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GORELIK, M. V.: Master Chem Sci (diss) -- "Investigation of the oxy-derivatives of anthracene". Moscow, 1959. 10 pp (Min Higher Educ USSR, Moscow Order of Lenin Chem-Tech Inst im D. I. Mendeleyev), 110 copies (KL, No 9, 1959, 113)

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AUTHORS: Bogdanov, S. V., Gorelik, M. V. SOV/79-29-1-30/74

TITLE: Investigations in the Field of the Oxy-Derivatives of Anthracene (Issledovaniye v oblasti oksiproizvodnykh antra-~~tsena)~~ I. Bisulfite Compounds of the 1-Anthrol and 4-Nitroso-1-Anthrol (I. Bisul'fitnyye soyedineniya 1-antrola i 4-nitrozo-1-antrola)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 136-139 (USSR)

ABSTRACT: The investigation of the properties of the bisulfite compounds of 1-naphthol and 4-nitroso-1-naphthol (Refs 1, 2) made it possible to describe their structure with the formulae (I) and (II). In the present paper the affiliation products of the bisulfite to the 1-anthrol and 4-nitroso-1-anthrol are investigated. This affiliation takes place on the treatment of the 1-anthrol with boiling sodium bisulfite solution (Ref 3). The product $C_{14}H_{10}OH.NaHSO_3.3H_2O$ obtained by the authors is stable in neutral and acid medium but is decomposed into sulfite and 1-anthrol in alkaline medium. In the reaction with hydroxylamine, semicarbazide or phenylhydrazine in acetic acid it is converted accordingly into the oxime, semicarbazone,

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SOV/79-29-1-30/74

Investigations in the Field of the Oxy-Derivatives of Anthracene. I. Bisulfite Compounds of the 1-Anthrol and 4-Nitroso-1-Anthrol

phenylhydrazone of the bisulfite compound of 1-anthrol. This indicates the presence of a carbonyl group and the formula (III) The formulae of the oxime, semicarbazone, phenylhydrazone are presented in the formulae (IV) a, b. The bisulfite compound of 4-nitroso-1-anthrol was obtained by the reaction of 4-nitroso-1-anthrol with dissolved sodium bisulfite in the presence of pyridine. Without pyridine the yield decreased from 82 to 6%. Alkali liquors readily split off a sulfite molecule from the bisulfite compound. With hydroxylamine hydrochloride in the presence of sodium acetate the bisulfite compound of 1,4-anthraquinone dioxime is formed from it. The transition of the bisulfite compound of 4-nitroso-1-anthrol into the bisulfite compound of 1,4-anthraquinone dioxime indicates the affiliation of the bisulfite molecule to the carbon-carbon double bond (V and VI), yet not to the carbonyl group. It may be concluded from these results that the bisulfite compounds of anthrol and of 4-nitroso-1-anthrol resemble by their structure the corresponding derivatives of the naphthalene series. There are 5 references, 4 of which are Soviet.

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Investigations in the Field of the Oxy-Derivatives of Anthracene. I. Bisulfite Compounds of the 1-Anthrol and 4-Nitroso-1-Anthrol SOV/79-29-1-30/74

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (Scientific Research Institute of Organic Intermediate Products and Dyes)

SUBMITTED: November 25, 1957

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

AUTHORS: Bogdanov, S. V., Gorelik, M. V. SOV/79-29-1-31/74

TITLE: Investigation in the Field of the Oxy-Derivatives of Anthracene (Issledovaniye v oblasti oksiproizvodnykh antratsena) II. The Bisulfite Compound of the 1-Nitroso-2-Anthrol (II. Bisul'fitnoye soyedineniye 1-nitrozo-2-antrola)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 140-145 (USSR)

ABSTRACT: As previously shown by Bogdanov (Ref 1), the bisulfite compound of 1-nitroso-2-naphthol is converted by hydroxylamine into the bisulfite compound of the 1,2-naphthoquinone dioxime which, on its part, is capable of different transformations. It suggested itself to synthesize also the bisulfite compound of 1-nitroso-2-anthrol and to investigate whether in the anthracene series also reactions take place which are characteristic of the bisulfite compound of 1-nitroso-2-naphthol and its derivatives. On acidification of the bisulfite solution of 1-nitroso-2-anthrol Fieser obtained the 1-amino-2-anthrol-4-sulfonic acid in small yield (Ref 2), but he did not succeed in separating the bisulfite compound. The authors were able to obtain the bisulfite compound of 1-nitroso-2-anthrol in a 90% yield, by allowing the double quantity of sodium bisulfite to act in 1-nitroso-2-anthrol in the presence.

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of pyridine. This treatment considerably increased the yield, as was previously seen with the 4-nitroso-1-anthrol (Ref 3), and part of the product was separated in the form of a pyridine salt. This bisulfite compound is unstable in alkaline medium only, where it decomposes quantitatively into bisulfite and 1-nitroso-2-anthrol. On the reduction of this compound with sulfurous acid or tin chloride the 1-amino-2-anthrol-4-sulfonic acid is formed, in the reaction with hydroxylamine the bisulfite compound of 1,2-anthraquinone dioxime. The former transformation shows that the sulfo group in the bisulfite compound of 1-nitroso-2-anthrol is in position 4, and the latter indicates the presence of a carbonyl group. On the basis of these facts the structure (I) may be assigned to the bisulfite compound of 1-nitroso-2-anthrol. Compound (II) is converted, according to conditions, in alkaline medium into the 1,2-anthraquinone dioxime (III), the bisulfite compound of 1,2-anthra-(3',4')-furazan (IV) or the 1,2-anthra-(3',4')-furazan (V). The two figures show the absorption spectra of the compounds to be compared. There are 2 figures and

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Investigation in the Field of the Oxy-Derivatives of Anthracene. II. The Bisulfite Compound of the 1-Nitroso-2-Anthrol SOV/79-29-1-31/74

5 references, 2 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (Scientific Research Inst. of Organic Intermediate Products and Dyes)

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AUTHORS: Bogdanov, S. V., Gorelik, M. V. SOV/79-29-1-32/74

TITLE: Investigation in the Field of the Oxy-Derivatives of Anthracene (Issledovaniye v oblasti oksiproizvodnykh antratsena) III. Transformations of the Bisulfite Compounds of 1,2-Anthra-(3',4')-Furoxane (III. Prevrashcheniya bisul'fitnogo soyedineniya 1,2-antra-(3',4')-furoksana)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 146-153 (USSR)

ABSTRACT: The investigations in the series of 1,2-naphtho-(3',4')-furoxane (Ref 1) had proved that in alkaline medium a rearrangement of the bisulfite compound of 1,2-naphtho-(3',4')-furoxane into the 2-nitro-1-naphthylamine-4-sulfonic acid and 1,2-naphthoquinone dioxime-4-sulfonic acid takes place. The similarity of the chemical properties of the bisulfite compounds of the oxy-derivatives of anthracene and naphthalene (Refs 2,3) permits the assumption that the bisulfite compound of 1,2-anthra-(3',4')-furoxane would behave in a similar manner. The experiments really proved that the bisulfite compound of 1,2-anthra-(3',4')-furoxane (I) is transformed in alkaline medium into the 2-nitro-1-anthramine-4-sulfonic acid (II), 1,2-anthraquinone dioxime-4-sulfonic acid (III) and 1,2-anthra-(3',4')-furoxane (IV).

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Investigation in the Field of the Oxy-Derivatives of Anthracene. III. Transformations of the Bisulfite Compounds of 1,2-Anthra-(3',4')-Furoxane

Compound (II) is the main product in the soda medium, (III) in caustic lye medium. Compound (II) is converted on heating with 50% H_2SO_4 into the 2-nitro-1-anthramine, on the action of alkali liquors into the 2-nitro-1-anthrol-4-sulfonic acid (V), on reduction with tin chloride into the 1,2-anthradiamine-4-sulfonic acid. The 1,2-anthraquinone-dioxime-4-sulfonic acid (III) is transformed on oxidation with nitric acid into the 1,2-anthra-(3',4')-furoxane-4-sulfonic acid , with alkaline liquors into the 1,2-anthra-(3',4')-furazan-4-sulfonic acid (VI), and on reduction with tin chloride into the 1,2-anthradiamine-4-sulfonic acid. The scheme illustrates the transformations of the bisulfite compounds of 1,2-anthra-(3',4')-furoxane in alkaline medium. There are 2 figures and 5 references, 3 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley imeni Voroshilova (Scientific Research Institute of Organic Intermediate Products and Dyes imeni Voroshilov)

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Investigation in the Field of the Oxy-Derivatives of Anthracene. III. Transformations of the Bisulfite Compounds of 1,2-Anthra-(3',4')-Furoxane

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SOV/79-29-4-40/77

5(3)

AUTHORS: Bogdanov, S. V., Gorelik, M. V.

