"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

KUBICKA, Rudolf; VEPREK, Jaroslav

Production of fuel oils with lower content of sulfur.
Ropa a uhlie 7 no.2:48-52, 57 F '65.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPREK, J.

General properties of bridges with thermistors. p. 413.

SLABOPROUDY OBZOR. (Ministerstvo vseobecniho strojirenstvi, Ministerstvo spoju a Ceskoslovenska vedecko-technicka spolecnost, sekce elektrotechnika) Praha, Czechoslovakia, Vol. 20, No. 7, July 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959.

Uncl.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPREK, J.

Simple design of selective amplifiers with RC networks of the double symmetrical T type. P 740

SLABOPROUDY OBZOR (Ministerstvo vscobenibo strojirenstvi, Ministerstvo spoju a Ceskoslovenska vedecko-technicka spolecnost, sekce elektrotechnika) Praha, Czechoslovakia, Vol. 20, no. 12 Dec. 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 9, no. 2, Feb. 1960

Uncl.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPREK, J.

"Analysis of the characteristics of a thermistor as flow measuring element of liquids and gases." P. 353.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV). Praha, Czechoslovakia, Vol. 20, No. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

ACCESSION NR: AP4015899 Z/0039/64/025/001/0034/0039

AUTHOR: Veprek, Jaroslav (Engineer, Candidate of sciences); Zobac, Ladislav (Engineer, Candidate of sciences)

TITLE: A thermistor vacuum gauge

SOURCE: Slaboproudy obzor, v. 25, no. 1, 1964, 34-39

TOPIC TAGS: thermistor, vacuum gauge, gas pressure, vacuum measurement, pressure measurement, bead-type thermistor

ABSTRACT: An analysis is made of the dependence of a bead-type thermistor on the gas pressure, with the purpose of producing equations suitable for designing new thermistor vacuum gauges. At an atmospheric pressure p_p = 760 mm Hg the gas has a heat conductivity $\lambda = \lambda p$ and the resistance of the thermistor is $R = R_p$ (B in the graph in Fig. 2 of Enclosure 01). If the pressure drops, the heat conductivity declines causing a drop in the thermistor resistance. When pressure reaches the critical point $p_k = 10^{-3}$ mm Hg the heat conductivity is

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

ACCESSION NR: AP4015899

$\lambda = \lambda_k$ and resistance $R = R_k$(A in the graph). The change in the dependence $R = f(\ln p)$ in the bead-type thermistor is shown in the graph. If pressure is $p \gg p_k$, then the equation for practical uses has the following form:

$$\Delta R_p = \Delta R_{pk} \cdot \sqrt{\frac{e^{\ln p}}{w + e^{\ln p}}}.$$

The constant $w = f(\lambda p)$ has a considerable influence on the function $\Delta R_p = f(\ln p)$ and is equal to 0.8 in thermistors in Table 1 of Enclosure 02. The change in the pressure ΔR_{po} caused by the change of atmospheric pressure is then

$$\Delta R_{po} = \Delta R_{pko} \cdot \sqrt{\frac{e^{\ln p}}{0{,}8 + e^{\ln p}}}.$$

The graphic expression of the function $\Delta R_{po}/\Delta R_{pko} = f(\ln)$ is shown in

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ACCESSION NR: AP4015899

Fig. 3 of Enclosure 03. The dependence of the changes in the resistance ΔR_{pk} of the bead-type thermistor on the temperature and heat conductivity of gases is then

$$\Delta R_{pk} = 0{,}067 \cdot R_0 \cdot \beta_{po} \cdot \frac{1}{\sqrt{\lambda_p}} \cdot \frac{(1 - 0{,}01\vartheta)}{e^{0{,}016(\vartheta - 100)}}.$$

$$[\Omega;\ ^\circ C,\ kcal/m\ h\ ^\circ C]$$

where β_{po} is $\Delta R_{pk}/R_0$, ϑ temperature, and λ_p heat conductivity. For air ($\lambda_p = \lambda_{po} = 0.02$ kcal/m·h·degree centigrade) the equation takes the following form:

$$\Delta R_{pko} = 0{,}63 \cdot R_0 \cdot \beta_{po} \cdot \frac{(1 - 0{,}01\vartheta)}{e^{0{,}016(\vartheta - 100)}}. \quad [\Omega;\ ^\circ C]$$

Two thermistors of the NR08A series, developed by the VUST, Prague, are described, one with a resistance of 7.7, the other with 56 k-ohms. A cross section and circuit diagram of the thermistor vacuum gauge are shown in Figs. 6 and 8 of Enclosures 04 and 05. The instrument described is said to be easier to

Card 3/4

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

ACCESSION NR: AP4015899

manufacture than Pirani's vacuum gauge, and yields the same results. Orig. art. has 11 figures, 16 formulas, and 1 table.

ASSOCIATION: Ustav pristrojove techniky CSAV, Brno (Institute for Instruments Technology, CSAV)

SUBMITTED: 27Aug63 DATE ACQ: 03Feb64 ENCL: 05

SUB CODE: GE, PH NO REF SOV: 000 OTHER: 018

Card 4/4

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

ACCESSION NR: AP4016579 Z/0039/64/025/002/0075/0078

AUTHOR: Veprek, Jaroslav (Engineer)

TITLE: The long-term resistance stability of Czech-made bead thermistors

SOURCE: Slaboproudy obzor, v. 25, no. 2, 1964, 75-78

TOPIC TAGS: bead thermistors, long-term stability

ABSTRACT: This article describes the artificial aging of Czech-made bead thermistors by loading them with a-c. In addition, a study is made of the effect of loading on the resistance variation of the thermistors; and the loading time, necessary for achieving the desired stability of the thermistor resistance, is derived from the measurement results. On the basis of the values measured, it is concluded that if the spontaneous resistance variation of the most frequently used Czech bead thermistors does not exceed 5% during their long-term use, the formation should continue for at least 3,000 hours. If the sponteneous resistance variation during the protracted operation of the thermistors is less than 0.2%, the formation should continue for at least 5,000 hours. The formation is extremely simple for it consists of the protracted loading of thermistors, arranged one after the other, by the alternating current, of the network frequency after a given time. The most advantageous loading current, dependent

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

ACCESSION NR: AP4016579

on the initial comparative resistance of the thermistors, is given by the maximum voltage decrease in one of the thermistors. Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: Ustav pristrojove techniky CSAV, Brno (Institute of Instrument Engineering, CSAV)

SUBMITTED: 04Oct63 DATE ACQ: 26Feb64 ENCL: 00

SUB CODE: GE NO REF SOV: 000 OTHER: 008

Card 2/2

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

41931
S/194/62/000/009/021/100
D201/D308

AUTHORS: Zehnula, Karel and Veprek, Jaroslav

TITLE: A semiconductor transducer

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 9, 1962, abstract 9-2-38 zh (Czech. pat., cl. 21a4, 77, 21c, 26, no. 98299, January 15, 1961)

TEXT: A design of a thermistor-type semiconductor transducer is patented, distinguished by a heater placed inside the transducer. The semiconductor layer is applied to the surface of the heater. The insulator is an oxide layer. 2 figures. [Abstracter's note: Complete translation.]

