"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOL, S. YE.

PERIODICAL ABSTRACTS

Sub.: USSR/Engineering

AID 4185 - P

CHERNOVOL, S. YE.

SVARKA ELEKTROZAKLEPKAMI V TRANSFORMATOROSTROYENII (Electric Rivet Welding of Transformers). Svarochnoye proizvodstvo, no. 1, Ja 1956: 23-25.

The author presents his methods of welding various parts of transformers circuit breakers, switchboards, etc. by using electric currents of 400 to 1,300 amperes and the riveting hammer. This combined use of electric welding and riveting is briefly described, and the equipment used is illustrated. The author claims that experience at the Zaporozh'ye Transformer Plant proves that joints made by electric welding and riveting have ample mechanical strength and good electrical conductivity. Particularly good results were obtained in welding-riveting of steel and copper of total thicknesses as up to 4 mm. Five pictures, 3 drawings-sketches, and 1 table.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

FEDINA, A.Ye.; CHERNOVOL, V.A.

Aridity radiation index and the land crop of the northeastern Caucasus. Vest. Mosk. un. Ser. 5: Geog. 19 no.3:58-62 My-Je '64. (MIRA 17:6)

1. Kafedra fizicheskoy geografii SSSR Moskovskogo universiteta.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOL, V. S.

Anticorrosion protection of the gas pipe Dashava-Kiev. V. S. Chernovol and I. S. Getenrot. *Transport i Ispol'zovanie Prirod. Gaza.* (Kiev, Gostekhizdat, Ukr. S.S.R.) 1953, 92-100; *Referat. Zhur., Khim.* 1954, No. 50956.—The arrangement, spacing, and cost of the cathodic protection of these gas lines, and the results of these measures are detailed. M. Hosch

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOL, V.S.

Dashava-Kiev main gas pipe is ten years old. Gaz.prom. 4 no.1:34-38 Ja '59. (MIRA 12:1)
(Ukraine--Gas, Natural--Pipelines)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOL, V.S.

Automatic and remote control of the Dashava - Kiev gas pipeline.
Gaz. prom. 4 no.12:37-39 D '59. (MIRA 13:3)
(Gas, Natural--Pipelines) (Remote control)
(Automatic control)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOL, V.S.

Development of the pipeline transportation of gas in the Ukrainian S.S.R.V.S. Gaz. prom. no.10:25-28 O '61. (MIRA 14:11)

(Ukraine--Gas, Natural--Pipelines)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOL, V.S.

State of and prospects for the gas supply and distribution in the Ukraine. Gaz.prom. 6 no.5:27-31 My '61. (MIRA 14:5)
(Ukraine—Gas, Natural—Pipelines)
(Ukraine—Gas distribution)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOL, V.S.

Improving the technical and economic indices in gas pipeline control in Kiev. Gaz. prom. 7 no.12:35-38 '62 (MIRA 17:7)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOL, V.S.

First underground reservoir for natural gas in the Ukrainian S.S.R. Neft. i gaz. prom. no.4:60-61 '64 (MIRA 18:2)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOL, V.S.

First underground gas reservoir in the Ukraine. Gaz. delo no.8: 48-49 '64. (MIRA 17:9)

1. Kiyevskoye upravleniye magistral'nykh gazoprovodov.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

L 24409-66 EWT(1)/EWA(h)/ETC(m)-6 WW

ACC NR: AP6006369 SOURCE CODE: UR/0413/66/000/002/0100/0100

AUTHORS: Chernoval, V. S.; Shcherba, N. U.; Frelin, N. V.; Dashevskiy, L. N.; Kolyada, I. A.; Gudrit, Ye. R.; Fediv, V. A.; Ivanovskiy, E. N.; Mazur, F. A.; Yaskevich, L. Ye.

ORG: none

TITLE: Streamline flow meter. Class 42, No. 178125 [announced by Gas Institute, AN UkrSSR (Institut gaza AN UkrSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 100

TOPIC TAGS: flow meter, streamline flow

ABSTRACT: This Author Certificate presents a streamline flow meter containing a sensing element in the form of a pivoted vane and jet rectifiers mounted in front of and behind the vane (see Fig. 1). To decrease vibrations, the pivoted vane has a bend in the side opposite the flow direction. A plate whose center of gravity is displaced toward the free end of the vane is hinged to the vane. There is also a bypass tube connecting the front and back of the vane.

Card 1/2 UDC: 532.574.27

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

L 24409-66
ACC NR: AP6006369

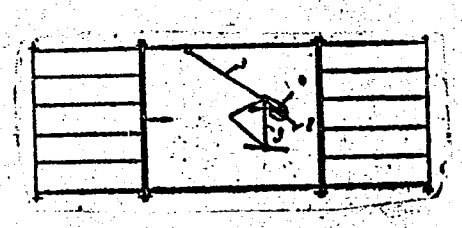

Fig. 1. 1 - pivoted vane; 2 - bend of vane; 3 - plate; 4 - bypass tube.

Orig. art. has: 1 diagram.

SUB CODE: 14/ SUBM DATE: 12Feb65

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

L 22546-65 EWT(1)/EWG(k)/EWT(m)/EEC(t)/T/EWP(t)/EWP(b) IJP(c) AT/JD

ACCESSION NR: AP4043100 S/0185/64/009/007/0807/0810

AUTHORS: Korsuns'ka, N.Ye. (Korsunskaya, N.Ye.); Sal'kov, Ye.A.; Chernovolenko, A.A.; Sheynkman, M.K.

TITLE: Determining the quantum yield of the intrinsic photoeffect in CdS-monocrystals using short impulse light

SOURCE: Ukrayins'ky*y fizy*chny*y zhurnal, v. 9, no. 7, 1964, 807-810

TOPIC TAGS: CdS monocrystal, photocurrent quantum yield, photosensitivity, fast recombination channel, recombination channel operating time, cadmium sulfide

ABSTRACT: The phenomenological quantum yield of the photocurrent in CdS monocrystals illuminated by light impulses of 2×10^{-7} sec. duration and constant intensity was measured at 300K. Wave length was varied from 480-520 μm. The yield was determined as the ratio of the total of the photoelectrons available in the sample at the end of the light impulse action to the total number of quanta absorbed in the crystal; the latter was determined with the help of photoamplifier FEY-18A calibrated against an absolutely black background. The value of the measured yield was near unity in different photo-

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L 22546-65

ACCESSION NR: AP4043100

2

sensitive crystals (0.6-1) and did not depend on λ. At the same time the yield, measured upon illumination of these same crystals with light impulse $\Delta t = 10^{-4}$ sec. was several times smaller. Thus the obtained data confirmed that the operating time of the fast recombination channel τ_3 was within the limits 10^{-5} sec $> \tau_3 > 2 \times 10^{-7}$ sec. "The authors sincerely thank V.E. Lashkar'ov, member of the AN URSR, for attention to and discussion of the work." Orig. art. has: 3 equations and 3 tables.

ASSOCIATION: Instytut napivprovidnyk[illegible] [illegible], Kiev (Institute of Semiconductors, AN URSR)

SUBMITTED: 20Mar64

SUB CODE: SS, SF

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

L 26276-66 EPF(n)-2/EEC(k)-2/EWT(1) AT/WW

ACC NR: AP6013514 SOURCE CODE: UR/0120/66/000/002/0132/0134

64
B

AUTHOR: Sal'kov, Ye. A.; Khvostov, V. A.; Chernovolenko, A. A.

ORG: Institute of Semiconductors AN UkrSSR, Kiev (Institut Poluprovodnikov AN UkrSSR)

TITLE: Obtaining light pulses for the investigation of the kinetics of photoconductivity

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1966, 132-134

TOPIC TAGS: photoconductivity, light radiation, nanosecond pulse, pulse generator

ABSTRACT: A device for generating specially shaped light pulses for use in the study of the kinetics of photoconductivity is described. The device consists of two thyratrons and a coaxial storage line which discharges through a specially designed discharge lamp. The lamp, a porcelain capillary tube with tungsten electrodes, has a diameter of 0.01 cm. The limited cross section of the tube provides a current density of about 10^6 amp/cm^2 and, consequently, a greater pulse brightness. The device provides a pulse time of 5—6 nsec, a duration of constant light intensity of about 40 nsec, and a duration of the

Card 1/2 UDC: 621.317.759:539.293:535.215.12

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

L 26276-66

ACC NR: AP6013514

0

trailing edge at 30% level of the pulse height of 30 nsec. The device can be used in the study of fast recombination processes as well as for measurements of the absolute value of the quantum yield of photoelectrons. Orig. art. has: 4 figures and 1 table. [GS]

SUB CODE: 09/ SUBM DATE: 10Feb65/ ORIG REF: 005/ ATD PRESS: 4244

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

83271

26.1410
24.2120

S/109/60/005/009/018/026
E140/E455

AUTHORS: Vasil'yeva, I.A., Granovskiy, V.L. and Chernovolenko, A.F.