TITLE: Investigation in the Field of Oxy Derivatives of Anthracene (Issledovaniye v oblasti oksiproizvodnykh antratsena). IV. 1-Nitroso-2-anthrol-4-sulpho Acid and 2-Nitroso-1-anthrol-4-sulpho Acid (IV. 1-Nitrozo-2-antrol-4-sul'fokislota i 2-nitrozo-1-antrol-4-sul'fokislota)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1225-1229 (USSR)

ABSTRACT: 1-nitroso-2-naphthol-4-sulpho acid differs greatly from the isomeric 2-nitroso-1-naphthol-4-sulpho acid due to the mobility of the sulpho group (Ref 1). It was interesting in this connection to synthesize and examine also the corresponding nitrosoanthrol-sulpho acids. 2-nitroso-1-anthrol-4-sulpho acid (I) was obtained by the authors in different ways: by treating the bisulphite compound of the 1,2-anthraquinonedioxime with hydrochloric acid; through the effect of hydroxylamine and hydrochloric acid on the bisulphite compound of 1-nitroso-2-anthrol; by acid hydrolysis of 1,2-anthraquinonedioxime-4-sulpho acid and by the reaction of 1,2-anthraquinone-4-sulpho acid with hydroxylamine hydrochloride 1-nitroso-2-anthrol-4-sulpho acid (II) was synthesized by di-

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Investigation in the Field of Oxy Derivatives of Anthracene. IV. 1-Nitroso-2-anthrol-4-sulpho Acid and 2-Nitroso-1-anthrol-4-sulpho Acid

azotization of 1-amino-2-anthrol-4-sulpho acid, subsequent elimination of the diazo group and introduction of the nitroso group into 2-anthrol-4-sulpho acid. The structure of the nitroso-anthrolsulpho acids was proved by reduction to the amino compounds and further treatment: nitrosoanthrolsulpho acids form colored complexes with heavy metals and differ greatly from each other with respect to the degree of mobility of the sulpho group. Compound (I) is completely stable in an alkaline medium, does not react with aromatic amines in aqueous solutions, and changes in diluted nitric acid into 2,4-dinitro-1-anthrol. Compound (II) loses the sulpho group when reacting with alkali lye and aromatic amines, and is accordingly transformed into 1-nitroso-2,4-dioxy-anthracene or 4-aryl-1-nitroso-2-anthrol. These properties of the nitrosoanthrolsulpho acids are similar to those of the corresponding compounds of the naphthalene series. There are 1 figure and 4 references, 3 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (Scientific Research Institute of Organic Inter-

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Investigation in the Field of Oxy Derivatives of Anthracene. IV. 1-Nitroso-2-anthrol-4-sulpho Acid and 2-Nitroso-1-anthrol-4-sulpho Acid

mediate Products and Dyes)

SUBMITTED: March 3, 1958

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SOV/79-29-9-9/76

5(3)

AUTHORS: Gorelik, M. V., Rodionov, A. N., Bogdanov, S. V.

TITLE: Investigation in the Field of Anthracene Oxy Derivatives. V. On the Problem of the Structure of Bisulfite Compounds of Nitrose Anthrols

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2852 - 2854 (USSR)

ABSTRACT: In previous reports (Refs 1,2) the bisulfite compounds of 1-nitroso-2-anthrol and 4-nitroso-1-anthrol were ascribed the structural formulas (I) and (II). The complementary data confirming the two formulas were obtained by spectral analysis. Already earlier, the difference shown by the ultraviolet spectra of 1-nitroso-2-anthrol, 1,2-anthraquinone dioxime, 1,2-anthra-(3',4')-furazan, 1,2-anthra-(3',4')furoxan, as compared with the spectra of their bisulfite compounds, had been pointed out (Ref 2). A not lower change in the absorption spectra occurs with the formation of bisulfite compounds of 4-nitroso-1-anthrol (II) and of 1,4-anthraquinone dioxime (III) (Fig 1, Curves 2 and 3; Fig 2, Curves 2 and 3). Formulas (II) and (III) explain the

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spectral change as being due to the saturation of the C-C bond of the quinoid ring in consequence of bisulfite affiliation. To prove this, it was necessary to compare the absorption spectra of 1,4-anthraquinone and 2,3-dihydro-1,4-anthraquinone (IV). The passage of 1,4-anthraquinone (Fig 1, Curve 1) to compound (IV) (Fig 2, Curve 1) was found to be concomitant with an equal change in the absorption curve, the same applying to the formation of bisulfite compounds (II) and (III). The maximum at 265-270 mμ is typical of the system of bonds (IV), wherein two carbonyl groups are conjugate with the aromatic molecular part. In the derivatives of 3,4-dihydro-1,2-anthraquinone, in which a carbonyl group does not participate in the conjugation process, the maximum shifts by 35-40 mμ to the shorter wave range. The infrared spectra of compounds (I) and (II) point to the valency oscillations C-H in the groups CH_2. The same bands are also present in the spectra of the other bisulfite compounds (I-III and V-VII) (Table). The presence of the CH_2 groups in the bisulfite compounds

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Investigation in the Field of Anthracene Oxy Derivatives. SOV/79-29-9-9/76
V. On the Problem of the Structure of Bisulfite Compounds of Nitrose Anthrols

of nitroso anthrols is satisfactorily explained by formulas (I) and (II). Thus, the ultraviolet and infrared spectra of bisulfite compounds confirm the structure that had been earlier suggested for them. There are 2 figures, 1 table, and 5 references, 2 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley imeni Voroshilova (Scientific Research Institute of Organic Intermediates and Dyestuffs imeni Voroshilov). Fiziko-khimicheskiy institut imeni Karpova (Physico-chemical Institute imeni Karpov)

SUBMITTED: July 25, 1958

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GORELIK, M.V.; BOGDANOV, S.V.

Anthracene derivatives. Part 7: Reactivity of 1,2-anthrafurazan and 1,2-anthraselenodiazole. Zhur. ob. khim. 30 no.9:2949-2954 S '60. (MIRA 13:9)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.
(Furazan) (Selenium compounds) (Anthracene)

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GORELIK, M.V.; BOGDANOV, S.V.

Anthracene derivatives. Part 8: Bisulfite compound 1,4-anthraquinone. (MIRA 13:9)
Zhur. ob. khim. 30 no.9:2954-2958 S '60.

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley. (Anthraquinone)

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GORELIK, M.V.; BOGDANOV, S.V.; RODIONOV, A.N.

Interaction of 1,4-naphthoquinone with sodium bisulfite. Zhur. ob. khim. 30 no.9:2959-2964 S '60. (MIRA 13:9)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley i Fiziko-khimicheskiy institut imeni Karpova.
(Naphthoquinone) (Sodium sulfite)

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GORELIK, M.V.; EFROS, L.S.

Anomaly of the spectral color of certain mesophenylbenzoxanthene derivatives. Zhur. ob. khim. 31 no.4:1209-1215 Ap '61. (MIRA 14:4)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta. (Benzoxanthene)

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GORELIK, M.V.; MIKHAYLOVA, T.A.

Nitroso derivatives of 2,6-dihydroxyanthracene and their bisulfite compounds. Zhur. VKHO 7 no.6:700-701 '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.
(Anthradiol)
(Nitroso compounds)

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S/0138/64/000/003/0025/0029

ACCESSION NR: AP4026367

AUTHORS: Fel'dshteyn, M. S.; Gorelik, M. V.

