

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205910001-3

REEL #59 BOGDANDY K.S. to

- 1. BOGDANOV, V.S.
- 2. USSR (600)
- L. Electric Circuit Breakers
- 7. Reclosing gear PS-10 with a double magnetic system, Rab.energ 3 no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

BOGDANOV, V.S., student.

Investigating the centers of some types of cross-sections. Trudy
LVMI no.6:145-151 '57. (MIRA 11:5)

62-58-5-3/27

AUTHORS:

Mikhaylov, B. M., Kiselev, V. G., Bogdanov, V. S.

TITLE:

Radiation-Chemical Conversions of Organic Substances (Radiation-chimicheskiye prevrashcheniya organicheskikh veshchestv) Communication 3: Conversions of Ethylene Under the Action of Rapid Electrons (Soobshcheniye 3. Prevrashcheniya etilena

pod vliyanijem bystrykh elektronov)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk,

1958, Nr 5, pp. 545 - 549 (USSR)

ABSTRACT:

Mund and Kokh (Reference 2) investigated for the first time the radiation-action of high energy on ethylene. They found out that ethylene is converted into hydrogen under the influence of α -particles. Lind and his collaborators (Reference 3) obtained hydrogen and small quantities of methane and ethane by means of irradiation of ethylene by α -particles. Mak-Lennan and Patrik (Reference 4) discovered also acetylene besides H_2 and CH_4 in the reaction products of the radiolysis

of ethylene. Moreover it was found that ethylene is con-

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Radiation-Chemical Conversions of Organic Substances. 62-58-5-3/27 Communication 3: Conversions of Ethylene Under the Action of Rapid Electrons

verted into polyethylene or into liquid products on the action of y-radiation. In the present work, the conversions of ethylene under the action of rapid electrons were investigated, as well as the influence of the irradiation-time of the initial pressure, the dilution of the initial ethylene by means of nitrogen and hydrogen. Gaseous and liquid reaction--products were subjected to the analysis. The authors found that the initial products of the radiolysis of ethylene do not represent hydrogen and methane, as was previously assumed, but butane and acetylene (References 2 to 4). The gaseous reactionproducts contain, besides butane and acetylene, small quantities of C2H6, C4H8 and H2, as well as traces of propylene. Liquid reaction-products (boiling out up to 130°C) consist of aliphatic hydrocarbons C6 and C8. The highest fractions contain important quantities of aromatic and unsaturated hydrocarbons. The formation of hexane, octanes of butane and other highest alkanes is carried out by means of the condensation of aliphatic biradicals and of an even number of carbon atoms with subsequent hydration of the same. The energetic yield of reaction:

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Radiation-Chemical Conversions of Organic Substances. 62-58-5-3/27 Communication 3: Conversions of Ethylene Under the Action of Rapid Electrons

> 16 molecules per 100 eV. A reduction of the initial pressure increases the degree of decomposition of ethylene without influencing the course of reaction. A dilution of ethylene by means of nitrogen increases the conversion substantially (with intense reduction of the yield of gaseous hydrocarbons). A dilution by means of hydrogen does not influence the radiolysis of othylene. There are 2 figures, 4 tables and 10 references, 4 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute for Organic Chemistry imeni N.D. Zelinskiy,

AS USSR)

SUBMITTED:

February 8, 1957

1. Organic substances--Effects of radiation 2. Radiation--Chemical

effects

Card 3/3

8/076/60/034/05/17/038 B010/B002

AUTHOR:

Bogdanov, V. S. (Moskya)

TITLE:

Investigation of Aerosol: Formed During Radiochemical

Reactions

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 5,

pp.1044-1049

TEXT: The author investigated the formation and the further changes of aerosols which are formed by bombarding various gases with fast electrons under different conditions. For this purpose he used a brass vessel (Fig. 1) into which an electron beam was introduced from above, and through which a beam of light passed from the side (through two opposite glass windows). The light was weakened by the formation of an aerosol mist, which was recorded by a \(\text{C3T} - 47\) (GZP-47) mirror galvanometer via a photocell. The dispersity and the electrical properties of the aerosol wer determined by means of a Millikan condenser. Gas analyses were carried out by means of a \(\text{BTM} - 2^\) (VTI-2) apparatus. The author undertook experiments with illuminating gas (96% CH₄, 3% N₂, 0.6% C₂H₆ and 0.4% H₂), methane coxygen mixtures (75% CH₄ and 25% O₂), methane (98% CH₄, 2% N₂), and Card 1/2

Investigation of Aerosols Formed During Radiochemical Reactions

S/076/60/034/05/17/038 B010/B002

ethylene (96.2% C₂H₄, 2.5% H₂, 0.8% N₂, 0.5% C₂H₆), and studied the effect of electron bombaidment, temperature, and pressure upon the formation and the properties of the resulting aerosols. It was found that the particle size of the aerosols formed in methane amounts to some tenths of a micron (Table 1), and that the particles are partly positive and partly negative (charges of 1 11 elementary units). The major part of particles (66%) has charges of -3 elementary units, and the number of charged particles depends on the degree of dilution of the aerosol (Table 1). Data on the mean charge calculated from P. Lisscvskiy's equation (Ref. 6) are given in Table 2. Furthermore, the author studied the dependence of concentration and yield of aerosols produced from methane on the amount of adsorbed energy. The yield in ethylene is 32 times larger than the highest yield produced in methane. Finally, the author thanks Professor N. N. Tunitskiy for his valuable advice. There are 6 figures, 2 tables, and 6 references:

SUBMITTED: August 15, 1958

Card 2/2

BOGDANOV, V. S., Cand. Chem. Sci. (diss) "Investigation of Aerosols Arising in Radiation-Chemical Reactions." Moscow, 1961, 14 pp. (Scient. Res. Phys-Chem. Instit. im. L. Ya. Karpov) 150 copies (KL Supp 12-61, 255).

26404 \$/062/61/000/008/009/010 B117/B206

5.4600

Bogdanov, V. S.

TITLE:

AUTHOR:

Dispersity and electrical properties of aerosols forming

during radiolysis of gaseous hydrocarbons

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimioheskikh

nauk, no. 8, 1961, 1520-1 ?

TEXT: The author investigated the dispersity and electrical properties of aerosols formed during radiolysis of methans, ethans, propagation-butans, ethylene, methans-oxygen mixture (4:1) and ethyleneoxygen mixture (1:1). The radiolysis was done in a 2-1 metal reaction-vessel on the accelerator. The mean energy of the accelerated electrons amounted to 112 kv after they have left the outlet. The aerosols formed were investigated by photographic oscillation method according to N. A. Fuks and I. V. Petryanov (Ref. 3: Zh. fiz. khimii 4. 567 (1933);
I. V. Petryanov, P. V. Lisovskiy and G. L. Natanson, Zavedsk laboratoriya, Nº 10, 1219 (1948)). The potential on the condenser plates amounted to 80 v, the distance between them to 2.08 mm. The commutation period of

Card 1/5

CIA-RDP86-00513R000205910001-3

26404 \$/062/61/000/008/009/010 B117/B206

Dispersity and electrical properties ...

the reversal of the direction of the electric field amconted to 2 sets. When calculating the sizes and charges of the particles, corresponding viscosity coefficients were used. The density of the droplets was assumed to be equal to the density of the condensate. This was determined by a pycnometer. The aerosols were always produced with a weight concentration of 1 mg/l. This was determined by an COW (SPP) apecial filter. The countable concentrations were determined in an altramicroscope of the type BAK-4 (VDK-4), the mode of operation of which was described in Ref. 5 (B. V. Deryagin i G. Ya. Vlasenko. St. "Novyve ided woblasti izucheniya aerozoley" Izd. AN SSSR. M.-L., 1949, str. 7). All experiments were made at room temperature with an electron beam intensity I = 100 µa and a gas pressure in the reactor of p = 1 kg/lm². In order to obtain the weight concentration of 1 mg/l, the irradiation time was changed between 6 sec and 30 min, according to the gas used. The countable concentrations during irradiation of the substances investigated were: 5.8·10 fr CH₄, 5.7·10 for C₂H₆, 6.0·10 for C₃H₆. 5.8·10 for n-C₄H₁₀, 6.0·10 for C₂H₄, 5.4·10 for CH₄+0₂ and 5.7·10 particles/cm³

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Dispersity and electrical properties...