Card 1/1

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPREK, Jaroslav, inz.

Principles of designing thermistor thermometers. Slaboproudy obzor 21 no.12:697-704 D '60. (EEAI 10:3)

1. Laborator prumyslove elektroniky Ceskoslovenske akademie ved, Brno.
(Thermistors) (Termometers and thermometry)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPREK, O.

Dinas bricks from silicious schist. R. Ratta, J. Vašíček, and O. Veprek (*Hutnické Listy*, 1954, 9, 11—17).—Results of examination of physical and technological properties of indigenous silicious schist are discussed. It is found that schist from certain locations is suitable for production of high quality SiO_2 bricks, which mantain their refractoriness up to 1680—1700°.

S. K. Lachowicz.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VETREK, O.

Ascertaining impurities in raw materials for the production of Dinas clay. p. 171. (SILIKATY, Vol. 1, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPREK, O.

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15

Silica from the high-pyritic quartz of Banská Bel. Miloslav Bartuška and Otakar Veprek. *Silikáty* 2, 139-73 (1958).—Silica having good technological qualities can be produced, especially that with a high load test at high temp. (1095°). Oscar Guire

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BARTA, R.; VASICEK, J.; VEPREK, O. "Dinas bricks made of silicious schist." p. 11 (Hutnicke Listy. Vol. 9, no. 1, Jan. 1954. Brno.)

SO: Monthly List of East European Accessions, Vol. 3, no. 6, Library of Congress. June 1954. Uncl.

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Existence of the double structure of standing striations in the low-pressure discharge of neon. Cheskhosl fiz zhurnal 15 no.2,100-101 '65.

1. Institute of Physics of the Czechoslovak Academy of Sciences, Prague 8, Lumumbova 2 (for Veprek). 2. Faculty of Mathematics and Physics of the Charles University, Prague 2, Ke Karlovu 5 (for Studnicka). Submitted June 4, 1964.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

DEMELOVA, M.; VEPREKOVA, A.

Persistence of lethal effect in toxoids of some staphylococcus strains. II. Demonstration of the lethal factor in toxins and toxoids of the strain 02 prepared by submerse cultivation. J. hyg. epidem. (Praha) 8 no.4:412-419 '64.

1. Institute of Sera and Vaccines, Prague.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

M. VEPREKOVA

"Training of new dietitians." p. 51. (VYZIVA LIDU, Vol. 6, no. 4, Apr. 1953, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

STIRAND, O.; VEPREK, S.

Spectral analysis of standing layers in the plasma of a positive column of low-pressure hydrogen discharge. Chekhosl fiz zhurnal 14 no.9:690-697 '64.

1. Institute of Physics, Czechoslovak Academy of Sciences, Prague 8, Lumumbova 1.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPREK-SISKA, J., and others

"Inorganic nitrogen compounds," III. Separation of inorganic nitrogen compounds by means of paper ionophoresis. In German. p. 1385.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praha, Czech.
Vol. 24, No. 5, May 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 6, Sept. 59

Unclassified

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

Distr: 4E3d 27

Inorganic nitrogen compounds. III. The separation of inorganic nitrogen compounds by paper ionophoresis. Josef Vepřek-Šiška, František Šmirous, Vladimír Pliška, and František Veselý (Vysoká škola chem. technol., Prague). *Chem. listy* 52, 410-12(1958); cf. *C.A.* 52, 19651g.—Paper ionophoresis on Whatman paper no. 1 was used for the sepn. of NH_3, NH_2OH, N_2H_4, $N_2O_2^{--}$, $N_2O_3^{--}$, NO_2^-, and NO_3^-. Three procedures are required for the detection of the above ions: Treatment with 0.5% K_2HgI_4 in 2.5% NaOH developed NH_3, NH_2OH, and N_2H_4; treatment with 1% $AgNO_3$ and irradiation with ultraviolet detected $N_2O_2^{--}$ and $N_2O_3^{--}$; and treatment with 1% soln. of KI with 0.5% starch detected NO_2^- and NO_3^-. M. Hudlický

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

COUNTRY : Czechoslovakia C
CATEGORY :

ABS. JOUR. : RZKhim., No. 22 1959, No. 78113

AUTHOR : Veprek-Siska, J., Pliska, V., Smirous, F., and *
INST. : Not given
TITLE : Inorganic Compounds of Nitrogen. I. Mechanism of the Decomposition of Aqueous Solutions of Hyponitrate
ORIG. PUB. : Collection Czechoslov Chem Commun, 24, No 3, 687-693 (1959)
ABSTRACT : See RZKhim, 1959, No 1, 740.

CARD: 1/1 * Vesely, F.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

E

CZECHOSLOVAKIA/Analytic Chemistry. Analysis of Inorganic Substances.

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77305.

Author : Veprek-Siska Josef; Smirous Frantisek; Pliska Vladimir.

Inst :

Title : Inorganic Nitrogen Compounds. I. Determination of Hydronitrous Salts.

Orig Pub: Chem. listy, 1958, 52, No 1, 43-46.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

Abstract: A procedure method of $N_2O_3^{2-}$ determination in the presence of NO_2^- or other inorganic nitrogen compounds was developed. The method was based on the color reaction of $N_2O_3^{2-}$ with $[Ni(CN)_4]^{2-}$ = $[Ni(CN)_3NO]^{2-}$ + $[Ni(CN)_4]^{2-}$:

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

CZECHOSLOVAKIA/Analytic Chemistry. Analysis of Inorganic Substances. E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77305.

$+ NO_2^- + CN^-$. The color caused by the formation of the complex anion $[Ni(CN)_3NO]^{2-}$ is photometered using a blue-green light filter. The light absorption by the excess of $K_2Ni(CN)_4$ does not interfere, because its light-absorption maximum is far enough from the light-absorption maximum of $[Ni(CN)_3NO]^{2-}$. That color reaction proceeds in an alkaline medium and only at an elevated temperature; in order to attain the maximum color intensity, the reaction mixture should be heated 20 min. in a boiling water bath. Considering that the color intensity depends also on the solution alkalinity, it is necessary to see to it that the concentration of OH^- ions remains constant. The

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

REGNER,A.; ETTEL,V.; VEPREK-SISKA, J.