TITLE: New Data on the Influence of Magnetic Fields on the Ion Loss from Helium and Argon Plasmas

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.9, pp.1508-1515

TEXT: Previous work (Ref.10) concerned a stationary plasma in a straight cylindrical tube with dielectric walls (side and end) with helium at t = 0.03 to 1.1 mm Hg. The radial loss of electrons and ions in a homogeneous longitudinal magnetic field at currents less than 0.1 A was found to take place through ambipolar diffusion. In the range of magnetic fields up to B = 1300 g the transverse loss coefficient was given approximately by the Townsend formula (Ref.1,2). Two hypotheses have been advanced concerning the deviation from the Townsend formula observed in Ref.10 and in other works (Ref.3 to 7): 1. It is connected with the appearance of non-stationary processes in the plasma, for example local oscillations of turbulence. 2. It is caused by a "short circuit" of the plasma by sections of metal tubes walls

Card 1/3

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

83271

S/109/60/005/009/018/026
E140/E455

New Data on the Influence of Magnetic Fields on the Ion Loss from Helium and Argon Plasmas

perpendicular to the magnetic flux lines (Ref.8). The present work is a continuation of Ref.10, and a special experiment was carried out to check Simon's hypothesis (Ref.8). It was found that if the magnetic field did not act on the cathode region, the decrease of ion current from the centre to the wall of the tube and the ion loss coefficient with increase of magnetic field are monotonic. If the magnetic field acts on the cathode region, this relationship is valid only at currents less than 0.1 A. There is a close relationship between increase of noise and the formation of "anomalies" in the loss of ions at the tube walls. Variations of magnetic field change not only the amplitude but the spectrum of the noise. Not all oscillation arising in plasma can facilitate loss of ions to the side walls in the magnetic field. Moving stria, for example, have no influence. The types of oscillations leading to anomalies, the field distribution in them and their mechanism of affecting ion loss are open questions. The present results differ from Lehnert's in that maxima in the curves of longitudinal electric field vs. magnetic field have been obtained.

Card 2/3

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

83271

S/109/60/005/009/018/026
E140/E455

New Data on the Influence of Magnetic Fields on the Ion Loss from Helium and Argon Plasmas

No evidence for Simon's effect up to $B/p = 5 \times 10^5$ g/mm Hg was obtained. At B_{crit} random oscillations (noise) arise in the plasma, which increases the rate of ion loss. B_{crit} increases with increase of pressure. In the presence of a magnetic field in the cathode region B_{crit} decreases with increase of current in the tube. There are 9 figures, 2 tables and 11 references, 7 Soviet and 4 English.

SUBMITTED: January 18, 1960.

Card 3/3

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

DVOROVENKO, G.P.; CHERNOVOLOT, K.D.; DUBROVSKIY, V.A., red.; GUREVICH, M.M., tekhn. red.

[Collected problems in the theory of tractors and motortrucks] Zadachnik po teorii traktora i avtomobilia. Moskva, Gos.izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 111 p. (MIRA 14:11)

(Tractors) (Motortrucks)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

DVOROVENKO, G.P., kand. tekhn. nauk; CHERNOVOLOT, K.D., kand. tekhn. nauk

"Fundamentals of the theory of tractors and automobiles" by [doktor tekhn. nauk, prof.] D.A. Chudakov. Reviewed by G.P. Dvorovenko, K.D. Chernovolot. Mekh. i elek. sots. sel'khoz. 21 no.1:63-64 '63. (MIRA 16:7)

1. Khar'kovskiy institut mekhanizatsii sel'skogo khozyaystva.
(Tractors) (Motor vehicles)
(Chudakov, D.A.)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

BEN', T.G.; CHERNOVOLOVA, A.P.

Efficiency of using hardened reinforcement steel. Stal' 25 no.7:656-659 Jl '65. (MIRA 18:7)

1. Dnepropetrovskiy metallurgicheskiy institut.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

SINICHKA, A.M.; CHERNOVOLOVA, N.P.

Properties of the oils of the Dnieper-Donets Lowland. Neft. i gaz. prom. no.1:42-46 Ja-Mr '64. (MIRA 18:2)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

S/020/62/147/003/026/027
B101/B186

AUTHORS: Razuvayev, G. A., Corresponding Member AS USSR, Minsker, K. S., Chernovskaya, R. P.

TITLE: Effect of organic compounds with a closed conjugated system of π-bonds on the stereospecific polymerization of propylene

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 3, 1962, 636 - 638

TEXT: The effects of compounds containing conjugated π-bonds of benzene, diphenyl, naphthalene, and anthracene were studied on the basis of the effect of styrene on the polymerization of propylene with Ziegler catalysts as studied in previous papers (Vysokomolek. soyed., 4, no. 12, (1962)). For this purpose, the k_g/k_o ratio was determined, where k_g is the constant of propylene polymerization in the presence of the aromatic compound, and k_o is the constant of polymerization in a pure aliphatic solvent (benzine, b.p. 96 - 102°C). Polymerization was conducted at 45°C, a propylene pressure of 4.5 - 5 atm, and a catalyst concentration c_{TiCl_3} = 0.0265 mole/l.

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Figure 1 shows that the polymerization rate is decelerated by small additions (0.3 moles/l) of aromatic compounds, and is accelerated by higher compounds. Anthracene additions could be used only up to 0.1 moles/l owing to their poor solubility in benzine. A complex with intensive donor or acceptor properties is assumed to be formed by aromatic hydrocarbon and one catalyst component. The equlibrium of this reaction depends on the structure and concentration of the additive, thus affecting the electron state of the active centers, and their ability to initiate polymerization. There is 1 figure. The most important English-language reference is: K. Vesely, J. Ambroz et al., J. Polymer Sci., 55, 25 (1961).

SUBMITTED: August 29, 1962

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

MINSKER, K.S.; CHERNOVSKAYA, R.P.; ZAKHAROVA, A.S.

Kinetics and mechanism of propylene polymerization in the presence of styrene on the α-$TiCl_3$ + AlR_3 system. Vysokom.soed. 5 no.11:1627-1631 N '63. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete imeni N.I.Lobachevskogo.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKAYA, R.P.; LEBEDEV, V.P.; MINSKER, K.S.; RAZUVAYEV, G.A.

Copolymerization of propylene with styrene in the presence of α-$TiCl_3$ + $Al(C_2H_5)_3$. Vysokom. soed. 6 no.7:1313-1317 Jl '64

(MIRA 18:2)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

ACCESSION NR: AP4045432 S/0190/64/006/009/1656/1661

AUTHOR: Chernovskaya, R.P., Minsker, K.S., Razuvayev, G.A.

TITLE: Nature of the modifying action of aromatic compounds on the stereospecific polymerization of propylene

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 9, 1964, 1656-1661

TOPIC TAGS: propylene, propylene polymerization, stereospecific polymerization, benzene, naphtriethyl aluminum, alkyl aluminum, thalene, titanium trichloride, polymerization catalyst

ABSTRACT: The effect of naphthalene, a very effective modifier, on the catalyst α-$TiCl_3$ + Al $(C_2H_5)_3$ was studied during the stereospecific polymerization of propylene, and the relative propylene polymerization rate (k_n: k_o where k_n and k_o are rate constants in the presence and absence of naphthalene, respectively) was plotted against both $C_{10}H_8$ concentration and the molar ratio of $Al(C_2H_5)_3$:$TiCl_3$ with a constant $TiCl_3$ content, with an increasing molar ratio of $Al(C_2H_5)_3$: $TiCl_3$, a smaller amount of $C_{10}H_8$ is needed to increase the polymerization rate. A plot of the polymerization rate against catalyst concentration and the molar ratio of $C_{10}H_8$: catalyst showed that naphthalene

