"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALEYNIK, A. M.

"Investigation of the Effect of Supercharging on the Performance of an Automobile Carburetor Engine." Sub 27 Apr 51, Moscow Automotive Mechanics Inst.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALEYNIK, A.M.

BAKALEYNIK, A.M.

Problems of supercharging of carburator engines. Izv.TPI 85:69-78 '57. (MIRA 10:12)

1.Predstavleno prof. doktorom tekhn.nauk V.K. Nechayevym.
(Automobiles--Fuels systems)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ZAYTSEV, V.A., kand. tekhn. nauk; LERNER, M.O., kand. tekhn. nauk; ARONOV, D.M., kand. tekhn. nauk; BAKALEYNIK, A.M., inzh.

Effect of functional additives to manganese antiknock compound on the wear and scale formation in an engine. Ekspl.-tekh. svois. i prim. avt. top. smaz. mat. i spetszhid. no.3:5-9 '63.

Evaluating the effect of additives to gasoline on the performance of spark plugs. Ibid.:9-15

(MIRA 17:10)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALEYNIKOV, Aleksandr Mikhaylovich; ISAKOV, Nikolay Mikhaylovich; NIKITIN, P.S., redaktor; VOLCHOK, K.M., tekhnicheskiy redaktor

[Inclined plane boat elevator] Poperechnye naklonnye sudopod"emniki. Leningrad, Izd-vo "Rechnoi transport," Leningradskoe otd-nie, 1955. 219 p. (MLRA 9:3)

(Elevators)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

GORNUSHKIN, Yu.G., kand.tekhn.nauk; BAKALEYNIK, A.M., kand.tekhn.nauk

Reviews and bibliography. Avt.prom. 31 no.4:48-49 Ap '65. (MIRA 18:5)

1. Vladimirskiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

L 55211-[illegible]

ACCESSION NR: AP[illegible] [illegible]/000/009/0034/0034

AUTHORS: Birenberg, I. E.; Govend[illegible] [illegible], P. [illegible]; Bakaleynik, I. M. [illegible]

TITLE: Device for automatic amplif[illegible] [illegible] duplex amplifiers for loudspeaker links, [illegible] 1, No. [illegible]

SOURCE: Byull-ten' izobreteniy i [illegible], No. 9, 1[illegible], 34

TOPIC TAGS: amplifier, automatic control, loudspeaker

ABSTRACT: This Author Certificate [illegible] device for automatic amplification control in duplex amplifiers for loudspeaker links according to Author Certificate No. [illegible]. To increase the amplifier [illegible] to broaden the range of automatic amplification control, a [illegible] current source is connected in the direct current circuit controller [illegible]. The current source is derived from the potential difference [illegible] resistance connected in the supply circuit of the last stages of [illegible] and transmission amplifiers operating in the A[illegible] mode (see Fig. [illegible]). The current source is also derived from a divider of fixed [illegible] connected to the power supply. To cut off more thoroughly the amplifier [illegible] operating channel with small

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ACCESSION NR: AP5015249

control signals, each circuit of the supplementary control source derived from the current change in the source of the [illegible] is connected separately for each amplification channel. Orig. art. has: [illegible] figs.

ASSOCIATION: none

SUBMITTED: 04Jan64 ENCL: 00 SUB CODE: EC

NO REF SOV: 000 OTHER: 000

Card 2/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

14(5) SOV/127-59-3-8/22

AUTHORS: Yermolayev, V.I., Bakaleynik, Ya.M. and Vinogradov, L.V., Engineers.

TITLE: The Semi-Automatic Control of Mechanisms in the Mine Shaft. (Poluavtomaticheskoye upravleniye mekhanizmami shakhtnogo stvola.)

PERIODICAL: Gornyy zhurnal, Nr 3, 1959, pp 31-33 (USSR)

ABSTRACT: An experimental installation for the semi-automatic control of hoising mechanisms in the Kapital'naya Nr 2 pit of the Degtyarka Copper Mine has successfully passed industrial tests. The installation was developed by the KB TsMA (Design Office of Tsvetmetavtomatika) in collaboration with the Degtyarka Mine. The maximum utilization of already existing mechanisms equipped with pneumatic gear was taken into consideration. Air distributing devices VR-350 (figure 1) developed from ENIMS air distributors, are used in the system. Two men in the hoist cage direct different operations in the hoisting shaft. The system is des-

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SOV/127-59-3-8/22

The Semi-Automatic Control of Mechanisms in the Mine Shaft.

cribed in detail (figure 2). The introduction of this system in the Kapital'naya Nr 1 and Nr 2 pits will permit a reduction of 30 men in the working staff. This represents an yearly saving of 340,000 rubles. There are 2 diagrams.

ASSOCIATION: Tsvetmetavtomatika, Moscow.

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ANFILOV, A.A., inzh ; BAKALEYNIK, Ya.M., inzh.; BIRGER, G.I., inzh.; BRUK, B.S., inzh.; BUROV, A.I., inzh.; GINZBURG, V.L., inzh.; ZABELIN, V.L., inzh.; ZAPLECHNYY, Ye.G., inzh.; ISAYEV, D.V., inzh.; KLIMOVITSKIY, A.M., inzh.; KRYUCHKOV, V.V., inzh.; KOTOV, V.A., inzh.; LEYDERMAN, A.Ye., inzh.; PODGOYETSKIY, M.L., inzh.; SAZHAYEV, V.G., inzh.; SEVAST'YANOV, V.V., inzh.; FILIPPOV, S.F., inzh.; FROMBERG, A.B., inzh.; SHNEYEROV, M.S., inzh.; ERLIKH, G.M., inzh.; VERKHOVSKIY, B.I., red.; ZUBKOV, G.A., red.; KARKLINA, T.O., red.; OVCHARENKO, Ye.Ya., red.; ANTONOV, B.I., ved. red.

[New means of automatic and centralized control for nonferrous metal mines] Novye sredstva avtomatizatsii i dispetcherskogo upravleniia dlia rudnikov tsvetnoi metallurgii. Moskva, Nedra, 1965. 93 p. (MIRA 18:4)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALEYNIK, Ya.M.; BERAK, L.A.

The VP-350 air distributor. Sbor.mat.po avtom.proizv.prots.i disp. no.5:118-121 '60. (MIRA 14:4)

1. Konstruktorskoye byuro "TSvetmetavtomatika."
(Pneumatic control)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ISAKOV, N., inzh.; BAKALEYNIKOV, A., inzh.; OL'BEK, A., inzh.

Inclined ship lift without sluice chambers. Rech. transp. 19 no.11:36-38 N '60. (MIRA 13:11)
(Locks (Hydraulic engineering))

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

PEKHTEREV, A.G.; BAKALEYNIKOV, B.S.

Thyroid gland function of workers in sulfuric acid production.
Vrach. delo no.4:114-115 Ap '61. (MIRA 14:6)

1. Kafedra rentgenologii i radiologii (zav. - dotsent B.Z.Sukhorukov) Vinnitskogo meditsinskogo instituta.
(THYROID GLAND) (SULFUR DIOXIDE)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ACC NR: AP6023958 SOURCE CODE: UR/0318/66/000/003/0020/0024

AUTHOR: Sinitsyn, V. V.; Bakaleynikov, M. B.

ORG: none

TITLE: Some aspects of the properties of plastic silica gel lubricants with a petroleum oil base

SOURCE: Neftepererabotka i neftekhimiya, no. 3, 1966, 20-24

TOPIC TAGS: silica gel, lubricant

ABSTRACT: An attempt was made to begin a systematic study of the effect of basic compounding and process factors on the properties of silica gel lubricants. Three samples of lubricants were prepared from MVP oil, industrial 12 oil, and a mixture of aviation MK-22 oil and winter diesel fuel by homogenizing suspensions of oils and 10 wt.% SiO_2. The viscosity, shearing strength, and colloidal stability of the lubricants were measured. An increase in the homogenization time was found to affect the properties of the silica gel lubricants substantially. The maximum shearing strength was observed at 50°; both a rise and a drop of temperature decreased the strength markedly. A mechanism is proposed to account for this very unusual behavior. The effect of the nature and viscosity of the dispersion medium on the properties of silica gel lubricants prepared from the various petroleum oils was determined. Orig. art. has: 4 figures and 1

Card 1/2 UDC: 665.4-4-405:661.183.7001.5:621.45

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ACC NR: AP6023958

table.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 004

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

GABOVICH, R.D., BELAGA, M.B., BAKALEYNIKOV, S.B. (Vinnitsa)

Improvement in working conditions at the Vinnitsa Superphosphate Plant since the war. Gig.truda i prof.zab. 2 no.2:21-25 Mr-Ap'58 (MIRA 11:6)

1. Kafedra gigiyeny meditsinskogo instituta i gorodskaya sanitarno-epidemiologicheskaya stantsiya.
(PHOSPHATE INDUSTRY--HYGIENIC ASPECTS)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALEYNIKOV, S.S.