Chemical production of active manganese dioxide. Coll Cz Chem 28 no.11:2854-2863 N'63.

1. Institut für anorganische Chemie, Tschechoslowakische Akademie der Wissenschaften, Prag.

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Thermomagnetic analysis. p. 221. (SILIKATY, Vol. 1, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

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VEPREK-SISKA, J.; SMIROUS, F.; PLISKA, V.

SCIENCE

Periodical CHEMICKE LISTY. Vol. 52, no. 1, Jan. 1958.

VEPREK-SISKA, J.; SMIROUS, F.; PLISKA, V. Inorganic nitrogen compounds. I. Determination of oxyhyponitrite. p. 43.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

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VEPREK-SISKA, J.; WAGNEROVA, D.M.

Monoequivalent oxidations. Pt.1. Coll Cz Chem 30 no.5:1390-1401 My '65.

1. Institut fur anorganische Chemie, Tschechoslowakische Akademie der Wissenschaften, Prague. Submitted June 22, 1964.

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VEL[illegible]K-S[illegible]A, J. and others.

SCIENCE

Periodical [illegible] LISTS. Vol. 52, no. 2, Feb. 195[illegible].

V[illegible]-SI[illegible]A, J., and others. Inorganic nitrogen compounds. II. Mechanism of the decomposition of aqueous solutions of $Na_2N_2O_3$. p. 184.

Monthly List of East European Accessions (EEAI) [illegible], vol. [illegible], no. 3, March, 195[illegible]. Uncl.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

ETTEL, Viktor; VEPREK-SISKA, Josef

Manganese dioxide. Chem listy 57 no.8:785-796 Ag '63.

1. Ustav anorganicke chemie, Ceskoslovenska akademie ved, Praha.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

CZECHOSLOVAKIA

VEPREK-SISKA, J; ETTEL, V; REGNER, A

Institute for Inorganic Chemistry, Czechoslovak Academy of Sciences (Institut fur anorganische Chemie, Tschechoslowakische Akademie der Wissenschaften), Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 3, March 1966, pp 1237-1247

"Reactions of very pure substances. Part 2: Catalyzed decomposition of alkaline permanganate solution."

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

CZECHOSLOVAKIA

VEPREK-SISKA, J; WAGNEROVA, D.M; ECKSCHLAGER, K

Institute for Inorganic Chemistry, Czechoslovak Academy of Sciences (Institut fur anorganische Chemie, Tschechoslowakische Akademie der Wissenschaften) Prague - (for all)

Prague Collection of Czechoslovak Chemical Communications, No 3, March 1966, pp 1248-1255

"Uni-equivalent oxidation. Part 2: Sulfite oxidation using complex ions."

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPREK-SISKA, J.

: CZECHOSLOVAKIA E
: Analytical Chemistry. Analysis of Inorganic Substances
: Ref Zhur - Khim., No 3, 1959, No. 15070

: Veprek-Siska, J.; Smirous, F.; Pliska, V.;*

: Inorganic Compounds of Nitrogen. III. Separation of Inorganic Compounds of Nitrogen by the Method of Paper Iontophoresis
: Chem. listy, 1958, 52, No 3, 41-412

: The division and detection of the products of oxidation and reduction of anions of O-containing N-acids (NO_3^-, NO_2^-, $N_2O_3^{-2}$, $N_2O_2^{-2}$, NH_3OH^+, $N_2H_6^{+2}$, NH_4^+) by the method of paper iontophoresis is described. Division of the ions indicated in the parentheses is accomplished on three strips of Whatman No. 1 (56 x 8 cm.) chromatographic paper in different elec-

* Vesely, F.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

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Country : CZECHOSLOVAKIA
Category : Analytical Chemistry. Analysis of Inorganic Substances

Abs. Jour : Ref Zhur - Khim., No 5, 1956, No. 15070

Author :
Institution :
Title :

Orig. Pub. :

Abstract Cont'd : trolytes. For NH_4^+, NH_3OH^+ and $N_2H_6^{+2}$, 0.001 n. H_2SO_4 solution is used as an electrolyte; for $N_2O_2^{-2}$ and $N_2O_3^{-2}$ - a solution of 15 g. of Na_2SO_4 and 0.6 g. of NaOH in one liter; and for NO_2^- and NO_3^- - a solution of Na_2SO_4 (15 g./l.) with saturated Ag sulfate. On each strip, 1 µl. of analyzed solution (solution of corresponding Na salts or chlorides in 0.001 n. NaOH) is ap-

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

E

Country : CZECHOSLOVAKIA
Category : Analytical Chemistry. Analysis of Inorganic Substances
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15070
Author :
Institut. :
Title :

Orig Pub. :

Abstract Cont'd : more mobile complex anion with Fe^{+3}. The mobilities of NO_2^- and NO_3^- are also approximately similar and, therefore, for their division Ag^+ is used, which decreases the ion mobility of NO_2^-. For the detection of ions of the first group, K_2HgI_4 is used; for ions of the second group - $AgNO_3$ (reduction of $Ag_2N_2O_2$ and $Ag_2N_2O_3$ to metallic Ag in ultraviolet light); and for ions of the third group - KI (isolation of I_2 as a result of the interaction of KI with NO_2^-

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPREK-ŠIŠKA, J.

AUTHORS: Vepřek-Šiška, J., Šmirous, F. and Plíška, V.

TITLE: ~~Inorganic Nitrogen~~ Compounds (Anorganické sloučeniny dusíku IV. Mechanism of the Reduction of Nitrites in Alkaline Solution (IV. Mechanismus redukce dusitanů v alkalických roztocích)

PERIODICAL: Chemické Listy, 1958, Vol 52, Nr 11, pp 2056 - 2059 (Czechoslovakia)

ABSTRACT: It was found that the reduction of the more concentrated alkaline solutions of nitrite by sodium amalgam yields, apart from the gaseous products, $N_2O_3^{2-}$, $N_2O_2^{2-}$ and ammonia and the reduction of $N_2O_3^{2-}$ and $N_2O_2^{2-}$ and ammonia. Hyponitrite is not reduced by sodium amalgam. From the products found on the reduction of NO_2^-, $N_2O_3^{2-}$ and $N_2O_2^{2-}$, it is possible to formulate conclusions on the mechanism of nitrite reduction. The reduction of nitrite to ammonia occurs through nitroxyl and hydroxylamine; $N_2O_3^{2-}$, $N_2O_2^{2-}$ and the gaseous products are formed by the reaction of initially produced nitroxyl. The products of the reduction of NO_2^-, NO_2^-, $N_2O_3^{2-}$ and $N_2O_2^{2-}$ are given in Table 1, p 2057. The summary of reactions is indicated on p 2059.

