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84

2

Cathodic and anodic protection against corrosion of long-distance trunk gas mains. S. Matěna (*Palivo*, 1951, 31, 188—190).—Corrosion of gas mains in urban districts may arise from stray d.c. from electric trams or railways, and in country districts from local electrochemical action. Protection in the former case is achieved by efficient insulation conforming to the regulations of the Czechoslovak Electrotechnical Ass. In country districts, cathodic or anodic protection is used; the methods employed are described.

H. TAUBER.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATENA, S.

Electrical Engineering Abstracts, v. 56, June 1953, Machines

2373. Direct measurement of the subtransient and transient direct-axis reactances of synchronous generators from short-circuit tests. S. Matena. Elektrotech Obzor, 41, No. 6, 265-271,(1952) in Czech.

This method consists essentially in connecting a known reactance to the terminals of the generator in parallel with a short-circuiting breaker. Oscillographs are taken during short-circuit tests on opening and closing this breaker and the transient and subtransient reactances calculated, on the basis of a simple formula, from the magnitudes of the impulse and steady-state currents. This method which also allows the measurement of the effect of various degrees of saturation on the reactances of the generator can be applied on the test-bed as well as during routine tests on installed machines. Oscillographs are shown and examples given.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATENA, S.

621.313.322-81

4042. Investigation and indication of double earth connection in the field winding of a turbo-alternator with a cylindrical rotor. S. MATENA AND J. VAVRIN. *Elektrotech. Obzor*, 43, No. 6, 301–10 (1954) in Czech.

A single earth connection is of no danger to a turbo-alternator for it is unable to create electromagnetic asymmetry in the rotor on its own. However, an additional earth connection will eliminate in the slots some of the rotor coils and give rise in the air gap to unbalanced electromagnetic conditions between two coils which will cause severe vibrations. The distorted field of the eliminated coils will depress the amplitudes of the basic and of some of the odd harmonics of the normal symmetrical field, whereas the even harmonics, particularly the second, will become notably pronounced. The field winding of a turbo-alternator, excited while leaving the stator in no-load condition, will with a double earth connection develop radial forces (similar to those which may occur in squirrel-cage rotors under the influence of two subsequent harmonics) as well as forces tangential to the surface of the cylindrical rotor. An eccentrically positioned rotor will further increase these unbalanced forces. Conditions in an alternator under load, with a field winding having two earth connections, do not differ from the previous examples substantially.

1/2

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S. MATĚJKA

This is caused by the undulating progress of magnetic flux which is a consequence of decreased flux above slots. [illegible] components

the outer surface of the stator, to feed an oscilloscope for the investigation. By positioning two auxiliary coils at a displacement of 180°, one could feed a signalling relay and the other could operate a protective relay for a cut-out system of the alternator.

J. C. STARK

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATENA, S.

MATENA, S. Direct measurement of the swing and slip motion of a synchronous machine p. 538.

Vol. 45, No.11, Nov. 1956
ELEKTROTECHNICKY OBZOR.
TECHNOLOGY
Praha, Czechoslovakia

So: East European Accessions, Vol. 6, No. 3, March 1957

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATEHA, Sh., doktor tekhn.nauk prof. (Chekhoslovatskaya Sotsialisticheskaya Respublika, Praga); GORAK, K., inzh.

Low-voltage net-type closed networks. Izv.vys.ucheb.zav.;energ. 3 no.10:17-25 O '60. (MIRA 13:11)

1. Predsatavlena kafedroy elektricheskikh sistem Moskovskogo ordena Lenina energeticheskogo instituta.
(Electric power distribution)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATENA, Stepan, prof., inz., dr., doktor technickych ved; KOUT, Ladislav, inz.

Construction of the first 380/220 V network system in Prague and starting its operation. El tech obzor 51 no.4:145-151 Ap '62.

1. Ceske vysoke uceni technicke (for Matena). 2. RPR (for Kout)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATENA, S., prof., inz. dr., doktor technickych ved

The 19th Meeting of the International Conference on Large Electric Systems in Paris, May 16-26, 1962. El tech obzor 52 no.6:303-306 Je '63.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

ACCESSION NR: AP5016641 CZ/0017/64/053/010/0539/0547

AUTHOR: Matena, S. (Professor, Engineer, Doctor of sciences)

TITLE: Faulty asynchronous run of turboalternators

SOURCE: Elektrotechnicky obzor, v. 53, no. 10, 1964, 539-547

TOPIC TAGS: electric power engineering, electric equipment

ABSTRACT: Presented is a theoretical and practical analysis of faulty asynchronous runs of alternators with cylindrical rotors. After investigating the reasons the author proves that the electric stress of the hoop surfaces as contacts may dangerously affect the mechanical strength of the hoop with possibly disastrous consequences. Three failures in Czechoslovak thermal electric power plants are described. Theoretical conclusions are supported by practical examples. Orig. art. has: 12 figures, 4 graphs, 8 formulas.

ASSOCIATION: CVUT

SUBMITTED: 17Jun64 ENCL: 00 SUB CODE: EE

NO REF SOV: 000 OTHER: 004 JPRS

Card 1/1

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

L 38765-66

ACC NR: AP6029706 SOURCE CODE: CZ/0017/65/054/006/0270/0278

AUTHOR: Matena, Stepan (Professor; Engineer; Doctor; Doctor of sciences)

ORG: none

TITLE: Transient effect in a DC shunt machine

SOURCE: Elektrotechnicky obzor, v. 54, no. 6, 1965, 270-278

TOPIC TAGS: direct current, electric shunt, magnet

ABSTRACT: The paper deals with the transient effect of the current in both windings of a DC shunt machine as the principal element of voltage control of a synchronous alternator. The investigation is undertaken on the simplifying assumption of a rectilinear shape of the magnetizing characteristic. Since both fundamental equations involve terms containing both currents only, the final stablized distribution of the currents in the windings of the armature and the magnets is ascertained by the iteration method with exact results for both basic changes of the resistance in the circuits of the windings of the armatures and magnets. Orig. art. has: 8 figures and 50 formulas. [Based on author's Eng. abst.] [JPRS: 36,482]

SUB CODE: 09 / SUBM DATE: 20Jan65 / ORIG REF: 004

Card 1/1 UDC: 621.313.223.001

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATENA, V.

Hysteresis of the demagnetization factor of cylindrical rods. p. 401

Vol. 5, no. 4, July 1955
CESKOSLOVENSKY CASOPIS PRO FYSIKU
Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATENA, V.