TITLE: N-hexamethylene-2-benzothiazolsulphenamide as an accelerator in the vulcanization of rubber

SOURCE: Kauchuk i rezina, no. 3, 1964, 25-29

TOPIC TAGS: rubber, vulcanization, vulcanization accelerator, N-hexamethylene-2-benzothiazolsulphenamide, sulphenamide BT, sulphenamide TS, structuration, scorching, scorching resistance, butadiene-styrene rubber

ABSTRACT: The effectiveness of N-hexamethylene-2-benzothiazolsulphenamide (HMBTS) as an accelerator in the vulcanization of rubber was tested in comparison with sulphenamides BT and TS. Various compounds on the base of butadiene-styrene rubbers SKS-30 and SKS-30ARM and on natural rubber were vulcanized at 143C and 163C in the presence of 1.1% of accelerator. The resulting products were subjected to physical and mechanical tests. It was found that the use of HMBTS in association with channel carbon black on a SKS-30ARM base at 143C resulted in a vulcanizate possessing slightly higher values of the elongation modulus than the samples with BT and TS. When used on a base of natural rubber with the addition of 2%

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ACCESSION NR: AP4026367

sulfur, the HMBTS-accelerated vulcanizate (produced at 143C) proved superior to the samples containing BT and TS not only in modulus but in strength as well. An increase of the vulcanization temperature to 163C on a natural rubber base reduced somewhat the strength of all the vulcanizates, but here, too, HMBTS was superior. In order to ascertain the formation of C-C bonds during the vulcanization process, tests were performed on compounds on a SKS-30 base, where the resulting products were extracted with chloroform. It was found that the presence of HMBTS caused a higher degree of structuration of the vulcanizate than the BT accelerator, due to the higher reactivity of HMBTS, especially during the main period of vulcanization. Thanks for assistance are given to M. I. Shubina. Orig. art. has: 1 table and 6 charts.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promy*shlennosti (Scientific Research Institute of the Tire Industry); Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (Scientific Research Institute of Organic Intermediate Products and Dyes)

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SUB CODE: CH NO REF SOV: 005 OTHER: 001

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, M.V.; KONONOVA, T.P.; FEL'DSHTEYN, M.S.; URAKOVA, I.S.

Sulfenamides based on hexamethylenimine. Zhur. ob. khim. 34 no. 5:1577-1581 My '64. (MIRA 17:7)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley i Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

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GORELIK, M. V.; MIKHAYLOVA, T. A.

Derivatives of anthracene. Part 9: 6-Hydroxy- and 7-hydroxy-1,2-anthraquinone-1-oximes. Zhur. ob. Khim. 34 no.6:1997-2002 Je '64. (MIRA 17:7)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.

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GORELIK, M.V.

Derivatives of anthracene. Part 10: 1,2,5,6-anthraciquinone-1,5-dioxime and its compounds with sodium bisulfite. Zhur. ob. Khim. 34 no.6:2003-2010 Je '64.

Deravitives of anthracene. Part 11: Rearrangement of 3,4,7,8-tetrahydro-1,2,5,6-anthradifuroxane-4,5-disulfonic acid. Zhur. ob. Khim. 34 no.6:2010-2015 Je '64. (MIRA 17:7)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.

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FEL'DSHTEYN, M.S.; GORELIK, M.V.; BESKINA, I.G.; KONONOVA, T.P.

Comparative study of the vulcanization activity of sulfenamide and bis-sulfenamide derivatives of benzothiazole. Zhur. prikl. khim. 37 no.12:2696-2701 D '64. (MIRA 18:3)

1. Nauchno-issledovatel'skiye instituty shinnoy promyshlennosti i organicheskikh poluproduktov i krasiteley.

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GORELIK, M.V.

Anthracene dirivatives. Part 12: 1,2,5 6-anthradiquinone-4,8-disulfonic acid and 1,2,5,6-anthradiquinone. Zhur.org. khim. 1 no.3:589-595 Mr '65. (MIRA 18:4)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

L 00884-66 EWT(m)/EPF(c)/EWP(j) RM

ACCESSION NR: AP5016634 UR/0138/65/000/006/0008/0012
678.043/.044.004.12

AUTHORS: Fel'dshteyn, M. S.; Gorelik, M. V.; Pevzner, D. M.; Sakhashchik, L. V.

TITLE: 2-(aminodithio)benzthiazoles as agents and accelerators of vulcanization

SOURCE: Kauchuk i rezina, no. 6, 1965, 8-12

TOPIC TAGS: vulcanization, vulcanizate, aminodithiobenzthiazole, catalyst, vulcanized rubber

ABSTRACT: The investigation was undertaken to substantiate the work of J. G. Lichty, J. O. Cole, A. F. Hardman, et al (Ind. Eng. Chem., Prod., 2, 1, 16, 1963) on 2-(morpholinodithio) benzthiazole (I), and to characterize vulcanizing and catalytic properties of 2-(piperidinodithio) benzthiazole (II). The kinetics of vulcanization and the effect of carbon black and sulfur on the vulcanization were determined and compared with the results produced on N,N'-dithiomorpholine (III). It was found that the action of I and II is similar to that of III. The speed and effectiveness of vulcanization of II and III for sulfur-free rubber mixtures are superior to I and to thiuramdisulfides. In sulfur-containing rubber mixtures, 2-(aminodithio)benzthiazoles act as high-efficiency vulcanizing accelerators. In comparison with 2-benzthiazolsulfonamides, the former yield

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L 00834-66

ACCESSION NR: AP5016634

15, 44, 55 15 10

vulcanizates from natural rubber and butadiene-styrene synthetic rubber which have greater tensile strength than the latter. The effect of 2-(morpholinedithio) benzthiazole is inferior to sulfenamide-M but similar to sulfenamide-DT. M. I. Shubina collaborated in the experiments. Orig. art. has: 1 table, 7 graphs, and 3 formulas.

44,55

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute for Rubber Tire Industry); Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasitelay (Scientific Research Institute of Organic Intermediates and Dyes)

44,55

SUBMITTED: 00 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 004 OTHER: 005

Card 2/2 DP

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

RAZUVAYEV, G.A.; STEPOVIK, L.P.; PERVEYEV, F. Ya.; DEMIDOVA, V.M.; ALANIYA, V.P.; SOKOLOV, N.A.; KHARCHENKO, V.G.; KRUPINA, T.I.; KLIMENKO, S.K.; RASSUDOVA, A.A.; GORELIK, M.V.

Letters to the editors. Zhur. org. khim. 1 no. 12:2244-2246 D '65 (MIRA 19:1)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete (for Razuvayev, Stepovik). 2. Leningradskiy gosudarstvennyy universitet (for Perveyev, Demidova). 3. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni Gubkina (for Alaniya, Sokolov). 4. Saratovskiy politekhnicheskiy institut (for Kharchenko, Krupina, Klimenko, Rassudova).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

SHCHEGLOVA, N.A.; SHIGORIN, D.N.; GORELIK, M.V.

Electronic spectra of aromatic α-diketones. Zhur. fiz. khim. 39 no.4:893-901 Ap '65. (MIRA 19:1)

1. Fiziko-khimicheskiy institut imeni Karpova. Submitted Nov. 11, 1963.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

ACC NR: AP7002972 (A) SOURCE CODE: UR/0413/66/000/024/0068/0068

INVENTOR: Peschanskaya, R. Ya.; Gorelik, M. V.; Belova, L. N.; Fel'dshteyn, M. S.

ORG: None

TITLE: A method for sulfur vulcanization of raw rubber. Class 39, No. 189566 [announced by the Scientific Research Institute of Rubber and Latex Products (Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 68

TOPIC TAGS: vulcanization, rubber, sulfur, compound

ABSTRACT: This Author's Certificate introduces a method for sulfur vulcanization of raw rubber in the presence of sulfenamide accelerators. Two increase the scorching resistance of rubber stocks and to produce high-modulus rubber, N-cyclohexyl-N'-(cyclohexamethylenethiocarbamylthio)-2-benzothiazolsulfenamide is used as the sulfenamide accelerator.

SUB CODE: 11/ SUBM DATE: 30Oct65

Card 1/1 UDC: 678.4.044.47

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

ACC NR: AP7005627 SOURCE CODE: UR/0413/67/000/002/0085/0085

INVENTOR: Ful'dshteyn, M.S.; Belova, L.N.; Pevzner, D.M.; Gorelik, M.V.

ORG: none

TITLE: Vulcanization process for natural and synthetic rubber. Class 39, No. 190557 [announced by Scientific Research Institute of the Tire Industry (Nauchno-issledovatel'skiy institut shinnoy promyshlennosti)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 85

TOPIC TAGS: vulcanization, natural rubber, synthetic rubber ~~scorching~~

ABSTRACT:

An Author Certificate has been issued for a process for vulcanizing natural and synthetic rubber in the presence of vulcanization accelerators. To improve the stability of rubber mixtures to scorching, the method provides for the use of N-(2-benzothiazolethio)phthalimide as the accelerator. [BO]

SUB CODE: 11, 13/ SUBM DATE: 01Oct65/ ATD PRESS: 5115

Card 1/1 UDC: 678.4.044.47

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, M.Ya., inzh.

Overhang beam for assembling long reinforced concrete elements beyond the range of the crane arm.[Suggested by M.IA. Gorelik]. Rats. i izobr. predl. v stroi. no. 4:57-59 '57. (MIRA 11:8)
(Cranes, derricks, etc.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

ACC NR: AT6021728 SOURCE CODE: UR/0000/66/000/000/0057/0070

AUTHOR: Gorelik, N. G.; Koloydenko, A. L.; Podol'skiy, T. S.; Sokolov, V. N.; Stukalov, A. M.; Fudim, Ye. V.