Experiments and Results. Various concentrations of NO_2^-, NO_2^-, $N_2O_3^{2-}$ and $N_2O_2^{2-}$ (sodium salts) in solution were reduced with 1% sodium amalgam. $Na_2N_2O_3$ and $Na_2N_2O_2$ were prepared, then purified by ethanol precipitation from their concentrated aqueous solutions. This precipitation was repeated. The solution (25 ml.) was stored and cooled with ice water and the amalgam added slowly (total equivalent to 150% of the theoretical amount required to reduce to ammonia). After the addition of each fifth of the total amount of amalgam, samples were taken from the solution so reduced. The individual samples were examined for NO_2^-, $N_2O_3^{2-}$, $N_2O_2^{2-}$, hydroxylamine, hydrazine and ammonia (Table 1). The concentration range in the solutions to be reduced was 0.18 - 2 M. Further experiments were carried out on 0.1 M solutions. Only ammonia formation was detected with any certainty in solutions of NO_3^-, NO_2^- and $N_2O_3^{2-}$. The failure to reduce hyponitrite with sodium amalgam was confirmed by attempting it at various concentrations. $N_2O_3^{2-}$ was detected by its reaction with potassium nickelocyanide $K_2[Ni(CN)_4]$. To 0.1 M $K_2[Ni(CN)_4]$ solution (2 ml.) in a test tube, the test solution (1 ml.) was added. This test solution had been neutralised to pH8-10 with acetic acid (1:1) before mixing with the reagent. The amount of acetic acid so required was determined by the titration of a duplicate sample using phenolphthalein as indicator. The tube with the solution was heated for 20 min in a boiling water bath. The

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presence of $N_2O_3^{2-}$ is indicated by the production of the violet colour of the tricyanonitrosonickel compound. Its identity was demonstrated by absorption spectra. Since the coloured tricyanonitrosonickel compound can arise by the reaction of hydroxylamine with $K_2[Ni(CN)_4]$, the test was repeated each time with a sample which was acidified and then made alkaline again. With this decomposition of $N_2O_3^{2-}$ the reaction with $K_2[Ni(CN)_6]$ was found to be negative. Nitrite, hyponitrite, hydrazine and ammonia were detected after a preliminary separation by paper electrophoresis. Whatman nr 1 chromatography paper was spotted with the reduced solution (5µl). For the detection of anions, the solution was neutralised to pH8-10 with acetic acid and for the detection of hydroxylamine, hydrazine and ammonia it was acidified slightly with sulphuric acid (1:1) (with cooling) immediately before spotting.

Authors' note: for the compounds HNO and $H_2N_2O_2$, the terms "nitroxyl" and "hyponitrous acid" are used, since they are generally so named in the current literature.

This is an abridged translation.

There 1 figure, 1 table and 14 references, 4 of which are Czech, 3 English and 7 German.

ASSOCIATION: Katedra anorganické chemie, Vysoká škola chemicko-technologická, Praha (Department of Inorganic Chemistry, Technical University (Faculty of Chemical Technology, Prague.))

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

CZECHOSLOVAKIA / Inorganic Chemistry. Complex Compounds. C-1

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 740.

Author : ~~Veprek-Siska, J.;~~ Pliska, V.; Smirous, F.; Vesely, F.
Inst : Not given.
Title : Inorganic Nitrogen Compounds. II. The Mechanism for the Decomposition of Aqueous Hyponitrate Solutions.

Orig Pub: Chem. listy, 1958, 52, No 2, 184-189.

Abstract: The mechanism for the decomposition and oxidation of aqueous solution of $Na_2N_2O_3$ (I), also the effect of pH on the stability of solutions was investigated. The direction of isothermal dehydration of the system I + water at 20° C. indicates the presence of the monohydrate of I. Depending on the volume of gas, separated by complete decomposition of I in

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

CZECHOSLOVAKIA / Inorganic Chemistry. Complex Compounds. C-1

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 740.

Abstract: aqueous solution at 100° C. and at different pH, this decomposition in alkali medium takes place according to the following equation: $2N_2O_3^{2-} + H_2O = N_2O + 2NO_2^- + 2OH^-$, and in acid medium to the equation: $N_2O_3^{2-} + 2H^+ = 2NO + H_2O$. A gas analysis for the rate of decomposition of the solutions of I at 20° C. and 55° C., and their rate of oxidation at 20° C. depending on the pH, indicated that I is stable in a strong alkali medium, but by decreasing the alkalinity its stability also decreases. As the result of hydrolysis, the stable $N_2O_3^{2-}$ anion is converted into the unstable $HN_2O_3^-$ anion, which upon rupture of the N-N bond decomposes readily according to the following equation;

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VEPŘEK-ŠIŠKA, JOSEF

CZECH

Effect of hydrolysis on the magnetic moment of the nickel(II) ion. [illegible] Technol. Prague [illegible] Measurements of the magnetic [illegible] solns show that the magnetic moment of the [illegible] ions depends on the pH [illegible] and aging. These dependences are explained [illegible] dessed basic ions. E. [illegible]

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK (fnu), RAZORENOV, L.A., FRADKIN, M.I., TOLSTOV, K.D., KURNOSOVA, L.V., CHUKIN

"Controlled exposition of nuclear emulsions on sputniks"

Fourth International Colloquium on Photography (Corpuscular) - Munich, West Germany, 3-8 Sep 62

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, D.I., inzh.; IZRAILEV, M.S., inzh.; RISS, L.O., inzh.; SAL'KOV, B.L., inzh.

Features of relay protection of traction substation feeding lines. Elektrichestvo no.1:15-22 Ja '61. (MIRA 14:4)

1. Leningradskoye otdeleniye Teploelektroproyekta.
(Electric railroads—Current supply)
(Electric protection)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

ANTONOVA, I.T., inzhener (Moskva); BARIT, S.Yu., inzhener (Moskva); VEPRIK, I.B., inzhener (Moskva).

Heat-resistant concrete for lining furnaces. Stroi.pred.neft.prom. 1 no.6:16-18 Ag '56. (MIRA 9:9)
(Refractory materials) (Concrete)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

MAKAREVICH, Vitaliy Sergeyevich; VEPRIK, Gennadiy Nikolayevich; GERASIMOV, Vasiliy Petrovich; SIMONOV, Veniamin Georgiyevich; GORODETSKOV, A.P., inzh., retsenzent; LYUTTSAU, A.G., inzh., retsenzent; ZUBLEVSKIY, S.M., inzh., red.; USENKO, L.A., tekhn. red.