The study of amelogenesis in the rat incisor. Cesk. stomat. 65 no.3:190-197 My'65.

1. Vyzkumny ustav stomatologicky v Praze (reditel: prof. dr. J. Kostlan).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

NOVAK, Josef, dr., akademik, prof.; PONCOVA, Vera, MUDr; MATENA, Vladimir, MUDr, Praha

Contribution to the form of indexes of dental caries. Cesk. stomat. no.3:86-96 June 54.

(DENTAL CARIES
index, improvement proposals)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

FRANZ, Stanislav; HODER, Josef; IPSER, Josef; MATENA, Vladimir; POCH, Robert

Medical apparatus and appliance. Cas. lek. cesk. 97 no.23-24:759-761 6 June 58.

1. Gyn. por. odd. Thomayerovy nemocnice v Praze-Krci, prednosta prim. dr. S. Franz, I. chir. klinika KU, prednosta akademik A. Jirasek, Vyzkumny ustav balneologicky, reditel prof. dr. K. Prerovsky, Vyzkumny ustav stomatologicky, reditel doc. dr. J. Kostlan, internu klinika hyg. fakulty, prednosta prof. dr. V. Jonas. St. F., Praha 12, Srobarova 23.
(APPARATUS,
prod. in Czech. (Cz))

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATENA, V.

Study of dentinogenesis in the incisor of the rat. Cesk. stomat. 66 no.1:48-58 Ja '66.

1. Vyzkumny ustav stomatologicky v Praze (reditel prof. dr. J. Kostlan).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

1. M. D. MATENIN

2. USSR (600)

4. Bee Culture

7. My experience in controlling swarming. Pchelovodstvo 30 no. 1. 1953.

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

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

KOTKOWSKI, Stefan; MATENKO, Juliusz; WOJEWSKI, Alfons

Analytical methods and solubility of urinary calculi. Roczn. pom. akad. med. Swierczewski. 8:141-152 '62.

1. Z Zakladu Chemii Ogolnej Pomorskiej Akademii Medycznej Kierownik: doc. dr S. Kotkowski i z Kliniki Urologicznej Pomorskiej Akademii Medycznej Kierownik: doc. dr A. Wojewski.
(URINARY CALCULI) (SOLVENTS)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

KOTKOWSKI, Stefan; MATENKO, Juliusz

Kinetics of peroxide oxidation of indigo carmine with pertungstenic acid. Prace matem przyrod Poznan 10 no.2:51-63 '62.

1. Institute of General Chemistry, Medical Academy, Szczecin.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

YATSINA, Ya. [Jacina, J.]; TISHLER, V. [Tisler, V.]; GOMBOSH, A. [Gomb[illegible]]; MATEOVA, Ye. [Mateova, E.]

Glucose, lactate, and pyruvate metabolism in the kidneys of dogs in vivo. Fiziol.zhur. 51 no.11:1356-1362 N '65. (MIRA 18[illegible])

1. Kafedra okhrany rebenka i kafedra normal'[illegible] [illegible] anatomii Meditsinskogo fakul'ta [illegible] Universitet [illegible]. Shafarika, g. Kosnitse, Chekhoslovakhya.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATER, V.

Device for curing freshly laid concrete. Avt.dor. 25 no.8:26 Ag '62. (MIRA 16:2)

(Pavements, Concrete)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CA

17

Volumetric determination of nicotine as picrate. N. S. Drozdov and N. P. Matsyanskaya. *Zhur. Anal. Khim.* 2, 17-20(1947).—Nicotine is pptd. as picrate and the excess picric acid is titrated with methylene blue soln. Steam-distill nicotine from the plant material. Neutralize to methyl red with 0.1 *N* acid, transfer to a 500-ml volumetric flask and make to vol. Mix 50 ml. of soln with an equal vol. of 0.01 *N* picric acid or a smaller vol. of 0.05 *N* and keep for 1-2 hrs. at 0°. Filter through a fritted-glass filter, wash with 0.5 ml. of ice water. Dil filtrate to 200-500 ml., transfer 10-50 ml. into a separatory funnel, add 100-150 ml. of H_2O and ½, by vol. of $C_2H_4Cl_2$ or $CHCl_3$, and titrate with 0.001 *N* methylene blue soln with shaking the soln. after each addn. Add more org solvent if needed. At the end point the aq. layer is blue.

M. Hosch

COMMON ELEMENTS

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERANSKAYA, N. P.

C . Che . Sc .

"Investigation of the Initial Phases of the Process of Oxidized Spoiling of Edible Fat." Sub 13 Dec 51, Moscow Chemicotechnological Inst of the Meat Industry.

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

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

Colorimetric determination of epihydrin aldehyde. N Droadov and N. Materanskaya. Myasnaya Ind. S.S.S.R 22, No. 2, 30-2(1951). - Method. To 1 ml. of sample in 2 ml. of ether, add 1 ml. of 12 N HCl and 2 ml. of 0.1% phloroglucinol in ether, shake, and heat in a boiling water bath for 1 min., then match the color of the aq. layer with a standard color scale. The standard colors are prepd. from a soln. of 0.1% acid fuchsin in H_2O and contg. 0.5 ml. 20% H_2SO_4 per l. One tenth to 0.0 ml. portions of this soln. are made to 50 ml. to serve as the color scale. M. M. Piskur

1951

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

Chem A

27

Rapid method for determination of the iodine number
S. Dvozlov and S. Materanskaya. *Myasnaya Ind. S.S.S.R.* 22, No. 4, 31-2(1951). - The procedure is like that of Rosenmund and Kuhnhenn (C.A. 18, 477) except that a smaller sample (0.1-0.2 g.) of fat is used and reaction time is only 2 min.
M. M. Piskur

1951

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

BA

C-2

3600. Colorimetric determination of epihydrin aldehyde formed during the oxidation of fats. N. S. Drozdov and N. P. Materanskaya (J. anal. Chem., USSR, 1952, 7, 74—77).—The influence of various factors on the colorimetric determination of epihydrin aldehyde based on Kreis's reaction (red coloration with phloroglucinol) is studied. To determine the aldehyde in fats and fatty acids, 1 g. is dissolved in 2 ml. of ether in a stoppered graduated tube, treated with 1 ml. of conc. HCl and, after shaking, with 6 ml. of 0·1% phloroglucinol in ether, and then heated on a boiling water-bath for exactly 1 min. The colour of the water layer is then compared with a series of standards prepared from 0·1% fuchsin in water containing 0·3 ml. of 20% H_2SO_4 per litre. The colour obtained by diluting 0·05 ml. to 50 ml. with acidified water matches that obtained in the reaction with 0·015 mg. of epihydrin aldehyde in 1 ml. and each additional 0·1 ml. of fuchsin solution corresponds to an additional 0·150 mg. of the aldehyde. With Lovibond units (red units —0·60) give 100 × % of epihydrin aldehyde. The method is unsuitable for highly coloured fats. G. S. Smith.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