26404 S/062/61/000/008/009/010 В117/В206

for $C_2H_4+0_2$. The number of measured particles for aerosols was 252 CH_4 , 232 c_2H_6 , 212 c_3H_8 , 231 $n-c_4H_{10}$, 290 c_2H_4 , 220 cH_4+0_2 , 234 $c_2H_4+0_2$. The sizes of the particles were within the range of the radii from 0.4 to 2 μ_{\star} the main mass of the particles being distributed within a still narrower range: between 0.9 and 1.5 μ . For experiments with ethylene, the distribution curve is displaced into the range of smaller radii, for experiments with C2H4+O2 into the range of greater radii. Compared with the method of the perpendicular electric field (Ref. 1: Autor, Zh. fiz. khimii, 34, Nº 5, 1050 (1960)), the method described produces more accurate results, since measurements may be made within a few minutes, whereby the aerosol systems hardly change. The dispersity of the aerosols may be differential according to radiation intensity and absorbed energy. Thus, when irradiating methane with a dose of one tenth only. more highly disperse aerosols were obtained. On the one hand, aerosols are forming during the irradiation of gaseous hydrocarbons according to the mechanism of a chemical condensation at room temperature. On the other hand, they form right from the start in strongly ionized, bipclar atmosphere. For this reason, the majority of the particles is charged. in contrast to Card 3/5

26404 \$/062/61/000/008/009/010 B117/B206

Dispersity and electrical properties...

condensation aerosols. The charge of the individual particles was measured simultaneously with the determination of the dispersity (Table). 60 to 80 % of the particles were found to be charged negatively as well as positively. The quantity of the charge varies between 1 and 67 elementary charges. The overwhelming majority, however, has relatively small charges. There are 2 figures, 1 table, and 6 Soviet references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry imeni

N. D. Zelinskiy, AS USSR)

SUBMITTED:

February 21, 1961

Card 4/5

S/020/61/136/001/025/037 B004/B056

5.4500(B) AUTHOR: BO

Bogdanov, V. S.

TITLE:

The Formation of Aerosols During Radiolysis of Gaseous

Hydrocarbons

PERIODICAL:

Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 1,

pp. 121-124

TEXT: Investigation of formation and destruction of aerosols under the effect of radiolysis of gaseous hydrocarbons is the aim of the present paper. Optical method of investigation and determination of aerosol weight concentration was already described in Ref. 1. Irradiation was made by 112-kev electrons. For comparison with the investigations described in Refs. 2-7, experiments with ethane, propane, n-butane, ethylene, propylene, and methane-oxygen mixture were made in a brass reaction vessel, those with acetylene in an iron vessel, and those with ethylene-oxygen mixture in an aluminum container. Volume of the vessels was 2 liters. Fig. 1 illustrates attenuation of light versus time for the aerosols produced during 30 min of irradiation of C₂H₆, C₃H₈, and n-C₄H₁₀ at 20°C, Card 1/5

, γ

The Formation of Aerosols During Radiolysis S/020/61/136/001/025/037 of Gaseous Hydrocarbons B004/B056

1 atm, and an intensity I of the electron beam of 10 µa and 100 µa. Fig. 2 shows the results of irradiation of $CH_4 + O_2$ (4:1), $C_2H_4 + O_2$ (1:1) at p = 1 atm, $I = 100 \mu a$, $t = -10^{\circ}C$ (curves 1,2) $t = 20^{\circ}C$ (curves 3,4) and of $_{3}^{H}6$ at p = 1 atm, $t = 20^{\circ}C$, $I = \mu a$ (curve 5) and $100 \mu a$ (curve 6). Time of irradiation for curves 1-5 was 30 minutes, for curve 6, 10 minutes. Temperature dependence of aerosol formation is discussed and referred to the formation of various products (in the case of CH₄ + O₂ chiefly HCOOH, HCOH, and peroxides, in the case of $^{\rm C}_{\rm 2}^{\rm H}_{\rm 4}$ + $^{\rm O}_{\rm 2}$ chiefly products with high boiling point). The changes in the aerosol phase affect the course of the radiochemical reaction. Fig. 3 shows weight concentration versus time for aerosols produced by radiolysis of $_{2}^{H}_{6}$, $_{3}^{H}_{8}$, $_{n-0}^{C}_{4}^{H}_{10}$, $_{6}^{C}_{4}$ + $_{2}^{O}$ (4 : 1), $^{\text{C}}_{2}^{\text{H}}_{4}$ + $^{\text{O}}_{2}$ (1 : 1), t = 20 $^{\text{O}}_{\text{C}}$, p = 1 atm. Fig. 4 gives the weight concentrations for C2H4, C3H6, C2H2 aerosols. It was found that in the reaction range the aerosol phase is enriched with increasing dose with different rate and concentration for different hydrocarbons, and that a subsequent destruction of this phase takes place. The aerosols last a short time after irradiation. A

The Formation of Aerosols During Radiolysis of Gaseous Hydrocarbons

S/020/61/136/001/025/037 B004/B056

considerable portion of the products formed on radiolysis passes the aerosol phase. There are 4 figures, 1 table, and 7 references: 6 Soviet and 1 US.

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

PRESENTED: July 7, 1960, by B. A. Kazanskiy, Academician

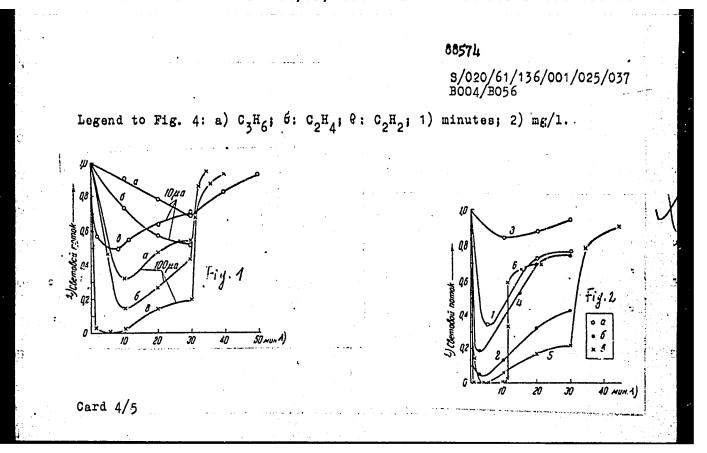
SUBMITTED: July 5, 1960

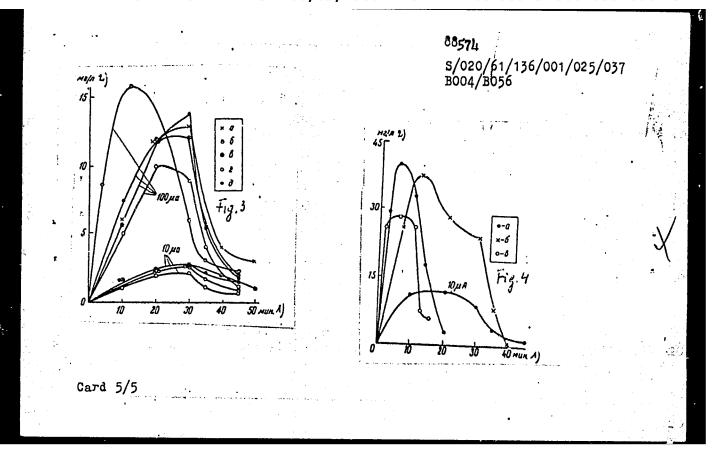
Legend to Fig. 1: a) C_3H_8 ; 6) C_2H_6 ; 9) $n-C_4H_{10}$; 1) minutes, 2) luminous

Legend to Fig. 2: a) $CH_4 O_2$; 6: $C_2H_4 + O_2$; 8: C_3H_6 ; 1) minutes, 2) luminous flux.