ORG: none

TITLE: Design of pneumatic computing and control systems and their application in the automation of synthetic rubber production

SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Pnevmoavtomatika (Pneumatic automation). Moscow, Izd-vo Nauka, 1966, 57-70

TOPIC TAGS: pneumatic control, pneumatic device, automatic pneumatic control, synthetic rubber, rubber working machinery, industrial automation, automatic control equipment

ABSTRACT: Pneumatic control systems used for automated production of synthetic rubber are described. Table 1 summarizes the types, functions, and typical applications of pneumatic devices in manufacturing of rubber. Three examples of specific applications follow. *Process optimization of contact breakdown of alcohol into divinyl.* This process depends on the catalyst activity, the composition of the contact mixture, feed of alcohol vapor, and catalyst temperature. The first two parameters are considered to be random disturbances and the last two, the controlling forces. The quality indicator of the process is the divinyl output for alcohol input. A block diagram of the system is

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

ACC NR: AT6021728

TABLE 1

Type of device	Function	Typical applications
Computing	Processing of primary data	Noise filtering Time delay Linearization Decoding of chromatographic data
	Computation of complex parameters and generation of appropriate signals to control system	Final product output computation Computation of economic indicators Averaging
Control	Control according to a time program of the process parameters	Change of the control system from multi-loop to single loop when a predetermined criterion is reached Automatic ratio correction of two fractions fed when a predetermined criterion is reached

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

ACC NR: AT6021728

TABLE 1 (Continued)

		The selection of a maximum (minimum) signal from a set of *n* signals Gate valve switching in flow lines Control through optimizing systems
	Control in response to quality indicators	Stabilization Optimization

shown in figure 1. The output of controlled process *1* is fed into isothermic condenser *2* where the liquid and gaseous product components are separated to determine the values of divinyl content and the condensate density. Densitometer *4* and chromatograph *3* perform these functions. Decoder *5* decodes the output of the chromatograph to make the divinyl concentration explicit. Calculating system *6* computes the values of quality indicators according to a predetermined formula. Device *7* averages the quality indicator signal with respect to time and thus reduces noise. Limit controller *8* regulates stabilization system *9* and *10* which in turn control the temperature and alcohol feed. The design and performance of pneumatic calculator and the controller are given in detail. *The pneumatic decoder for the DChP-3 Chromatograph* is intended for automa-

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

ACC NR: AT6021728

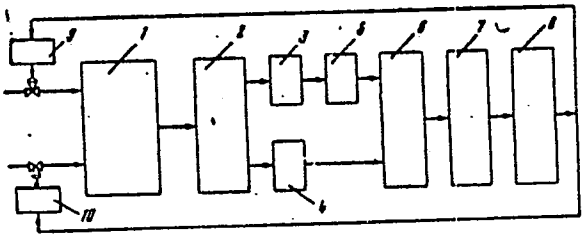

Fig. 1

tic processing of the chromatograph output. The concentration of the component of interest is determined from the partial pressures. The decoder controls the operation of the chromatograph and selects the times at which the desired output is available from it. The operation of this system is described and a block diagram included. *Pneumatic timer.* This is a program timer which controls the individual phases of the process with respect to time. Glass capillaries are used for controlled discharge of air. The timing is controlled by changing the appropriate container volumes (capacitor analogues). The timer system is also reported in detail, including block and timing diagrams. Orig. art. has: 24 formulas, 10 figures, 2 tables.

SUB CODE: 13,11/ SUBM DATE: 03Feb66/ ORIG REF: 004

Card 4/4

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, N.G.; Prinimali uchastiye: CHUKOVENKOV, N.I.; MYAGKOVA, I.V.; BELYKH, G.D.; KONONOVA, L.K.

Method of controlling the process of production of bivinyl from alcohol. Khim. prom. no.4:312-314 Ap '63. (MIRA 16:8)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

L 46659-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) BC

ACC NR: AP6021394 SOURCE CODE: UR/0103/66/000/006/0099/0107

35
33
B

AUTHOR: Gorelik, N. G. (Voronezh)

ORG: none

TITLE: The statistical theory of gradient systems of automatic optimization with one and two test steps and their comparative analysis

SOURCE: Avtomatika i telemekhanika, no. 6, 1966, 99-107

TOPIC TAGS: optimal automatic control, control statistics, statistic analysis

ABSTRACT: Single-dimension automatic optimization systems of the gradient class are considered, which have one and two test steps. It is assumed that the plant input has steady state random interference, described by an auto-correlation function. A further assumption is that there is a slow "drift" of the extremum position along the x axis. Moreover, the presence o "white noise" interference is postulated at the plant output. Methods are proposed for determining the mathematical expectation of a deviation of the output coordinate of the plant from the extremum value in the steady-state mode. Using concrete examples, an analysis is made of optimization systems with one and two test steps. The author expresses his gratitude to

UDC: 62-505.7

Card 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

L 46659-66

ACC NR: AP6021394

2

A. B. Kaplinskiy for assistance given in the performance of this work, and to I. I. Perel'man for useful advice and comments made during a revision of the manuscript. Orig. art. has: 5 figures and 43 formulas.

SUB CODE: 09,12/ SUBM DATE: 11Nov65/ ORIG REF: 005/ OTH REF: 001

Card 2/2 egh

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

L 57769-65 EWP(e)/EWP(k)/EWT(d)/EWP(h)/EWA(d)/EWP(1)/EWP(v) Pf-4/Pg-4/
Pk-4/Pl-4/Po-4/Pq-4 IJP(c) BC

ACCESSION NR: AR5014860 UR/0271/65/000/006/A012/A012
62-5.001.5

56
B

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika. Sv. t., Abs. 6A86

AUTHOR: Gorelek, N.G.; Pluta, V.S.; Fedorova, G.F. 14

TITLE: Defining the optimal settings of controllers in cascade automatic control systems on a simulating assembly 14

CITED SOURCE: Sb. Avtomatiz. khim. proiz-v. Vyp. 3-4. M., 1964, 43-48

TOPIC TAGS: automatic control system, controller setting, cascade system, single loop system

TRANSLATION: A simulating assembly was employed to test the efficiency of cascade and single-loop automatic control systems for objects whose transmission function consists of a pure lag component (numerator) and two aperiodic components with time constants T_1 and T_2. Optimal settin[illegible] nomograms [illegible] minimum were [illegible] single-loop layout [illegible]

Card 1/2

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L 57769-65

ACCESSION NR: AR5014860

layout for PI-P-controllers. The author's recommendations are illustrated for the case of selecting setting parameters for single- and double-loop systems of automatic control of temperature stabilization in a reactor during ether hydration to alcohol, using pneumatic controllers of the MAUS type. M. L.

SUB CODE: IE ENCL: 00

Card 2/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

CA GORELIK, N.M.

Emulsions in woolen cloth production. N. M. Gorelik. *Tekstil. Prom.* **1949**, No. 3, 32-3.—The prepn. of an emulsion contg. 12% of solar oil, 3% of oleic acid, 2% of $N[(CH_2)_2OH]_3$, 1.1% of aq. NH_3, and 81.9% of H_2O is described. Its behavior in carding, spinning, scouring, and dyeing wool cuprammonium staple blends is better, and its stability greater, than of a similar oil without $N[(CH_2)_2OH]_3$. B. A.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, O. S.

"Significance of Sulfasol Concentration in the Blood During Treatment of Pneumonia in Small Children." Thesis for degree of Cand. Medical Sci. Sub 30 Oct 50, First Moscow Order of Lenin Medical Inst.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, R.B.; KLEPIKOV, N.P.; YUDIN, V.A.

Unitary description of reactions with the formation of several nonrelativistic particles. IAd. fiz. 1 no.1:152-159 Ja '65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, R.Ya.

119-1-10/13

AUTHORS: Gorelik, R. Ya., Elyukim, S. B.

TITLE: Piston Pressure Gauge With Automatic Load Shifts (Porshnevoy manometr s avtomaticheskoy smenoy gruzov).

PERIODICAL: Priborostroyeniye, 1958, Nr 1, pp. 29-29 (USSR)

ABSTRACT: The characteristic feature of this pressure gauge consists in a stepwise arranged headpiece which is rigidly connected to the piston. When moving upward the load is taken up stepwise. In the moment when the load on the piston does no longer touch the body of the pressure gauge a constant pressure establishes itself in the whole measuring system which is equal to the weight of the load plus piston divided by the effective surface on which the load is placed. At this moment the measurement is performed.
Together with the piston pressure gauge there are connected 2 signal pressure gauges, 2 relays, 2 magnetic valves and a pressure equalizing reservoir, and they are on the one side connected with the compressed air distribution system and on the other side with a 220 V and 27 V system, This represents the total measurement system.