Techniques of oral cholecystrography. Klin.med., Moskva 29 no.5:81-82 May 1951. (CLML 20:9)

1. Lt. Col. Medical Corps.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALEYNIKOV, S. S.

Roentgenologic observation during intestinal irrigation; preliminary data. Klin. med., Moskva 29 no.8:37-39 Aug 1951. (CIML 20:11)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALEYNIKOV, S.S.

Comparison of clinico-roentgenological data in biliary colic syndrome. Khirurgiia 32 no.6:40-43 Je '56. (MLRA 9:10)

1. Iz rentgenologicheskogo otdeleniya (nach. - kandidat meditsinskikh nauk L.D.Gubskiy nauchnyy rukovoditel' - zasluzhennyy deyatel' nauki prof. S.A.Reynberg) Glavnogo voyennogo gospitalya imeni N.N.Burdenko.
(GALLBLADDER, dis.
diag., x-ray)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALEYNIKOV, S.S. (Moskva)

Some problems in the roentgenodiagnosis of diseases of the biliary tract. Klin.med. 34 no.3:69-74 Mr '56. (MLRA 10:1)

1. Iz Glavnogo voyennogo gospital'ya (nachal'nik - I.N.Kurgannikov)
(CHOLECYSTOGRAPHY,
(Rus))

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALEYNIKOV, S. S., Cand Med Sci -- (diss) "Cholecystography in the Light of Clinicoroentgenological Comparisons." Mos, 1957. 14 pp (Min of Health USSR, Central Inst for the Advanced Training of Physicians), 200 copies (KL, 50-57, 120)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALIKOVA, O. [redacted]

TECHNOLOGY

periodicals: HUTNICKE LISTY Vol. 13, no. 10, Oct. 1958

ODVARKA, J.; BAKALIKOVA, O. Automatic grinding and polishing of metallographic specimens. p. 916

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 5
May 1959, Unclas.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALKOVA, O.

Distr: 4E2c(m)

Superficial martensite in an Fe–Ni–Co alloy [Kovar] and the general conditions for its formation. A. Mašin (Research Inst. Transport, Prague) and O. Bakalková. *Acta Tech. Acad. Sci. Hung.* 26, 403–18(1959)(in German).—In addn. to martensite produced in bulk by heat-treatment, superficial martensite can be formed on metallographic specimens of Kovar (nominally Ni 28, Co 18%, and Fe). (Similar formations had been seen on Fe–Cr–Mn–C and Fe–Mn–C alloys.) This is shown to be caused by metallographic grinding and can be removed by repeated polishing. The superficial martensite forms preferentially on certain crystallographic planes, so that not all grains on a metallographic plane may show it. Specific deformation requirements exist for the formation of the superficial martensite, which was not observed near a mark scribed on a previously polished specimen. The occasional occurrence of superficial martensite in rows is attributed to alloy inhomogeneity.

B. F. Brown

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

Distr: 4E2c(m)

The dissolution of fragmented carbides and nitrides and the aging of steels with a high carbon content after cold deforming. Olga Bakalíková and Alois Mašin (Inst. Vacuum Electronics, Prague). Acad. rep. populare Romine, Studii cercetari met. 5, 151-7(1960).—The variations of elec. resistivities measured at −193° and the aging after cold deformations were studied by means of the electron microscope. During this process a dissoln. of carbide particles occurs, entraining the passage of C atoms of the ferrite in the solid soln. In the solid soln. the C atoms, as well as the N atoms, may move freely within the crystal lattice, thus provoking the aging process, and explaining the occurrence of the aging of steels with high C content after cold deformation. The general laws of the aging of steels with high C content were established by analogy with the aging of steels with low C content, and the exptl. data of the process above mentioned are explained.

M. Ben Eliezer

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

S/126/60/010/001/024/027/XX
E073/E535

AUTHORS: Bakaliková, O. and Mašin, A.

TITLE: Influence of Heat Treatment Prior to Grinding on the Formation of Surface Martensite

PERIODICAL: Fizika metallov i metallovedeniye, 1960, Vol.10, No.1, pp.101-105

TEXT: In accordance with earlier work of the authors (Ref.1), the formation of surface martensite is due to the tendency of the alloy towards martensite transformation, which depends in the first instance on the chemical composition and on the uniformity of the distribution of the individual elements in the alloy. The formation of surface martensite is influenced by grinding which is carried out in the preparation of cuts (Refs. 1 and 2). Simultaneous presence of both factors is necessary to bring about the formation of surface martensite. The first factor, the influence of the orientation of the crystal lattice of the austenite grains and of twins, is inter-related to a greater or lesser extent with the influence of grinding inasmuch as it affects the breaking up of the crystallites, the rotation of the formed blocks etc. during the process of grinding. In the here described work the authors

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S/126/60/010/001/024/027/XX
E073/E535

Influence of Heat Treatment Prior to Grinding on the Formation of Surface Martensite

investigated the influence of the annealing temperature and of small fluctuations in the carbon content prior to grinding on the formation of surface martensite. Whilst in the present work the effect of heat treatment prior to grinding was studied, in the earlier work (Ref.2) the influence of the temperature after grinding, i.e. its influence on surface martensite already present, was studied. Speciments 20 x 20 x 1.5 mm of three Kovar type alloys with differing tendencies to form surface martensite were investigated: (composition in %) A - 27.5 Ni, 18.3 Co, 0.30 Mn, 0.065 Mg, 0.020 C, rest Fe; C content after annealing 0.068 (in charcoal) and 0.010 (in air); B - 26.7 Ni, 18.2 Co, 0.39 Mn, 0.047 Mg, 0.034 C, rest Fe; C content after annealing 0.089 (in charcoal) and 0.025 (in air); C - 28.0 Ni, 17.97 Co, 0.48 Mn, 0.053 Mg, 0.10 C, rest Fe; C content after annealing not analysed. Two specimens of each alloy were ground with emery paper and polished with velvet using an aqueous suspension of spineline for the purpose of verifying the tendency of the alloy to form surface martensite. The specimens of the material A proved to have considerable

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S/126/60/010/001/024/027/XX
E073/E535

Influence of Heat Treatment Prior to Grinding on the Formation of Surface Martensite

quantities of surface martensite, there was less in specimens of the alloy B and none whatever in the alloy C, the structure of which remained purely austenitic. Six specimens each of each alloy and each variant were heated to temperatures up to 900, 1000 and 1100°C in the furnace with a protective atmosphere of dry hydrogen (heat treatment I) and held at that temperature for one hour. After annealing, two specimens remained without additional treatment, two others were cooled to -78°C and two to -193°C (heat treatment II). Following that, all the specimens were wet ground and mechanically polished. The changes in the carbon content were achieved by annealing in differing media. The increase in the carbon content was achieved by carburizing the specimens by annealing them in charcoal. On the other hand, a reduction in the carbon content was achieved by annealing in air. The annealing temperatures were 900, 1000 and 1100°C and a part of the specimens were again cooled down to -78 and -193°C. The percentual contents of the surface martensite and the normal martensite are tabulated.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

S/126/60/010/001/024/027/XX
E073/E535

Influence of Heat Treatment Prior to Grinding on the Formation of Surface Martensite

It was found that the formation of surface martensite is directly dependent on the proneness of the alloy to normal martensitic transformation. The authors conclude that in a similar manner to the influence of heat treatment prior to grinding on the formation of surface martensite, it can be anticipated that mechanical working at elevated temperatures (rolling, forging etc.), during which displacement of elements by diffusion is possible, will influence the formation and the quantity of surface martensite during grinding. Probably this is the cause of a striated distribution of the surface in the normal martensite observed in other work published by the authors (Refs.1-4). Acknowledgments are made to the Head of the Materials Division of Issledovatel'skiy institut vakuumnoy elektrotekhniki (Research Institute for Vacuum Electrical Engineering), Mr. Kvarda, for making the work described in this paper possible. There are 2 tables, 1 figure and 4 non-Soviet references.