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

ACCESSION NR: AP4045432

increases the activity of the catalyst. Two series of experiments were carried out to clarify the role of each catalyst component. In the first series, the concentration of alkylaluminum was varied with a constant $TiCl_3$ and $C_{10}H_8$ content; in the other, the amount of $TiCl_3$ was varied with a constant amount of $Al(C_2H_5)_3$ and $C_{10}H_8$. It was found that the variation in the $Al(C_2H_5)_3$: $C_{10}H_8$ ratio plays a more important role than the variation in the $TiCl_3$: naphthalene ratio. An increase in the $Al(C_2H_5)_3$ concentration above a certain value decreases the molecular weight of the polymer, and in the presence of $C_{10}H_8$ the molecular weight decreases more sharply. The proportion of the isotactic fraction in the polymer obtained in the presence of $C_{10}H_8$ varies relatively slightly with an increasing concentration of $Al(C_2H_5)_3$. With varying $TiCl_3$ content in the presence of $C_{10}H_8$, the molecular weight of polypropylene remains almost unchanged. This result can be explained by the essential role of the surface electron defects and the impurity crystals in the mechanism of polymerization. Most probably, the system $TiCl_3$-$Al(C_2H_5)_3$ - aromatic compound is an equilibrium system in which alkylaluminum, aromatic compound and their complex in solution are adsorbed to the surface of the $TiCl_3$. The strength of their bond with the active centers of the $TiCl_3$ varies. The variation in the activity of the catalyst with the concentration of aromatic

Card 2/3

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

ACCESSION NR: AP4045432

compounds is discussed in detail. As expected, in experiments with $C_{10}H_8$ in the range of maximum catalytic activity, the degree of stereoregulation is lower than that found in parallel experiments without naphthalene. On the other hand, for varying $TiCl_3$ content, an increase in the amount of $TiCl_3$ at a constant concentration of $Al(C_2H_5)_3$ and $C_{10}H_8$ (1.56 mole/liter) leads to disproportionation of the activating portion of naphthalene. With a decrease in the $TiCl_3$ content, the activity of the modified catalyst decreases. The concentration of very active centers increases more slowly than the total $TiCl_3$ content. Thus, the variation in the relative rate of polymerization depending on the molar ratio $Al(C_2H_5)_3$: $TiCl_3$ is smoother than that due to a varying concentration of $Al(C_2H_5)_3$ at a constant amount of $TiCl_3$. When experimental data for coarsely dispersed $TiCl_3$ ($S=12\ m^2$) and $TiCl_3$ ground in a vibration mill ($S = 18\ m^2$) were compared, it was found that the position and size of the rate extremes and the other characteristics of the process depend on the individual specimens of $TiCl_3$ employed. Orig. art. has: 6 figures.

ASSOCIATION: none

SUBMITTED: 02Nov63 ENCL: 00 SUB CODE: OC, MT

NO REF SOV: 008 OTHER: 007

Card 3/3

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

L 8496-66 EWT(m)/EWP(j)/T RM

ACC NR: AP5026479 44,55 SOURCE CODE: UR/0195/65/006/005/0941/0944

AUTHOR: Razuvayev, G.A.; Chernovskaya, R.P.; Minsker, K.S. 44,55 44,55 42 B

ORG: none

TITLE: On Modifying Ziegler catalysts

SOURCE: Kinetika i kataliz, v. 6, no. 5, 1965, 941-944

TOPIC TAGS: heterogeneous catalysis, titanium compound, organoaluminum compound, propylene, catalytic polymerization 7,44,55

ABSTRACT: During the polymerization of propylene, the authors noted a modifying effect of aromatic compounds on the catalyst α-$TiCl_3$(Si) + $(C_2H_5)_3Al$ at 45C: small amounts of benzene, naphthalene, toluene, and tetrahydronaphthalene slowed down the polymerization, and large amounts accelerated it. In large concentrations, ethylbenzene and isopropylbenzene also accelerated the process, but chlorobenzene slowed it down. The properties of the polypropylene obtained (average degree of polymerization and content of fractions soluble in n-heptane) also depended on the concentration of the aromatic impurity added. Nonaromatic compounds (triethylamine) also were found to have a modifying effect. The

Card 1/2 UDC 541.128'64

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

L 8496-66

ACC NR: AP5026479

authors note the common nature of the modifying effect of both nucleophilic and electrophilic additive on Ziegler-Natta catalysts; this is accounted for by the concepts of heterogeneous catalysis. It is concluded that in the system α-$TiCl_3$ + $(C_2H_5)_3Al$ + aromatic compound (+ propylene), associates are formed which are very labile and promote a qualitative change of the heterogeneous surface of the catalytic system and a change in its activity. The equilibrium state of this interaction depends both on the chemical nature and concentration of the reagents. Orig. art. has: 3 figures.

SUB CODE: 07 / SUBM DATE: 30Mar64 / ORIG REF: 004 / OTH REF: 002

13VK

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

RAZUVAYEV, G.A.; MINSKER, K.S.; CHERNOVSKAYA, R.P.; BURLAKOVA, G.I.

Modification of the Ziegler-Natta catalysts in the polymerization of olefins. Vysokom.soed. 7 no.1:39-44 Ja '65.

(MIRA 18:5)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

L 33530-65 EWT(m)/EWP(e)/EPR/EWP(j)/T Pe-4/Pr-4/Pa-4 RPL WW/RM

ACCESSION NR: AP5007567 S/0020/65/160/005/1093/1096

AUTHOR: Razuvayev, G. A. (Corresponding member AN SSSR); Minsker, K. S.; Grayevskiy, A. I.; Chernovskaya, R. P.

TITLE: Copolymerization of vinyl chloride with olefins on Ziegler systems

SOURCE: AN SSSR. Doklady, v. 160, no. 5, 1965, 1093-1096

TOPIC TAGS: polyvinylchloride, poly(vinyl chloride), polyolefin, Ziegler catalyst, alkylaluminum, titanium tetrachloride, copolymerization, vinyl chloride olefin copolymerization, ethylene, propylene

ABSTRACT: Copolymerization of vinyl chloride and ethylene or propylene was attempted on catalytic mixtures of the Ziegler catalyst type. Previous studies by some of the authors had indicated that vinyl chloride does not polymerize to solid polymers in the presence of mixtures of trialkylaluminum or dialkylaluminum halides with titanium tetrachloride, and that alkoxy derivatives of alkylated aluminum were catalytically active. Therefore, copolymerization of vinyl chloride with ethylene or propylene was conducted in the presence of a catalytic system consisting of diethylaluminum ethoxide and titanium tetrachloride or diethylaluminum ethoxide, ethyl(ethoxy)bromoaluminum, and titanium tetrachloride. The

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L 33530-65

ACCESSION NR: AP5007567

copolymerization was conducted at 60C and 1[illegible] atm. The polymers obtained contained 42—53% chlorine. The yields depended on the catalyst concentration in the reacting mixture. Di-isobutylaluminum isobutoxide was also catalytically active, but to a lesser degree. The copolymers obtained were either a fine white powder (in the case of ethylene) or a slightly granulated powder (in the case of polyethylene). The chlorine content affected the physical, physicochemical, and thermomechanical properties of the copolymers [illegible] compared with the [illegible], the copolymers had a higher solubility in [illegible] solvents; the glass [illegible] temperature of copolymers was higher than that of the poly(vinyl chloride), but lower than that of the polyolefins. The flow [illegible], according to the [illegible] curves, was in the 60—90C range for [illegible] copolymer and [illegible] for the ethylene copolymer. Thermal stability of the copolymers [illegible] interval of 3 to 40 minutes with a change in the chlorine content from 50 to 1%. The temperature of decomposition changed in the same manner. Orig. art. has: [illegible] table and 3 figures. [illegible]

ASSOCIATION: Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy institut [illegible] organicheskikh produktov i akrilatov (State All-Union Scientific Research Institute of Chloroorganic Products and Acrylates)

Card 2/3

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L 33530-65

ACCESSION NR: AP5007567

SUBMITTED: 08Oct64 ENCL: 00 SUB CODE: [illegible]

NO REF SOV: 003 OTHER: [illegible]

Card 3/3

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVOY, N.G.

MIKHAYLOVA, B.M. (Moskva); CHERNOVOY, N.G. (Moskva)

Complex nature of organic compounds of alkali metals. Uch.zap.Kaz.un. 115 no.10:50 '55. (MLRA 10:5)

(Compounds, Complex)
(Alkali metal compounds)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKAYA, Ye.N.