Card 1/2

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

MOROZOV, N., kand.tekhn.nauk; LAGUN, I., inzh.; GORELIK, S., inzh.

Using assembly-line methods in making vibrated brick panels. Stroitel' no.1:22 Ja '60. (MIRA 13:5)
(Assembly-line methods) (Building blocks)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; GORDON, A.; GORELIK, S., glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A., tekhred.

[100-ton tower silo (brick walls)] Silosnaia bashnia na 100 tonn (steny kirpichnye). Proekt no.01.2. Minsk, Gos.izd-vo BSSR, Red. nauchno-tekhn.lit-ry, 1955. 3 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva. 2. Direktor "Belsel'proyekta" (for Afanas'yev). 3. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon). 4. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov). 5. "Belsel'proyekt" (for Sil'nov, Gorelik).
(Silos)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; GORDON, A.; GORELIK, S., glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A., tekhred.

[Low 200-ton tower silo (brick walls)] Silosnaia polubashnia na 200 tonn (steny kirpichnye). Proekt no.009. Minsk, Gos.izd-vo BSSR, Red.nauchno-tekhn.lit-ry, 1955. 3 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva. 2. Direktor "Belsel'proyekta" (for Afanas'yev). 3. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon). 4. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov). 5. "Belsel'proyekt" (for Sil'nov, Gorelik).
(Silos)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

AFANAS'YEV, N.; SIL'NOV, V., glavnyy insh.; SHCHELKOV, O.; GORDON, A.; GORELIK, S., glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A., tekhred.

[Tower silos with 35 to 40 ton capacity made of precast reinforced concrete rings. Plan No.006] Silosnaia polubashnia na 35-40 tonn iz sbornykh zhelezobetonnykh kolets. Proekt no.006. Minsk, Gos. izd-vo BSSR, Red.nauchno-tekhn.lit-ry, 1955. 3 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva. 2. Direktor "Belsel'proyekta" (for Afanas'yev). 3. Nachal'nik proyektnogo otdela "Belsel'proyekta" (for Shchelkov). 4. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon). 5. Ispoln.obyazan. nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov). 6. "Belsel'proyekt" (for Sil'nov, Gorelik). (Silos) (Precast concrete construction)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; SHCHELKOV, O.; GORDON, A.; GORELIK, S., glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A., tekhred.

[Pit silos of 50 ton capacity; brick, rubble, and stick-reinforced clay walls. Plan No.008] Silosnye iamy na 50 tonn; steny kirpichnye, butovye i glinopletnevye. Proekt no.008. Minsk, Gos.izd-vo BSSR, Red.nauchno-tekhn.lit-ry, 1955. 3 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva. 2. Direktor "Belsel'proyekta" (for Afanas'yev). 3. Nachal'nik proyektnogo otdela "Belsel'proyekta" (for Shchelkov). 4. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon). 5. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov). 6. "Belsel'proyekt" (for Sil'nov, Gorelik).
(Silos)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; SHCHELKOV, O.; GORDON, A.; GORELIK, S., glavnyy konstruktor; SOKOLOV, Ya.; THUKHANOVA, A., tekhred.

[Pit silos with a capacity of 12 and 19 tons made of precast reinforced concrete rings for siloing corn cobs. Plan No.007] Silosnye iamy emkost'iu 12 i 19 tonn iz sbornykh zhelezobetonnykh kolets dlia silosovaniia pochatkov kukuruzy. Proekt no.007. Minsk, Gos.izd-vo BSSR, Red.nauchno-tekhn.lit-ry, 1955. 4 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva. 2. Direktor "Belsel'proyekta" (for Afanas'yev). 3. Nachal'nik proyektnogo otdela "Belsel'proyekta" (for Shchelkov). 4. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon). 5. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov). 6. "Belsel'proyekt" (for Sil'nov, Gorelik).
(Silos) (Precast concrete construction)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; GORDON, A.; GORELIK, S., glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A., tekhred.

[100-ton tower silo (rubblestone walls)] Silosnaia bashnia na 100 tonn (steny butovye). Proekt no.013. Minsk, Gos.izd-vo BSSR, Red.nauchno-tekhn.lit-ry, 1955. 4 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva. 2. Direktor "Belsel'proyekta" (for Afanas'yev). 3. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon). 4. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov). 5. "Belsel'proyekt" (for Sil'nov, Gorelik).
(Silos)

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AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; SHCHELKOV, O.; GORDON, A.; GORELIK, S., glavnyy konstruktor; SOKOLOV, Ya.; TRUKHANOVA, A., tekhred.

[Combined silo and water tank; capacity of silo - 100 and 150 tons, of water tank - 15 and 20 cubic meters. Plan No.005] Silosnaia bashnia s vodonapornym bakom emkost'iu bashni 100 i 150 tonn i baka 15 i 20 kub.metrov. Proekt no.005. Minsk, Gos.izd-vo BSSR, Red. nauchno-tekhn.lit-ry, 1955. 16 p. (MIRA 12:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva. 2. Direktor "Belsel'proyekta" (for Afanas'yev). 3. Nachal'nik proyektnogo otdela "Belsel'proyekta" (for Shchelkov). 4. Rukovoditel' masterskoy No.1 "Belsel'proyekta" (for Gordon). 5. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov). 6. "Belsel'proyekt" (for Sil'nov, Gorelik).
(Silos) (Tanks)

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GORELIK, SAMUIL ABRAMOVICH

752.21
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STATISTIKA (STATISTICS) POD RED. P. P. MASLOVA. LENINGRAD, KOIZ, 19 -
V. GRAPHS, TABLES.
INCLUDES BIBLIOGRAPHIES.
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PODGORODETSKIY, Ivan Aleksandrovich; RAZGOVOROV, Aleksandr Vasil'yevich; GORELIK, S.A., otv. red.; KAZ'MINA, R.A., red.; SLUTSKIN, A.A., tekhn. red.

[Telecommunication statistics]Statistika sviazi. Moskva, Sviaz'-izdat, 1962. 326 p. (MIRA 15:11)
(Telecommunication—Statistics)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

AVIROM, S.M., kand. tekhn.nauk, nauchn. sotr.; GLOTSER, L.M., kand. tekhn.nauk, nauchn. sotr.; GORELIK, S.A., kand. tekhn. nauk, nauchn. sotr.; LEYTES, L.G., kand. tekhn. nauk, nauchn. sotr.; PLATONOVA, Ye.I., nauchn. sotr.; UGRINOVA, N.V., kand. tekhn. nauk, nauchn. sotr.; Primyali uchastiye:ZOTOV, V.A., nauchn. sotr.; FILATOVA, M.V., nauchn. sotr.; NIKITIN, G.N., nauchn. sotr.; ROMASHOV, A.I.; GODINER, F.Ye., red.

[Recovery and use of secondary wool in consumers' goods] Poluchenie i primenenie vtorichnoi shersti v izdeliiakh narodnogo potrebleniia. [By] S.M.Avirom i dr. Moskva, Izd-vo "Legkaia industriia," 1964. 260 p. (MIRA 17:5)

1. Nachal'nik pryadil'nogo tsekha Pushkinskoy fabriki No.13 (for Romashov).

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S.B., inzhener.

Modernization of milling machines used in semiautomatic milling of cam clutches. Mashinostroitel' no.6:8-9 Je '57. (MLRA 10:7)

1. Minskiy motovelozavod.
(Milling machines)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

2

CA

Water-gas generation in coke ovens. S. B. Gorelik. *Coke and Chem.* (U. S. S. R.) 1932, No. 9, 24-8. A summary of results obtained by admitting steam into the coke ovens as reported by several European gas producers. Admission of steam by means of nozzles and pipes at different points is discussed. Adoption of this practice in the U. S. S. R. gas industry to increase their capacity is urged. No preference is made as to the method of steam admission most suitable for U. S. S. R. gas plants.

James Sorrel

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

PRODUCTION OF PITCH COKE. S. Gorelik. (Koks i Khimiya, 1939, No. 4-5, pp. 42-43). (In Russian). Some details are given of the operations and experience at the Staro-Makoevskiy plant. The pitch used for making coke has a softening temperature of 65-75° C., 65-75% of volatile matter, 25% of free carbon and a specific gravity of 1·265-1·285. The yield from the coking furnaces operated at 950-1000°C. consists of coke 65%, tar 25% and gas 10%. The coke obtained contains 0·51% of sulphur, 4·72% of moisture, 0·65% of volatile matter and 0·24% of ash. The fireclay linings of the retorts were attacked by the molten pitch and have recently been replaced by linings of denser semi-acid bricks.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

F

010. SEPARATION OF ANTHRACENE FROM PHENANTHRACENE.
Gorelik S B and Taicher M M (Russ. P. 58, 326/1940;
Che,. Abst. 1944, 38, 5847).