CA

27

Determination of the carbonyl compounds of fat. N. S. Drozdov and N. P. Materanskaya. *Myasnaya Ind. S.S.S.R.* 23, No. 3, 73-5(1952).—The NH_2OH reaction with a carbonyl group (I) was applied to measurement of changes in fat during storage. I-free alc. was prepd. by refluxing 1000 ml. of 95% alc. with caustic and distg., discarding the first 50 ml. of distillate, and allowing 50 ml. to remain as still residue. A 0.2 *N* soln. of NH_2OH was prepd. by mixing, in order, $NH_2OH.HCl$ 2 g., distd. H_2O 40 ml., I-free alc. 400 ml., and 0.5 *N* KOH 300 ml. and filtering off the crystals of KCl ppted. To det., heat 0.4-1.0 g. of fat or fatty acid sample with 25 ml. of NH_2OH reagent 30 min. on a steam bath, cool to room temp., and titrate with 0.1 *N* HCl soln. A blank detn. is run simultaneously. The results are reported in % of I oxygens per 100 g. of sample: I oxygen % = $[(A - B)(0.1)(0.16)100]$/sample wt., where *A* and *B* are blank and sample titrations, resp. When run on acids or acid samples the detn. must be corrected for the amt. of acidity in the original. M. M. Pakur

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

DROZDOV, N.S.; MATERANDSKAYA, N.P.

Oxidative spoilage of fat. Myasnaya Ind. S.S.S.R. 24, No.2, 69-72 '53. (MLRA 6:4)
(CA 47 no.15:7795 '53)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERANSKAYA, N. P.

Chem Abs v48
1-25-54
Foods

Oxidation changes in lard in the process of production. N. S. Drozdov, N. P. Materanskaya, and N. Trofimova (Moscow Chem.-Technol. Inst. Meat Ind.). *Myasnaya Ind. S.S.S.R.* 24, No. 4, 82-5(1953).—This is principally a review and discussion of past work. The course of the acid no., peroxide no., and epihydrinaldehyde, and oxy-acid contents of 2 lards during production are graphically presented. M. M. Piskur

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERANSKAYA, N. P.

USSR. 1945. Determination of the fatty-acid composition of lard triglycerides. N. S. Drozdov and N. P. Materanskaya (Tr. Mosk. Tekhnol. In-ta Myasnoi i Moloch. Promosti, 1954, [2], 33-38; Referativnyi Zh., Khim., 1954, Abstr. No. 40,062).—Kaufmann's method of calculating the content of saturated acids, oleic and other olefinic acids, linoleic and other highly unsaturated acids in triglycerides is shown to be applicable to lard. It is as accurate as other methods of fat analysis. E. HAYES

1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERANSKAYA, N.R.

Oxidation changes of lard with various methods of its production. [illegible] N. P. Materanskaya *Myasn* [illegible] 1954; cf. *C.A.* 48, 901e.—The deterioration change occurring in lards processed (rendered) by the horizontal vacuum autoclave method was compared with those of lards rendered by the Anufrieva centrifuge machine (cf. Loberman, *C.A.* 48, 4859b). The max. temp. attained in both methods was 80°. Free fatty acids, epihydrin aldehyde, peroxide value, I no., and epoxide development are graphically presented. Min. hydrolysis of the fat occurs with centrifuge rendering.

M. M. Piskur

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERANSKAYA, N.P.

MATERANSKAYA, N. P. 3

Determination of oxygenated acids in fat. N. S. Drozdov and N. P. Materanskaya. *Myasnaya Ind. S.S.S.R.* 25, No. 3, [illegible]. The method is based on the reaction

$$.CH.CH. + HCl(dry) \rightleftharpoons .CH(OH).CH(Cl).$$

A 0.2*N* HCl soln. in ether is made by drying ether with $CaCl_2$ and then with Na, and adding dry HCl. Weigh 0.4–0.8-g. sample of fatty acids or 0.8–1.0-g. sample of fat in a 250-ml. flask, add 5 ml. abs. ether and 15 ml. 0.2*N* HCl soln. in abs. ether, let stand 3 hrs. at room temp., add 25 ml. neutral 96% alc. and 0.5 ml. phenolphthalein indicator soln., and titrate residual HCl with 0.1*N* aq. soln. of NaOH. Run a blank. Oxygenated acids in % = $(B - (A - D) \times 0.1 \times 0.016 \times 100)$/wt. of sample, wherein *A* is ml. of 0.1*N* NaOH used in titrating test material, *B* is ml. 0.1*N* NaOH used for the blank test, and *D* is the ml. 0.1*N* required to neutralize the acidity of the original sample.

M. M. Piskur

1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERANSKAYA N.P.

Oxidative changes in fats during continuous processing. N. S. Drozdov and N. P. Materanskaya. *Myasnaya Ind. S.S.S.R.* 26, No. 5, [illegible] *C.A.* 49, 8441d.—Effect of the rendering, drying, centrifuging, and solidifying stages in a continuous rendering system on the development of fatty acidity and peroxide value of lard was investigated. The temps. in the above-named stages were, resp.: 110, 100, 90°, and cooler temp. Stability was most adversely affected by the duration of the drying stage. The drying stage should be limited to min. duration. M. M. P.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERANSKAYA, N