CA

14

Change of the chemical composition of water samples during their storage. E. N. Chernovskaya. *Vopросy Gidrokhim.* (*Gosudarst. Gidrol. Inst.*) 1946, No. 32, 87-97. —A report of lab. studies on the effects that different preservatives have on the change of chem. compn. of water samples during storage. The preservatives tested were chloroform, ether, xylene, H_2SO_4, and $HgCl_2$. For preservation of HCO_3^- the author used CO_2. The following components were studied: HCO_3^-, pH, free CO_2, NO_2^-, NO_3^-, and oxidizability. Periodical analyses for these components were made at the following intervals: (1) directly *in situ* or in the lab., (2) after 6 hrs., (3) after 1 day, (4) after 3 days, (5) after 10 days, (6) after 1 mo., and (7) after 3 mos. It was found that it was sufficient to det. pH to an accuracy of 0.1. Also it was necessary to carry out the detn. for free CO_2 *in situ*, since a change in its content occurs in the period of the first 6 hrs. after taking the sample. Substantial changes of NO_2^- and NO_3^- content and oxidizability occurred after the first 3 days of storage. And addn. of preservative did not lead to complete preservation of the sample during further storage. It was also concluded that a change in compn. of the water takes place even when microbiological analysis indicates complete sterility of sample. The best preserving action was shown by H_2SO_4, $HgCl_2$, and in some cases xylene. However, the H_2SO_4 interfered with detn. of nitrites, sulfates, alkalinity, and xylene interfered with detn. of oxidizability. $HgCl_2$ interfered with detn. of cations and chlorine. There are extensive tables of data representing these lab. investigations.

Gladys S. Macy

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CA CHERNOVSKAYA, YE. N. 14

Determination of the nitrate ion by the Noll method

O. A. Alekin and E. N. Chernovskaya. *Voprosy Gidro-khim.* (*Gosudarst. Gidrol. Inst.*) 1940, No. 32, 74-80. To clarify certain points concerning the use of the brucine method of Noll (*C.A.* 39, 3864) for detg. nitrate ion in fresh-waters the following points were studied: (1) establishment of a min. quant. of water for the detn., (2) conditions of treatment of the water with brucine, (3) the time of reaction of the brucine and nitrate solns., and (4) the proportionality of the color change with change of nitrate content. The source of nitrate for the expts. was a soln. of KNO_3 made up in the lab. Results were expressed by the ratio of the columns of liquids in the colorimeter cylinders at the time when the colors were matched. Five cc. was found to be the min. amt. of water with which to start a detn. It was learned that best results were obtained by detn. of nitrate on samples contg. from 6 to 50 mg. l. of NO_3^-. Conditions of the analyses had to be kept uniform. For instance, there had to be uniformity as to type of containers used for the reaction and the same pipet was used for introducing the sulfuric acid soln. of brucine into the samples. Also the reaction times had to be the same in any series of samples for which comparable results were expected. All the conditions studied were suitably illustrated by tables of data obtained from the expts.

Gladys S. Macy

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKAIA, E. N.

USSR/ Biology - Hydrobiology

Card 1/1 : Pub. 22 - 40/48

Authors : Chernovskaya, E. N.

Title : Oxidizability of White Sea water

Periodical : Dok. AN SSSR 97/5, 911-913, August 11, 1954

Abstract : The oxidizability of water from the White Sea, was investigated by the hydrochemical laboratory of the Murmansk Biological Station, and the results obtained are given in tables. Four USSR references (1939-1952).

Institution : Acad. of Sc. USSR, Kolsk Branch, Biological Station, Murmansk

Presented by : Academician E. N. Pavlovskiy, February 23, 1954

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

MATVEYEVA, T.A., NIKITINA, N.S., CHERNOVSKAYA, Ye.N.

Causes and effects of the irregular distribution of Fabricia sabella Ehr. and Arenicola marina L. worms in littoral zones. Dokl. AN SSSR 105 no.2:370-373 '55. (MLRA 9:3)

1. Predstavleno akademikom Ye.N. Pavlovskim.
(Murmansk--Annelida)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKAYA, Ye.N.

Biogenous elements in the soil solutions of the eastern Murmansk littoral. Dokl. AN SSSR 105 no.4:828-831 D '55. (MLRA 9:3)

1. Murmanskaya biologicheskaya stantsiya Kol'skogo filiala AN SSSR. Predstavleno akademikom Ye.N. Pavlovskim.
(Murmansk--Seashore)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKAYA, Ye.N.

Data on the temperature and hydrochemical conditions of the Mezen' Bay. Trudy Murm. biol. sta. 4:165-171 '58. (MIRA 11:5)

1. Murmanskaya biologicheskaya stantsiya Kol'skogo filiala AN SSSR.
(Mezen' Bay—Hydrology)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKAYA, Ye.N.

Data on the chemical properties of water retained in the littoral soils of Eastern Murman. Trudy Murm. biol. sta. 4 no.58:7-17 '58. (MIRA 11:5)

1. Murmanskaya biologicheskaya stantsiya Kol'skogo filiala AN SSSR.

(Murman Coast--Water, Underground)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

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CHERNOVSKAYA, YE N

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Gidrologicheskiye I gidrokhimicheskiye usloviya na litorali Vostochnogo Murmana I Belogo morya (Hydrological and Hydrochemical conditions of the coastal region of East Murman and the White Sea) Moskva, Akademkniga, 1956.

113, (3) p. diagrs., maps, tables.

At head of title: Akademiya Nauk SSSR. Murmanskaya Biologicheskaya Stantsiya.

"Literatura": p. 110-114

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APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

ROZOVA, L.V.; PASTUKHOVA, N.M.; CHERNOVSKAYA, Ye.N.; LEDER, I.Z.

Hydrological and hydrochemical conditions in the Baltic Sea during the period of the International Geophysical Year. Trudy GOIN no.55:77-96 '60. (MIRA 14:7)
(Baltic Sea—Hydrology) (Baltic Sea—Water—Composition)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

SOSKIN, I.M.; CHERNOVSKAYA, Ye.N.

General characteristics of changes in the hydrological and hydrochemical conditions of the Baltic Sea during the past decade. Okeanologiia 1 no.3:426-431 '61. (MIRA 16:11)

1. Gosudarstvennyy okeanograficheskiy institut, Leningradskoye otdeleniye.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKAYA, Ye.N.; PASTUKHOVA, N.M.; TSURIKOVA, A.P., red.

[Tables for calculating the solubility of oxygen in, and the pH values of seawater] Tablitsy dlia vychisleniia rastvorimosti kisloroda i volichin pH v morskoi vode. Moskva, Gidrometeoizdat, 1962. 46 p. (MIRA 17:3)

1. Moscow. Gosudarstvennyy okeanograficheskiy institut. 2. Leningradskoye otdeleniye Gosudarstvennogo okeanograficheskogo instituta, Moskva (for Chernovskaya, Pastukhova).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKAYA, Ye.N.

Distribution of the amount of pressure of free carbon dioxide in the Baltic Sea. Trudy GOIN no.68:137-150 '62. (MIRA 16:7)
(Baltic Sea—Carbon dioxide)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKAYA, Ye.N.; PASTUKHOVA, N.M.: BUYNEVICH, A.G.; KUDRYAVTSEVA, M.E.; AUNIN'SH, E.A.; SIMONOV, A.I., red.; NEDOSHIVINA, T.G., red.

[Hydrochemical regime of the Baltic Sea] Gidrokhimicheskii rezhim Baltiiskogo moria. Leningrad, Gidrometeoizdat, 1965. 167 p. (MIRA 18:12)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

ACC NR: AP6020676 SOURCE CODE: UR/0016/66/000/006/0018/0023

AUTHOR: Lyuksemburg, K. I.; Chernokhvostova, Ye. V.; Rozentalene, L. V.; Belyayeva, A. I.

ORG: Institute of Epidemiology, Microbiology, and Hygiene, Ministry of Health LitSSR (Institut epidemiologii, mikrobiologii i gigiyeny Ministerstva zdravookhraneniya Litovskoy SSR); Moscow Institute of Epidemiology amd Microbiology (Moskovskiy institut epidemiologii i mikrobiologii)

TITLE: Identifying typhoid carriers by quantitative determination of 7S antibodies

SOURCE: Zh mikrobiol, epidemiol i immunobiol, no. 6, 1966, 18-23

TOPIC TAGS: carrier, carrier state, typhoid, antibody, disease diagnosis, DISEASE CONTROL, BACTERIAL DISEASE

ABSTRACT:
The authors present a method of identifying suspected carriers among people who have had typhoid, based on differences in antibody content in the sera of carriers and healthy persons who have had typhoid. In carriers, 7S, O-, Vi-, and H- antibody titers were higher than in healthy people who had once had the disease. Orig. art. has: 2 figures and 1 table.

[W.A. 50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: 11Sep65/ ORIG REF: 009/ OTH REF: 007

Card 1/1 UDC: 616.927-008.97 078.7

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

PUCHKOV, Aleksandr Sergeyevich, doktor med.nauk, zasluzhennyy vrach RSFSR [deseaced]; CHERNOVSKIY, I.P.; NECHAYEV, A.M., obshchiy red.; OSTROVSKAYA, L.S., red.; ZUYEVA, N.K., tekhn.red.