ASSOCIATIONS: Scientific Research Institute of Vacuum Electrical Engineering and Physics Laboratory of the Transport Research Institute, Prague.

Card 4/5

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

S/126/60/010/001/024/027/XX
E073/E535

Influence of Heat Treatment Prior to Grinding on the Formation of Surface Martensite

SUBMITTED: March 3, 1960

Card 5/5

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALIKOVA, O.; MASIN, A.

Mechanical treatment prior to metallographic polishing, and its influence on the formation of superficial martensite. Studii cerce metalurgie 6 no.3:259-267 '61.

1. Institutul de cercetari pentru electrotehnica vidului, Praha (for Bakalikova) 2. Laboratorul de fizica al Institutului de cercetari de telecomunicatie al Ministerului de telecomunicatie, Praga (for Masin)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

MASIN, A.; BAKALIKOVA, O.

Influence of pressure, temperature, and mechnaical grinding on the appearance of surface martensite. Acta techn Hung 32 no.1/2:247-259 '61. (EEAI 10:5)

1. Physikalisches La oratorium des Forschunginstituts fur Verkehrswesen, Resortanstalt des Verkehrsministeriums, Praha (for Masin). 2. Forschunginstitut fur Vakuumelektrotechni, Praha (for Bakalikova)
(Martensite)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

MASIN, A.; JEZEK, J.; BAKALIKOVA, O.

About the nature of surface martensite. Acta techn Hung 32 no.1/2: 261-266 '61. (EEAI 10:5)

1. Staatlishes Forschunginstitut fur Material und Technolgia, Praha (for Jezek)
(Martensite)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

LEVIN, G.M., kand.tekhn.nauk; BAKALIN, Yu.I., inzh.

Heat exchange during the boiling of water in a circular slot with natural circulation. Izv. vys. ucheb. zav.; energ. 6 no.12:119-122 D '63. (MIRA 17:1)

1. Kaliningradskiy tekhnicheskiy institut rybnoy promyshlennosti i khozyaystva. Predstavlena kafedroy kholodil'nykh i kompressornykh mashin i ustanovok.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ACC NR: AP6033067 SOURCE CODE: UR/0201/66/000/003/0028/0032

AUTHOR: Bakalin, Yu. I.; Nesterenko, V. B.; Kremeshnyy, A. I.

ORG: IYaE AN BSSR

TITLE: Stand for the investigation of heat exchange of a dissociating gas at low pressure

SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 3, 1966, 28-32

TOPIC TAGS: heat exchange, gas dissociation, thermodynamic calculation

ABSTRACT: To estimate the degree to which heat exchange in chemically reacting gases is modified by the chemical reactions and to measure this heat exchange, the authors have developed a test stand for measuring heat transfer from a dissociating gas. The heat-transfer liquid was fed to an evaporator, preheater, experimental heat-transfer section, a refrigerator for cooling the spent gas and a condenser. The main, measuring, and auxiliary equipment is described and the theory underlying the measurements is briefly developed. The measurements, made at temperatures up to 150C, consisted of a determination of the local heat transfer coefficient at heat loads from 8×10^3 kcal/m^{2}hr to 1.5×10^4 kcal/m^{2}hr, for Reynold's numbers from 7×10^3 to 10^4. The heat-transfer coefficient was found to be higher than expected from the theory, thus confirming the assumption that the chemical reactions increase the amount of heat. Preliminary experimental data have confirmed the possibility of using the relations previously obtained by other authors for heat-transfer liquids with greatly varying

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ACC NR: AP6033067

thermophysical properties. It is suggested that the final laws governing the heat transfer of dissociating gas be determined by means of further experimentation. Orig. art. has: 1 figure, 9 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 20Sep65/ ORIG REF: 003/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALINOV, Rista, dr.; RADOJKOVIC, Miloslav, dr.

ACTH therapy of tetanus. Srpski arh. celok. lek. 82 no.6:771-773 June 54.

1. Zarazno odeljenje Opste bolnice u Bitolju sef dr. Haim Abravanel. (Rad je Uredništvo primilo 4.XII.1953 god.)

(TETANUS, ther. ACTH) (ACTH, ther. use tetanus)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALINSKAYA, Ye. A. and BEL'TYUKOVA, K. I.

"Results of an Investigation of Bacterioses Infecting Grain Corps in the Ukrainain SSR, Report II, Bacterial Mottling of Sorghum", Mikrobiol Zhur, Kiev, Vol. 12, Issue 1, pp 3-10, 1950.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALINSKAYA, Ye.D.; SAVENKO, N.P.

Sanitary, hygienic and physillogical characteristics of working conditions in flax and hemp factories. Trudy Vor. med. inst.47: 97-99 '62 (MIRA 16:12)

1. Kiyevskiy institut gigiyeny truda i professional'nykh zabolevaniy.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

USSR/Human and Animal Physiology - Physiology of Work and Sport. T-12

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32308

Author : Bakalinskaya, Ye.D.
Inst :
Title : Change of the Function of the Olfactory Analysor in Workers of a Blast Furnace Plant.

Orig Pub : Vrachebn. delo, 1957, No 1, 69-72.

Abstract : Examination of 150 workers by means of the tonometric olfactometer of A.Z. Dubrovskiy (10% solution of phenol and 9% solution of acetic acid), in comparison with persons not subjected to the action of factors found in a blast furnace plant, found a clear increase of the threshold of sensation, shortening of adaption time and an increase of restoration time of sensitivity to the indicated smells. Of 5 groups subjected to the action of the separate factors (concentration of dust, blast furnace gas, high or low temperature, significant heat emmission), the

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USSR/Human and Animal Physiology - Physiology of Work and Sport. T-12

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32308

greatest changes of smell were found in the group who worked under the bunker, i.e. those subjected to the effect of high concentrations of dust, and workers at the ore platform, those subjected to the combined effect of the dust, high temperature of the air, and heat emission of the blast furnace.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALINSKAYA, YE. D.; ZHIRNOVA, G. YE.; ZINCHENKO, V. P.; KOMPAN, A. I.; SATANOVSKIY, A. M. ; ERMAN, I. M.; STEZHENSKAYA, YE. I.

"Labor Hygiene in the Modern Blast Furnace Industry."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ZHIRNOVA, G.Ye., kand.med.nauk; MAKSIMOVA, O.F., kand.med.nauk; MEN'SHOV, A.A., kand.med.nauk; BAKALINSKAYA, Ye.D., nauchnyy sotrudnik

Sanitary and hygenic condition of modern open-hearth plants and health measures. Vrach.delo no.12:1305-1307 D '59. (MIRA 13:5)

1. Kiyevskiy institut gigiyeny truda i professional'nykh zabolevaniy.

(STEEL INDUSTRY--HYGIENIC ASPECTS)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALINSKAYA, Ye.D., nauchnyy sotrudnik

Some problems of industrial hygiene in flax and hemp mills. Vrach. delo no.12:117-121 D '61. (MIRA 15:1)

1. Kiyevskiy institut gigiyeny truda i profzabolevaniy.
(TEXTILE INDUSTRY--HYGIENIC ASPECTS)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALINSKIY, S.P.; BRYUNELLI, B.Ye.; KROTEVICH, N.F.

Recording geomagnetic pulsations by a highly sensitive magnetograph. Mezhdunar.geofiz.god. no.7:65-67 '59.
(MIRA 13:2)

(Magnetometer)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

ACC NR: AP7001962 SOURCE CODE: UR/0120/66/000/006/0195/0196

AUTHOR: Bakalinskiy, V. P.; Bugayenko, V. V.; Tsymbal, V. P.