Legend to Fig. 3: a) $CH_4 + O_2$; 6: $C_2H_4 + O_2$; 8: C_2H_6 ; 3: C_3H_8 ; 9: C_4H_{10} ; tes, 1) minutes, 2) mg/1.

Cerd 3/.5





8/844/62/000/000/072/129 D214/D307

AUTHOR:

26 1420 (11 4026 Boglanov, V.

TITLE:

Aerosols formed during radicchemical reactions

SOURCE:

Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, 415-419

TEXT: The formation and destruction of aerosols was studied during the exposure of various saturated and unsaturated hydrocarbons. Weight concentrations of the aerosols and their ability to absorb light increased to a maximum and then decreased with increasing times of the exposure. The highest weight concentration was found in C_3H_6 (40 mg/l) for a dose of 1.75 x 10^{22} , and the lowest in CH_4 (1.2 mg/l) for a dose of 4.3 x 10^{22} ev. An increase in the beam inaerosol in n-C₄H₁₀ from 2.3 to 7.5 mg/l (dose = 1.1 x 10^{22} ev), while in C_3H_6 (dose = 3.5 x 10^{21} ev) the concentration fell from Card 1/2

Aerosols formed during ...

\$/844/62/000/000/072/129 D214/ב307

11 to 9.5 mg/1. The number of radiochemically changed molecules of the hydrocarbon found in the aerosol per 100 ev (G_a) increased with exposure in CH_4 , passed through a maximum in C_2H_6 and C_3H_8 and decreased in all other systems studied. Ga values for the unsaturated hydrocarbons were higher than for saturated compounds. The radius of the droplets in CH₄ (exposure time = 30 min, atmospheric pressure, 20°C, intensity = 100 ma, weight concentration 1.2 mg/l) was 0.2 - 0.6 u. Up to 80% of the drollets were charged with 1 - 10 units, half of which were negatively charged. There are 4 figures and 1

ASSOCIATION:

Institut organicheskoy khimii AN SSSR im. N. D. Zelinskogo (Institute of Organic Chemistry AS USSR im.

Card 2/2

CHECOLIN, P.M.; BOGDANOV, V.S.

Automatic photoelectronic decoder of printed information. Izve vys.ucheb.zav.; prib. 5 no.6858-66 62. (MIRA 15:12)

1. Ryazanskiy radiotekhnicheskiy institut. Rekomendovana kafedroy priborov upravleniya i vychislitel'noy tekhniki.

(Electronic data processing)

1 21777-65 EPF(c)/EWG(1)/EWA(h)/EWP(1)/EWT())/EWA(1) Pc-4/Pr-4/Pob RAEM(1)

ACCESSION NR: AP4044708

S/0062/64/000/008/152-/1525

AUTHOR: Mikhaylov, B. M.; Kiselev, V. G.; Bogdanov, V. S.

TITLE: Conversion of water gas by means of fast electrons

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1964, 1524-1526

TOPIC TAGS: water gas, water gas conversion, fast electrons, radiolysis, reaction mechanism, bicarbonyl, glyoxal, carbon suboxide, glycol aldehyde, methanol, peroxide formation

ABSTRACT: The radiolysis by fast electrons (115 kev, integral dose rate of 0.4-3.3 x 10.23 ev) of mixtures of CO and H₂ was studied under equilibrium conditions at room temperature. The product yield, depending on initial composition subjected to radiolysis, is summarized in fig. 1. The main oxygen-containing products were glyoxal, CO₂ and C suboxides (C₃O₂)_x; no glycol aldehyde, methanol, peroxides or gazeous hydrocarbons were detected. A small amount of H₂ increased the decomposition of CO; additional H₂ had little effect. 50-56% of

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L 21777-65 ACCESSION NR: AP4044708

the initial C, 25-40% of the H₂ and 70-95% of the C appeared in the radiolysis products, indicating additional compounds (high molecular oxygen-containing compounds and hydrocarbons) were formed also. On increasing pressure from 0.2 to 1 atmosphere the yield of all radiolysis products increased, except for CO₂ which decreased. The following mechanism was proposed: an excited CO molecule reacts with znother CO molecule, even in the presence of H₂, to form the bicarbonyl -C2-CO-, which then reacts with H₂ to form glyoxal. Or the bicarbonyl reacts with additional CO to form CO₂ and the suboxides. Orig. art. has: 3 figure

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

SUBMITTED: 08Jan64

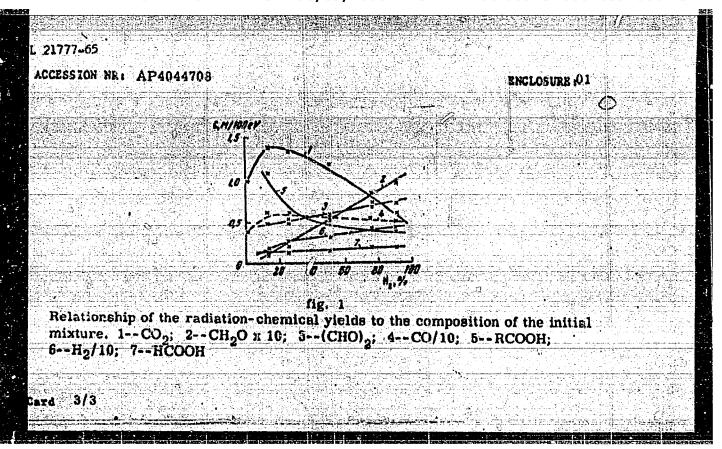
ENCL: 01

SUB CODE: GC

NO REF SOV: 002

OTHER: 005

Card 2/3



MIKHAYLOV, B.M.; KISELEV, V.G.; BOCDANCV, V.S.

Conversion of water gas by fast electrons. Izv. AN SSSR. Ser. khim. no.8:1524-1526 Ag '64. (MIRA 17:9)

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

MIKHAYLOV, B.M.; BOGDANOV, V.S.; KISELEV, V.G.

Rejuction of carbon dioxide by hydrogen under the effect of fast electrons. Izv. AN SSSR. Ser. khim. no.7:1271-12/3 '65. (MTRA 18:7)

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

ZHOEHOVSKIY, M.K.; BOGDANOV, V.S.

importmental determination of volume jump on the melting of benzene and nitrobenzene under pressure up to 10,000 kg/cm². Zhur.fiz.khim. 39 no.10:2520-2525 0 '65. (MIRA 18:12)

1. Vsesoyuznyy institut fiziko-tekhnicheskikh i raalotekhnicheskikh izmereniy. Submitted August 4, 1984.

L 21561-66 EWT(m)/FMY(j)/T - WW/JW/JWD/RM
ACC NR. AP6009805 SOURCE CODE: UR/0062/66/000/002/0386/0386
AUTHOR: Mikhaylov, 'B. H. Bogdanov, V. S.; Lagodzinskava, G. V.; 3

ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, Academy of Sciences SSSR (Institut organicheskoy khimii Akademii nauk SSSR)

TITLE: Allyli rearrangement in triallylboron

SOURCE: AN SSSR. Izvestiya. Seriya khimichaskaya, no. 2, 1966, 386

TOPIC TAGS: organoboron compound, allyl compound, isomerization

ABSTRACT: The study of triallylboron by means of NMR spectra led to the discovery of allylic rearrangement in this compound. This rearrangement is shown as follows:

(C₈H₈)₂B-Cil₂-CH=CH₂ ⇒ transition ⇒(C₂H₈)₈B-CH₂-CH₂=Cil₂

The rate of this rearrangement varies with temperature: from 4.7 cps at =25C to 3.3 cps at 80C. The lifetime for each state in this temperature range varies from 2·10-1 to 3·10-1 sec. The calculated activation energy of the process is 11 kcal/M. The authors intend to continue their SUB CODE: 07/ SUMB DATE: 24Nov65/ ATD PRESS: 4219

L 23736-66 EWT(1)/EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EVP(k). LJP(c) JD/WH/JG/GG ACC NR: AP6006801 SOURCE CODE: UR/0386/66/003/001/0044/0047

AUTHOR: Bogdanov. V. S.