[Organization of first aid in Moscow] Organizatsiia skoroi meditsinskoi pomoshchi v Moskve. Izd.2. Perer. i dop. L.P. Chervonskogo. Otshchaie red. A.M.Nechaeva. Moskva, Gos.izd-vo med.lit-ry, 1959. 139 p. (MIRA 12:5)
(MOSCOW--AMBULANCE SERVICE)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKIY, K.M.

Elimination of infectious diseases is an urgent task of the medical personnel of the republic. Zdrav. Tadzh. 7 no. 2:3-8 Mr-Ap '60. (MIRA 13:10)

1. Nachal'nik Sanitarno-protivoepidemicheskogo upravleniya Minzdrava Tadzhikskoy SSR.
(TAJIKISTAN--COMMUNICABLE DISEASES)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKIY, M.I., inzh.

Some characteristics of the documentation of outcroppings made during the large-scale geological survey of the Krivoy Rog iron ore basin. Sbor. nauch. trud. KGRI no.1:20-24 '61
(MIRA 17:8)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO, G.I.; MEL'NIK, Yu.P.; SIROSHTAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY, M.I.; SHCHERBAKOVA, K.F.; ZAGORUYKO, L.G.; GOROSHNIKOV, B.I.; AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, G.V.; KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.; STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.; CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA, P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; STRYGIN, A.I., red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M., red.; SHCHERBAKOV, B.D., red.; SLENZAK, O.I., red.izd-va; RAKHLINA, N.P., tekhn. red.

[Geology of Krivoy Rog iron-ore deposits]Geologiia Krivorozhskikh zhelezorudnykh mestorozhdenii. Kiev, Izd-vo Akad. nauk USSR. Vol.1.[General problems in the geology of the Krivoy Rog Basin. Geology and iron ores of the deposits of the "Ingulets," Rakhmanovo, and Il'ich Mines]Obshchie voprosy geologii Krivbassa. Geologicheskoe stroenie i zheleznye rudy mestorozhdenii rudnikov "Ingulets," Rakhmanovskogo i im. Il'icha. 1962. 479 p.
(Krivoy Rog Basin--Mining geology) (MIRA 16:3)
(Krivoy Rog Basin--Iron ores)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

SIROSHTAN, R.I.; CHERNOVSKIY, M.I.[Chernovs'kyi, M.I.]

Correlation of rocks in the middle series of the Likhmanovskaya syncline and the Tarapako-Likhmanovskaya anticline in the Krivoy Rog. Geol. zhur. 18 no. 2:83-86 '58. (MIRA 11:7)
(Krivoy Rog Basin--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

BELOKRYS, L.S.; VOYTKEVICH, G.V.; CHERNOVSKIY, M.I.

Scientific and technical conference at the Krivoy Rog Mining Institute. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.1:263-265 '58. (MIRA 12:2)

1. Krivorozhskiy gornorudnyy institut, kafedra obshchey geologii. (Geology)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKIY, M.I., aspirant

Main features of the geological structure of the Tarapako-Lekhmanofskiy anticline. Sbor. nauch. trud. NIGRI no.2:175-182 '59. (MIRA 14:1)

(Rostov Province--Folds (Geology))

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKIY, M.I.

Lateral shifts in the Krivoy Rog ore basin. Izv.vys.ucheb.zav.; geol.i razv. no.2:100-104 F '62. (MIRA 15:3)

1. Krivorozhskiy gornorudnyy institut.
(Krivoy Rog Basin—Faults (Geology))

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO, G.I.; MEL'NIK, Yu.P.; SIROSHTAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY, M.I.; SHCHERBAKOVA, K.F.; ZAGORUYKO, L.G.; GOROSHNIKOV, B.I.; AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, G.V.; KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.; STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.; CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA, P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; POLOVKO, N.I., red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M., red.; SLENZAK, O.I., red. izd-va; KULICHENKO, V.G., red.; RAKHLINA, N.P., tekhn. red.; MATVEYCHUK, A.A., tekhn. red.

[Geology of the Krivoy Rog iron ore deposits] Geologiia Krivorozhskikh zhelezorudnykh mestorozhdenii. Kiev, Izd-vo Akad. nauk USSR. Vol.1.[General problems of the geology of the Krivoy Rog Basin. Geology and iron ores of the "Ingulets," Rakhmanovskiy, and Il'ich ore deposits] Obshchie voprosy geologii Krivbassa. Geologicheskoe stroenie i zheleznye rudy mestorozhdenii rudnikov "Ingulets," Rakhmanovskogo i im. Il'icha. 1962. 479 p. Vol.2.[Geology and iron ores of the Dzerzhinskiy, Kirov, Liebknecht, October Revolution, "Bol'shevik," Frunze, 22d Parts'ezd, Red Guard, and Lenin deposits]Geologicheskoe stroenie i zheleznye rudy mestorozhdenii im. Derzhinskogo, im.Kirova, im.K.Linkenkhta, im.XX parts"ezda, im. Krasnoi Gvardii i im.Lenina. 1962. 564 p. (MIRA 16:5)

(Krivoy Rog Basin--Iron ores)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKIY, M.I., gornyy inzhener-geolog

Outlook for ore in the Tarapako-Likhmanovskiy anticline and its connection with the geological structure. Sbor. nauch. trud. KGRI no.7:56-61 '59. (MIRA 16:9)
(Krivoy Rog Basin--Geology, Economic)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKIY, M.I.

Mechanical and historical conjunction of the structural forms of the Tarapako-Likhmanovskiy anticline. Sbor. nauch.trud. KGRI no:20(3):34-40 '63. (MIRA 16:9)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOZHUKOV, N.I.; SHCHEGROVA, K.A.

Separation of sulfur compounds from aromatic hydrocarbons by means of adsorption. Izv. vys. ucheb. zav.; neft' i gaz 5 no.1:51-56 '62. (MIRA 16:11)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M. Gubkina.

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CHERNOVSKIY, N.I. [Chernovs'kyi, M.I.]

Convergence structure between the western Ingulets syncline and Tarapak-Likhmanovskaya anticline in the Krivoy Rog Basin. Geol. zhur. 20 no.2:62-66 '60. (MIRA 14:5)
(Krivoy Rog Basin--Geology, Structural)

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IVLIYEV, I.V.; PETRUKHNOVSKIY, I.V. retsenzent ; KRIMNUS, G.Kh. retsenzent ; NAUMOV, G.I. retsenzent ; ORLOV, V.N. retsenzent ; TUCHKEVICH, T.M. retsenzent ; USHAKOV, P.S. retsenzent ; CHERNUKHA, N.T. retsenzent ; EDEL'SHTEYN, P.G. retsenzent ; KRISHTAL', L.I., red.; VINNICHENKO, N.G., kand. ekon. nauk, red.; USENKO, L.A., tekhn.red.

[Finance and the financing of railroad transportation]Finansy i finansirovanie zheleznodorozhnogo transporta. Moskva, Transzheldorizdat, 1963. 439 p. (MIRA 17:2)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVSKIY, Yefim Grigor'yevich; SAVINA, Z.A., ved. red.; FEDOTOVA, I.G., tekhn. red.

[Principles of structural drilling techniques] Osnovy tekhnologii bureniia strukturnykh skvazhin. Moskva, Gostoptekhizdat, 1962. 231 p. (MIRA 15:7)

(Boring)

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M. I. CHERNOY 1 Dr.

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Spravochnaya kniga po rechnomu transportu Reference book on river transport izd. 2., perer. 1 dop. Red. kol. Moskva, izd-vo "Rechnoy Transport", 1958.

560 p. illus., diagrs., graphs, tables.
Bibliographical Footnotes.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

30846. CHERNOY, Z. I.

K voprosy normirovaniya raskhoda elektroenergii na mashinostroitel'nom zavode. (Po povody odnoim stat'i I. I. Levina i stat'i I. I. Ivanova / O metodike normirovaniya udel'nykh raskhodov elektroenergii / v zhurn. / Prom. energetika/, 1948, No. 11 - 8). Prom. energetika, 1949, No. 10, s. 7-8.

"The Problem of Normalization of Electric Power Consumption in a Machine Building Factory," Prom. Energet., No. 10, 1949, Engr. Uralmashzavod, -c1949-.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOY, Z.I.

AID P - 3408

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 23/30

Author : Chernoy, Z. I., Eng.

Title : Protection from electric shock during a break of the main trolley overhead wires

Periodical : Energetik, 10, 30-32, O 1955

Abstract : The author discusses various cases of protection: a scheme with two artificial zeros; a system with insulated zero; a system with grounded zero; and electromechanic protection. He suggests various types of protection for all these cases. Four connection diagrams.