ORG: none

TITLE: Static digital register with visual indication

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1966, 195-196

TOPIC TAGS: computer component, computer storage device

ABSTRACT:

A simple and reliable decade register consisting of ten TKh8G glow-discharge thyratrons a (L_1—L_{10}) connected into cathode circuits of an IN-2 digital indicator tube (see Fig. 1) is described. The recording of information is performed when the pulse write signal which is applied to the first control grid of all thyratrons coincides with the write enable signal which is applied to the second control grid of a selected thyratron. When the write enable signal is applied, the coincidence write signal fires thyratron L_{10}. A potential on both the plate of L_{10} and the "zero" cathode of L_{11} drops, causing the gap between the plate and the "zero" cathode of L_{11} to fire. The digit 0 is indicated as a result. The next signal causes the corresponding thyratron and the required digit to fire. At this time the the negative voltage drop from the plate of conducting thyratron is

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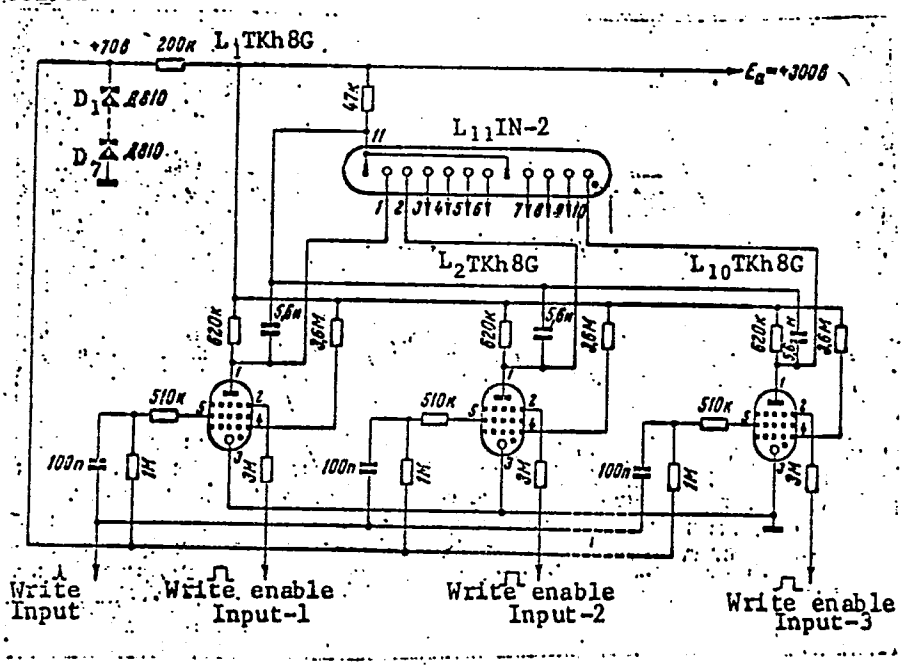

Fig. 1. Circuit of digital register

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ACC NR: AP7001962

simultaneously applied to the plates and all cathodes of the digital indicator tube and to the plate of conducting thyratron L_{10}. The potential on the plate of L_{10} falls below the arc-maintaining voltage of the tube, and the thyratron stops conducting. Simultaneously the discharge stops between the plate and the "zero" cathode of L_{11}. When the next pulses are applied, the process is repeated. Thus the information concerning the last input signal is always stored in the register. Operation of the circuit is stable during variations in power supply voltage from 280 to 350 v. The amplitude of the rectangular write pulses (20—40 μsec duration,) which are applied to the first control grids of the thyratrons, is not less than 70 volts. The amplitude of pulses which are applied to the inputs of "write enable" can be varied from 110 to 150 volts. Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 21Dec65/ ORIG REF: 003/ ATD PRESS: 5111

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APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAZALISZ, Janosne, tanar

Contribution to the thesis "Trade unions in capitalism." Munka 13 no.10:25 O '63.

1. Szakszervezetek Orszagos Tanacsa iskola.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

VOINOVA-RAIKOVA, Zh.; BAKALIVANOV, D.

Research on the biological activation of organomineral mixtures.
Izv Inst "Nikola Pushkarov" no.2:39-56 '62.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALIVANOV, D.

Distribution of mold antagonists in some Bulgarian soils.
Izv Inst "Nikola Pushkarov" no 5:225-236 '62.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALLO, N.

AUTHORS: Rozenfel'd, L. (Professor), Kharitonov, V., Onosovskiy, V., Manuylo, N., Zhebenko, A., and Bakallo, N. (Engineers).

66-2-2/22

TITLE: Investigation of the refrigeration equipment of the refrigerator ship, "Aktyubinsk". (Ispytaniye kholodil'nogo oborudovaniya refrizheratornogo sudna "Aktyubinsk").

PERIODICAL: "Kholodil'naya Tekhnika" (Refrigeration Engineering), 1957, Vol.34, No.2, pp.6 - 10 (USSR).

ABSTRACT: The results are described of tests of a refrigerated Diesel-electric ship, carried out by the Chair of Refrigeration Machinery of the Leningrad Technological Institute in cooperation with the team of a Baltic plant. The refrigeration machinery was designed by the Central Refrigeration Machinery Design Office and manufactured by the Moscow "Compressor" Works. The "Aktyubinsk" has a displacement of 10 250 tons and is one of a larger series of refrigerator vessels. It has 5 refrigerated holds and 5 refrigerated 'tween decks of a useful volume of 6700 m^3, enabling transportation of 2700 tons of frozen or 3350 tons of chilled fish. The refrigerated holds and 'tween decks are subdivided into a fore and an aft group, each of which can operate at differing temperatures. The cooling of the holds and the 'tween decks is effected by a solution of calcium chloride. In single stage operation a temperature of -6 C

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Investigation of the refrigeration equipment of the refrigerator ship, "Aktyubinsk". (Cont.) 66-2-2/22

can be maintained in the holds and in the 'tween decks whilst in 2-stage operation a temperature of -18 C can be maintained so that it is possible to maintain a temperature of -6 C in one group of chambers and 'tween decks and a temperature of -18 C in the other group. The characteristics of the refrigeration machinery were established at the test stand of the "Compressor" works and have been described in an earlier paper (1). The results of the tests of the refrigerator ship are discussed and summarised in 2 tables. During the tests the entire refrigeration equipment operated satisfactorily, the insulation of the refrigerated holds and 'tween decks is of good quality and operated satisfactorily. The adopted 2-stage system is very simple in operation but the author considers it advisable to develop a circuit with an intermediate steam extraction applicable for marine use and to compare the respective technical and economic indices. To gain a clearer picture on the correct selection of the type of refrigeration machinery the applied 2-stage set МХМ-АДС-150 should be compared with a high r.p.m. multi cylinder compressor, both stages being in a single unit. For marine conditions it may be of interest

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Investigation of the refrigeration equipment of the refrigerator ship, "Aktyubinsk". (Cont.) 66-2-2/22

to use a rotational compressor as a booster compressor of the lower stage. A number of slight inadequacies revealed during the tests should be eliminated and further control and metering instruments should be installed.

There are 3 figures, 2 tables and 1 Slavic reference.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALO, A.N., kandidat sel'skokhozyaystvennykh nauk.

Effect of castration time on the growth and development of steers. Veterinariia 32 no.12:61-63 D '55. (MLRA 9:4)

1.Vsesoyuznyy selktsionno-geneticheskiy institut imeni T.D.Lysenko.
(CASTRATION) (BEEF CATTLE)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

USSR / Farm Animals. Hogs. U-6

Abs Jour : Ref Zhur - Biologiya, No 16, 1957, 72099

Author : Bakalo, A.N., VAganova, A.I.
Title : The Growth of Piglets Without Silage.

Orig Pub : Svinovodstvo, 1956, No 10, 10-12.

Abstract : Tests on the growth of suckling-pigs without special feed-silage were conducted on two litters. 2-3 days after their birth the pigs received in their throughs water, ground chalk, chopped wood-coal and heated seed. From the 5th day on, the piglets ate coal, from the 7th on - heated seed, and from the 10th day on, the feed which was given to the sows. The sows' ration consisted of barley and corn mush and of sunflower cake and the green mass of corn and lucerne. When removed from the mother, the piglets reached the weight of 13-14.5 kg.

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To be submitted for the International Symposium on Macromolecular Chemistry, Montreal, Canada, 27 Jul -1 Aug 1961.

