2. Steel--Heat treatment

VOLOBUYEV, I.V., kand.tekhn.nauk; SEVRUK, B.A., inzh.; TIKHAYA, A.D., inzh.

Investigating causes of cracks in connecting rods and possibilities
of replacing the 45 steel. Trakt. i sel'khoz mash. 30 no.7:35-37
Jl'60.

(MIRA 13:10)

1. Khar'kovskiy traktorny zavod im. Ordzhonikidze i KhPI im.
Lenina.

(Connecting rods)

BRAUN, M.P., doktor tekhn.nauk; VINOKUR, B.B., inzh.; SEVRUK, B.A., inzh.;
EL'KINA, T.P., inzh.; SOKOL, A.N., kand.tekhn.nauk; ZALETSKIY, G.I.,
kand.tekhn.nauk; MIROVSKIY, E.I., inzh.

Replacing the chrome-nickel steel 20KhNZA with the carburizing steel
20KhGSVT. Mashinostroenie no.3:58-62 My-Je '62. (MIRA 15:7)
(Steel alloys--Testing)

L 34557-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(b) MJW/JD

ACCESSION NR: AR5004785

S/0137/64/000/010/1046/1046

SOURCE: Ref. zh. Metallurgiya, Abs. 10I299

AUTHOR: Braun, M. P.; Vinokur, B. B.; Seyruk, B. A.; El'kina, T. P.;
Sokol, A. M.; Zaletskiy, G. I.; Mirovskiy, E. I.

TITLE: Properties of 20KhGSVT non-nickel steel

CITED SOURCE: Sb. Legirovaniye staley. Kiyev, Gostekhnizdat USSR,
1963, 32-40

TOPIC TAGS: metal mechanical property, steel hardening,
temperature dependence, nickel economy, cementation, heat treatment,
20KhGSVT steel, 20KhNZA steel

TRANSLATION: A study of the effect of hardening temperature (880,
930, and 980°) on the mechanical properties of 20KhGSVT cemented
steel (containing in %: 0.2 carbon, 1.26 manganese, 1.09 chromium,
0.87 silicon, 0.82 tungsten, 0.09 titanium) showed that with an
increase in this temperature the strength properties increase while
ductility decreases. Tempering of normalized samples up to 300°

Card 1/2

L 34557-65

ACCESSION NR: AR5004785

leads to practically no change in σ_{ap} , while tempering up to 400° .
 /Translator's note: Word apparently missing here./ σ_{ap} . After
 tempering at temperatures above 400° the strength properties
 decrease while malleability and ductility increase. After hardening
 from 900° and tempering at 500 and 600° a slight tendency towards
 temper brittleness develops. Tempering at 650° leads to a 35%
 decrease in a_k as a result of slow cooling. However, even in the
 brittle state the steel has an a_k equal to $8-9 \text{ kgm/cm}^2$. After
 hardening from 900° and tempering at 600° , a_k is greater than 4
 kgm/cm^2 at -115° . A study of the tendency of 20KhGSVT steel toward
 cementation under various conditions showed that it has more of a
 tendency toward cementation than 20KhNZA steel. It is recommended
 that 20KhGSVT steel be substituted for 20KhNZA steel. I. Tulupova.

SUB CODE: MM

ENCL: 00

Card 2/2

L 29380-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6019795

SOURCE CODE: UR/0286/65/000/004/0032/0032

INVENTOR: Braun, M. P.; Mirovskiy, E. I.; Sevruk, B. A.; Samchenko, V. G.;
El'kina, T. P.

20

B

ORG: none

TITLE: Non-nickel structural steel, Class 18, No 168321

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 32

TOPIC TAGS: structural steel, metal property

ABSTRACT: A non-nickel structural steel with increased physical and mechanical properties is proposed which contains: 0.18-0.24% C, 0.8-1.0% Si, 0.8-1.2% Mn, 0.04% (max) P, 0.04% (max) S, 0.8-1.2% Cr, 0.04-0.06% Ti, and 0.6-0.8% W. Orig. art. has: 1 table. [JPRS]

SUB CODE: 11 / SUBM DATE: none

Card 1/1 CC

UDC: 669.14.018.29

L 9632-66

ACC NR:

AP5027707

EWT(m)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)

MJW/JD/DJ

SOURCE CODE: UR/1029/65/000/011/0024/0026

AUTHOR: Braun, M. P.; Sevruck, B. A.; Mirovskiy, E. I.; Samchenko, V. G.; El'kina, T. P.