Institution : None

Submitted : No date

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CHERNOY, Z. I.

BII-MUKHAMETOV, Izmail Sadrivich; CHERNOY, Z.I., inzh., retsenzent; DROBININ, Ya.I., red.; SARAFANNIKOVA, G.A., tekhn.red.

[Manual for operators of high-frequency heat treating equipment] V pomoshch' termistu-vysokochastotniku. Pod red. IA.I.Drobinina. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 88 p. (Metals--Heat treatment) (MIRA 11:4)
(Induction heating)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOY, Zalman Isakovich; DITKOVSKIY, V.M., inzh., retsenzent; DOKSHITSKIY, A.B., inzh., red.; DUGINA, N.A., tekhn. red.

[Operating the control board of an electric furnace] Upravlenie pul'tom elektropechi. Moskva, Mashgiz, 1961. 125 p. (MIRA 14:10)
(Electric furnaces) (Automatic control)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOYAROV, I.

Geodesist's work at the building site. Stroitel' 2 no.10:6-7 O '56. (MIRA 10:1)

(Surveying)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOYAROV, M.V.

About the chlorophyll cells of a developing anther in flowering plants. Izv.AN Arm.SSR.Biol.i sel'khoz.nauki. 5 no.6:55-58 '52. (MLRA 9:8)

1. Botanicheskiy sad Akademii nau Ukrainskoy SSR, Kiyev.
(Chlorophyll) (Plant cells and tissues)

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CHERNOYAROV, M.V.

KOMARNITSKAYA, A.M.; CHERNOYAROV, M.V.

A case of variation in the sexual characters of peach seedlings. Agrobiologiia no.4:153-154 Jl-Ag '57. (MLRA 10:9)

1. Botanicheskiy sad Akademii nauk USSR, g.Kiyev.
(Kiev--Peach) (Inflorescence)

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KOSTRYUKOVA, K.Yu.; CHERNOZAROV, M.V.

Criticism of the theory of the species stability of chromosome numbers in the light of modern scientific data. Agrobiologiia no.4:604-617 Jl-Ag '65. (MIRA 18:11)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOYAROVA, A.

Results of the Buryat regional conference on the development of productive forces. Krat. soob. BKNII no.1:163-165 '59. (MIRA 14:9)

(Buryat-Mongolia--Natural resources)

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CHERNOYAROVA, A. A.

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ca

Transformation of bornyl chloride. I. I. VANIN AND A. A. CHERNOYAROVA. *J. Russ. Phys.-Chem. Soc.* 61, 2279-90(1929).—The action of $NiCO_3$ on aliphatic chlorides produces $C_{10}H_{16}$ with splitting off of HCl from the secondary or tertiary chloride (*C. A.* 8, 320; 9, 3050). Bornyl chloride (I) splits off HCl with isomerization and formation of camphenes (Berthelot, *Compt. rend.* 55, 498; Reychler, *Ber.* 20, 690(1890)). The action of iso-AmOK in iso-AmOH on I produces bornylene without isomerization (Meerwein and Joussen, *C. A.* 17, 752). Heating of I with $NiCO_3$ produces at 105-75° liquid hydrocarbons, $C_{10}H_{16}$, at 125-35° camphenes, m. 50°, and at the intermediate temp. a mixt. of both. The liquid hydrocarbons proved to be camphenes giving acetates and on sapon. isoborneol (II), thus indicating a semicyclic double bond (Walbaum, *J. prakt. Chem.* 49(1894)). *Expl. part.*—Prepn. of I. The fraction b. 153-61° obtained by distg. the oil of turpentine over Na was satd. with dry HCl at 15-20°, cooled with a freezing mixt., filtered with suction, dried between filter paper, crystals from alc., m. 120-1°, optically inactive. The $NiCO_3$ was always freshly dried for 3 hrs. at 105-10°. *Liquid camphene.*—About 1 part of $NiCO_3$ was refluxed with 2 parts of I for 2-2.5 hrs. at 107-75°, distd., dried with Na_2SO_4, again refluxed with $NiCO_3$ for 80 min. to remove Cl, twice distd. over Na into 6 fractions, all of which analyzed for $C_{10}H_{16}$. Each fraction was redistd. over Na in a CO_2 atm., producing: b. 140-54.5°, d_4^{20} 0.8456, n_D^{20} 1.45747, MR 43.86; b. 155-57.5°, d_4^{20} 0.8575, n_D^{20} 1.46166, MR 43.56; b. 158-9, d_4^{20} 0.8595, n_D^{20} 1.46415, MR 43.67; b. 160-63°, d_4^{20} 0.8616, n_D^{20} 1.4654, MR 43.67; b. 164-8°, d_4^{20} 0.8626, n_D^{20} 1.46782, MR 43.80; b. 165-72°, d_4^{20} 0.8652, n_D^{20} 1.46879, MR 43.75, all optically inactive. Each of the first 3 fractions was converted to an acetate with AcOH and H_2SO_4 and then sapond. with alc. KOH, all of them giving II. *Solid camphene.*—The procedure is similar to that described above, only the refluxing was continued 7 hrs. at 125-35°, the product was extd. with Et_2O, which was expelled, again refluxed with $NiCO_3$, distd. into 5 fractions, the first 4 fractions combined, and again refluxed with $NiCO_3$ for 1.5 hrs. and distd.

JVC

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giving a small fraction of a liquid b. up to 150°, and a solid b. 155-61°, which when repeatedly distd. over Na is freed from Cl, pressed out, dried between filter paper, crystd. from alc., m. 80°, b. 150-8°, has a camphor-like odor, is optically inactive, and is camphene. The liquid hydrocarbons are assumed to be liquid camphene and are being further investigated.

CHAS. BLANC

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PROCESSES AND PROPERTIES INDEX

Linalool from coriander oil. I. I. VANIN AND A. A. CHERNOYAROVA. *J. Russ. Phys.-Chem. Soc.* 62, 2013-7(1930).—Linalool was prepd. from coriander oil by fractionation. The *chloride*, b_9 120-7°, d_4^{20} 1.0304, was obtained by the action of HCl. The action of $NiCO_3$ on the chloride gave a monocyclic *terpene*, b. 165-7°, d_4^{20} 0.8333.
B. C. A.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CA

The fatty and the essential oils from Coriandrum sativum grown in the Northern Caucasus. I. I. Vanin and A. A. Chernozarova. *J. Applied Chem.* (U. S. S. R.) 6, 922-32(1933).—The seed contained moisture 7.5, ash 4.75, essential oils 0.8-0.85, fatty oil 20.23 (after drying to const. wt.), proteins 16.6 (N × 6.25), cellulose 38.44, N-free substances 12.38%. The essential oil was steam-distilled and the distillate was redistd. into 5 fractions. The main fraction, b. 190-200°, was linaloöl. The fraction b. 155-164° was a pinene, probably α-pinene; the slightly too high temp. may be explained by a small admixt. of β-pinene. The fatty oil was obtained from the residue of the essential oil after drying in a vacuum app. preliminarily charged with CO_2, at 70-75° and 4-5 mm. Hg pressure. The oil was sepd. by ether extn. in a Soxhlet app. and dried *in vacuo* (after distn. of the solvent) to const. wt. It had d_{15}^{15} 0.9210, d_{20}^{20} 0.9207, n_D^{20} 1.47182, viscosity at 20° 11.8, acid no. 6.11, sapon. no. 188.53, I no. 91.4, esterification no. 182.42, Hehner no. 94.09, unsaponifiable matter 0.73%, glycerol 10.92%, solidified 3-4°, m. 19-22°. The insol. fatty acids had: d_{15}^{15} 0.8945, d_{20}^{20} 0.8972, m. 22-23°, solidified 19.6°, n_D^{20} 1.46215, mol. wt. 287.9, neutralization no. 194.83, I no. 94.25, sapon. no. 196.21. The fatty oil is composed mainly of the glycerides of Δ^9-oleic acid and the separated oleic acid yielded on oxidation 6,7-octadecandiolic acid and after elaidination Δ^9-elaidic acid; these were identical with oxidation products and the elaidination product of petroselinic acid.