ORG: All-Union Scientific Research Institute of Physicotechnical and Radiotechnical Measurements (Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy)

TITLE: Jump in volume and melting curve of cesium at pressures up to 17,000 kg/cm² z/

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 1, 1966, 44-47

TOPIC TAGS: cesium, melting, pressure effect, temperature dependence ABSTRACT: The author shows that confirmation of the experimentally observed maximum on the melting curve of cesium, which is presently under doubt because the experiments were carried out in apparatus with a quasihydrostatic medium, and which cannot be checked otherwise for lack of a complete theory of melting, can be verified by measurement of the jump of volume along the melting curve. On approaching

L 23736-66

L 23736-56 ACC NR: AP6006801

the maximum the magnitude of the volume should tend to zero, in accord with the Clayperon-Clausius equation. He then reports an experiment in which this volume jump was determined, using apparatus and a procedure described in detail elsewhere (ZhFKh v. 39, 2520, 1965). A plot of the dependence of the volume jump on the melting temperature is presented and is shown to fit the empirical formula $\Delta V = 0.0125 - 0.066 \log(T/302.9)$. Extrapolation of the plot to zero jump yields a temperature of 469.2K for the maximum on the melting curve of cesium, and agrees with the value (470K) obtained by G. C. Kennedy et al. (Phys. Rev. 126, 1363, 1962). The pressure variation of the melting temperature obtained by the author differs somewhat from Kennedy's data, which were obtained with a quasihydrostatic medium, and the reasons for the systematic discrepancy are explained. It is concluded that the experimental measurement of the jump in the volume of cesium as a function of the melting temperature points to the existence of a maximum on the melting curve. Orig. art. has: 2 figures and 1 formula.

SUB CODE: 20/ SUBM DATE: 17Nov65/ ORIG REF: 003/ OTH REF: 005

2/2 ULR

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000205910001-3 SOURCE CODE: UR/0062/66/000/005/0944/0945 MH/MK/WM EWT(m)/EWP(j) L 36517-66 AUTHOR: Bogdanov, V. S.; Lagodzinskaya, G. V.; Pozdnev, V. F.; Mikhaylov, B. H. ACC NRI \ AP6017885 ORG: Institute of Organic Chemistry im. N. D. Zelinskir, Academy of Sciences, SSSR (Institut organicheskoy khimii Akademii nauk SSSR) TITLE: Allyl rearrangement in allylboracyclopentane and triallylborane-pyridine SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1966, 944-945 TOPIC TAGS: organoboron compound, NMC spectrum ABSTRACT: The NMR spectra (60Mc) of allylboracyclopentane [(CH2)4BC3H5], dimethyl allylboronate [(C3H5B(OCH3)2], allylboronic anhydride (C3H5BO), diallylboronic anhyallylboronate L(C3H5H(CCH3/2], allylboronic anhydride (C3H5HO), diallylboronic annydride ([(C3H5)2B]2), allyl borate [B(CC3H5)3], triallylborane-pyridine complex dride ([(C3H5)2B-NC5H5],) triallylamine [(C3H5)3N] and tetraallylsilane [(C3H5)4Si] were internal stanformation and triallyl radical was found to occur vestigated at various temperatures, with hexamethyldisiloxane as the internal stanford. The equilibrium exchange of CH2 groups in the allyl radical was found to occur only in two commonds. only in two compounds, i.e., allylboracyclopentane and triellylborane-pyridine. In allylboracyclopentane (as well as triallylborane), the following equilibrium exchange BCH2CH=C*H2 = transition state = BC*H2CH=CH2, occurs: UDC: 542.952.1 + 661.718.4 + 541.67 Card 1/2

omplex, a wo orders	n AX4- of ma line, t numption	type spectr agnitude small	um arises ller than erchange d	only at abo in triallyl rong by a f	ut 160°C, a borane. Who actor of app	triallylborane-py nd the rate of ex en the complex is proximately 4, wh e instant of dis-	diluted nich leads
UB CODE:	07/	SUBM DATE:	16Feb66/	ORIG REF:	001		•
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Card 2/2,	م روند						

BOGDANDY VASIL T.

BULGARIA/ Chemical Technology. Chemical Products and Their

I-7

Application, Pesticides

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 12410

Author

: Bogdanov Vasil T.

Inst

: Ministry of Agriculture

Title

: Comparative Characteristics of Arsenic-Containing

Insecticides Used as Sprays in Bulgaria

Orig Pub

: Sravnitel'na kharakteristika na upotrebyavanite v B" lgariya arsen s"d"pzhashchi insektitside za pr"skane. Nauch. tr. M-vo zsmed. Ser. rastennev"detvo, 1956, 1, No 2, 41-49 (Bulgarian; Russian and English summaries)

Abstract

: Characteristics are provided of the following products of the plant imeni Angel Vylev: Paris Green (I), arsenates of Pb (II) and of Ca (III). Described are the quality control standards for I, II and III, and their inadequacy is pointed out, and other indices are proposed in lieu thereof. Comparative results are presented of

Card 1/2

- 33 -

STEFANOVICH, M.A.; SHPARBER, L.Ya.; BOGDANOV, V.V.

Reducing effect of gases in blast furnace stacks. Stal¹ 22 no.8:687-692 Ag ¹62. (MIRA 15:7)

l. Magnitogorskiy gorno-metallurgicheskiy institut i Magnitogorskiy metallurgicheskiy kombinat. (Blast furnaces) (Gases)

Making large products without using cement. Seroi. mat. 7 no. 1:17-19 Ja '61. (MIRA 14:1) 1. Glavnyy inzhener zavoda zhelezobetonigkh izdeliy No. 1. (Kalinin Province—Precast concrete) (Sand-line products)

ACC NR. AP6035893

SOURCE CODE: UR/0413/66/000/020/0130/0130

INVENTOR: Gol'tsman, F.M.; Birman, A. Ye.; Moiseyev, O. N.; Slutskovskiy, A. I.; Bogdanov, V. V.; Yungans, V. Yu.; Kartavtsev, S. M.; Nakhamkin, S. A.

ORG: None

TITLE: A device for producing summation tapes based on the method of controlled directional reception of seismic waves. Class 42, No. 187333

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 130

TOPIC TAGS: seismic wave, seismography, data analysis, electronic equipment

ABSTRACT: This Author's Certificate introduces: 1. A device for producing summation tapes based on the method of controlled directional reception of seismic waves. The installation consists of a magnetic recorder, amplifiers and a multichannel summation unit. The speed of seismogram analysis is increased by basing the multichannel summation unit on delay lines equal in number to the channels to be added. Taps are made from each line corresponding to the various directions of summation, as well as taps from the various delay lines corresponding to one and the same direction of summation. These taps are connected through decouplers and resistors placed at the inputs of the summation amplifiers to filters with their outputs connected to recording galvanometers. 2. A modification of this device in which the winding of the step

Card 1/2

UDC: 550.340.8

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CIA-RDP86-00513R000205910001-3

ACC NR: AP6035893

switcher which reverse the magnetic recording heads is connected to a contact mechanism on the magnetic recoring drum. 3. A modification of this device in which scatter in the amplification factors of the summation amplifiers is compensated by making the resistors at the input to these amplifiers in two sections, one of which is a potentiometer. 4. A modification of this device in which summation quality is improved by using an automatic amplification control system after the frequency filters during playback.