USSR

BIRSHTEYN, T. M., Institute of High Molecular Chemistry, Academy of Sciences USSR, Leningrad, jointly with KRIGBAUM, W. R., and KANEKO, M., Duke University, Durham, N.C. - "Elasticity of cube lattice chain networks" (Group 2)

DOGADKIN, Boris A., and DONSOV, A. A., Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov - "Interaction of polyethylene with sulphur" (Groups 4-5)

KARGIN, Valentin A., Head, Laboratory of Colloidal Chemistry, Scientific Research Physico-Chemical Institute imeni L. Ya. Karpov, Moscow - "The formation of big crystal structures in polymers and their properties". (Group 2. Invited lecture)

KRENTSEL', B. A., TOPCHYEV, A. V., and BAKALO, L. A., Institute of Petroleum, Academy of Sciences USSR, Moscow - "Polymerization of some epoxy compounds" (Group 3-B)

MEDVEDEV, Sergey S., SPIRIN, YU. A., ARBET-YAKUBOVICH, A. A., POLYAKOV, D. K., and GANTMAKHER, A. R., Scientific Research Physico-Chemical Institute imeni L. Ya. Karpov, Moscow - "Polymerization catalyzed by lithium and lithium alkyl" (In German) (Group 3-B)

NAMETKIN, N. S., TOPCHYEV, A. V., and POLAK, L. S., Institute of Petrochemical Synthesis, Academy of Sciences USSR, Moscow - "On the catalytic polymerization and radiochemistry of allylsilane" (Group 3-A)

PIOTROVSKIY, K. B., All-Union Scientific Research Institute of Synthetic Rubber imeni S. V. Lebedev, Leningrad - "Temperature effect on polymer structure in diene polymerization by alkali metals" (Group 3-B)

PODDUBNYY, I. Ya., and YERENBURG, Ye. G., All-Union Scientific Research Institute of Synthetic Rubber, Leningrad - "Study of branching in regular isoprene polymers" (Group 1)

PODDUBNYI, I. Ya. MOSEVITSKIY, M. I. RABINERSON, M. A., and PERMINOV, A. A. All-Union Scientific Research Institute of Synthetic Rubber imeni S. V. Lebedev, Leningrad - "Nature of molecular-weight distribution and properties of styrene-butadiene rubbers depending on polymerization conditions" (Group 3-A)

PRAVEDNIKOV, A. N., TELESHOV, Ye. N., YING, She-k'ang, and MEDVEDEV, S. S., Scientific Research Physico-Chemical Institute imeni L. Ya. Karpov, Moscow - "Investigation of the mechanism of radiolysis of polymers containing quaternary atoms of carbon" (Group 4-5) Prof. V. U.

TSVETSOV, Viktor M., Institute of High Molecular Compounds of the Academy of Sciences USSR, Leningrad - "Stereo-regularity and optical anisotropy of macromolecules" (Group not specified)

USMANOV, Khamdam U., and SUSHKEVICH, T. I., Academy of Sciences UzSSR, Tashkent, Uzbekistan - "The investigation of the cotton cellulose polydispersity according to the molecular weight" (Group not specified)

YENIKOLOPYAN, N. S., Institute of Chemical Physics of the Academy of Sciences USSR, Moscow - "On the kinetics of formaldehyde polymerization and polyformaldehyde degradation" (Group 3-B)

BAKALO, L. A.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALO, L.A.; KRENTSEL', B.A.; PYRKOV, L.M.; TOPCHIYEV, A.V., akademik; FRENKEL', S.Ya.

Mechanism of epichlorohydrin polymerization on the catalytic system $FeCl_3$ X propylene oxide. Dokl. AN SSSR 141 no.3:613-615 N '61. (MIRA 14:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Epichlorohydrin) (Polymerization)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

S/081/62/000/005/038/112
B151/B101

AUTHORS: Obolentsev, R. D., Bukharov, V. G., Pozdnyakova, T. Ye., Alalykina, L. A., Bakalo, L. A., Pototskaya, A. Ye.

TITLE: The synthesis of mono-substituted thiophanes

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 263-264, abstract 5Zh236 (Sb. "Khimiya sera- i azotorgan. soyedineniy, soderzhashchikhsya v neftyakh i nefteproduktakh". v. 3. Ufa, 1960, 9-17)

TEXT: A general method is put forward for the synthesis of α-substituted thiophanes, starting from alkylfurylcarbinols, according to the following scheme;

$RCH(OH)\overline{C=CHCH=CHO}$ (I) $\rightarrow RCO\text{-}CH_2CH_2COOC_2H_5$ (II) $\rightarrow RCH(OH)CH_2CH_2CH_2OH$ (III) $\rightarrow$

$\rightarrow RCHBrCH_2CH_2CH_2Br$ (IV) $\rightarrow R\overline{CHCH_2CH_2CH_2S}$ (V). I is converted by heating for 2.5 - 3 hrs. in abs. C_2H_5OH containing 0.3 - 0.5% HCl gas (in the

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case of high mol. wt. R the heating is carried out for 0.5 hrs, 4-9% HCl gas) with yields of 35 - 60%, into ethyl esters II (IIa-f) (here and later are given the substance, R, b. p. in °C/mmHg, $n^{20}D$, d_4^{20}): IIa, $CH_3C(CH_3)_2CH_2$, 89-91/4, 1.4346, 0.9593; b, $CH_3CH_2C(CH_3)_2CH_2$, 104-105/4, 1.4410, 0.9562; c, $CH_3(CH_2)_5$, 113-115/2, 1.4370, 0.9440; d, $CH_3(CH_2)_7$, 131-132/2, 1.4403, 0.9317; e, $CH_3(CH_2)_8$, 145-146/3, 1.4430, 0.9256; f, CH_3-$(CH_2)_{10}$, -, m. p. 25-27°C, -, -. The II obtained are reduced with a two-fold excess of $LiAlH_4$ to the corresponding III (IIIa-i): IIIa, $CH_3C(CH_3)_2CH_2$, 112-114/3, 1.4545, 0.9319; b, $CH_3CH_2C(CH_3)_2CH_2$, 123-124/3, 1.4637, 0.9373; c, $CH_3(CH_2)_5$, 139-140/3.5, 1.4558, 0.9249; d, $CH_3(CH_2)_7$,-, m. p. 46-46.5°C, -, -; e, $CH_3(CH_2)_8$,-, m. p. 41.5-42°C, -, -; f, $CH_3(CH_2)_{10}$,-, m. p. 59-60°C, -, -; g, 2-$C_{10}H_7$ -, m. p. 88-89°C, -, -; h, 4-diphenyl, -, m. p. 80°C, -, -; i, cyclo-$C_6H_{11}CH_2$, -. m. p. 59.5-60.0°C,

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-, -. The III glycols are dissolved in glacial CH_3COOH and the solution saturated with dry HBr at 100-120°C and then fractionated, when the IV (IVa-i) are obtained; IVa, $CH_3C(CH_3)_2CH_2$, 125-126/15, 1.4885, 1.3648; b, $CH_3CH_2C-(CH_3)_2CH_2$, 99-102/2, 1.4962, 1.3623; c, $CH_3(CH_2)_5$, 122-123/3, 1.4940, 1.3607; d, $CH_3(CH_2)_7$, 137-139/2, 1.4902, 1.2976; e, $CH_3(CH_2)_8$, 157-159/2.5, 1.4865, 1.2633; f, $CH_3(CH_2)_{10}$, 180-182/3, 1.4863, 1.2201; g, 2-$C_{10}H_7$, -, m. p. 54-56°C, -, -; h, 4'-diphenyl, -, m. p. 84-85°C, -, -; i, cyclo-$C_6H_{11}CH_2$, 132-133/1.5, 1.5202, 1.4310. On boiling the dibromides IV for 3 hrs. with a 50% water-alcohol solution of Na_2S there are formed, with yields of 80-90%, the V (Va-k): Va, $CH_3C(CH_3)_2CH_2$, 202-203/760, 1.4812, 0.9155; b, $CH_3CH_2C(CH_3)_2CH_2$, 107-108/17, 1.4862, 0.9272; c, $CH_3(CH_2)_5$, 240-241/760, 1.4823, 0.9095, d, $CH_3(CH_2)_7$, 275.5 - 276/760, 1.4793, 0.8992; e, $CH_3(CH_2)_8$, 292-293/760, 1.4792, 0.8940;