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GOMELIK, S.B.; GELIS, M.Kh.

Operation of a producer station at the Moscow Coke-Oven Gas Plant. Koks i khim. no.3:36-40 '56. (MLRA 9:8)

1. Moskovskiy koksogazovyy zavod.
(Moscow--Gas producers)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S.B.

Automatic leveling of producer-gas pressure while turning coke oven valves. Biul. TSNIICHM no. 9:46 '58. (MIRA 11:7)

1. Moskovskiy koksogazovyy zavod.
(Coke ovens)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

LAGUN, I.I.; NEKRASOV, K.S.; GORELIK, S.G.; KOMAROVSKIY, A.N., doktor tekhn. nauk, prof., nauchnyy red.; YUDINA, L.A., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Vibrated brick panels in housing construction] Vibrokirpichnye paneli v zhilishchnom stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 138 p. (MIRA 14:6)
(Brick houses)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

S.A. GORELIK, S.I.

Electric Conduction

Sect. A

537.311.31

8107. Electron conductivity in polycrystalline sintered titanium dioxide. S. I. Gorelik, Zh. Eksper. Teor. Fiz., 21, 826-32 (No. 7, 1951) in Russian.

Transverse magnetic field decreases electric conductivity in pure sintered TiO_2 and in TiO_2 with admixtures of CaO, SrO, BaO, MgO and $BaTiO_3$. Concentration of CaO and SrO influences electric conductivity of TiO_2. Transverse magnetic field does not change the magnitude of electric conductivity instantaneously to a steady value. Increase in temperature decreases this inertia. Samples showing increased polarization and losses in low-frequency alternating electric field have higher electric conductivity and lower dissociation energy. J. LUKASIEWICZ

Dnepropetrovsk State Univ.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

S.A.

Sect. A

Electricity

Electrostatics · Dielectrics

537.226.2

3889. High-voltage polarization in polycrystalline sintered titanium dioxide. E. I. GORELIK AND V. E. TOLSTOI. *Zh. Eksper. Teor. Fiz.*, 21, 833-9 (No. 7, 1951) *In Russian.*

Relationship between temperature and electric field of high-voltage polarization, also initial and final electric conductivities, were investigated in TiO_2 with admixtures of CaO and BaO. Deviation from Ohm's law of final values of electric conductivity is due to lack of polarization e.m.f. In the range of fields 1-16 kV/cm initial conductivity follows Ohm's law. Samples have shown the high-voltage polarization to approach external stresses.

J. LUKASIEWICZ

Dnepropetrovsk State Univ.

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S. I.

GORELIK, S. I. and YAKUNIN, A. YA.

"Temperature Dependence of Capacity of Cuprous Oxide and Selenium Rectifiers", Nauch. Zap. Dnepropetrovskogo Gos. Univ., 41, 1953, pp 13-21.

Assumption is made that the stopping layer in cuprous oxide and selenium depends on the contact of the electron and hole zones. It was expected that the thickness of the stopping zone will decrease with rising temperature and that the capacity of the rectifier will increase in both the stopping and the conducting directions. Results of measurements confirmed these assumptions. (RZhFiz, No 1, 1955) SO: Sum. No. 443, 5 Apr. 55

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S.I., inzhener; GUZOVICH, G.A., inzhener; POLLAK, S.V., inzhener; HOYTIK, A.M., inzhener.

Shortening the distances of control cables in large hydroelectric power stations. Elek.sta. 28 no.8:37-38 Ag '57. (MIRA 10:10)
(Hydroelectric power stations)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

S/139/62/000/006/018/032
E194/E155

AUTHORS: Gorelik, S.I., and Kanevskiy, V.P.

TITLE: The influence of pressure on the resistance and capacitance of plates of selenium and copper oxide rectifiers

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no.6, 1962, 121-124

TEXT: Semiconductor rectification occurs in the very thin barrier layer, which is of very high impedance. Pressures not exceeding the elastic limit, i.e. up to 200 atm, were applied to selenium and copper oxide rectifiers and the resistance and capacitance were determined by the bridge method in the blocking or reverse direction. An increase in pressure from 20 to 180 atm causes a steady decrease in resistance of about 15%, whilst the capacitance increases by about 5% for an increase from 1 to 200 atm. The effects observed cannot be accounted for by reduction in the energy of activation, which must be quite small with the pressures used; they are accordingly mainly attributed to reduction in the thickness of the barrier layer. Under steady-state

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conditions the magnitude of the contact field stress acting on the barrier layer governs the degree of its polarisation. Compressing the barrier layer alters the contact field stress and hence the polarisation and permittivity. Thus the change in capacitance under compression is probably due both to the change in thickness of the barrier layer and to change in the permittivity.
There are 4 figures.

ASSOCIATION: Belorusskiy institut inzhenerov zheleznodorozhnogo transporta
(Byelorussian Institute of Railway Transport Engineers)

SUBMITTED: November 15, 1961

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELOV, S.K.

Conference on using geomorphological methods in prospecting for new gas and oil deposits. Izv. AN SSSR Ser. geog. no.1:134-139 Ja-F '65. (MIRA 18:2)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S.L.

35520. Variant kulisnogo razreza pri opratsiyakh no slepoy kishke i cherveobraznom otrostke. Vracheb. Delo, 1949, No. 11, stb. 1011-12.

Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S.L.

Nikolai Alekseevich Bogoraz. Khirurgiia, Moskva no.4:3-6 Ap '50. (CIML 19:2)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S.L.

Certain variations of osteoplasty. Khirurgiia, Moskva no.4: 37-40 Ap '50. (CLML 19:2)

1. Of the Faculty Surgical Clinic (Director -- Honored Worker in Science -- Prof. N.A.Bogoraz), Second Moscow Medical Institute imeni I.V.Stalin and of the Surgical Division of the Second Clinical Municipal Hospital (Head Physician -- F.P.Sokolov).

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

SOBOLEV, I.I. [deceased]; VOROBTSOV, V.I.; GORELIK, S.L., redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Urological diseases requiring immediate surgery] Neotloshnaia khirurgicheskaia urologiia. Moskva, Gos. izd-vo meditsinskoy lit-ry, 1954. 162 p. (MLRA 7:10)
(Genitourinary organs--Diseases)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

SILAYEVA, Anna Stepanovna,; GORELIK, S.L., red.; YEVDOKIMOVA, E.N., tekhn. red.

[Free full-thickness skin grafting in reconstructive surgery] Svobodnaia peresadka tolstykh loskutov kozhi pri vosstanovitel'nykh operatsiiakh. Moskva, Gos. izd-vo med. lit-ry, 1955. 105 p. (MIRA 11:11)

(SKIN GRAFTING)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

KOCHERGIN, I.G., professor, otvetstvennyy redaktor; LEVIT, V.S., professor, zasluzhennyy deyatel' nauki, redaktor; PETROVSKIY, B.V., professor, redaktor; PRIOROV, N.N., professor, redaktor; RUFANOV, I.G., professor, redaktor; STRUCHKOV, V.I., professor, redaktor; GORELIK, S.L., dotsent, redaktor; SENCHILO, N.K., tekhnicheskiy redaktor

[Preceedings of the 26th All-Union Congress of Surgeons, held at Moscow January 20-29, 1955] Trudy XXVI Vsesoiuznogo s"ezda khirurgov. 20-29 ianvaria 1955 g. Moskva, Gos. izd-vo med. lit-ry, 1956. 703 p. (MLRA 9:9)

1. Vsesoyuznyy s"yezd khirurgov. 26th, Moscow, 1955. 2. Chlen-korrespondent AMN SSSR (for Kochergin, Petrovskiy, Priorov) 3. Deystvitel'nyy chlen AMN SSSR (for Rufanov)
(MOSCOW--SURGERY--CONGRESSES)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

KAPLAN, Aron Vul'fovich, doktor med.nauk; GORELIK, S.L., red.; GLUKHOVEDOVA, G.A., tekhn.red.

[Closed injuries of the bones and joints; with accompanying injuries of the internal organs] Zakrytye povrezhdeniia kostei i sustavov; i soputstvuiushchie povrezhdeniia vnutrennikh organov. Moskva, Ges.izd-vo med.lit-ry, 1956. 418 p. (MIRA 13:6)

(BONES--WOUNDS AND INJURIES)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S.L.