SUB CODE: 09 08/ SUBM DATE: 23Apr65

Card 2/2

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000205910001-3

ACC NR:

AP7002979

SOURCE CODE: UR/0413/66/000/024/0077/0077

INVENTOR: Slutskovskiy, A. I.; Bogdanov, V. V.; Yungans, V. Yu.

ORG: None

TITLE: A procedure for making kinematic corrections in analyzing seismic recordings. Class 42, No. 189599 [announced by the All-Union Scientific Research Institute of Geophysical Exploration Methods (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 77 TOPIC TAGS: seismologic instrument, wave analysis, tape recorder, SEISMOGRAPHY

ABSTRACT: This Author's Certificate introduces a procedure for making kinematic corrections in analyzing seismic recordings tape-recorded by the reflected wave method. Time delay is used for improving accuracy during forward or reverse playback of the oscillations. A programmed switch is used for varying the number of links in the electric delay line during transcription of a single channel. This switch is mechanically connected to the rotating axle of the magnetic tape drum. In passing from transcription of one channel to transcription of another, the delay time of each link and or the line as a whole is changed by varying the magnetization current passing through the auxiliary windings of the chokes in the delay line in such a way that corrections are made for any channel by exact formulas in minimum time.

SUB CODE: 08, 09/ SUBM DATE: 29Aug64

1/1 Card

WC; 550.834

BOGDANOV, V. V. instruktor

Creatively, with all their hearts.... Okhr. truda i sots. strakh. 3 no.9:25-28 S '60. (MIRA 14:4)

1. Sverdlovskiy oblsovprof.
(Sverdlovsk—Turbomachines)
(Sverdlovsk—Industrial hygiene)

Interesting activities. Okhr.truda i sots. strakh. 5 no.2:17
F '62. (Mining engineering. -Hygienic uspects)

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	AUTHOR: Bayevskiy, R. M. (Moscow); Bordaney, Y. V. (Moscow); Zhdanov, A. H. (Noscow); Kazar'yan, L. A. (Moscow); Iazdovskiy, V. I. (Moscow)	
	TITIS: Computer monitoring of physiological conditions in space flight Off	
	dounce: Vsesoyuznaya konferentsiya po aviomaticheskosa kontrolyu i metodas elektricheskikh izmereniy. 4th, Novosibirak, 1962. Aviomaticheskiy kontrol' i metody elektricheskikh izmereniy; trudy konferentsiy, t. 2: Teoriya izmeritel'nykh informatsionnykh mistem. Sistemy aviomaticheskogo kontrolya. Elektricheskiye izmereniya neelektricheskikh velichin (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Theory of information measurement mystems. Automatic control mystems. Electrical measurements of nenelectrical quantities). Novomibirak, Redizdat Sib. otd. AN SSSR, 1964, 93-99	
	TOPIC TAGS: digital computer mystem, space physiology, space medicine equipment,	
51.7°		

L 59502-65 ACCESSION NR: AT5013040

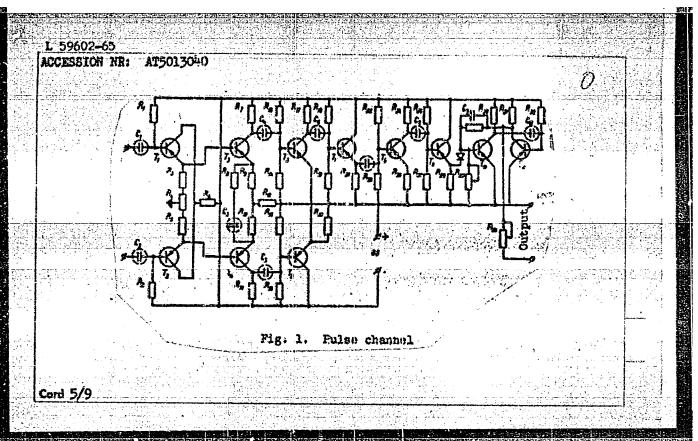
ARSTRACT: The digital computer technique of monitoring the physiological state of spaceship crews and life support systems permits complete simulation of medical logic in cases which can be described by a definite algorithm. The general principles of "machine diagnosis" pertain equally to clinical electronic diagnostic equipment and medical monitoring systems for space flight. The only basic difference is that the spaceship monitoring system is made for the direct input of data from sensors positioned on the human body. Table 1 lists methods currently in use for medical monitoring. Typically, a special complex of sensors and amplifiers is used to measure the necessary physiological parameters, which are fed directly into the computer. A basic problem is the reliability of measurements during prolonged flights, with external interference and movement by the subject being monitored, With the proper selection of the biopotential tapping points, good fitting of the electrodes, and an interference-free measuring system, the electrocardiographic method provides a reliable pulse rate recording over long periods of time. Fig. 1 is a schematic of a pulse-measuring channel. For measuring skin temperature, six semiconductor thermistors connected in series in one arm of a measuring bridge are used (Fig. 2). Conditioned

Cord 2/9

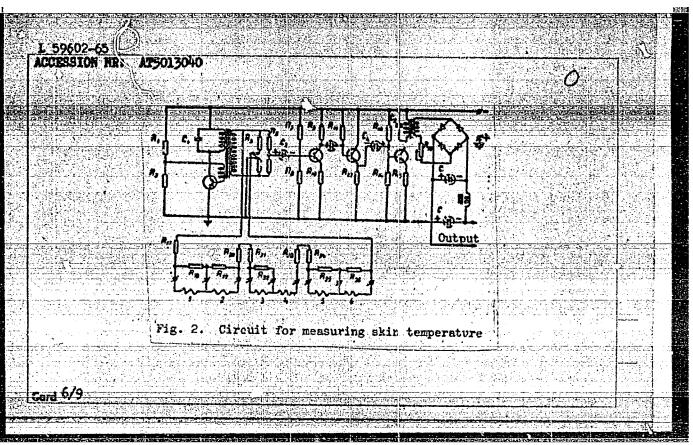
	Table 1. Met	hods of medical monito	oring during space.	<i>O</i> flight	
	Method	Parameter	Range of measurement	Required	7
E.] 331	Riectrocardiography	Pulse rate	30-300/min	<u>≬</u> 1/min	
	Pneumography	Respiration rate	6-120/min	.⊹1/min	
	Cutaneous thermometry	Skin temperature	20—40C	+0.1c	
	Motor activity	Muscular movement	0-7 rel. units		
	Cutanec gal vancaetry	Cutaneo-galvanic reaction	0-100 mv	i by	

ACCESSION NR: AT5013040		(Continued In	om card 3/9)	
Pericardiac ballisto- cardiography	Mechanical work	10-20 mm/sec ²	+1 mm/sec ²	
Recording of conditioned- motor reactions	Latent period of conditioned reac-	±0:1—2 sec	±0.01 sec	
Control of the contro				
motor reactions are meas stimuli to which the perso cuit used; it includes two				

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oscillator. Upon command from the digital computer, a light signal is switched on; if no response follows, a sound stimulus is given after a certain time has elapsed. The prescribed duration of this signal is regulated within 0—10 sec. The instants of application of the stimulus and the reception of the response signal are recorded by the computer, and the duration of the latent period of response is calculated.

The measuring system is a separate assembly. It can be used for direct recording of physiological data without the computer. Monitoring of the cabin pressure and temperature, gas composition of the air, g-forces, vibration, and radiation is also computerized.