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f, $CH_3(CH_2)_{10}$, 326.5 - 327/760, 1.4788, 0.8938, g, 2-$C_{10}H_7$, m. p. 74-75°C, -, -, -; h, 4'-diphenyl, m. p. 59-60° , -, -, -; i, cyclo-C_6H_{11}-CH_2, 86-87/2, 1.5135, 0.9811; k, C_6H_5-CH_2, 109-110/2, 1.5710, 1.0577. With the method given it was not possible to obtain V_k since the original phenylfurfurylcarbinol on boiling with an alcohol solution of HCl resinifies and the corresponding dibromide was obtained in another way. (R. Paul, Compt. rend., 1936, 202, 1444). The glycols IIIg and IIIh were obtained by the reductions of the corresponding β-(2-naphthoyl) and β-(4-biphenyloyl)-propionic acids, synthesized by the condensation of the corresponding hydrocarbons with the succinic anhydride using the Friedel-Crafts reaction. The β-alkylthiophanes were obtained by another method:

$H_5C_2COCH_2CH(COOC_2H_5)_2$ (VI) $\rightarrow H_5C_2COCH_2CR(COOC_2H_5)_2$ (VII) $\longrightarrow$
$\rightarrow RCH(COOC_2H_5)CH_2COOC_2H_5$ (VIII) $\rightarrow RCH(CH_2OH)CH_2CH_2CH_2OH$ (IX) $\longrightarrow$
$\rightarrow RCH(CH_2Br)CH_2CH_2Br$ (X) $\rightarrow$ R$\overline{CHCH_2CH_2S}CH_2$ (XI). The Na derivatives of VI are condensed in the usual way with halogen alkyls and yields of 80-90% of VII are obtained. These are saponified, decarboxylated and esterified

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when VIII (VIIIa-d) are obtained in a yield of 70-90%. VIIIa, $(CH_3)_2CHCH_2$, 96-98/2, 1.4260, 0.9710; b, CH_3CH_2-$CH(CH_3)CH_2$, 101-103/2, 1.4300, 0.9633; c, $CH_3(CH_2)_4$, 96-97/1.5, 1.4310, 0.9625; d, $CH_3(CH_2)_7$, 130-131/1, 1.4365, 0.9453. VIII is reduced with $LiAlH_4$ (1.25 moles) and (IXa-d) are distilled off: IXa, $(CH_3)_2CHCH_2$, 118-120/1.5, 1.4525, 0.9396; b, $CH_3CH_2CH(CH_3)CH_2$, 129-130/2.5, 1.4550, 0.9289; c, $CH_3(CH_2)_4$, 132-134/3, 1.4560, 0.9299; d, $CH_3(CH_2)_7$, 161-162/2, 1.4590, 0.9137. From the IX obtained by the method described above the X (Xa-d) are obtained: Xa, $(CH_3)_2CHCH_2$, 75-76/1.5, 1.4983, 1.4731; b, $CH_3CH_2CH(CH_3)CH_2$, 102-103/2.5, 1.4975, 1.4205; c, $CH_3(CH_2)_4$, 114-116/3, 1.4975, 1.4144; d, $CH_3(CH_2)_7$, 128-129/1, 1.4910, 1.3078. The X are converted in the usual way into XI (XIa-d); XIa $(CH_3)_2CHCH_2$, 200-201, 1.4830, 0.9216; b, $CH_3CH_2CH(CH_3)CH_2$, 221.5-222, 1.4824, 0.9168; c, $CH_3(CH_2)_4$, 229.5-230, 1.4842, 0.9184; d, $CH_3(CH_2)_7$, 282.5-283, 1.4808, 0.9057. The yields in XI were 84-93%

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S/081/62/000/005/038/112
B151/B101

The synthesis of mono-substituted ...

based on X and 30-40% based on VI. [Abstracter's note: Complete translation.]

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32837

S/020/62/142/002/018/029
B106/B101

51190 1407

AUTHORS: Bakalo, L. A., Krentsel', B. A., Oppengeym, V. D., and Topchiyev, A. V., Academician

TITLE: The structure of the $FeCl_3$/propylene oxide catalyst and the mechanism of stereospecific polymerization of some epoxy compounds

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 2, 1962, 347-350

TEXT: The polymerization of organic oxides on a catalyst from anhydrous ferric chloride and propylene oxide takes a stereospecific course which is usually attributed to the heterogeneity of the catalytic system (Ref. 3: C. C. Price, M. Osgan, J. Am. Chem. Soc., 78, 4789 (1956)). In a previous study (Ref. 6: L. A. Bakalo, B. A. Krentsel', A. V. Topchiyev, Vysokomolek. soyed. 4 (1962)), however, the authors found that the polymerization of epichlorohydrin and divinyl monoxide on the catalyst mentioned also takes a stereospecific course, although the system monomer - catalyst is perfectly homogeneous. The structure of the catalyst has now been

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investigated to clarify the mechanism of stereospecific polymerization. The catalyst was prepared, according to Ref. 2 (see below), from sublimed $FeCl_3$ and propylene oxide in dry CCl_4. Its composition in % was: Fe 15.06; C 37.33; H 6.56; Cl 21.26. To seperate the organic part, the catalyst was dissolved in acetone, and the iron was precipitated with sodium hydroxide. The resulting suspension was diluted with water and extracted with ether. The extract was rinsed with water, soda solution, and again with water, and dried over Na_2SO_4. After evaporating the ether, the residue was fractionated (20 - 30 theoretical plates)in a vacuum of 1.5 mm Hg. Three fractions (b. p. 45.5 - 46.5°C, 46.5 - 47.5°C, and 47.5 - 49.0°C, respectively) were collected and subjected to elementary analysis, as was the residue. The molecular weight of the catalyst was determined according to Rast, and the content of mobile hydrogen in the organic portion of the catalyst according to Tserevitinov, with ethyl magnesium iodide. It has been proved by nephrite-test and on the basis of infrared spectra that the organic portion contains chlorine. Thus, the empirical molecular formula of the catalyst was found to be $ClFe(C_6H_{12}O_2Cl)_2$. The structure of the organic portion of the catalyst was

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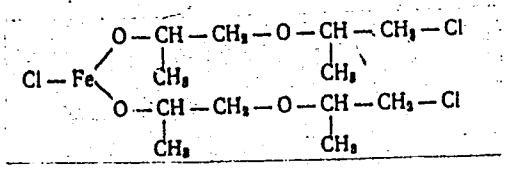
clarified by infrared spectroscopy (ИКС-14 (IKS-14) spectrophotometer in the frequency range of 1800 - 640 cm^{-1}). In this connection, the arrangement of the epoxy ring opening with subsequent development of the ether bond was ascertained. It has been proved that the opening of the epoxy ring during the reaction of ferric chloride with propylene oxide takes place at the primary carbon atom, the configuration at the secondary carbon atom being maintained. These results provided the following structural formula for the catalyst in question:



It is of interest that also the organic portion of the catalyst from anhydrous ferric chloride and epichlorohydrin shows the same arrangement of ether bonds. This result and the previously (Ref. 6) shown homogeneous character of the system indicate that the opening of the oxygen-containing ring at the primary carbon atom, in which the configuration at the

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asymmetric carbon atom during polymerization is maintained, is the cause for the stereospecificity of polymerization of the α-oxides of olefins. Previous orientation of the monomer, as assumed by Price and collaborators (Ref. 3), is therefore not required in this case. There are 1 figure, 1 table, and 8 references: 2 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: Ref. 2: A. B. Borkovec, US pat. 2861962 (1958); R. O. Colclough, G. Gee, W. C. E. Higginson et al., J. Polymer Sci., 34, 171 (1959); I. Ishida, Bull. Chem. Soc., Japan, 33, 731 (1960); S. Misushima, T. Shimanouchi et al., J. Chem. Phys., 26, 970 (1957).

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petrochemical Synthesis of the Academy of Sciences USSR)

SUBMITTED: October 6, 1961

Card 4/4

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALO, L.A.; KRENTSEL', B.A.

Catalytic polymerization of organic α-oxides. Usp.khim. 31 no.6:657-669 Je '62. (MIRA 15:5)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Ethylene oxide) (Polymerization)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALO, L.A.; KRENTSEL', B.A.; TOPCHIYEV, A.V.

Polymerization of some organic oxides. Part 1: Polymerization of epichlorhydrin. Vysokom.soed. 4 no.9:1361-1365 S '62. (MIRA 15:11)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Epichlorhydrin) (Polymerization)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALO, L.A.; KRENTSEL', B.A.; TOPCHIYEV, A.V. [deceased]

Catalytic polymerization of epichlorohydrin. Neftekhimiia 3 no.2: 206-216 Mr-Ap '63. (MIRA 16:5)

1. Institut neftekhimicheskogo sinteza AN SSSR imeni A.V.Topchiyeva.
(Epichlohydrin) (Polymerization)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

GUTS, A.Yu. [Huts, A.IU.]; BAKALO, L.I.