A. A. Boehtlingk

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CA

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Displacement of the double bond in 6,7- and 9,10-oleic acids. I. I. Vanin and A. A. Chernoyatova. *J. Gen. Chem.* (U. S. S. R.) 5, 1337-42(1935). Study of the migration of a double bond in oleic acids and the production of unsatd. compds. by the interaction of fatty halo acids with $NiCO_3$ was begun with 9,10-oleic acid (I) and 6,7-oleic acid (petroselenic acid) (II). Chlorostearic acids are best produced from I and II by the following modification of the Piotrovskii method (*Ber.* **23**, 2532). A soln. of 62 g. of I in 2 parts of 100% AcOH is satd. with dry HCl at a room temp. for 3 hrs. in the 1st day and 4 hrs. in the next day. The reaction mixt. is heated in a sealed tube at 140-50° for 7 hrs. and allowed to rest at a room temp. for 2 days. The product freed from AcOH and the excess HCl and crystd. from Et_2O gave a good yield of chlorostearic acid (III), m. 39-41°. Heating 40 g. III with 40 g. $NiCO_3$ (dried at 105°) at 190-210° for 3 hrs., decompg. the product with 20% H_2SO_4 and extg. with Et_2O, resulted in isoleic acid, m. 43-4°, solidifying at 37-8°, d_4^{20} 0.8757, n_D^{20} 1.4494, M. R. 86.44 (observed), M. R. 86.30 (calcd.). Since this acid is identical with the isoleic acid obtained by Zaitzev (*J. Russ. Phys.-Chem. Soc.* **20**, 388, 407), which according to Egorov (*C. A.* **7**, 1477) and Bauer and Panagoulias (*C. A.* **24**, 4507) is the 10,11-acid, it follows that the double bond was shifted toward the Me and not the carboxyl group. $Me(CH_2)_4CH:CH(CH_2)_4CO_2H + HCl \rightarrow Me(CH_2)_4CHCl(CH_2)_4CO_2H$ (IV); $2IV + NiCO_3 \rightarrow NiCl_2 + H_2O + CO_2 + 2Me(CH_2)_4CH:CH(CH_2)_4CO_2H$. II, b_{15} 215-17°, m. 32-3°, d_4^{20} 0.8924, d_4^{40} 0.8704, n_D^{20} 1.4535, M. R. 86.76 (obs.), M. R. 86.30 (calcd. for $C_{17}H_{33}CO_2H$ + double bond), I no. 88.75, is obtained in 36.1% yield from coriander oil by centrifuging the free fatty acid (not the glyceride). II treated with HCl as above gave 50.2% of 7-chlorostearic acid, $Me(CH_2)_5CHCl(CH_2)_5CO_2H$ (V), m. 38.9° (Zaitzev, *loc. cit.*). V treated with $NiCO_3$ as above gave 7,8-isoleic acid, m. 51.2°, d_4^{20} 0.875, n_D^{20} 1.4507.

Chas. Blanc

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CHERNOYAROVA, A. A.

PROCESSES AND PROPERTIES INDEX

Some transformations of linalool, based on stereoisomerism. I. I. Vanin and A. A. Chernoyarova. *J. Gen. Chem.* (U. S. S. R.) 7, 885-92(1937).—The dehydration of linalool (I) to the terpene $C_{10}H_{16}$ and possible assocd. stereoisomeric changes are studied. *d*-Linalool (16 g.), b. 85-8.5°, $[\alpha]_D^{20}$ 10.12°, with PCl_5 (62 g.) in $CHCl_3$ (135 g.) gives *l*-linalyl chloride $C_{10}H_{17}Cl$ (11 g.) (II), b_{5-6} 85-90°, and chiefly $C_{10}H_{18}Cl_2$ (33 g.) (III), b_{5-6} 112-15°. I (25 g.) with PCl_3 (7.5 g.) reacts smoothly to give II (9 g.), b_{5-6} 100.6°, d_4^{20} 0.8923, d_4^{20} 0.8888, n_D^{20} 1.47087; $[\alpha]_D$ −1.74°. II and III, with nearly equal wt. of $NiCO_3$ at 120-40° for several hrs., give monocyclic terpenes, $C_{10}H_{16}$, which differ structurally. The product from II and $NiCO_3$, b. 164-7°, d_4^{20} 0.8658, n_D^{20} 1.47147, probably *p*-mentha-1,3-diene or *p*-mentha-2,4-diene. II with $AgCO_3$ gives *β*-pinene, b. 72-5°, d_4^{20} 0.8767, n_D^{20} 1.47038. Moist Ag_2O with II gives some I and considerable tar, while alc. KOH completely hydrolyzes II, $[\alpha]_D$ −2.62°, to *l*-linalool, d_4^{20} 0.8741, n_D^{20} 1.46481, $[\alpha]_D$ −1.58°, without any reversal in sign of rotation. Eighteen references. John Livak

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

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The structure of petroselenic acid. A. A. Chernovarova. *J. Gen. Chem.* (U. S. S. R.) 9, 149-52(1939); cf. Vanin and Chernovarova, *C. A.* 30, 2173[1].—Waste coriander seeds, after the extn. of the ethereal oil, contain up to 20% of fatty oil, composed chiefly of the glyceride of petroselenic acid (I). *Me ester* of free I, b_{16} 208-10°, d_4^{20} 0.8767, n_D^{20} 1.4501, M. R. 90.76, when converted into the ozonide and decompd. by boiling with H_2O and H_2O_2 yielded lauric acid, m. 44-5°, and adipic acid, m. 150-1°. The results show that I is $Me(CH_2)_{10}CH{:}CH(CH_2)_4CO_2H$.

Chas. Blanc

Novocherkassk Indust. Inst.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CA

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Esters of isooleic acids. A. A. Chernoyarova. *J. Gen. Chem.* (U. S. S. R.) 9, 178-81(1939). —Petroselenic acid (I), isooleic acid (10,11-oleic acid) (II) and isopetroselenic acid (7,8-isooleic acid) (III) were prepd. by the methods given in the earlier paper (cf. Vanin and Ch., *C. A.* 30, 2173[1]). The following *esters* were obtained by refluxing with excess (3.5 mols.) alcs. (The values given below after the b. p. are for d_4^{20}, n_D^{20}, M. R.$_D$ and I no., resp.) I: *Me*, b_5 190-7°, 0.8707, 1.45016, 90.76, —; *Pr*, b_5 199-200°, 0.8711, 1.45317, 100.56, 74.32; *iso-Pr*, b_5 192-4°, 0.8688, 1.45116, 100.44, 74.30; *Bu*, b_{5-7} 202-4°, 0.8673, 1.45267, 105.25, 72.15; *iso-Am*, b_5 210-17°, 0.8682, 1.45357, 109.7, 67.8; *octyl*, b_5 230-9°, 0.8652, 1.45417, 123-35, 63.09. II: *Pr*, b_{10} 198°, 0.8702, 1.45187, 100.41, 69.28; *Bu*, b_5 216-18°, 0.8657, 1.44950, 104.83, 62.4; *Am*, b_{5-10} 247-50°, 0.8670, 1.45257, 109.56, 64.91; *octyl*, b_{5-7} 240-1°, 0.8642, 1.45367, 123.38, 58.80. III: *Me*, b_5 193-5°, 0.8743, 1.45257, 91.43, —; *Pr*, b_{10} 205-8°, 0.8704, 1.45167, 100.35, —; *Bu*, b_{10} 219°, 0.8662, 1.45217, 105.3, —; *Am*, b_5 220-2°, 0.8700, 1.45317, 109.39, —. The results show that the size of the alc. radicals has an influence on the b. p. of the esters and practically none on their d. The position of the double bond in the esters studied has practically no influence on the b. p., d. and other phys. properties.

Chas. Blanc

Novocherkassk Industrial Inst.

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PROCESSES AND PROPERTIES INDEX

10

CA

Action of sulfuric acid on petroselinic acid. A. A. Chernoyarova. *J. Gen. Chem.* (U. S. S. R.) 10, 146-9 (1940).—Petroselinic acid (I) (70 g.) was treated dropwise with 25 g. of concd. H_2SO_4 at 25-30° and the next day decompd. with ice water and refluxed 5-6 hrs., forming 93.4% of a hydroxystearic acid (II), m. 82°. Oxidation of II in AcOH with CrO_3 gave lauric, adipic, undecylic and pimelic acids, showing that II is *7-hydroxyoctadecanoic acid; Et ester*, bp 253°, m. 45-6°. Thus, I reacts with H_2SO_4 and H_2O similarly to oleic acid by adding the HO group farther from the CO_2H group (cf. *C. A.* 30, 2173[1]). Chas. Blanc

Lab. Organic Chem., Novocherkassk Industrial Inst.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Ca

10

Some transformations of petroselinic acid. A. A. Chernoyarova (Novocherkassk Ind. Inst.). *J. Gen. Chem.* (U.S.S.R.) 16, 199-202(1946).—Petroselinic acid (38 g.) in 50 g. $CHCl_3$ was treated with 2 atoms Cl to yield 47.5 g. *α,β-dichlorostearic acid*, m. 74-5° (from EtOH); similar treatment of petroselidinic acid gave the *isomer*, m. 60-7°. Treatment of *cis-* or *trans-α,β*-dihydroxystearic acids with PCl_5 gave uncrystallizable oils (approx. $C_{18}H_{34}ClO_3$). No reaction could be induced between the *α,β*-dichloro acids and moist Ag oxide. G. M. K.