Oxygen-free processing of pork fat. N. Materanskaya. *Myasnaya Ind. S.S.S.R.* 28, No. 1, 48-51(1957); cf. *C.A.* 50, 2991h.—Rendering pork fat in a CO_2 atm. instead of in air yielded a product entirely free of oxidation, comparable to the fat processed in a N atm. O-free pork fat obtained in a CO_2 atm. can be stored for a long period of time (for 20 days and 8 months at 40 and 18°, resp.) without forming peroxides or carbonyls or changing its I no. The following lab. expt. substantiates the results obtained under industrial conditions. Pork fat was rendered at 80-90° in CO_2, N, and air atms. and then stored in sealed containers correspondingly under CO_2 (I), N (II), and air (III); the control fat was also stored under N gas (IV). After 20-day storage at 40-50°, these fat samples showed following chem. characteristics (in the order I, II, III, and IV): peroxide no., 0, 0, 0.48, and 0.36 mg. O/g.; epoxy groups, 0, 0, 4.4, and 2.8 mg. O/g.; I no., 40.8, 40.8, 38.0, and 39.0 (original I no. of the fat 40.8); acid no., 0.6, 0.6, 0.8, and 0.8; and the color reaction with neutral red, yellow, yellow (no rancid taste of the fat), pinkish red (rancid), and pink. By processing pork fat in CO_2 atm., refrigerating of the fat can be entirely eliminated. E. Wierbicki

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

AUTHORS: Drozdov, N. S., Materanskaya, N. P. SOV/156-58-3-3[illegible]/32

TITLE: The Absorption of Oxygen in the Initial Stage of the Auto-Oxidation of Oleic Acid (Poglosheheniye kisloroda v nachal'nykh stadiyakh avtookisleniya oleinovoy kisloty)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya tekhnologiya, 1958, Nr 3, pp. 536 - 539 (USSR)

ABSTRACT: The absorption of oxygen in the auto-oxidation of oleic acid and the entire course of the oxidation process were investigated. An apparatus for the determination of the absorption of oxygen at a corresponding constant concentration of oxygen in the gaseous phase was used in all experiments on auto-oxidation. The absorption of oxygen by oleic acid takes place very violently even at 15 - 20°C and in the dark after 10 - 20 minutes. Above 20°C the primary oxygen absorption is not related to a change of the composition of oleic acid. The curves of the oxygen absorbing power of oleic acid at 20,30,40 and 60°C were plotted. With an increase in temperature an increase of the oxygen absorption occurs and the character of the absorption curves changes. These results point to a different intensity and type

Card 1/2

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The Absorption of Oxygen in the Initial Stage of the Auto-Oxidation of Oleic Acid SOV/156-58-3-37/32

of single reactions in the initial stage of the auto-oxidation at various temperatures. There are 2 figures and 6 references, 1 of which is Soviet.

ASSOCIATION: Kafedra organicheskoy khimii 2-go Moskovskogo gosudarstvennogo meditsinskogo instituta (Chair of Organic Chemistry at the Moscow State Medical Institute II)

SUBMITTED: November 30, 1957

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

5(3) SOV/63-4-1-24/31

AUTHORS: Drozdov, N.S., Materanskaya, N.P.

TITLE: On the Nature of Active Oxygen Determined Iodometrically in the Products of Self-Oxidation of Fatty Acids and Fats (O prirode aktivnogo kisloroda, opredelyayemogo iodometricheski v produktakh avtookisleniya zhirnykh kislot i zhirov)

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 1, pp 133-134 (USSR)

ABSTRACT: The iodometric determination of active oxygen in the products of self-oxidation shows higher values on adding mineral acids than in a medium of acetic acid. The accumulation of active oxygen in the presence of mineral acids proceeds simultaneously with the accumulation of epoxy-compounds. The iodometric method used in the presence of mineral acids determines not only the oxygen in the peroxides, but also a part of the epoxide oxygen. There is 1 graph and 6 references, 4 of which are Soviet, 1 English and 1 German.

Card 1/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

SOV/63-4-1-24/31

On the Nature of Active Oxygen Determined Iodometrically in the Products of Self-Oxidation of Fatty Acids and Fats

ASSOCIATION: Kafedra organicheskoy khimii 2-go Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova (Chair of Organic Chemistry of the Second Moscow State Medical Institute imeni N.I. Pirogov)

SUBMITTED: July 8, 1958

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

[illegible], [illegible]; [illegible], [illegible]P.

[illegible] of auto[illegible] products giving the [illegible] re[illegible]ction. Zhur. VKHO 5 no. [illegible]:355-35[illegible] [illegible]. ([illegible] 14:2)

1. 2-oy Moskovskiy gosudarstvennyy [illegible]tsinskiy inst[illegible]tut [illegible] [illegible].I. Pirogova.
(Oxidation) (Drozdov, [illegible].S.) ([illegible]teransk[illegible], [illegible])

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

DROZDOV, N.S.; MATERANSKAYA, N.P.

Relation between the unsaturation and autoxidation rate of mixtures of tirglycerides of natural fats. Dokl. AN SSSR 137 no.3:603-605 Mr '61. (MIRA 14:2)

1. Vtoroy meditsinskiy institut im.N.I.Pirogova. Predstavleno akademikom B.A.Kazanskim.
(Glycerides) (Lard)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

KOTANIA, Wladyslaw; MATERIK, Hubert

Ophthalmological studies in acromegaly. Klin. oczna 35 no.1: 55-61 '65.

1. Z Kliniki Chorob Oczu (Kierownik: prof. dr. med. M.Madroszkiewicz) i z Kliniki Chorob Wewnetrznych w Katowicach Slaskiej Akademii Medycznej w Zabrzu (Kierownik: prof. dr. med. J. Japa).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

ORECHKIN, L.M.; MATERIKIN, Yu.V.

Reducing the moisture content of the tap hole plug ball in blast furnaces. Metallurg 7 no.7:12-13 Jl '62. (MIRA 15:7)

1. Vsesoyuznyy institut ogneuporov.
(Blast furnaces--Equipment and supplies)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATRIKINA, Ye.I., agronom.

Supplementary pollination of buckwheat. Zemledelie 4 no.5:127 My '56. (MLRA 9:8)

(Buckwheat) (Bees)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERIKINA, Ye., agronom.

Controlling weeds in millet fields. Zemledelie 4 no.7:109-110 Jl '56. (Millet) (Weed control) (MLRA 9:9)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERIKOV, M.P.

Stalinsk tin and polymetallic deposits. Sov.geol. no.26: 42-59 '47. (MLRA 8:8)
(Stalinsk (Khabarovsk Territory)--Tin ores)
(Stalinsk (Khabarovsk Territory)--Ore deposits)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERIKOV, M.P.

Occurrence of cassiterite in the region of the Sikhote-Alin' Range. sov.geol. no.26110-114 '47. (MLRA 8:8)
(Sikhote-Alin' Range--Cassiterite)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERIKOV, M.P.; PAVLOVSKIY, A.B.