[Detection and elimination of faults in VL22[22] electric locomotives] Obnaruzhenie i ustranenie neispravnostei na elektrovozakh VL22[M]. Moskva, Transzheldorizdat, 1962. 127 p. (MIRA 15:11)
(Electric locomotives--Maintenance and repair)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

LEYRIKH, V.E.; VEPRIK, I.B.; PROKHOROV, V.Kh.

Expanding portland cement for fusing joints of precast reinforced concrete storage tanks. Stroi.truboprov. 8 no.7:6-8 Jl '63. (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po stroitel'stvu magistral'nykh truboprovodov.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, V. P.

Cand Med Sci - (diss) "Survey of the history of obstetrics and gynecology of the medical faculty of Khar'kov State Medical Institute for the 150 years from 1805-1955." Khar'kov, 1961. 12 pp; 200 copies; price not given; school not given; (KL, 5-61 sup, 201)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, YA.M.

VEPRIK, Ya.M.; FAYERMAN, G.P.

Comparison of the reducing activity of p-oxyphenylglycine, metol, and p-aminophenol. Trudy LIKI no.4:212-217 '56. (MLRA 10:5)

1.Kafedra obshchey i analiticheskoy khimii i kafedra fizicheskoy khimii.

(Glycine) (Metol) (Phenol)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, Ya. M. Cand Tech Sci -- (diss) "The oxidizing and reducing potential and the developing action of [redacted]-oxyphenylglycine." Len, 1957. 14 pp (Min of Culture RSFSR. Len Inst of ~~Moving Pictures~~ Film Engineers), 125 copies (KL, 6-58, 100)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, YA.M.

FAYERMAN, G.P.; VEPRIK, Ya.M.

Quantitative determination of p-hydroxyphenylglycine. Zhur.nauch.i prikl.fot.i kin. 2 no.2:110-115 Mr-Ap '57. (MLRA 10:5)

1.Leningradskiy institut kinoinzhenerov.
(Glycine)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

20-2-33/60

AUTHORS: Veprik, Ya. M., Fayerman G. P.

TITLE: Determination of the Oxidizing-Reducing Potentials of p-Oxyphenylglycine (Opredeleniye okislitel'no-vosstanovitel'nykh potentsialov p-oksifenilglitsina)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp.354-357 (USSR)

ABSTRACT: There does not yet exist any generally accepted interpretation of the mechanism and of the mathematical interrelationships of the process of photographic development. Unlike other interpretations, the so-called "electrochemical" theory of development offers explanations that are not only of a qualitative character but also permit, in principle, a quantitative verification. For this purpose, one must know the values of the electrochemical potentials of the silver particles of the photograph to be developed, further also the values of the oxidizing-reducing potentials of the developers at different pH in presence of the other developer components. As the measurement of the potentials of the developers is difficult,

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

20-2-33/50

Determination of the Oxidizing-Reducing Potentials of p-Oxyphenylglycine

the authors of the paper under review set themselves the task of experimental determination, at different values of pH, of the oxidizing-reducing potentials of p-oxyphenylglycine ("glycine"). This substance is used in photography and it represents a structural analogon of the well investigated methol and p-aminophenol. The measurements were carried out by oxidation titration with a smooth platinum electrode in pure nitrogen atmosphere. In an acid medium, the $Ce(SO_4)_2$ solution was used as oxidizer, whereas in an alkaline medium the $K_3[Fe(CN)_6]$ solution was used for that purpose. In the acid medium the curve of titration showed two potential jumps. On the other hand, only one jump existed at a retitration. The first jump corresponds to the two oxidation equivalents of the cerium sulphate IV, whereas the second jump (in the acid medium) and the only jump in the alkaline medium corresponds to the four equivalents. Both on the first and on the second oxidation stage the oxidized form remains unchanged for some time. The reaction of oxidation has a reversible course. The paper under review contains a possible scheme of this reaction. The authors of the present paper have determined that the reduction reaction of $AgNO_3$ by p-oxyphenylglycine in the acid medium takes place faster than by methol and p-aminophenyl.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

20-2-33/60

Determination of the Oxidizing-Reducing Potentials of p-Oxyphenylglycine

It is known from photographic experience that the alkaline glycine developer works slower than the developer with the two latter substances. Thus the experiments described in this paper resulted in the determination of exactly such relations of the reaction velocities of the silver ion reduction which could be expected from the point of view of the electrochemical theory of development. There are 3 figures, and 11 references, 5 of which are Soviet.

ASSOCIATION: Leningrad Institute for Cinematographic Engineering (Leningradskiy institut kinoinzhenerov)

PRESENTED: September 20, 1956, by A. N. Terenin, Member of the Academy

SUBMITTED: September 17, 1956

Card 3/4

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

AUTHORS: Veprik, Ya.M.; Fayerman, G.P. SOV-77-3-5-5/21

TITLE: The Photography Action of **Paraoxyphenyl Glycine in the** Light of the Electrochemical Development Theory (Fotograficheskoye deystviye paraoksifenilglitsina v svete elektrokhimicheskoy teorii proyavleniya)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, Vol 3, Nr 5, pp 245-350 (USSR)

ABSTRACT: To check Shishkina's theory that linear dependence between the image density and the pH of the developer exists, the author investigated the development speed **of a** glycine developer at various pH values from 1.0 to 11.0. As predicted by the electrochemical development theory, there proved to be a linear relationship between the density of the developed image, the pH of the developer and the logarithm of the concentration of developing substance in it. Glycine and methol developers, reduced to the same oxidizing-reducing potentials, were compared and gave practically identical results for both chemical and physical development. Paraoxyphenylglycine develops more slowly than methol in an alkaline medium, and faster in an acid one. Development in a **paraoxyphenyl glycine** physical developer given a sensitivity

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

SOV-77-3-5-5/21

The Photography Action of Paraoxyphenyl Glycine in the Light of the Electrochemical Development

of only 6-10 times less and a contrast of 2.5-3 times more than in a standard chemical developer. There are 9 graphs, 1 table and 10 references, 9 of which are Soviet and 1 American.

ASSOCIATION: Leningradskiy institut kinoinzhenerov (The Leningrad Institute of Motion Picture Engineers)

SUBMITTED: February 21, 1957

1. Photographic emulsions--Theory 2. Photographic emulsions --Electrochemistry

Card 2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

05459

SOV/120-59-3-30/46

AUTHORS: Veprik, Ya. M., Protsanova, S. P. and Fayerman, G. P.