How we strive for the rank of the communist labor team. Farmatsev. zhur. 18 no.1:74-77 '63. (MIRA 17:10)

1. Apteka No.71, Mirgorod, Poltavskoy oblasti.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALO, N.A.

Some indices of the chemical composition of sweat in leprous patients. Vest. derm. i ven. no.2:44-47 '65. (MIRA 18:10)

1. Klinika kozhnykh i venericheskikh bolezney (zav. - chlen-korrespondent AMN SSSR prof. V.A.Rakhmanov) I Moskovskogo meditsinskogo instituta imeni I.M.Sechenova.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKAIO, N.A.

Local sweat secretion in leprosy and some dermatoses. Vest. derm. i ven. 39 no.4:61-66 Ap '65. (MIRA 19:2)

1. Kafedra kozhnykh bolezney (zav. - chlen-korrespondent AMN SSSR prof. V.A. Rakhmanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova. Submitted June 24, 1964.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

VYKHODTSEV, I.V.; GUSAROVA, A.N.; POPOVA, L.I.; IONOV, R.N.; BAKALO, V.Ya.; TSYBINA, Ye.V., tekhnicheskiy redaktor

[Recommendation for grass seeding and irrigation of mountain pastures in the Tien Shan and Issyk-Kul provinces and the Susamyr] Rekomendatsii po vysokogornomu travoseianiiu i orosheniiu pastbishch v Tian'-Shan'skoi, Issyk-Kul'skoi oblastiakh i na Susamyre. Frunze, 1956. 11 p. (MLRA 9:9)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Institut botaniki.
2. Institut botaniki i Institut vodnogo khozyaystva i energetiki Akademii nauk Kirgizskoy SSR (for Vykhodtsev, Gusarova, Popova, Ionov, Bakalo)

(Issyk Kul Province--Pastures and meadows)
(Tien Shan Province--Pastures and meadows)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALO, V.Ya.

Irrigation of grasses on uplands of Issyk-Kul' Province in the Kirghiz S.S.R. Trudy Inst.vod.khoz.i energ.AN Kir.SSSR no.3: 49-59 '56. (MLRA 3:11)
(Issyk-Kul' Province--Pastures and meadows) (Irrigation)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

POPOVA, L.I.; ASSORINA, I.A.; BAKALO, V.Ya.; VYKHODTSEV, I.V., red.; ANOKHINA, M.G., tekhn.red.

[Recommendations for establishing meadows on the Dzhety-Oguz Upland of Kirghizistan] Kyrgyz SSRinin Zheti-Oguz raionunun syrtynda chop chabyndylardy tuzuu boiuncha rekomendatsiia. Rekomendatsii po sozdaniiu senokosov na Dzhety-Oguzskikh syrtakh Kirgizskoi SSR. Frunze, Izd-vo Akad.nauk Kirg.SSR, 1959. 44 p. (MIRA 12:11)

1. Akademiya nauk Kirgizskoy SSR. Institut botaniki.
(Dzhety-Oguz District--Pastures and meadows)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALO, V. YA.

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Akademiya nauk Kirgizskoy SSR

Izvestiya. Seriya yestestvennykh i tekhnicheskikh nauk, tom 1, vyp. 1 (News. Series on Natural and Technical Sciences, Vol 1, No. 1) Frunze, 1959. 164 p. 500 copies printed.

Ed.: F.T. Kashirin; Tech. Ed.: M.G. Anokhina.

PURPOSE: This book is intended for research scientists and teachers in institutes of higher education who may be interested in developments and research trends in various scientific fields.

COVERAGE: The book contains 12 articles by persons affiliated with the Academy of Sciences Kirgiz SSR on studies in physical chemistry, industrial chemistry, applied physics (blasting dynamics), electric power engineering, electronics, agronomy, metallurgy, pure mathematics, etc. A bibliography of 1957 publications of the Academy includes works on history, archeology, economics, linguistics, literature, geology, biological sciences (botany, zoology, medicine), and technology. No personalities are mentioned. References accompany most of the articles.

Aymukhamedova, G.B., N.P. Shelukhina, and Z.A. Maslinkovskaya. Turbidimetric Determination of Pectins 43

Zakharov, K.P. Determination of the Saturation Coefficient of Feed Molasses 53

Danchev, P.S., and M.K. Termetchikov. Effect of the Weight of an Explosive Charge on the Scattering Speed of Ground Particles During Blasting 57

Lebedev, M.M. Electric Power Systems in High Mountainous Regions 69

Filippov, N.A. Methods of Transformation of Time Functions With Time 85

Bakalo, V.Ya. Indices of Moisture Adequacy in Kirgiz Pasture Lands 95

Buyko, V.M., N.A. Imanaliyeva, A.V. Poltavskiy, and Yu.S. Terminasov. X-Ray Study of the Thermal Effect on Steel Samples Hardened After Surface Heating by High-Frequency Current 111

Konyuk, M.M., A.V. Poltavskiy, and Yu.S. Terminasov. X-Ray Study of Fragmentation and Grain Deformations in Steel During Torsion 123

Imanaliyev, M. General Boundary Value Problem for a Nonlinear Integrodifferential Equation With Small Parameter at the Highest Derivative 129

Erman, L.M., and M.M. Gorasimova. Bibliography of Publications of the Kirgiz SSR Academy of Sciences in 1957 145

AVAILABLE: Library of Congress (Q 60.A516A2) 17

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALO, V. Ya.

Water requirements of wild and cultivated grasses in the mountainous districts of Kirghizistan. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 4 no.1:75-94 '62. (MIRA 15:10)

1. Laboratoriya novykh metodov orosheniya AN Kirgizskoy SSR (rukovoditel' kand. tekhn. nauk M. M. Kabakov).

(Kirghizistan—Grasses—Water requirements)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

RISMAN, M.B. [Rysman, M.B.]; BAKALOR, M. Yu.; SHKOL'NIKOVA, N.B. [Shkol'-nykova, N.B.]; GRABOVSKIY, P.A. [Hrabovs'kyi, P.A.]

Fusion sealing of seams and cuts on articles made from nylon fabrics. Leh. prom. no.2:51-52 Ap-Je'64 (MIRA 17:7)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A. (g. Riga)

By the hands of Latvian experts. Prom.koop. no.11:43-46 N '55. (MLRA 9:5)

(Riga--Furniture industry)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A. (Riga)

For the Soviet people. Prom.koop. no.4:33-34 Ap '56. (MLRA 9:8)
(Riga--Clothing industry)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

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PAVLOV, Rad, inzh.; BAKALOV, Aleksandur, inzh.

Purification of the Rila Mountains water for the water supply of Sofia. Khidrotek i melior 6 no.6:185 '61.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, Al.; MEDEVEDEV, F.

The ten life-saving atmospheres. Nauka i tekh mladezh 16 no.11:30-31 '64.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A.N.

Results of the all-Union socialist competition of industrial enterprises for the third quarter of 1956. Med.prom. 10 no.4:43 O-D '56. (MIRA 10:2)
(MEDICAL SUPPLIES)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A.N.

DIPHTHERIA

"The Effect of Previously Suffered Diseases on Inoculative Immunity to Diphtheria", by A.N. Bakalov, Zdravookhraneniye Belorussii, No 2, February 1957, pp 52-53.

The author reports an apparent decrease of inoculative immunity in children who have suffered two or more combinations of the following diseases: scarlet fever and measles, chicken pox and whooping cough, and whooping cough and measles. Such combinations of diseases, the author says, may completely destroy children's inoculative immunity to diphtheria. The article concludes that children who have suffered from such series of diseases, require a revaccination against diphtheria.

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

USSR/Microbiology. Microbes Pathogenic for Man and Animals F

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57758

Author : Bakalov A. N.
Inst : Not given
Title : On Some Factors which Affect Inoculation Immunity Against Diphtheria

Orig Pub : Zdravookhr. Belorussii, 1957, No 5, 39-40

Abstract : No abstract

Card 1/1

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A. N. Cand Med Sci -- (diss) "Problems of the epidemiology, microbiology, and preventive immunization ~~against~~ of diphtheria." Minsk, 1959. 15 pp (Min of Health BSSR. Minsk State Med Inst), 150 copies (KL, 45-59, 149)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A.N.