Magmatic sources of mineralization and the relative depth of deposits of cassiterite-quartz and cassiterite-sulfide formations. Sov.geol. 2 no.9:86-93 S '59. (MIRA 13:2)

1. Vsesoyuznyy institut mineral'nogo syr'ya (VIMS).
(Ore deposits)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

BETEKHTIN, A.G.; VOL'FSON, F.I.; GENKIN, A.D.; DUBROVSKIY, V.N.; YEROFEYEV, B.N.; KONSTANTINOV, R.M.; MATERIKOV, M.P.; SOKOLOV, G.A.; STRAKHOV, N.M.; TATARINOV, P.M.; TOMSON, I.N.; SHADLUN, T.N.; SHATALOV, Ye.T.; SHIPULIN, F.K.

Oleg Dmitrievich Levitskii; obituary. Geol. rud. mestorozh. no.2: 3-6 Mr-Ap '61. (MIRA 14:5)
(Levitskii, Oleg Dmitrievich, 1909-1961)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

S/081/62/000/008/016/057
B166/B101

AUTHOR: Materikov, M. P.

TITLE: A new genetic type of industrial fluorite deposits

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 8, 1962, 103, abstract 8G61 (Sb. "Mineral'n. syr'ye". M., no. 2, 1961, 37-46)

TEXT: The new deposits occur in Lower Paleozoic carbonaceous heavily-dislocated strata faulted with granite massifs. The largest accumulations of fluorite are located at the contacts with the apical parts of the intrusions. The granites are greisenized and intersected by streaks of various composition, including fluorite streaks with various quantities of micaceous minerals. They also occur in regions of scarning. The main elements in the ores are F, Ca, Si, Al, Mg, Fe, K, Na; the secondary elements are Mn, Sr, Pb, Zn, Sn, Ti, B, Cu, S; impurities are V, Ga, Bi, In, As, Ag, Mo, Sb, Be, Ni, Cr, P, Ba, Co, Ge, W, Y, Yb, Tb, Th, Ce, Sc, Zr, Cd, Nb, Ta. The most important features of the micaceous fluorite type deposits are: (1) their appearance in combination with deposits of Sn and rare metals in the region of the development of carbonaceous strata broken

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B166/B101

A new genetic type of...

through by granites and enriched with F; (2) the association of micaceous fluorite ores, bedded in limestones in the roof of the intrusions, with quartz-topaz greisens in the granite, and with scarns formed in the initial stage of postmagmatic mineralization; (3) the high initial temperature and moderate depth of deposition of the ores; (4) the predominantly substitution deposition of the ores, with wide development of gels at the ore-formation site. [Abstracter's note: Complete translation.]

Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

ABDULLAYEV, Kh.M.; ALYAVDIN, V.F.; AMIRASLANOV, A.A.; ANIKEYEV, N.P.; ARAPOV, Yu.A.; BARSANOV, G.P.; BELYAYEVSKIY, N.A.; BOKIY, G.P.; BORODAYEVSKAYA, M.B.; GOVOROV, I.N.; GODLEVSKIY, M.N.; SHCHEGLOV, A.D.; SHAKHOV, F.N.; SHILO, N.A.; YARMOLYUK, V.A.; DRABKIN, I.Ye.; YEROFEYEV, B.N.; YERSHOV, A.D.; IVANKIN, P.F.; ITSIKSON, M.I.; KARPOVA, Ye.D.; KASHIN, S.A.; KASHKAY, M.A.; KORZHINSKIY, D.S.; KOSOV, B.M.; KOTLYAR, V.N.; KREYTER, V.M.; KUZNETSOV, V.A.; LUGOV, S.F.; MAGAK'YAN, I.G.; MATERIKOV, M.P.; OBRUCHEV, M.M.; PAVLOV, Ye.S.; SATPAYEV, K.I.; SMIRNOV, V.I.; SOBOLEV, V.S.; SOKOLOV, G.A.; STRAKHOV, N.M.; TATARINOV, I.M.; KHRUSHCHOV, N.A.; TSAREGRADSKIY, V.A.; CHUKHROV, F.V.

In memory of Oleg Dmitrievich Levitskii; obituary. Sov.geol. 4 no.5:156-158 My '61. (MIRA 14:6)
(Levitskii, Oleg Dmitrievich, 1909-1961)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERIKOV, M.P.

Characteristics of tin deposits in carbonate-bearing regions. Sov.geol. 4 no.9:96-107 S '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Tin ores)
(Rocks, Carbonate)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERIKOV, M.P.

Genetic groups and formations of tin ore deposits. Sov. geol. 7 no.11:36-47 N '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

TOLOK, A.A.; ZALITSKAYA, [illegible]; MATERIKOVA, A.M.

[illegible] Maritime Territory. [illegible]

1. Dal'nevostochnyy geologicheskiy institut Dal'nevostochnogo filiala Sibirskogo otdeleniya AN SSSR.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

L 7748-66 EWT(d)/EWT(1)/EPA(s)-2/T IJP(c) GG

ACC NR: AP5025894 SOURCE CODE: UR/0057/65/035/010/1817/1824

AUTHOR: Vasil'yev, Ye.N.; Materikova, L.B.

ORG: Moscow Power Engineering Institute (Moskovskiy energeticheskiy institut)

TITLE: Excitation of a dielectric body of revolution

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 10, 1965, 1817-1824

TOPIC TAGS: mathematic method, integral equation, Fredholm equation, induced current, dielectric property, dielectric waveguide, axisymmetric body

ABSTRACT: The integral equations given by C.Müller (Mathematischen Annalen, 123, 345, 1951) for the equivalent electric and magnetic surface currents induced on a dielectric body by an external alternating field are simplified for the case where the dielectric body is axially symmetric, and a technique for solving them numerically is presented. The simplification is accomplished by expanding all relevant quantities in Fourier series in the azimuth; there results a set of integral equations for the different Fourier components of the equivalent surface currents. The Fourier components of the Green's function are expressed as series of Hankel functions and as series of hypergeometric functions; these series are suitable for numerical computation in different ranges of the argument (the distance between the observation and integration points). Results of numerical calculations of the equivalent currents in-

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ACC NR: AP5025894

induced on the surfaces of a dielectric sphere and a dielectric cylinder with plane ends by an oscillating dipole located on and directed along the symmetry axis are presented graphically and discussed as examples. The spherical problem was also solved analytically, and good agreement is shown between the analytic and numerical solutions. With the aid of the described mathematical technique it is possible to compute the induced equivalent current distribution on the surface of any dielectric body with axial symmetry. Orig. art. has: 34 formulas and 4 figures.