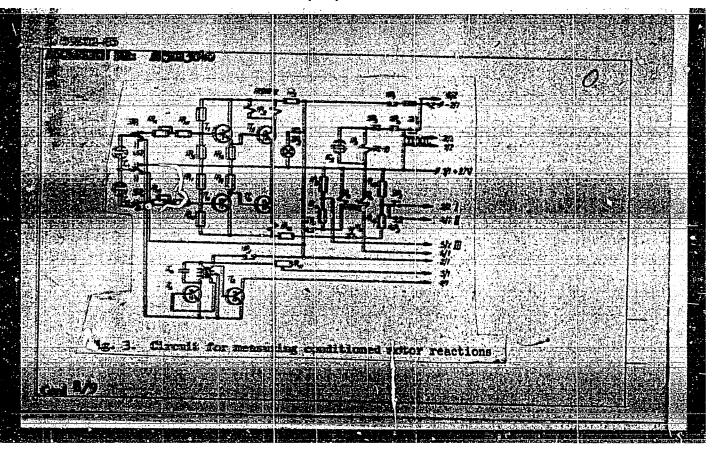
The digital computers used for biomedical monitoring differ from only a few specific details of individual units.

The digital computers is only a few specific details of individual units.

The digital computers is only a few specific details of individual units.

The digital computers is only a few specific details of individual units.

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flight, e.g., from 10-	20 sec during the pow	ered portion w	hen-d=forces		
orbital portion. The co	tain maximum intensimputation rate of the	ty, up to 5—10 arithmetic unit	min during the for fixed-point manent stance	ie it	
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carries the program and principle is used in the alphanumeric printer an a quick rearrangement cion. Orig. art. has: ASSOCIATION: none	the numerical construction of the numerical control system. The confidence of the correction of the figures, 3 tables.	ants. The micr output unit is e The computer he program dur	oprogrammin quipped with a provides for ring the opera	g in	

ACCESSION NR: AT4037707

S/2865/64/003/000/0379/0388

AUTHOR: Vayevskiy, R. M.; Bogdanov, V. V.; Voskresenskiy, A. D.; Yegorov, A. D.; Chekhonadskiy, N. A.

TITLE: The application of mathematical methods in space medicine

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy* kosmicheskoy biologii, v. 3, 1964, 379-388

TOPIC TAGS: space medicine, mathematics, cybernetics, space flight, pulse rate, acceleration, cosmonaut, manned space flight

ABSTRACT: This article deals with the interpretation of results and concepts presented in six articles which were published in 1962-1963. These articles were written chiefly by the author of the article reviewed here. It is stressed that in the last few years new trends have appeared in biology and medicine where mathematical methods are extensively used. These trends appear to be of great importance in space biology and space medicine because of special conditions affecting biological experiments and medical protection of organisms during space

Card 1/3

ACCESSION NR: AT4037707

flights. An important problem of space biology and medicine is that of obtaining scientific information during space flights and transmitting the information to earth by means of radiotelemetering systems. The determination of optimal methods for coding such information which will ensure the most effective utilization of channels is the most important factor in designing radiotelemetering systems in space ships. For the solution or such problems the mathematical apparatus of the information theory is proposed. As an example, certain problems in coding electrocardiograms are presented. The problem of coding of information includes the problem of designing simple and economical doding devices such as digital computers, integrators, and others. Functions to be performed by computers in spaceships and the principles of their design are analyzed. It is noted that development of algorithms for computers in spaceships is a very complicated problem whose solution will require the use of mathematical logic, probability theory, and other mathematical disciplines in addition to biological and medical information. As an example, an algorithm for processing electrocardiograms is presented. The methods of mathematical simulation must be applied to the construction of schemes for analyzing and prognosing changes in the state of an astronaut. Mathematical models reflecting the dynamics of physiological indices (pulse rate, blood pressure, etc.) due to the action of certain factors during space flight can be

Card 2/3

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ACCESSION NR: AT4037707

developed on the basis of experimental data obtained in laboratories by using the methods of mathematical statistics. Statistical indices such as mathematical expectation, variance, and correlation function must be established. Pecularities encountered in determining statistical indices for space biology and space medicine are analyzed. As an example, the problem of prognosing the pulse rate when a cosmonaut is subjected to linear accelerations is presented. It is concluded that quantitative descriptions of physiological processes and the construction of mathematical models reflecting the principal changes in organisms under various space flight conditions are possible. The authors believe that the problems analyzed in the article represent only a small part of the questions in space biology and space medicine which will require mathematical methods for their solution.

ASSOCIATION: none

SUBMITTED: 00

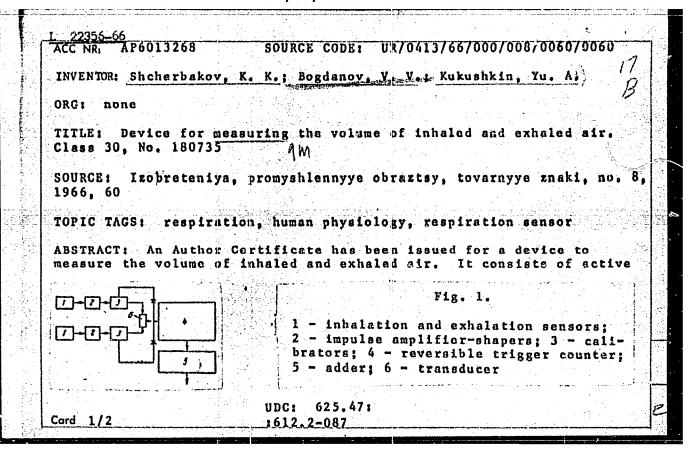
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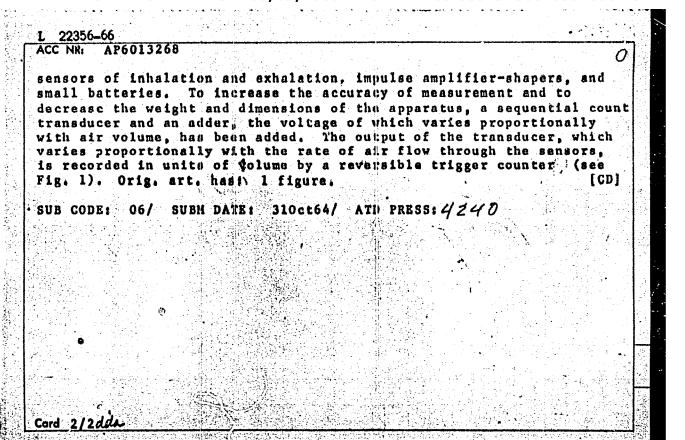
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OTHER: 000

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ACC NR. APOULTYOL

SOURCE CODE: UR/0413/66/000/010/0085/0085

INVENTOR: Slutskovskiy, A. I.; Bogdanov, V. V.; Pishchulin, V. V.; Veksler, B. Ye.; Ayzman, Yu. A.; Malinskiy, S. A.

ORG: None

.....

TITLE: Automatic gain control for amplifiers in seismic prospecting units. Class 42, No. 181828

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 85

TOPIC TAGS: seismic prospecting, automatic gain control

ABSTRACT: This Author's Certificate introduces an automatic gain control for amplifiers in seismic prospecting units. The device is based on Author's Certificate No. 119689. Recording clarity with respect to amplitude is improved and the width of the illegible washout zone is reduced in the region of first arrivals by using stabilitrons in charging and discharging the filter capacitor for various purposes.

SUB CODE: 09, 08/ SUBM DATE: 29May63

Card 1/1

UDC; 534.632;681.892

ACC NR: AP7005645 SOURCE CUDE: UR/0413/67/000/002/0094/0094

INVENTOR: Slutskovskiy, A. I.; Bogdanov, V. V.; Yungans, V. Yu.

ORG: None

TITLE: A method for introducing kinematic corrections. Class 42, No. 190595 [announced by the All-Union Scientific Research Institute of Geophysical Exploration Methods (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 94

TOPIC TAGS: seismologic instrument, error correction, circuit delay line, magnetic recording

ABSTRACT: This Author's Certificate introduces a method for input of kinematic corrections during analysis of seismic recordings made on magnetic tape by the reflected wave method. The procedure is based on the use of a multiple-element electrical delay line in which the delay time is controlled by the magnetizing current and the number of elements. To increase accuracy in the introduction of kinematic corrections, the delay of the line is varied during retranscription of the oscillations in one channel by changing the amplitude of the magnetizing current in conformity with the first term in the series of the kinematic correction formula. A programmed switch is used for selecting the matching load impedance at the line output, and the number of elements in the line during retranscription of each channel is selected in proportion to the square of the distance from the point of the blast.