GORELIK, S.L., dotsent

Choice of surgery in cryptorchism. Urologiia 22 no.5:53-59 S-O '57. (MIRA 10:12)

1. Iz khirurgicheskogo otdeleniya (nauchnyy rukovoditel' - dotsent S.L.Gorelik) bol'nitsy No.28 v Moskve (glavnyy vrach M.A.Pastukhova)

(CRYPTORCHIDISM, surg.
method, choice)

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EXCERPTA MEDICA Sec 6 Vol 13/11 Internal Med. Nov 59

6647. HASHIMOTO'S GOITRE (THYROIDITIS) (Russian text) - Gorelik S. L. and Likhten M. Ya. Surg. Dept., Moscow City Hosp. No 28, Moscow - NOV. KHIR. ARKH. 1958, 3 (67-72)

Hashimoto's goitre occurs predominantly in women. The symptoms are derived from functional disturbances of the thyroid gland, either as hypo- or hyperfunction. The treatment is operative, followed by roentgen radiation. I^{131} is not valuable for the diagnosis.

Dvorák - Brno (VI, 9)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S.L., dots., TITOVA, A.K.

Selection of a surgical method for inguinal hernia. Sov.med. 22 no. 4:91-96 Ap '58 (MIRA 11:7)

1. Iz khirurgicheskogo otdeleniya bol'nitsy No.28 Moskvy (glavnyy vrach M.A. Pastukhova).
(HERNIA, INGUINAL, surg.
techincs (Rus))

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

GORELIK, S.L., dots.; LIKHTEN, M.Ya.

Pheochromoblastoma of the adrenals. Khirurgiia 35 no.7:103-106 Jl '59. (MIRA 12:12)

1. Iz khirurgicheskogo otdeleniya bol'nitsy No.28 (glavnyy vrach M.A. Pastukhova), Moskva.
(ADRENAL GLANDS--CANCER)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

KRAKOVSKIY, Nikolay Ivanovich; GRITSMAN, Yuriy Yakovlevich; GORELIK, S.L., red.; LYUDKOVSKAYA, N.I., tekhn.red.

[Mistakes in surgical practice and ways of preventing them] Oshibki v khirurgicheskoi praktike i puti k ikh preduprezhdeniiu. Moskva, Gos.izd-vo med.lit-ry Medgiz, 1959. 209 p. (MIRA 14:2)

(SURGERY)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

FAYERMAN, I.L., prof., red.; GORELIK, S.L., red.; ZUYEVA, N.K., tekhn.red.

[Medical expert testimony in determining work fitness in surgical diseases] Vrachebno-trudovaia ekspertiza pri khirurgicheskikh zabolevaniiakh. Moskva, Gos.izd-vo med.lit-ry, 1961. 382 p. (MIRA 14:4)

(DISABILITY EVALUATION)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516130007-8

BAKULEV, A.N., akad.; BLOKHIN, N.N.; BOGUSH, L.K.; VELIKORETSKIY, A.N., prof.; VOZNESENSKIY, V.P., prof., zasl. deyatel' nauki [deceased]; GULYAYEV, A.V., prof.; DANILOV, I.V., prof.; DUBOV, M.D., doktor med. nauk; KAZANSKIY, V.I., prof.; LIMBERG, A.A.; LINBERG, B.E., zasl. deyatel' nauki, prof.; MEDVEDEV, I.A., dots.; MESHALKIN, Ye.N., prof.; MIRONOVICH, N.I., doktor med. nauk; NIKOLAYEV, O.V., prof.; NIFONTOV, B.V., doktor med. nauk; PETROVSKIY, B.V.; PRIOROV, N.N.[deceased]; RIKHTER, G.A., prof.; ROVNOV, A.S., prof.; RUFANOV, I.G.; STRUCHKOV, V.I.; SHRAYBER, M.I., doktor med. nauk; GORELIK, S.L., dots., red.; YELANSKIY, N.N., red.; SALISHCHEV, V.E., zasl. deyatel' nauki, prof.[deceased]; RYBUSHKIN, I.N., red.; BUL'DYAYEV, N.A., tekhn. red.

[Surgeon's reference book in two volumes] Spravochnik khirurga v dvukh tomakh. Pod obshchei red. A.N.Velikoretskogo i dr. Moskva, Medgiz. Vol.1. 1961. 564 p. (MIRA 14:12)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Blokhin, Petrovskiy, Priorov, Rufanov, Limberg). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Bogush, Struchkov, Yelanskiy).
(SURGERY)

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ABRAMYAN, A.Ya., prof.; BUSALOV, A.A., prof.; VELIKORETSKIY, A.N., prof.; GROZDOV, D.M., prof.; DORMIDONTOVA, K.V., dots.; ZHMAKIN, K.N., prof.; KORNEV, P.G.; LEVIT, V.S.prof. [deceased]; LIKHACHEV, A.G., prof.; LOBACHEV, S.V., prof.; MOLODAYA, Ye.K., prof.; PETROV, B.A.; PRIOROV, N.N.[deceased]; SALISHCHEV, V.E., prof. [deceased]; SAPOZHKOV, P.I., prof. [deceased]; TERNOVSKIY, S.D. [deceased]; FAYERMAN, I.L., prof., zasl. deyatel' nauki; CHAKLIN, V.D.; CHENTSOV, A.G., prof. [deceased]; CHERNAVSKIY, V., prof.; SHADURSKIY, K.S., prof.; SHAKHBAZYAN, Ye.S., prof.; VELIKORETSKIY, A.N., prof., red.; GORELIK, S.L., dots., red.; YELANSKIY, N.N., red.; STRUCHKOVA, V.I., red.; RYBUSHKIN, I.N., red.; BUL'DYAYEV, N.A., tekhn. red.

[Surgeon's manual in two volumes] Spravochnik khirurga v dvukh tomakh. Moskva, Medgiz. Vol.2. 1961. 642 p. (MIRA 17:4)

1. Chlen-korrespondent AMN SSSR (for Yelanskiy, Struchkova, Petrov, Ternovskiy, Chaklin). 2. Deystvitel'nyy chlen AMN SSSR (for Kornev, Priorov).

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DEKHTYAR', Yevgeniya Grigor'yevna; GORELIK, S.I., red.

[Acute appendicitis in women] Ostryi appendisit u zhenshchin. Moskva, Meditsina, 1965. 192 p. (MIRA 18:2)

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GORELIK, S.L., dotsent

"Ankylosing spondyloarthritis (Clinical aspects and work capacity of patients" by N.L.Gladyrevskii. Reviewed by S.L.Gorelik. Sov. med. 25 no.3:151-152 Mr '61. (MIRA 14:3)
(SPINE—DISEASES) (GLADYREVSKII, N.L.)

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BARKOVSKIY, Vladimir Filippovich; GORELIK, Solomon Moiseyevich; GORODENTSEVA, Tat'yana Borisovna; ALAVERDOV, Ya.G., red.; GOROKHOVA, S.S., tekhn. red.

[Laboratory work in the physicochemical methods of analysis] Praktikum po fiziko-khimicheskim metodam analiza. Moskva, Izd-vo "Vysshaia shkola," 1963. 349 p. (MIRA 17:4)

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GORELIK, S. S.

21782 PROKOSHKIN, D. A. i GORELIK, S. S.

Legirovaniye uglerodistoy stali svintsom dlya Uluchsheniya obrabatyvayemosti. Sbornik (Mosk. in - t stali im. Stalina), 28, 1949, s. 232-45.

SO: Letopis, Zhurnal'nykh Statey, No. 29, Moskva, 1949

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GORELIK, S. S.

B. T. R.
June 1954
Coatin s

7773 **Micrographic Analysis of Ferroalloys and Alloy Steels by Heat Tinting.** S. S. Gorelik and B. G. Livshits. *Henry Brutcher, Altadena, Calif., Translation no.* 3193, 6 p. (From *Zavodskaya Laboratoriya*, v. 16, no. 5, 1950, p. 578-580.)

Relationship between dissociation pressure of oxide and thickness of oxide film formed by atmospheric O at increased temperatures. Micrographs. 6 ref.

Moscow Steel Inst. im. I. V. Stalin

Describes method of thermal coloration in applicationto ferroalloys and alloy steels based on intensive oxidation of metals at high temperatures with formation of oxide films which are usually detected on metals as temper colors. Intensity of forming and thickening of films and, consequently, coloring depends on dissociation elasticity of oxide of given metal or compound and on rate of oxygen diffusion into metal through film and diffusion of metal atoms to film surface.

PA 160T74

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GORELIK, S. S.