ORG: USKhA; Khar'kov Tractor Plant (Khar'kovskiy traktorny zavod)

TITLE: New 20KhGSVT case-hardenable steel

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 11, 1965, 24-26

TOPIC TAGS: case hardening, steel, transmission gear, tensile strength, carburization, tractor / 20KhGSVT steel

ABSTRACT: The article describes the newly developed 20KhGSVT case-hardenable steel (0.23% C, 1.02% Mn, 0.7% Si, 1.0% Cr, 0.9% W, 0.06% Ti) replacing the high-strength 20KhN3A and 20KhGMR chromium-nickel steels as the material of the main and side transmission gears of the T-74 tractor. 20KhGSVT steel is superior to the 20KhN3A and 20KhGMR steels in its mechanical properties (tensile strength 164 kg/mm² compared with 148 and 140 kg/mm², respectively, for the other two steels). It is more resistant to temper brittleness, owing to the presence of W and Ti. Test-rig studies of main and side transmission gears of the T-74 diesel tractor, made of 20KhGSVT steel, showed that this steel can be used to fabricate important work parts of tractors. The gears of 20KhGSVT steel were case-hardened in a solid carburizer. The total time of

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UDC: 669.14.018.46

L 9632-66

ACC NR:

AP5027707

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548220010-8"

case-hardening and subsequent cooling of both gear shafts for 24 hours. Following their case-hardening the gears were oil-quenched from 860°C and tempered at 200°C. On the basis of the results of laboratory and test-rig studies, 750 T-74 tractors were experimentally equipped with side-transmission gears of 20KhGSVT steel. All these tractors have been in operation for more than two years now, without a single instance of breakdown of a tractor owing to poor performance of the side-transmission gears of 20KhGSVT steel. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 000/ OTH REF: 000

Card

2/2

SEVRUK, B.V., inzhener; LESKOV, A.V., inzhener; MARAKHOVSKIY, I.S., inzhener;

Oxygen in the open hearth furnace fuel spray at the Zaporozhstal'
plant. Stal' 15 nc.12:1074-1081 D '55. (MIRA 9:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallur-
gii i zavod "Zaporozhstal".
(Open hearth furnaces)

SEVRUK, B.V., inzhener.

Open-hearth scrap metal process of steel production using oxygen.
Sbor.trud.TSHIICHM no.13:18-37 '56. (MLRA 9:11)

1. Rukovoditel' issledovatel'skoy brigady na zavode "Zaporozhstal'".
(Zaporozh'ye--Open-hearth process)
(Oxygen--Industrial applications)

~~SEVRUK~~ B.V., inzhener; LESKOV, A.V., kandidat ekonomicheskikh nauk;
MARAKHOVSKIY, I.S., inzhener.

Use of oxygen in the current production of the Zaporozhstal'
open-hearth furnace plant. Sbor.trud.TSNIICM no.13:38-55 '56.
(MLBA 9:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metal-
lurgii i "Zaporozhstal'".

(Zaporozh'ye--Open-hearth process)

(Oxygen--Industrial applications)

AUTHOR: Sevruck, I.G. SOV/140-58-4-24/30
 TITLE: On the Uniqueness of the Solution of the Principal Problem of
 the Free Heat Convection of Fluids (O yedinstvennosti resheniya
 osnovnoy zadachi svobodnoy teplovoy konveksii zhidkosti)
 PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1958, Nr 4,
 pp 218-221 (USSR)
 ABSTRACT: According to Landau and Lifshits [Ref 2] the free heat convection
 is described by the system

$$\frac{\partial \mathbf{v}}{\partial t} + (\mathbf{v} \nabla) \mathbf{v} = - \nabla \frac{p}{\rho} + \nu \Delta \mathbf{v} - \beta g T$$

$$\frac{\partial T}{\partial t} + (\mathbf{v} \nabla T) = \chi \Delta T, \quad \operatorname{div} \mathbf{v} = 0.$$