SUB CODE: 08.09/ SUBM DATE: 29Aug64

Card 1/1

VDC: 550.834

BOG ANNOV, V. V., chandidat tekhnicheskikh nauk; BOGDANOV, V.V., inshener

Hew apparatus for testing the wear resistance of netals. Shor.st.
HIRCHOMASH no.14:124-130 '53. (MIRA 7:11)

(Metals--Testing)

SHAPIRO, M.B., inshener; BOGDANOV, V.V., inshener.

Tempering crankshaft pins of compressors with an oxyacetylene torch. Vest. mash. 33 no.10:56-58 0 '53. (MLRA 6:10)

(Tempering) (Cranks and crankshafts)

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IEPIKHIN, L.A., inzh.; Prinimali uchastiye: STEFANOVICH, M.A., doktor tekhn.nauk; BABARYKIN, N.N., kand.tekhn.nauk; NEYASOV, A.G., kand.tekhn.nauk; SHPARBER, L.Ya., inzh.; BOGDANOV, V.V., inzh.; ZHARKOV, P.N., master pechi; PANIN, O.G., master pechi; FEDOTOV, V.G., master pechi; FEDFANOV, N.M., master pechi; SAGAYDAK, I.I., inzh., rukovoditel'raboty

Evaluating the effect of various methods of charging a blast furnace on the state of the gas flow in its upper part. Stal' 23 no. 3:198-204 Mr '64. (MIRA 17:5)

1. Magnitogorskiy metallurgicheskiy kombinat (for Lepikhin).

BOGDANOV, V.V.

Mbr., Geological Institute, The Turkemm Affiliate of the Academy of Sciences of the USSR

"Problem of studying runoff from takyrs" Izv. Turk. fil. AN SSSR, no. 2: 18-21 1949 (Submitted May 1948)

BOGDANOV, V.V., Cand Geol-Min Sci-(diss) Recology and the coal-bearing capacity of the Tarbagatayable depositoregion." Len, 1958. 19 pp (Min of Geology and Conservation of Mineral Resources of the USSR. All-Union Sci Res Geol Inst), 100 copies (KL, 45-58, 143)

-37-

Physicoger Basin. Voc	ngraphical charact Incenerg.res.Kol'. (Poncy Valley	eristics and hyd poluos. no.1:5-2 Physical geogr	rography of the 3 '58. (MIRA aphy)	Ponoy 12:3)

BOGDANOV, V.V.; BELOKOSKOVA, T.I.

Linear characteristics of the Kola Peninsula river system. Izv. Kar. 1 Kol. fil. AN SSSR no. 4:83-89 '58. (MIRA 12:5)

1. Otdel gidrologii i gidroenergetiki Kol'skogo filiala AN SSSR.

(Kola Peninsula-Rivers)

SHLYKOV, M.O.; BOGDANOV, V.V.

(Prospecting -- Geophysical methods -- Equipment and supplies)

BOODANOV, V.V.

A survey of the study of lakes of the Kola Peninsula.

Uch.sap.LGU no.292:160-195 '60. (MIRA 13:7)

(Kola Peninsula—Lakes)

BOGDANOV, V.V., starshiy nauchnyy sotrudnik

Physicogeographical characteristics and the lake and river network of the Varzina and Drozdovka Basins. Vodnoenerg. res. Kol!. poluos. no.4:5-38 '60. (MIRA 13:10)

1. Kol'skiy filial AN SSSR.

(Varsina Valley--Hydrography)

(Drozdovka Valley--Hydrography)

BOGDANOV, V.V.

Features of lake distribution and impregnation in the river basins of the Murmansk hydrographical region. Izv. Vses. geog. ob-va 96 no.5:423-427 S-0 '64. (MRA 17:12)

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5 to 1 to 2	Jul. 52 nes Duríng arth Dam by	pacts and their blugs inside of of of intake pipe, suction numpe, ting damage of on intake pipe, and safety reaks in pipe-en.	2t-72
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	USSR/Engireering - Hydraulics, "Preventing Hydraulic Impacts in Construction of the Tsimiya Lydraulic Fill," Engr V. Ya. Bo	Analyzes phenomena of hydraulic impactments such as compact earth pripes, complete or partial clegging of sudden interruption in operation of sudden interruption in operation of setc. Discusses measures for preventing pipelines, describing flap louvers on starting slide valve on pressure pipe, walves in points of most frequent breatines. Drawings of devices are given.	
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BOGADANOV, V.YA., Eng.

Water Hammer

Measures against water hammer in mud carrying pipe lines during the hydraulic fill of the TSimlyansk earth dam

Gidr. stroi. 21, no. 7,1952

BOGGANOV, V. YA.

Subject : USSR/Hydr. Eng.

AID P - 3952

Card 1/1

Pub. 35 - 16/19

Authors

: Bogdanov, V. Ya., N. I. Burenkova, and M. N. Uvarov, Engs.

Title

: Improving the performance of dredges by preliminary mellowing of soil.

Periodical: Gidr. stroi., 7, 43, 1955

Abstract

The article reports on satisfactory results achieved at the Kuybyshev Hydro Power construction project by loosening soil before starting dredge operations. A special plowshare is fastened on the cutter and used for this work. The authors claim that the hydraulic fill mass obtained has a 1:3 ratio.

Institution: None

Submitted : No date

BOGDANOV. V.YA., inshener; KLIMENTOV, A.W., inshener; CHEBOTAREV, F.W.,
inshener.

Improve the equipment and technology for hydraulic mining. Mech.
trud.rab 9 no.10:27-29 0 155.
(Hydraulic mining)

(MIRA 9:1)

BOGDANOV, V. Y..., Master Tech Sci — (ulss) "The hydro-abrasive wear of the suction-dredging equipment." Mascow, 1957. 20 pp (Man Hagner Educ USSR. The Mascow Knybysnev (KL, No 39, 1957) 95

BOGDANOV, V. Ya., inshener.

Prolonging the life of dredging machinery. Mekh.stroi. 14 no.3:11-14 Mr 157. (MIRA 10:4)

BOGDANOV, V.Ya., kapitan.

Reroute the traffic of diesel-engine propelled freighters from the Canal to Lake Ladoga. Rech. transp. 16 no.5:12-13 My '57.

(Ladoga, Lake--Inland water transportation) (Freighters)

BOGDANOV, V.Y. inshener.

Measures for prelenging the life of dredges. Gidr. stroi. 26 no.3 = 33-35 Mr 157. (MIR& 10:4)

BOG DANCE, V. Ya BOGDANOV, V.Ya., pensioner

V.I.Lenin's participation in the creation of a joint transportation worker trade union. Rech. transp. 16 no.11:45 N '57. (MIRA 10:12)

1. Byvshiy kapitan Severo-Zapadnogo parokhodstva.
(Trade unions)

98-58-7-6/21

AUTHORS:

Bogdanov, V.Ya., Candidate of Technical Sciences; Gorin, K.A.

and Zaytsev, N.I., Engineers.

TITLE:

Utilization of Hydrocyclones in the Hydromechanization of Earth Works. (Primeneniye gidrotsiklonov pri gidromekhani-

zatsii zemlyanykh rabot.)

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, Nr 7, 1958, pp 22-23

ABSTRACT:

Experience acquired in the US has shown that hydrocyclones can be successfully used in mechanized mining and earth works. The Laboratory of the Hydromechanization of TsNIIS of the Ministry of Transport Constructions tried out a hydrocyclone with the capacity of 360 - 920 cubic m/hour, whereby pulp with initial density of 18% was concentrated to 88%. The authors describe various cases in which a hydrocyclone can be used for the hydromechanization of earth works. There is 1 diagram and 1 French reference.