Modification in the staining of diphtheria microbes. Zdrav. Belor. 5 no.2:53-54 F '59. (MIRA 12:7)

1. Iz oblastnoy Mogilevskoy sanitarno-epidemiologicheskoy stantsii (konsul'tant--dotsent I.S. Rubinshteyn)
(STAINS AND STAINING(MICROSCOPY))

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A.N.

Morphology of diphtheria bacilli under various methods of bacterioscopic investigation. Lab. delo 6 no.4:46 Jl-Ag '60. (MIRA 13:12)

1. Mogilevskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.
(STAINS AND STAINING (MICROSCOPY)) (DIPHTHERIA)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A.N., kand.med.nauk

Ways for reestablising inoculation immunity against diphtheria. Zdrav.Bel. 8 no.5:11-12 My '62. (MIRA 15:10)

1. Mogilevskiy oblastnoy otdel zdravookhraneniya (zaveduyushchaya M.V.Trusova).

(DIPHTHERIA--PREVENTIVE INOCUALTION)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A.N.; MOSTYKO, Ye.S.; POLIVODA, Z.M.

Methods for decreasing acute intestinal diseases. Zdrav. Bel. 9 no.6:66-68 Je '63. (MIRA 17:5)

1. Iz Mogilevskogo oblastnogo otdela zdravookhraneniya (zaveduyushchaya- M.V. Trusova) i sanitarno-epidemiologicheskogo upravleniya Ministerstva zdravookhraneniya BSSR (nachal'nik - A.V. Khovanskiy).

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, A.N.; CHIZH, I.V.

Effectiveness of therapeutic and preventive measures in intensive foci of ascariasis. Med.paraz. i paraz.bol. 33 no.3:350 My-Je '64. (MIRA 18:2)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

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(20)

Serie, Geology [illegible] Nauk [illegible], Vol 14, No 8, 1961

1. [illegible] by G. A. Panteleyev: [illegible] of Alguifric Polymetallic [illegible], pp 779-[illegible].

2. N. [illegible], F. [illegible] and N. [illegible]: Negative Conductivity Impulses in Cadmium Sulfide Crystal Counters, pp 783-785.

3. K. [illegible]: Formation of Pulses in Scintillation Counters by Changing Radiation Conductivity Parallel to the Electrical Field, pp 787-790 (English Summary).

4. S. [illegible]: Some Quantitative Relationships Between the Statistical Characteristics of Purely Thermal Atmospheric Turbulence, pp 791-794.

5. S. I. [illegible]: Effect of the [illegible] of Electric Current on Polyvinylchloride in Fields, pp 795-797.

6. S.A. [illegible]: Changes of the Acidic Values of Hydrolysis and Saponification During the Refining of Rice Oil Stored in the Form of Rice Husk, pp 799-[illegible].

7. Chr. [illegible]: Absorption of Pure Sulfur Dioxide in Aqueous Copper-Ammonia Solutions, pp 803-806.

8. M.R. [illegible], Ov. T. [illegible] and V.S. [illegible]: Formation of Glass in the $CaO-Al_2O_3-SiO_2$ System, pp 807-810.

9. D. [illegible], V. [illegible], [illegible] and St. [illegible]: Study of Raw Materials for Production of Ferrous Aluminum, pp [illegible] (English Summary).

10. M.S. [illegible]: Effect of Temperature and Time on the Type of Components Obtained by Reduction of Iron Oxides and of Ferrous Ores by Carbon Monoxide, pp 815- 818.

11. St. [illegible] and N. [illegible]: Thermocrystallization of Cadmium, pp 819-822.

12. Study of Raw Materials for Some New Types of Cadmium-Containing Magnetic Oxide Substances, pp 823- 826.

13. J. [illegible]: The Sensitive Problem in the Turkmenic Ammonia Plant Operations Bonnevill, 1954, pp 827-830. (In English)

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ЗНКАЛОВ, Д.

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

DENEV, Vl.; BAKALOV, D.; STOIANOV, Sl.

Studies on the natural illumination of working areas and certain other etiological factors in a group of Sofia students with special reference to the prevention of myopia. Nauch. tr. vissh. med. inst. Sofia 9 no.4:335-362 '59.

1. Predstavena ot dots. E. Zhivkov, zav. Katedrata po ochni bolesti, i ot arkh. M. Georgiev, dir. na "Glavproekt".

(MYOPIA prev & control) (SCHOOL HEALTH)
(LIGHTING)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103020018-6

BAKALOV, D.

Qualitative analysis of uric acid in concretions. Lab.delo 6 no.1: 32-34 Ja-Fe '60. (MIRA 13:4)

1. Iz tsentral'noy biokhimicheskoy laboratorii, Sofiya.
(URINE--ANALYSIS AND PATHOLOGY)

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BAKALOV, D

Fluorimetric method for determining porphyrin. Izv biol med BAN 3 no.3:97-102 '59. (EEAI 10:4)

1. Katedra po meditsinska khimiia pri VMI, Sofiia (Zav.: prof. d-r Al. Spasov)
(FLUOROMETRY)
(PORPHYRINS)

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BAKALOV, D.

Some problems in quantitative determination of neutral 17-ketosteroids in the urine (I). Suvrem med., Sofia no.2:109-115 '61.

1. Katedra po meditsinska khimiia, Vissh meditsinski institut, Sofiia. (Rukov. na katedrata prof. Al. Spasov.)

(17-KETOSTEROIDS urine)

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S/081/62/000/020/012/040
B158/B101

AUTHORS: Bakalov, D., Panov, N., Sumerska, T., Robev, St.

TITLE: Examination of certain nitro-derivatives of aromatic amidines

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1962, 149, abstract 20Zh125 (Doklad. Bolg. AN, v. 14, no. 8, 1961, 811-814 [summary in Eng.])

TEXT: 3-nitro-4-methyl-(I), 3-nitro-4-methoxy-(II), 3-nitro-4-chloro-(III) and N-(4-nitrophenyl)-benzamidine (IV), which have a possible radiobiological and pharmocological activity, are obtained when aromatic monoaryl substituted amidines are nitrated. At $\geqslant 30^{\circ}C$, 51 millimoles N-phenylbenzamidine are added to 40 ml HNO_3 (d 1.52) and after 10 min poured out in an excess of 5% cold KOH, giving IV, yield 89%, m.p. 168°C (from alcohol); hydrochloride (HC), m.p. 207-209°C (from alcohol); hydrobromide (HB), m.p. 236-238°C (from alcohol); hydroiodide (HI), m.p. 223-224°C (from aqueous alcohol); picrate, m.p. 162-163°C; aniline-formyl

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derivative, m.p. 182°C; and nitrate, m.p. 200-201°C (decomp.). The following are obtained similarly (the product obtained, yield %, m.p. in °C and m.p. in °C of HC, HB and HI are given): I, 87, 195-196 (from benzene-dioxane, 1:2), 206-207 (from alcohol), 297-298, 220-223; II, 63, 213 (from alcohol-benzene, 3:1), 205-206, 210-212, 201-202; III, 79, 179-180 (from alcohol), -, -, -. A mixture of 2 millimoles of IV and 0.5 g Zn are heated for 1 hr at 200°C, cooled, extracted with 5 ml hot C_6H_6, then with 15 ml ether, the combined extract treated three times with 20 ml 2% HCl and C_6H_5CN is obtained from the organic layer; the aqueous layer is acidified and 4-nitro-aniline (V), m.p. 148°C, is obtained; Similarly, V and 3-nitro-n-toluic nitrile are obtained from I, and V and 3-nitro-anisic nitrile from II. 10 ml 10% H_2SO_4 is added to a mixture of 6.25 millimoles of I and 1 g Zn; after 2 hours the filtrate is made alkaline with KOH solution, extracted with 400 ml hot C_6H_6 and N-(4-aminophenyl)-benzamidine; a yield of 68%, m.p. 121°C (from benzene-ligroin), is obtained from the organic layer. [Abstracter's note: Complete translation.]

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BAKALOV, D., dots.

Phosphorus and its biological significance. Prir i znanie 14 no.9: 13-16 '61.

(Phosphorus)

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