Here $\mathbf{v}$ is the velocity, p is the difference of the pressure from
 the hydrostatic pressure, T is the difference of the temperature
 from a certain mean value T^* , $\rho = \rho(T^*)$ is the density, g is the
 acceleration due to gravity; ν, β, χ are coefficients of the
 kinematic tenacity, thermal expansion, and thermal conductivity.
 The initial conditions are

$$\mathbf{v}_0 = \mathbf{f}(\mathbf{r}), \quad T_0 = \psi(\mathbf{r}),$$

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On the Uniqueness of the Solution of the Principal Problem SOV/140-58-4-24/30
of the Free Heat Convection of Fluids

the boundary conditions are

$$v_s = 0, \quad T_s = \varphi(r, t).$$

According to the method of Dolidze [Ref 1] the author proves the uniqueness of the solution of this problem. The existence is assumed.

There are 2 Soviet references.

ASSOCIATION: Permskiy gosudarstvennyy universitet imeni A.M.Gor'kogo
(Perm' State University imeni A.M.Gor'kiy)

SUBMITTED: February 8, 1958

Card 2/2

AUTHOR: Sevruk, I.G. (Perm') SOV/40-22-3-21/21

TITLE: On the Nonsteady Heat Convection in a Spherical Layer (O nestatsionarnoy teplovey konveksii v sferovom sloye)

PERIODICAL: Prikladnaya matematika i mekhanika, 1958, Vol 22, Nr 3, pp 419-423 (USSR)

ABSTRACT: The author gives an approximate solution of the problem of the weak nonsteady heat convection in a liquid layer which is enclosed between two concentric spherical walls. He assumes that these walls possess a constant temperature. Furthermore it is assumed that in the initial moment the liquid is at rest and possesses a temperature which differs from the temperature of the walls. The course of temperature and the velocity of the liquid is given in zeroth and first approximation in the sense of a decomposition of these values in terms of power series of the Raleigh number. Finally an approximation for the influence of the convection on the rate of cooling of the liquid is given in a similar way. As the result of the paper it can be stated that the non-steady processes within the liquid layer essentially depend on the cooling period of the medium between the spherical

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On the Nonsteady Heat Convection in a Spherical
Layer

SOV/40-22-3-21/21

walls. The solutions show that the heat convection in first approximation possesses no essential influence on the heat transfer of the liquid. The heat transfer is essentially regulated by the molecular thermal conductivity. The author points to the fact that a clear image of the flow could be obtained, if in a transverse symmetry plane the flow lines and the isothermal lines would be represented for different moments. Because of the extensive calculation necessary for the evaluation, however, this was not carried out. The paper contains only general theoretical considerations. There are 4 references, 3 of which are Soviet, and 1 is German.

SUBMITTED: April 25, 1955

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USCOMM-DC-60.848

10(4)

AUTHOR: Sevruk, I.G. (Perm')

SOV/40-22-4-26/26

TITLE: The Laminar Convection Over a Linear Heat Source
(Laminarnaya konvektsiya nad lineynym istochnikom tepla)

PERIODICAL: Prikladnaya matematika i mekhanika, 1958, Vol 22, Nr 4,
pp 573 - 576 (USSR)

ABSTRACT: The author investigates the problem of the stationary heat convection of a liquid over a onedimensional infinite horizontal heat source. The heat radiated by a heat thread causes a nonuniform heating of the surrounding liquid so that a convective motion of the liquid starts by the temperature gradient. At first the liquid flow has the form of a plane ascending ray enlarging with the height. After having obtained a certain height the laminar flow is destroyed, and a transition to the turbulent flow takes place. The author restricts himself to a consideration of the laminar part of this flow and applies the neglects usual in boundary-layer theory. Since the present problem with the strong transverse gradients with respect to temperature and velocity possesses very much similarity with the problems of the boundary-layer theory, such a transfer is absolutely significant.

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