Jun 50

USSR/Metals-Austenite
Chemistry-Analysis

"Method for Chemical Separation of Iron Niobide from Austenitic Steel," A. M. Dymov, S. S. Gorelik, Moscow Inst of Steel imieni I. V. Stalin

"Zavod Lab" Vol XVI, No 6, pp 648-650

Suggests method developed using chrome-nickel-molybdenum austentic steel with niobium content 16-20 times greater than carbon content. Such steels, according to technical literature, consist of two phases: austenite and niobium carbide. Establishes by thermal coloring etching the presence of third phase. Describes procedure for identification of unknown phase as iron niobide and method for its separation. Method may be used only for qualitative determination.

PA 163T50

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GORELIK, S.S.

AL'TGAUZEN, O.N., kandidat fiziko-matematicheskikh nauk; BERNSHTEYN, M.L., kandidat tekhnicheskikh nauk; BLANTER, M.Ye., doktor tekhnicheskikh nauk; BOKSHTEYN, S.Z., doktor tekhnicheskikh nauk; BOLKHOVITINOVA, Ye.N., kandidat tekhnicheskikh nauk; BORZDYKA, A.M., doktor tekhnicheskikh nauk; BUNIN, K.P., doktor tekhnicheskikh nauk; VINOGRAD, M.I., kandidat tekhnicheskikh nauk; VOLOVIK, B.Ye., doktor tekhnicheskikh nauk [deceased]; GAMOV, M.I., inzhener; GELLER, Yu.A., doktor tekhnicheskikh nauk; GORELIK, S.S., kandidat tekhnicheskikh nauk; GOL'DENBERG, A.A., kandidat tekhnicheskikh nauk; GOTLIB, L.I., kandidat tekhnicheskikh nauk; GRIGOROVICH, V.K., kandidat tekhnicheskikh nauk; GULYAYEV, B.B., doktor tekhnicheskikh nauk; DOVGALEVSKIY, Ya.M., kandidat tekhnicheskikh nauk; DUDOVTSEV, P.A., kandidat tekhnicheskikh nauk; KIPNIS, S.Kh., inzhener; KIDIN, I.N., doktor tekhnicheskikh nauk; KORITSKIY, V.G., kandidat tekhnicheskikh nauk; LANDA, A.F., doktor tekhnicheskikh nauk; LEYKIN, I.M., kandidat tekhnicheskikh nauk; L'VOV, M.A., kandidat tekhnicheskikh nauk; LIVSHITS, L.S., kandidat tekhnicheskikh nauk; MALYSHEV, K.A., kandidat tekhnicheskikh nauk; MINKEVICH, A.N., kandidat tekhnicheskikh nauk; MEYERSON, G.A., doktor tekhnicheskikh nauk; MOROZ, L.S., doktor tekhnicheskikh nauk; NAKHIMOV, A.M., inzhener; NATANSON, A.K., kandidat tekhnicheskikh nauk; NAKHIMOV, D.M., kandidat tekhnicheskikh nauk; POGODIN-ALEKSEYEV, G.I., doktor tekhnicheskikh nauk; POPOVA, N.M., kandidat tekhnicheskikh nauk; POPOV, A.A., kandidat tekhnicheskikh nauk; RAKHSHTADT, A.G., kandidat tekhnicheskikh nauk; ROGEL'BERG, I.L., kandidat tekhnicheskikh nauk;

(Continued on next card)

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AL'TGAUZEN, O.N.---- (continued) Card 2.
SADOVSKIY, V.D., doktor tekhnicheskikh nauk; SALTYKOV, S.A., inzhener; SOBOLEV, N.D., kandidat tekhnicheskikh nauk; SOLODIKHIN, A.G., kandidat tekhnicheskikh nauk; UMANSKIY, Ya.S., kandidat tekhnicheskikh nauk; UTEVSKIY, L.M., kandidat tekhnicheskikh nauk; FRIDMAN, Ya.B., doktor tekhnicheskikh nauk; KHIMYSHIN, F.F., kandidat tekhnicheskikh nauk; KHRUSHCHEV, M.M., doktor tekhnicheskikh nauk; CHERNASHKIN, V.G., kandidat tekhnicheskikh nauk; SHAPIRO, M.M., inzhener; SHKOL'NIK, L.M., kandidat tekhnicheskikh nauk; SHRAYBER, D.S., kandidat tekhnicheskikh nauk; SHCHAPOV, N.P., doktor tekhnicheskikh nauk; GUDTSOV , N.T., akademik, redaktor; GORODIN, A.M. redaktor izdatel'stva; VAYNSHTEYN, Ye.B., tekhnicheskiy redaktor

[Physical metallurgy and the heat treatment of steel and iron; a reference book] Metallovedenie i termicheskaia obrabotka stali i chuguna; spravochnik. Pod red. N.T.Dudtsova, M.L.Bernshteina, A.G. Rakhshtadta. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 1204 p. (MLRA 9:9)

1. Chlen -korrespondent Akademii nauk USSR (for Bunin)
(Steel--Heat treatment) (Iron--Heat treatment)
(Physical metallurgy)

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GORELIK, Semen Samuilovich

TA459.F55

TREASURE ISLAND BOOK REVIEW

AID 847 - M

GORELIK, S. S., N. S. FASTOV, YA. S. UMANSKIY, B. N. FINKEL'SHTEYN, M. YE. BLANTER and S. T. KISHKIN.
FIZICHESKIYE OSNOVY METALLOVEDENIYA (Principles of physical metallurgy). Metallurgizdat, 1955. 724 p., diagrs., tables, photos. 10,000 copies printed.

ANALYSIS AND EVALUATION:
This book on physical metallurgy is compiled by agroup of prominent Soviet scientists and is based on a very voluminous literature, monographic and periodical, mostly by Soviet writers. It is not a textbook but an outline of present-day achievement in the understanding of the physical principles of metallography and a survey of physical metallurgy problems as seen by Soviet scientists. Two main problems of theoretical physical metallurgy are emphasized: the theory of phase structure and the theory of phase formation. Presented in addition are the present-day concepts concerning plastic defromation of metals, recovery and recrystallization, and finally a study of the connection between the structure and composition of alloys and their strength.

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Gorelik, S.S.

E-8

USSR / Structure of Deformed Materials.

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9398

Author : Gorelik, S.S., Umanskiy, Ya.S.
Inst : Moscow Steel Institute, USSR
Title : X-ray-Diffraction Investigation of the Recrystallization of Certain High Melting Point Compounds.

Orig Pub : Izv. AN SSSR, ser. fiz., 1956, 20, No 6, 650-652

Abstract : A study was made of the relaxation and recrystallization of WC in NiAl. WC was first deformed by abrasion with a grinding wheel, and the hardening of NiAl was effected during the process of grinding the powder. A special test made on the iron showed that the above methods of deformation give the same effect, as shrinkage by 60 -- 70%. The time (τ) required for start of recrystallization was determined at various T (from 1350 to 1550° for WC and 700 -- 780° for Ni Al). From the slope of the line $\ln \tau = f(1/T)$ it was possible to determine a quantity Q, which characterizes the tem-

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GORELIK, S.S.

Particularities of the recrystallization of some two-phase aging alloys. S. S. Gorelik (I. V. Stalin Moscow Steel Inst.). *Izvest. Akad. Nauk S.S.S.R., Ser. Fiz.* 20, 853-8 (1956).—Cu-Be alloys (0-2.33% Be), and Ni-Cr alloys (with or without Al and Ti content) in which the compds. Ni$_3$(Al,Ti) and CuBe appear as 2nd phase were deformed and annealed immediately after aging. The presence of a 2nd phase has a delaying effect on recrystn. S. Pakswer

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GOKELIK S.S

PHASE I BOOK EXPLOITATION 179

[illegible]: See table of contents

[illegible]: Working of Steel and Alloys (Obrabotka [illegible]

[illegible] DATA: Gosudarstvennoye nauchno-tekhnicheskoye [illegible] literatury po chernoy i tsvetnoy metallurgii [illegible] 1957. 451 pp., 3,000 copies

[illegible]: Moskovskiy ordena [illegible] stali imeni I. V. Stalina

EDITORS: Responsible Ed.: Kidin, I. N.; Ed. of [illegible] House: Dokukina, Ye. V.; Tech. Ed.: [illegible] Editorial Council of the Moscow Steel Institute (Institute stali): Glinkov, M. A., professor; [illegible] Grigoreah, R. N., docent, candidate of [illegible] Gudtsov, N. T., Academician (deceased); [illegible] professor, doctor; Zhukhovitskiy, A. A., professor, doctor; Kidin, I. N., professor, doctor; [illegible] professor, doctor; Lyubimov, A. P., professor; [illegible] Pavlov, I. M., corresponding number of the [illegible]

Card 1/15

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