TITLE: Minimum Ionization Particle Tracks Obtained by the Physical Development Method (Polucheniye izobrazheniya sledov chastits s minimal'noy ionizatsiyey metodom fizicheskogo proyavleniya)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3, pp 128-129 + 1 plate (USSR)

ABSTRACT: The authors have attempted to use the n-oxyphenyl glycin physical developer to detect minimum ionization tracks in NIKFI-R nuclear emulsions. It was found that this method may be used to improve the energy discrimination between minimum ionization particles and to reduce the γ-ray background. The method has been used with 15 and 200 Mev protons and 300 Mev π^+ mesons in NIKFI-R emulsions 200 μ thick. The films were first immersed in distilled water for 15-20 min at 10°C (all the other stages were also carried out at this temperature). The films were then placed in the following chemical developer for a short time:

Water (50°C) - 750 mℓ,

Na_2SO_3 (anhydrous) - 12.5 g,

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05459
SOV/120-59-3-30/46

Minimum Ionization Particle Tracks Obtained by the Physical Development Method

K_2CO_3	- 25.0 g
n-oxyphenyl glycin	- 5.0 g
cold water	- up to 1 l.

This developer was activated by the addition of 0.1 g/l of "phenidon". The films were then placed in a stop-bath (0.5% CH_3COOH solution) and subsequently carefully washed and fixed in the following fixer:

Ha_2CO_3 (anhydrous)	- 1 g,
Na_2SO_3 (anhydrous)	- 5 g,
$Na_2S_2O_3 \cdot 5H_2O$	- 300 g,
Water	- 700 ml.

The films were fixed for 70 min and then washed again. They were then developed in physical n-oxyphenyl glycin developer for 20 min. Subsequently they were washed again and dried in water alcohol solutions until they assumed their original dimensions. Fig 1 shows a comparison of the result of chemical (a) and physical (b) development of 200 μ nuclear emulsions irradiated with

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05459
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Minimum Ionization Particle Tracks Obtained by the Physical Development Method

π^+ mesons at 300 Mev. Fig 2 shows a comparison between the chemical (a) and physical (b) development of 200 μ emulsions irradiated with neutrons from a Po-Be source with a gamma background.
There are 2 figures and 10 references, 7 of which are Soviet, 1 English, 2 French.

ASSOCIATIONS: Leningradskiy institut kinoinzhenerov (Leningrad Institute for Cinematographic Engineers) and Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute for Nuclear Studies)

SUBMITTED: March 30, 1958

Card 3/3

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, Ya.M.

Investigating the oxidation of H-hydroxyphenylglycine. Trudy LIKI no. 5:177-182 '59. (MIRA 13:12)

1. Kafedra obshchey i analiticheskoy khimii Leningradskogo instituta kinoinzhenerov.
(Glycine) (Photography--Developing and developers)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

37199
S/560/61/000/011/005/012
E032/E514

3.2100 (also 4303)

AUTHORS: Veprik, Ya.M., Kurnosova, L.V., Razorenov, L.A., Tolstov, K.D., Fradkin, M.I. and Chukin, V.S.

TITLE: Experiment on the development of photographic emulsions on board the second cosmic spaceship

SOURCE: Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli. no.11. Moscow, 1961. Rezul'taty nauchnykh issledovaniy, provedennykh vo vremya poletov vtorogo i tret'yego kosmicheskikh korabley-sputnikov, 35-41

TEXT: The second Soviet cosmic spaceship carried stacks of thick nuclear emulsions. Owing to the fact that the spaceship remained in orbit for a considerable time, the number of particles recorded in the emulsions was very large, which could complicate subsequent scanning and identification of particle tracks. It was, therefore, necessary to develop the emulsions before too many particles had been recorded. An account is given in the present paper of how the emulsions were in fact developed on board the spaceship. The operation was carried out in four stages, namely: 1) exposure of the emulsions to the radiations for a given time,

Card 1/2

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

Experiment on the development ... S/560/61/000/011/005/012
E032/E514

2) development, 3) storage of the emulsions (latent-image centres produced during this period could not be developed), 4) subsequent laboratory analysis on the Earth's surface. The whole operation was carried out in a hermetically sealed container. The emulsion stack (20 unbacked emulsions 300 μ thick each) had to be so arranged that after the exposure the emulsions could be separated from each other and the developer let in. This was done by a piston device (a schematic drawing of the latter is reproduced). After this operation the developer was removed and a stopping solution was introduced. The emulsions remained in this solution until they were returned to the laboratory for final treatment. It was found that relativistic tracks were easily visible in these emulsions, although the sensitivity to the latter turned out to be somewhat lower than usual. Two particle-track microphotographs are reproduced to illustrate the possibilities of the method. There are 3 figures.

SUBMITTED: July 7, 1961

Card 2/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

BOGOMOLOV, K.S., red.; PERFILOV, N.A., red.; BELOVITSKIY, G.Ye., red.; DOBROSERDOVA, Ye.P., red.; ZHDANOV, G.B., red.; KARTUZHANSKIY, A.L., red.; LYUBOMILOV, S.I., red.; MINERVINA, Z.V., red.; RAZORENOVA, I.F., red.; ROMANOVSKAYA, K.M., red.; SAMOYLOVICH, D.M., red.; STARININ, K.V., red.; TRET'YAKOVA, M.I., red.; UVAROVA, V.M., red.; SHUR, L.I., red.; POPOVA, A.K., red.; VEPRIK, Ya.M., red.; VERES, L.F., red. izd-va; KUZNETSOVA, Ye.B., red. izd-va; POLYAKOVA, T.V., tekhn. red.

[Nuclear photography; transactions] IAdernaia fotografiia; trudy tret'ego Mezhdunarodnogo soveshchaniia. Moskva, Izd-vo Akad. nauk SSSR, 1962. 474 p. (MIRA 15:6)

1. Colloque International de Photographie Corpusculaire. 3d, Moscow, 1960. 2. Nauchno-issledovatel'skiy kinofotoinstitut, Moskva (for Bogomolov, Uvarova, Romanovskaya, Starinin). 3. Predsedatel' Organizatsionnogo komiteta Tret'yego Mezhdunarodnogo soveshchaniya po yadernoy fotografii. 1960, Moskva (for Bogomolov). 4. Zamestitel' predsedatelya Organizatsionnogo komiteta Tre'yego Mezhdunarodnogo soveshchaniya po yadernoy fotografii. 1960, Moskva (for Perfilov). 5. Radiyevyy institut im. V.G.Khlopina Akademii nauk, Leningrad (for Shur, Perfilov). 6. Institut sovetskoy torgovli im. F.Engel'sa (for Kartuzhanskiy). 7. Ob"yedinennyy institut yadernykh issledovaniy, Dubna (for Lyubomilov). 8. Institut atomnoy energii im. I.V.Kurchatova Akademii nauk SSSR, Moskva (for Samoylovich).