SUB CODE: EM, EC/ SUBM DATE: 21Jan65/ ORIG REF: 007/ OTH REF: 002

Card 2/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERIKOVA, R. B.

8

Some reactions of fenchone with organomagnesium and lithium compounds. A. N. Nesmeyanov, V. A. Sazonova, and R. B. Materikova (M. V. Lomonosov State Univ., Moscow). Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk 1955, 988-92; cf. C.A. 37, 2724f.—Treatment of 53.3 ml. filtered soln. of PhMgBr (0.3395 g./ml.) with 15.2 g. fenchone gave 1.2 g. ppt. which, washed with Et_2O and dried under N, contained 40.68% Br and 8.8% Mg; thus the complex is $MgBr_2.MgBrOH.2C_{10}H_{16}O.Et_2O$ (I) (cf. Leroide, C.A. 3, 2075). It liquefies on exposure to air, yields Et_2O and fenchone with aq. NH_4Cl, and with molten Ph_2CO gives fenchone and no Ph_2COH; similar treatment with Bz_2 gave fenchone and benzilic acid. Slow passage of CO_2-free air over the surface of PhMgBr soln. (from 6 g. Mg and 30 g. PhBr in Et_2O) gave in 2 days 8.4 g. cryst. $MgBr_2.MgBrOH.2Et_2O$, which loses Et_2O in contact with H_2O. This complex (8.55 g.) shaken 30 hrs. with 11.4 g. fenchone in Et_2O gave I. PhLi (from 5 g. Li and 50 g. PhBr) in Et_2O stirred 0.5 hr. with 10 g. fenchone and treated with H_2O yielded 70% phenylfenchyl alc., b_{14} 167-8°. Similarly, p-MeC_6H_4Li gave 69% p-tolylfenchyl alc., b_{15} 177°, m. 47-52°.

G. M. Kosolapoff

Chem

3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

NESMEYANOV, A.N.; KRUGLOVA, N.V.; MATERIKOVA, R.B.; TOLSTAYA, T.P.

Diarylbromonium and diarylchloronium salts. Zhur. ob. khim. 26 no.8: 2211-2218 Ag '56. (MLRA 10:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Moskovskiy gosudarstvennyy universitet.
(Halogen compounds)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

Materikova, R.B.

7 7 6

Diarylbromonium and diarylchloronium salts. A. N. Nesmeyanov, N. V. Kruglova, R. B. Materikova, and T. P. Tolstaya. *J. Gen. Chem. U.S.S.R.* 26, 2473-8(1950)(English translation).—See *C.A.* 51, 4074e. B. M. R.

1/1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

28738
S/026/61/000/011/004/004
D038/D113

5 3700

AUTHORS: Kochetkova, N.S., Materikova, R.B., and Slinkin, A.A.

TITLE: Ferrocene

PERIODICAL: Priroda, no. 11, 1961, 98-100

TEXT: This article deals with the structure and application of various aromatic compounds, particularly ferrocene. Scientists from many countries, including A.N. Nesmeyanov of the USSR, are mentioned in connection with the development of ferrocene - a diamagnetic organometallic compound with a dipole moment equal to 0. X-ray analyses have shown that, in the ferrocene molecule, the iron atom is in the mean position between the cyclopentadienyl radicals lying in parallel planes, the carbon atoms of the upper ring being located above the gaps between the carbon atoms of the lower ring. Two horizontal five-membered rings with alligned CC and CH bonds rotate in parallel planes around the central iron atom, which is similarly connected with all ten carbon atoms. Nickelcene, cobaltocene and other similar compounds are likewise constructed. In the last few years, a sufficiently accurate idea of the electronic structure of these compounds was originated. In investigating the chemical properties of ferrocene, it can be readily seen that, in many reactions, the metal does not expose itself in the molecule and the reaction passes along the

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D038/D112

Ferrocene

molecule's organic part. Like benzene, ferrocene is capable of substitution reactions of its own hydrogen atoms. Not all the metallocenes are as resistant to oxidation as ferrocene; nickelcene, cobaltocene and other "cenes" are resistant only in the form of cations which do not induce reactions characteristic of aromatic compounds, whilst in the form of neutral compounds they exist only in very pure nitrogen and are very sensitive to oxidation. Cyclopentadienyl rings can be connected with the central atom of the metal not only covalently with the formation of multicentric orbits, but also with the ion bond. Dicyclopentadienylmanganese is so constructed. Many so-called compound metallocenes are now known, which have only one cyclopentadienyl radical in the molecule, the second ring being composed of CO, NO groups, etc, containing π-electrons. Similar to metallocenes are a class of "areny", where the central atom of the metal is connected with two benzene rings, parallel to one another - for example, dibenzolchrome. Discussing the various applications of ferrocene and other metallocenes, the author states that these compounds are still in too early a stage of development to talk of their wide application; however, "cenes" and other substances are used as antidetonators. Several are antiburn substances - in their presence metals are more resistant to the effect of fire and high temperatures. Ferrocene is used in the redox polymerization of styrol, whilst a similar titanium compound is the component part of a catalyzer for obtaining polythene. Soluble ferrocene derivatives can be used for pharmaceutical pur-

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D038/D113

Ferrocene

poses. Data have been collected on heat-resistant ferrocene derivatives containing both iron and silicon atoms in their molecules The chemistry of benzene, naphtalene, anthracine and other aromatic systems is being developed for similar purposes In the very near future, new aromatic systems will come into being; the differences in their properties will depend not only on the difference in the substitution products but also in the central atoms of the metals which constitute the heart of the molecule. There are 6 figures

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR /Moskva/ (Institute of Elemental Organic Compounds of the AS USSR/Moscow/)

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

20359
S/020/61/136/005/017/032
B103/B208

5.3700 2209, 1273, 1164

AUTHORS: Nesmeyanov, A. N., Academician, Kochetkova, N. S., and Materikova, R. B.