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CHERNOYAROVA, A. A.

"Comment on a paper by N. V. Vil'yams and S. V. Vasil'ev." (p. 606)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1950, Vol. 20, No. 4.

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USSR / Pharmacology, Toxicology. Analeptics. V

Abs Jour: Ref Zhur-Biol., No 18, 1958, 85125.

Abstract: ately severe diabetes (13 patients) was accompanied, in isolated cases, by a certain recuction in the blood sugar level and permitted a decrease in the dose of insulin. In four patients with severe diabetes, as in the healthy subjects, the use of G gave no beneficial results. In isolated cases there was even a slight deterioration in the patients' clinical state, with an increase in the blood sugar level. However, a markedly tonic influence of G on the body was noticeable. -- V. V. Berezhinskaya.

Card 2/2

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CHERNOYARSKIY, A.N., inzh.

Additional feeding of plants with anhydrous ammonia. Mekh. i elek. sots.sel'khoz. no.5:51-52 '56. (MIRA 12:4)
(Plants, Effect of ammonia on)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOYARSKIY, A.N., inzh.; KORBUT, V.A., inzh.

Mechanization as the basis for commercial production in animal and poultry husbandry. Trakt. i sel'khozmash. no.12:1-2 D '64 (MIRA 18:2)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

FEDOT'YEV, N.P., prof.; IL'IN, V.A.; CHERNOZATONSKAYA, I.N.; YAMPOL'SKIY, A.M., kand. tekhn. nauk, red.; SHILLING, V.A., red.izd-va; GVIRTS, V.I., tekhn. red.

[Electrodeposition of silver from solutions of cyanide-free complex salts]Elektroosazhdenie serebra iz rastvorov netsianistykh kompleksnykh solei. Leningrad, 1962. 18 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Zashchitnye pokrytiia, no.8)

(MIRA 16:3)

(Silver plating)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOZATONSKAYA, YE. P.

USSR/Medicine - Physiology FD-926

Card 1/1 Pub 33-9/29

Author : Chernozatonskaya, Ye. P.

Title : Questions concerning regulation of breathing in singers

Periodical : Fiziol. zhur. 40, 316-322, May/Jun 1954

Abstract : Data collected, as result of observation of 16 men and 41 women of different types, suggest the expediency of developing temporary cortico-respiratory bonds which would contribute to formation and development of lower abdominal breathing. Lower abdominal breathing becomes dominant in singers who developed it not only during singing, but also during declamation or emotional elation. Neurophysiological analysis of vocal breathing and vocal processes in general may help in formulation of scientific methods of teaching singing and in prevention and treatment of disabilities experienced by many singers and lecturers. Diagrams. Eight Soviet references.

Institution : Chair of Normal Physiology, Leningrad Sanitary-Hygienic Medical Institute. Report was read in April, 1953 at the conference held at the Institute of Physiology imeni A. A. Ukhtomskiy, Leningrad State University

Submitted : November 12, 1953

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

NESTEROV, P.G.; CHERNOZATONSKIY, N.F.; ZELENETSKIY, V.A.

Production of mining and ore dressing enterprises of the Ukraine during five years of the current seven year plan. Met. i gornorud. prom. no.3:48-50 My-Je '64. (MIRA 17:10)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOVAMENKO, I. M.

"Forecasting of the Times of Liberation of River Valleys From Thaw Waters," Meteorol. i Gidrologiya, No 4, 1954, pp 33-34

For a sufficient number of hydrometric direction lines the duration of the period of liberation of a river valley from thaw waters (T), beginning from the date of maximum level, can be determined in connection with the volume of water in the river network (W), which is determined according to a given scheme involving the water yields along all the recording direction lines on the day of maximum level at the lower line, and the time taken by river-bed runoff. For the river Don on the Liski-Kamenskiy portion the certainty of this method of forecasting is 90%, and the rough method gives 56%. In the absence of data on the yields of water the duration T is determined as a function of the maximum level H_{max}. (RZhGeol, No 4, 1955) SO: Sum.No. 713, 9 Nov 55

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOYVANNIK, A. Ya.

Tekhnologicheskoye oborudovaniye plodoovoshchnykh predpriyatiy (Technological equipment for fruit and vegetable enterprises, by) A. Ya. Chernoyvannik, Z. A. Varlamova (et al) Moskva, Gostorgizdat, 1953.
520 p. diagrs., tables.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

CHERNOZEMOV, V.T.

Increasing the performance of molding machines. Lit. proizv. no. 8:16-19 Ag '60. (MIRA 14:2)
(Machine molding (Founding))

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

YEGOROV, Yu.M.; CHERNOZEMOVA, V.G.

Results of magnetotelluric sounding in the region of the Lovozero geophysical station. Izv. AN SSSR. Fiz. zem. no.2:82-85 '65. (MIRA 18:6)

1. Institut fiziki Zemli AN SSSR.

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L 22554-66 EWT(1)/EWT(m)/EWP(w)/EWA(h)/ETC(m)-6 IJP(c) WW/EM/GW

ACC NR: AT6003006 (N) SOURCE CODE: UR/3175/65/000/025/0139/0146

AUTHOR: Yegorov, Yu. M.; Osinskaya, S. V.; Chernozemova, V. G.

ORG: IFZ AN SSSR

40
B+1

TITLE: Shock absorbing platform with liquid damping

SOURCE: USSR. Gosudarstvennyy geologicheskiy komitet. Osoboye konstruktorskoye byuro. Geofizicheskaya apparatura, no. 25, 1965, 139-146

TOPIC TAGS: shock absorber, ground shock transmission, vibration damping, vibration measurement, seismologic instrument

ABSTRACT: A shock absorbing platform consisting of an instrument-mounting plate supported by four thin elastic rods was developed at the Institute of Physics of the Earth, AN SSSR. In addition to the supports, the plate is held at its center by a large rod connected to four blades which are partially immersed in machine oil (see figure). The platform absorbs microseismic disturbances with frequencies of 2-20 cps and is used with geophysical instruments. The natural frequency of the device is expressed analytically in terms of the physical properties of the elastic rods. This frequency should be at least 3 times lower than the disturbance frequency. Tests showed that this platform can reduce the effect of microseismic disturbances from 5 to 10 times. Examples of readings from instruments mounted on the platform are included. Orig. art. has: 6 figures, 4 formulas.

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L 22554-66

ACC NR: AT6003006

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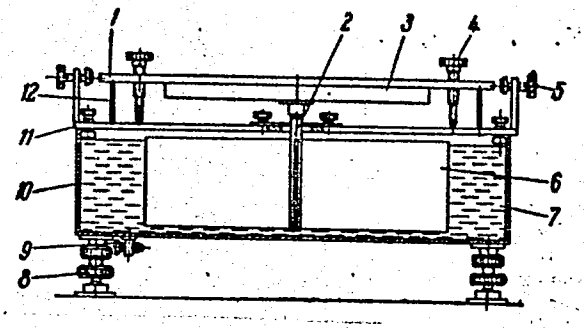

Shock absorbing platform.

SUB CODE: 08,14/ SUBM DATE: 00/ ORIG REF: 006/ OTH REF: 000

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308610008-5

ACC NR: AP6021765 SOURCE CODE: UR/0413/66/000/012/0020/0020

INVENTOR: Kurbatov, V. A.; Borisov, A. P.; Chernozemov, V. T.

ORG: None

TITLE: A press for making pipes and structural shapes. Class 7, No. 182664

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 20

TOPIC TAGS: metal forming press, die, pipe, fabricated structural metal

ABSTRACT: This Author's Certificate introduces: 1. A press for making tubes and structural shapes from light metals and alloys. This press consists of a frame on which is mounted a front cross member with back stroke cylinders, die and tool assembly. Parts with flanged ends are produced by an upsetting cylinder. This cylinder has a punch fastened to it and is equipped with a mechanism for removing this punch from its working position. These units are set in the front cross member. The press is also equipped with a mechanism mounted on the frame for separating the removable female die assembly which is mounted on the nozzle of the press. 2. A modification of this press in which the mechanism for removing the punch from its working position is made in the form of a lock which interacts with the punch. This mechanism is fixed to the power cylinder rod mounted on the front cross member of the press. 3. A modification of this press in which the mechanism for separating the removable die assembly

 UDC: 621.777.06:621.979

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