(Photography, Particle track)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, Ya.M.

Physical developing with gold center developers. Zhur.nauch.i prikl.fot.i kin. 7 no.5:384-385 S-O '62. (MIRA 15:11)

1. Leningradskiy institut kinoinzhenerov.
(Photography--Developing and developers)
(Photography--Particle track)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, Ya.M.; SINTSOV, V.N.; FAYERMAN, G.P.

Investigating the speed rate of the physical development with P-hydroxyphenylglycine developers. Zhur. nauch. i prikl. fot. i kin. 9 no.1:27-31 Ja-F'64. (MIRA 17:2)

1. Leningradskiy institut kinoinzhenerov (LIKI).

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

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VEPRIK, Ya.M.; GUSEVA, I.A.; ZHDANOV, A.P.; MARTYSH, G.G.; SHUR, L.J.

Nuclear emulsions developable in water-alkali solutions.
Zhur. nauch. i prikl. fot. i kin. 9 no.3:207-208 My-Je '64.
(MIRA 18:11)

1. Leningradskiy institut kinoinzhenerov i Radiyevyy institut imeni Khlopina, Leningrad. Submitted December 16, 1963.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, Ya.M.; FAYERMAN, C.P.

Redox potentials of p-hydroxyphenylglycine at varying pH values. Zhur. fiz. khim. 36 no.3:502-507 Mr '62. (MIRA 17:8)

1. Leningradskiy institut kinoinzhenerov.

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VEPRIK, Ya.M.; SINTSOV, V.N.; FAYERMAN, G.P.

Investigating the kinetics of silver nitrate reduction by p-hydroxyphenylglycine. Zhur. nauch. i prikl. fot. i kin. 8 no.6:434-437 N-D '63. (MIRA 17:1)

1. Leningradskiy institut kinoinzhenerov (LIKI).

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIK, Ya.M.; KARTUZHANSKIY, A.L.; TABOLA, V.P.

Relationship between the surface and internal latent images determined by the physical development. Zhur. nauch. i prikl. fot. i kin. 8 no.4:309-310 Jl-Ag '63. (MIRA 16:7)

1. Leningradskiy institut kinoinzhenerov (LIKI).
(Photochemistry)
(Photography—Developing and developers)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIKOV, N.N. (Perm' 57, ul.Kirovogradskaya, d.71,kv.46)

Fatal outcome as a result of using ether anesthesia. Klin.khir. no.8:65-66 Jl '62. (MIRA 15:11)

(ETHER (ANESTHETIC)--TOXICOLOGY)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIKOV, N.N. (Perm')

Lymphangioma of the mesentery of the small instestine. Khirurgiia no.11:124-125 '61. (MIRA 14:12)
(MESENTERY--TUMORS) (LYMPHATICS--TUMORS)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIKOV, N.N.; IVANOV, V.M.

Hashimoto's goiter. Vest. khir. 92 no.1:74-75 Ja '64. (MIRA 17:11)

1. Iz khirurgicheskogo otdeleniya (zav. - N.N. Veprikov) mediko-sanitarnoy chasti (glavnyy vrach - N.T. Zabolot'ko), Perm.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIKOVA, D. I.

Our experience in raising fine-wooled sheep Moskva, Gos. izd-vo selkhoz. lit-ry, 1954. 20 p.

1. Sheep - Russia.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRIKOVA, N.A.

Activation of the educational process in human anatomy and physiology classes. Biol. v shkole no.3:32-35 My-Je '61. (MIRA 14:7)

1. Zaveduyushchaya uchebnoy chast'yu shkoly rabochey molodezhi No. 1 g. Ul'yanovska.
(Anatomy, Human--Study and teaching)
(Physiology--Study and teaching)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

OROBCHENKO, Ye.V.; VEPRINSKAYA, M.N.; PRYANISHNIKOVA, N.Yu.

Utilization of the still residues of synthetic fatty acids in the production of polymeric materials. Masl.-zhir.prom. 28 no.8:27-28 Ag '62. (MIRA 17:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut plasticheskikh mass.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

OROBCHENKO, Ye.V., inzh.; PRYAMISHNIKOVA, N.Yu.; [illegible]

Properties and chemical composition of the [illegible] of synthetic fatty acids. Masl.-zhir. prom. [illegible] no. 2:25-26 '61. (MIRA 14:2)

1. Nauchno-issledovatel'skiy institut stroitel'nykh materialov i izdeliy.

(Acids, Fatty)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

L 44368-66 EWT(m)/EWP(j)/T/EWP(v) IJP(c) RM/WW

ACC NR: AP6023062 (A) SOURCE CODE: UR/0191/66/000/004/0024/0026

AUTHOR: Volk, A. I.; Timofeyev, N. Ya.; Veprinskaya, M. N.; Shtern, K. A.; Kozorovitskiy, V. R.

33
B

ORG: none

TITLE: Investigation of the technological parameters for the continuous production of the polyester glass-plastic laminates

SOURCE: Plasticheskiye massy, no. 4, 1966, 24-26

TOPIC TAGS: laminated glass, laminated plastic, synthetic material, styrene

ABSTRACT: The effect of styrene content in the binder (18-34%), temperature of charge make-up (20°-60°C), and duration of charge gelatinization (3-9 minutes) on the mechanical properties of polyester glass-plastic laminates was investigated. The binder was composed of styrene and polydiethyleneglicolmaleinatephthalate. Polymerization of the laminates was conducted at 80°C using 1.5% benzoyl peroxide initiator. It was found that the higher the styrene content, the greater the rate of binder hardening. The best mechanical properties of laminates (highest bending strength) resulted from the use of binders containing 26-33% styrene. Orig. art. has: 2 figures, 3 tables.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 002

UDC: 678.06-419 : 677.521 : 69-932

Card 1/1 hc

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

L 45889-66 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6024049 (A) SOURCE CODE: UR/0191/66/000/005/0032/0033

AUTHOR: Volk, A. I.; Shtern, K. A.; Timofeyev, N. Ya.; Veprinskaya, M. N.