TITLE: Acetyl derivatives of pentaethane diferrocene

PERIODICAL: Doklady Akademii nauk SSSR, v. 136, no. 5, 1961, 1096-1098

TEXT: The authors correct the composition of the substance previously termed "diferrocenyl ethane" by them (Ref. 1) (melting point 135°C). Actually, this is a mixture of isomers: diferrocenyl ethane-1,1 (melting point 147-149°C), and diferrocenyl ethane-1,2 (melting point 192-192.5°C, small quantity). This mixture was obtained by reacting ferrocene with 1,2-dichloro ethane in the presence of anhydrous $AlCl_3$ (in addition to pentaethane diferrocene, PEDF). The authors were able to isolate the isomers by a modified treatment of the reaction products, i.e., after chromatographic purification on aluminum oxide in benzene - n-heptane mixture (1:1). Diferrocenyl ethane-1,2 is identical with that obtained by A. N. Nesmeyanov and I. I. Kritskaya (Refs. 4, 5), and

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

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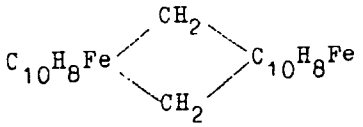
S/020/61/136/005/017/032
B103/B208

Acetyl derivatives of pentaethane ...

A. N. Nesmeyanov, E. G. Perevalova, and Yu. T. Ustynyuk (Ref. 6). The authors further correct the confusion (Refs. 4,5,9,10) of the condensation product of formaldehyde with ferrocene with a substance of the structure



(see Ref. 11). Actually, this condensation product was 1,2-diferrocenyl ethane. The authors acylated PEDF (Ref. 2) with acetic anhydride in the presence of 85% phosphoric acid, and obtained monoacetyl PEDF. This is a yellow powder, well soluble in alcohol, acetone, and benzene, slightly soluble in water and ether. Acylation by acetyl chloride in the presence of anhydrous aluminum chloride in methylene chloride (as the solvent) gave diacetyl PEDF and several polyacetyl PEDF. The former is an orange-yellow powder, and was recrystallized from n-heptane. The authors found that these acylation results confirm the structure of PEDF previously assumed by them. N. A. Chumayevskiy studied the infrared spectra of the afore-mentioned acetyl derivatives. They disclosed a carbonyl group, and a free

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

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S/020/61/136/005/017/032
B103/B208

Acetyl derivatives of pentaethane ...

ferrocene ring in monoacetyl PEDF. Diacetyl PEDF also contains the carbonyl group, but its two acetyl groups belong to two different rings of PEDF. The presence of two non-substituted rings in PEDF is thus thought to be confirmed. Both PEDF and its acetyl derivatives are amorphous, and have no distinct melting point. On heating, they gradually darken, and soften at 100°C. The heating curve taken with Kurnakov's ПК-55 (PK-55) pyrometer up to 200°C reveals neither exothermal nor endothermal effects. V. M. Kozhin and Ye. I. Yarembash are thanked for thermographic measurements. Yu. Yu. Samitov determined the spectra of nuclear magnetic resonance, which indicate an absence of methyl groups in PEDF. There are 1 figure, 1 table, and 11 references: 6 Soviet-bloc and 5 non-Soviet-bloc.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds, Academy of Sciences, USSR)

SUBMITTED: November 9, 1960

Card 3/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

23854
S/020/61/137/006/013/020
B103/B217

15 8114 2205
24.3600 (1035,1138,1482)

AUTHORS: Nesmeyanov, A. N., Academician, Korshak, V. V., Corresponding Member AS USSR, Voyevodskiy, V. V., Corresponding Member AS USSR, Kochetkova, N. S., Sosin, S. L., Materikova, R. B., Bolotnikova, T. N., Chibrikin, V. M., and Nazhin, N. M.

TITLE: Synthesis and some optical-magnetic properties of polyferrocenes

PERIODICAL: Doklady Akademii nauk SSSR, v. 137, no. 6, 1961, 1370-1373

TEXT: The authors studied the magnetic properties of ferrocene derivatives: 1) of the polyferrocenylenes (Table 1, nos. 1-6), 2) the polydiisopropylferrocene (Table 1, nos. 7-8), 3) the polymethano- and 4) the polyethanopolyferrocenes (Table 1, nos. 9-13). They were synthetized by: A) Polyrecombination. To 1) and 2). 1 mole ferrocene (or of its diisopropyl homolog) was treated with 1 mole tertiary butyl peroxide in nitrogen atmosphere at 200°C. 1) and 2) are assumed to be formed as follows: the Butoxyl and methyl radicals formed during peroxide decomposition separate the hydrogen from ferrocene (or the α-hydrogen). The radicals thus formed

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B103/B217

Synthesis and some ...

recombine and form linear 1) or 2), easily soluble in benzene. An insoluble polymer (Table 1, nos. 5-6) with a two- or tridimensional network structure is formed simultaneously. The conversion of ferrocene to high-molecular products amounted to 25%. Nos. 1-3 have a softening temperature of 290-300°C and are a dark-red powder, whereas nos. 5-6 had their softening temperature at about 400°C and were light-yellow. B) Polyalkylenation of ferrocene by methylene chloride and 1,2-dichloroethane in the presence of anhydrous aluminum chloride. Aluminum chloride solution in 50 ml of dihalogen alkane was added gradually to 40 g ferrocene dissolved in 250 ml dry dihalogen alkane. The mixture was stirred for 6 hr at the boiling temperature of the solvent. The next day, 10 g aluminum chloride in 25 ml dihalogen alkane were added and treated for 6 hr as above. The mixture was decomposed by ice and HCl and treated with sodium sulfite. The obtained 3) and 4) were well soluble in benzene, differed, however, by their solubility in ether. Table 1 shows the molecular weights, the always equal g-factor and the magnetic characteristics of all substances produced. The decomposition temperature of 9-13 was 115-120°C. All substances are amorphous powders, nos. 9 and 10 light-yellow, no. 11 grey-brown. Nos. 10 and 11 are of a chemical composition similar to that of no. 9 (pentaethanodifferrocene).

Card 2/6.5

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B103/B217

Synthesis and some ...