1. Mining--Development 2. Hydrocyclones--Operation 3. Hydro-

cyclones--Applications

Card 1/

BOJDANOV, V.Ya., kapitan

Eliminate ice jams and prolong navigation on the Hava. Rech. transp.
17 no. 6:34 Je '58.

(Neva River.-Inland navigation)

(Ice on rivers, lakes, etc.)

BOGDANOV, V.Ya.; kand.tekhn.nauk; GORIN, M.A., insh.; ZAYTSEV, N.I., insh.

Using hydrocyclones in connection with hydraulic fill methods of earthwork, Gidr. stroi. 27 no.7:22-23 J1 '58. (NIRA 11:8) (Separators (Machines)) (Earthwork)

BOGDANOV, V.Ya., kand.teken.nauk

Remote control for hydrautic excavators. Transp.stroi.
9 no.9:35-36 S '59. (MIRA 13:2)
(Remote control)
(Excavating machinery-Hydreulic driving)

SOV/98-59-10-15/20

10(9), 30(1)

AUTHOR:

Bogdanov, V.Ya., Candidate of Technical Sciences

TITLE:

A Remote Control Hydraulic Excavator

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 10, pp 51-52 (USSR)

ABSTRACT:

The article is a brief description of a new remote control hydraulic excavator. The main faults of the present ones are that they are manually operated and have to function at some distance from the actual work-site, which distance is determined by the formula $h = \alpha H$, where α is the coefficient of the material being treated. varying from .5 to 1.2, and H is the height of the bank in meters. However, in order to raise efficiency, the machine should be much nearer the site, as can be seen from the following VNIOMS (All-Union Scientific Research Institute for the Organization and Modernization of Construction) function: $p_1 \left[\frac{40.7}{L} + 30 \right]^2 p_0 \text{ (kgs/cm}^2),$

Card 1/2

where p,1 is the average specific pressure of the jet at the nozzle in kgs/cm2, L is the distance in meters, and d is the diameter of

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A Remote Control Hydraulic Excavator

the nozzle in meters. Fig.l shows a general diagram of a remote control hydraulic excavator designed by the KB "Transgidrostroy". The moving of the shaft on a horizontal plane to 90° and on a vertical plane to 60° is carried out by means of hydraulic cylinders (1 and 2); an oil pump with an electric motor, a 3-position side-valve switch and other equipment requiring the g is contained in a metal casing. The machine is designed for use in soft earth which is partially immndated, and it is protected against dirt and water. The specifications are: diameter of the tubing -250 mm, weight - 1 ton, nozzle diameters - 35, 50, 65, 75, 90, 100 and 110 mm. The machine is controlled from a point which allows the machine to be kept in view, and the layout of the remote control apparatus is seen in fig.2. The first of these machines were made in 1958 and production is expected to increase in the future. There are 2 diagrams.

Card 2/2

BOGDANOV, V. Ye. Doc Med Sci -- (diss) "Treatment of cheonic gastrites and ulcers with mineral waters of the Psekupe drinking-water springs." Krasnodar, "Soviet Kuban'", 1959. 23 pp (Min of Health USSR. Toilisi State Med Inst), 250 copies (KL, 43-59, 127)

-77_

COUNTRY : USSR CATEGORY : Farm Animals.

Q

Poultry.

ABS. JOUR. : RZhBiol., No. 6, 1959, No. 25929

AUTHOR : Bogdanov, Ya. A.

INST.

TITLE

: Winter Raising of Chicks in the Primorskiy

ORIG. PUB. : Ptitsevodstvo, 1958, No 4, 22-25

ABSTRACT : No abstract.

CARD:

1/1

69

BOODANOV, Yakov Mikhaylovich; KRAKOVYAK, Grigoriy Mironovich; KUSHNIR, I.I., redaktor; Manhaylovich; tekhnicheskiy redaktor

[Hygiene] Gigiena. Izd. 2-oe, perer. Moskva, Gos. izd-vo
"Fizkul' tura i sport," 1956. 384 p. (MLRA 10:3)

(HYGIRNE)

BOGDANOV, Ya.M.; KRAKOVYAK, G.M.

Petr Frantsevich Lasgaft (1837-1909). Gig. i san. 25 no.3:49-50 Mr '60. (MIRA 14:5)

1. Iz Instituta fizicheskoy kul'tury imeni P.F. Lesgafta. (LESGAFT, PETR FRANTSEVICH, 1837-1909)

BOGDANOV, Yakov Mikhaylovich, dots.; KRAKOVIAK, Grigoriy Mironovich, dots.; DOBROV, A.A., red.; REKLISOVA, T.D., tekhn. red.

[Hygiene] Gigiena. Moskva, Izd-vo "Fizkul'tura i sport," 1961. 167 p. (MIRA 15:2) (HYGIENE) (PHYSICAL EDUCATION AND TRAINING)

BOGDANOV, Ye. (Irkutsk)

Miniature mirror-type camera. Sov. foto 19 no.10:70 '59.

(MIRA 13:1)

(MIRA 13:1)

One camera contains ten devices. Isobr. i rats. no.7:24-25
163. (MIRA 16:9)

BOGDANOV, Ye., inzhener-kapitan

Targets detected at maximum ranges. Voen.vest. 43 no.7:88-90 Jl. 163. (MIRA 16:11)

BOCDANOV, Ye., inzherer-kapitan

Skillfully exploit technology in Winter. Vcen. vest. 43 no.12:70-72 D '63. (MIRA 17:2)

A.

BOGDANOV, Ye., inzhener-kapitan

Regulation work and the workshop. Tekh. i vooruzh. no.2:48-49
F '64. (MIRA 17:9)

BOGDANOV, Ye. A.

"Methods of Investigating Mechanical Losses in Tractor Engines With Self-Ignition." Cand Tech Sci, Khar'kov Polytechnic Inst imeni V. I. Lenin, Min. Higher Education USSR, Khar'kov, 1954. (KL, No 10, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

BOGHANOV, Ye.h., kandidat tekhnicheskikh nauk.

Friction of piston rings. Avt.i trakt.prom. no.6:11-15 Je 157.

1. Tadzhinskiy sel'skokhczyaystvennyy institut.
(Piston rings)

5,225

TAKHTAROV, Anatoliy Taukenovich; BOGDANOV, Ye.A., red.; GRZHEGORZHEVSKIY, A.N., kand..ekon. nauk, dots., red.; MARTYNOVA,M.N., tekhn.red.

[Technological development in agricultural machinery mamufacture and the increase of labor productivity; based on the materials on agricultural machinery mamufacture of the Central Asian Economic Council] Tekhnicheskii progress v sel'skokhoziaistvennom mashinostroenii i rost proizvoditel'nosti truda; na materialakh sel'akokhoziaistvennogo mashinostroeniia Sredneaziatskogo Jovnarkhoza. Moskva, Izdvo "Mysl'," 1964. 87 p. (MIRA 17:3)

BOGDANOV. Ye.A.

Power losses in the D-54 tractor engine. Izv. Otd. est.nauk AM Tadzh.SSR no. 18:35-47 '57. (MIRA 11:8)

1. Kafedra traktorov i avtomobiley Tadshikskogo seliskokhosyaystvennogo instituta.

(Tractors--Engines)

BOGDANOV, Ye.A. (Leningrad S-24, Nevskiy prospekt,d.147,kv.63)

Setting dislocations of the thumb by the hydraulic method. Ortop., travm. i protez. 25 no.11:55-57 N '64. (MIRA 18:11)

1. Iz travmatologicheskogo punkta Moskovskogo rayona Leningrada. Submitted May 18, 1964.

BOGDANOV, Ye.A. (Leningrad S-24, Nevskiy prosp. d. 147, kv. 63)

Frequency of traumatic dislocations according to data of a first aid station. Ortop., travm. i protez. 26 no.11:36-38 N '65. (MIRA 18:12)

1. Iz travmatologicheskogo punkta Moskovskogo rayona Leningrada.