ORG: none

TITLE: Effect of certain initiating systems on the setting of a binder for sheet fiber-glass reinforced plastics

SOURCE: Plasticheskiye massy, no. 5, 1966, 32-33

TOPIC TAGS: polyester resin, peroxide, copolymerization, reinforced plastic, polymerization initiator

ABSTRACT: The purpose of the work was to determine the type and amount of initiating admixtures promoting the copolymerization of polydiethylene glycol maleate phthalate resin with styrene (PN-1 resin) at 80-85°C. Combinations of pairs of peroxy compounds were chosen such that the activity of one peroxide manifested itself at a moderate temperature (70-80°C), and the activity of the other, at 100-120°C. Thus, the heat evolved by the action of the first, more active peroxide, leads to the initiation of the polymerization reaction by the second peroxide, whose decomposition temperature is higher. The following pairs were employed: benzoyl peroxide (BP) - methyl ethyl ketone peroxide (MEKP); BP - cyclohexanone peroxide (CHP); BP - cumene hydroperoxide (CHP). Graphs of variation of the temperature in the sample with time, characterizing the course of the exothermic process of copolymerization, were plotted. In all

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L 45889-66

ACC NR: AP6024049

cases, the use of pairs of peroxy compounds caused a faster setting of the polyester binder than in the case of each peroxide individually, and the ultimate strength in static bending was increased. The data obtained may be utilized in the manufacture of sheet fiber-glass reinforced plastics. Orig. art. has: 3 figures and 1 table.

SUB CODE: 11/ SUBM DATE: none/ OTH REF: 003 / SOV REF: 001

Card 2/2 LC

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRINSKIY, M. [Vepryns'kyi, M.]; SERGIYENKO, M.

There will be thriving collective farm cities. Znan.ta pratsia no.1:2-4 Ja '60. (MIRA 13:5)
(Ukraine--City planning)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRINSKIY, M. [Vopryns'kyi, M.]

A chemistry professor's marvelous "sheep." Znan.ta pratsia no.5:12 My '59. (MIRA 12:10)

(Wool, Artificial)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRINSKIY, S.
p. 2

25(3) PHASE I BOOK EXPLOITATION SOV/1672

USSR. Upravleniye po organizatsii i mekhanizatsii ucheta

Mekhanizatsiya ucheta i vychislitel'nykh rabot na promyshlennom predpriyatii; sbornik statey (Mechanization of Accounting and Computing Operations in an Industrial Establishment; Collection of Articles) Moscow, Gosstatizdat, 1957. 125 p. 5,100 copies printed.

Additional Sponsoring Agency: USSR. TSentral'noye statisticheskoye upravleniye.

Ed.: V.A. Ustiyants; Tech. Ed.: A.A. Kapralova.

PURPOSE: This book is intended for technical personnel servicing computers, tabulators, punch card machines, etc., and for those using this equipment.

COVERAGE: This collection of articles reviews various aspects of mechanical invoicing, use of key-operated calculators in account-

Card 1/4

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ing, functions of interplant clearing houses, accounting of state taxes using business machines and computers, and operation of punch card machines. Technical features of computing and calculating are discussed and some measures to improve reliability are outlined. No personalities are mentioned. There are 8 Soviet references.

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Rappoport, M. Technique of Calculating Finite Differences on Computing Machines 80

Khusainov, B. Compilation of Calibrating Tables on Tabulating Machines (Experience of the Computing and Business Machine Service

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Mechanization of Accounting (Cont.)

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Tikhomirov, Yu., and N. Kotov. Automatic Stopping of the Tabulator and Switching on of a Light Signal With the Appearance of a "Short" in the Tabulator and the Totaling Perforator 120

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VEPRINTSEV, A.A.

Tasks in the further improvement of Moscow's street lighting. Gor.khoz.Mosk.29 no.8:33-37 Ag '55. (MIRA 8:9)

1. Glavnyy inzhener Toplivno-energeticheskogo upravleniya Mosgorispolkoma

(Moscow--Street lighting)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRINTSEV, B.N.

Electrical activity of the giant axon of the earthworm in a supercooled state. Biofizika 4 no. 4:401-403 '59. (MIRA 14:4)

1. Biologo-pochvennyy fakul'tet, kafedra biofiziki Moskovskogo gosudarstvennogo universiteta.
(ELECTROPHYSIOLOGY) (COLD--PHYSIOLOGICAL EFFECT)
(NERVES)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRINTSEV, B.N.; SAKHAROV, D.A.

Potential of the nuclear membrane of the nerve cell. Biofizika 8 no.4:526 '63. (MIRA 17:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Institut morfologii zhivotnykh AN SSSR imeni A.N. Severtsova, Moskva.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRINTSEV, B.N.; VUL'FIUS, Ye.A.; SHUNGSKAYA, V.Ye.

Study of supravital nerve cells. Biofizika 9 no. 1:122-124 '64. (MIRA 17:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRINTSEV, B.N.

Physicochemical mechanisms of the generation of an action potential. Trudy MOIP. Otd. biol. 9:98-104 '64. (MIRA 18:1)

1. Kafedra biofiziki Moskovskogo universiteta.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

BURLAKOVA, Yelena Vladimirovna; VEPRINTSEV, Boris Nikolayevich; KOL'S, Ol'ga Romanovna; KRIGER, Yuriy Arkad'yevich; TARUSOV, B.N., prof., red.; SHAPIRO, F.B., red.; CHERKASOVA, V.I., red. izd-va; GRIGORCHUK, L.A., tekhn. red.

[Laboratory manual of general biophysics; in eight parts] Praktikum po obshchei biofizike; v vos'mi vypuskakh. Pod obshchei red. B.N. Tarusova. Moskva, Gos. izd-vo "Vysshaia shkola." Nos.3-4. [Investigation of bioelectric phenomena in tissues and cells] Issledovaniia bioelektricheskikh iavlenii v tkaniakh i kletkakh. 1961. 259 p. (MIRA 14:8)

(ELECTROPHYSIOLOGY—LABORATORY MANUALS)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

BOROVYAGIN, V.I.; SAMBAROV, D.A.; VEPRINTSEV, B.N.

Intrane lei in lusion in the neuron of the mollusk Lutonia diomedia Bergh. Biofizika 10 no.3:92-99 '65. (MIRA 18:5)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRINTSEV, B. N., Cand Biol Sci -- (diss) "Kinetics of electrical parameters of a nerve impulse at various temperatures." Moscow, 1960. 17 pp; (Moscow Order of Lenin and Order of Labor Red Banner State Univ im M. V. Lomonosov); number of copies not given; price not given; (KL, 26-60, 132)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

VEPRINTSEV, B.N.; ANTONOV, V.F.

Effect of temperature on the conduction of excitation in giant axons of the earthworm. Biofizika 4 no.5:541-549 '59. (MIRA 14:6)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.
(NERVES) (TEMPERATURE--PHYSIOLOGICAL EFFECT)
(ELECTROPHYSIOLOGY)

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859420004-8

BOROVYAGIN, V. L.; SAKHAROV, D. A.; VEPRINTSEV, B. N.

"Satellites of nerve cells in gastropod ganglion."

report submitted to 3rd European Regional Conf, Electron Microscopy, Prague, 26 Aug-3 Sep 64.

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