They consist possibly of 2 and 4 molecules similar to the latter, connected by ethane bridges. 4-5 methylenes in the molecule of nos. 12 and 13 belong to 2 ferrocene radicals. They do not contain halogen. The infrared spectra of nos. 9-13 have frequencies within the range 1000-1100 cm^{-1}. To 1). Derivatives 1) having a π-conjugation between the ferrocene links give a signal the electron paramagnetic resonance (e-p-r), similarly to the polyaromatic hydrocarbons. This cannot be explained by the presence of a corresponding quantity of the oxidized form of the ferricinium cation. Table 1 shows that also polymers in which the ferrocene links are separated by the $-CH_2-CH_2-$ group give an e. p. r. signal. It is known that the delocalization of the unpaired electrons between the two phenyl rings is not prevented by this group. In the substances described here, which give an e p. r. signal, this signal is the smaller, the smaller the number of ferrocene links is. This signal vanishes in 2). Polymers with a low molecular weight give no e. p. r. signal in the solution (benzene), but in solid state. This is explained by the fact that the intramolecular interactions cause in solid state a conjugation of the adjacent polymer molecules. This causes for its part an e. p. r. signal. All polymers

Card 3/6 5

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B103/B217

Synthesis and some ...

giving this signal show a single symmetrical line of the e. p. r. of the Lorenz type. The 1) obtained from the reaction A yields a wide e. p. r. line of 120-160 oersteds, its width being dependent on the polymer structure. This line becomes broader on reducing the measuring temperature. Its width is changed most considerably in low-molecular polymers. The authors believe the nature of the measured signals to be unclarified, they cannot maintain that the number N of the unpaired electrons per 1 member, determined by a comparison with the standard, corresponds to their actual number. N may, however, be a certain characteristic of the magnetic properties of the system (nos. 2-4). N reaches an anomalous size in the insoluble polymer no. 5. This is assumed to be connected with a collective effect of the ferromagnetic type. The ultraviolet (UV-) spectra of 1) dissolved in n-octane, which give an e. p. r. signal in solid state, differ from the ultraviolet spectra of such that give no signal in solid state. In the first case the UV-spectrum agrees completely with that of ferrocene dissolved in CCl_4. It was proved for these spectra (Ref. 7) that the charge transfer takes place here under formation of an ion pair $Fer^+CCl_4^-$. On the contrary, the UV-spectrum of such 1) that give no e. p. r. signal is similar

Card 4/5

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

23454
S/020/61/137/006/013/020
B103/B217

Synthesis and some ...

to that of ferrocene in a neutral solvent (n-octane), i. e. under conditions under which the charge is not transferred. Finally, the authors point out that their results concerning the UV-spectra apparently confirm the "pseudoferromagnetism" of the polynucleotides and of the polyaromatic hydrocarbons (Refs. 5 and 8). There are 1 figure, 1 table, and 8 references: 7 Soviet-bloc and 1 non-Soviet-bloc. The only reference to English-language publication reads as follows: J. C. D. Brand, Ref. 7: Trans. Farad. Soc., 53, 894, 1957.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds of the Academy of Sciences, USSR)

SUBMITTED: December 20, 1960

Legend to Table 1. I) Current number, 1-4) linear polyferrocenylene, 5-6) insoluble polyferrocenylene, 7) polydiisopropylferrocene, linear, 8) like 7, insoluble, 9-11) condensation products of ferrocene with Di-1,2-chloroethane, 12-13) with methylene chloride, 14) ferricinium cation. II) Substance, III) molecular weight, IV) g-factor, V-VI) line width, oersted

Card 5/5

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

NESMEYANOV, A.N., akademik; RUBINSHTEYN, A.M.; SLONIMSKIY, G.L.; SLINKIN, A.A.; KOCHETKOVA, N.S.; MATERIKOVA, R.B.

Magnetic susceptibility of polyalkanopolyferrocenes and polyferrocenylenes. Dokl.AN SSSR 138 no.1:125-126 My-Je '61. (MIRA 14:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Ferrocene--Magnetic properties)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

NESMEYANOV, A.N., akademik; KURSANOV, D.N.; SETKINA, V.N.; KISLYAKOVA, N.V.; KOCHETKOVA, N.S.; MATERIKOVA, R.B.

Hydrogen isotope exchange of cyclopentadienylmanganesetricarbonyl. Dokl. AN SSSR 143 no.2:351-353 Mr '62. (MIRA 15:3)

1. Institut elemento-organicheskikh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kursanov).
(Hydrogen--Isotopes)
(Cyclopentadiene)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

NESMEYANOV, A.N., akademik; KOCHETKOVA, N.S.; MATERIKOVA, R.B.

Scission of cyclopentadienyl compounds of metals by bromine and potassium hypobromite. Dokl. AN SSSR 147 no.1:113-116 N '62. (MIRA 15:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Organometallic compounds)
(Cyclopentadiene) (Bromine)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

NESMEYANOV, A.N., akademik; DVORYANTSEVA, G.G.; KOCHETKOVA, N.S.; MATERIKOVA, R.B.; SHEYNKER, Yu.N.

Properties and structure of dicyclopentadienylmercury. Dokl. AN SSSR 159 no.4:847-850 D '64 (MIRA 18:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

NESMEYANOV, A.N., akademik; MATERIKOVA, R.B.; KOCHETKOVA, N.S.; TSURGOZEN, L.A.

Salts of 1,1'-dialkylcobalticinium. Dokl. AN SSSR 160 no.1:137-138 Ja '65. (MIRA 18:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

NESMEYANOV, A.N.; YUR'YEVA, L.P.; MATERIKOVA, R.B.; GETNARSKI, B.Ya.

Stability of some ferricinium salts. Izv. AN SSSR. Ser. khim. no.4: 731-733 '65. (MIRA 18:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

KURSANOV, D.N.; SETKINA, V.N.; BARANETSKAYA, N.K.; DVORYANTSEVA, G.G.; MATERIKOVA, R.B.

Isotopic exchange of hydrogen atoms in cyclopentadienyl rings of cobalticinium compounds. Dokl. AN SSSR 161 no.4 847-850 Ap '65. MIRA 18:5

1. Chlen-korrespondent AN SSSR (for Kursanov).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

NESMEYANOV, A.N., akad.; KOCHETKOVA, N.A.; MATERIKOVA, R.P.

Acetyl derivatives of pentaethanodiferrocene. Dokl.AN SSSR 136 no.5:1096-1098 F '61. (MIRA 14:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Iron)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

PIOTROWSKI, Zygmunt; MATERLIK, Hubert

Kidney diseases with selective functional lesions of the renal. Polski tygod. lek. 14 no.28:1316-1321 13 July 59.

1. (Z I Kliniki Chorob Wewnetrznych Slaskiej Akademii Medycznej; kierownik: prof. dr Jozef Japa)
(KIDNEY DISEASES)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

PIOTROWSKI, Zygmunt; MATERLIK, Hubert

Osseous disorders during the course of chronic renal insufficiency. Polski tygod.lek. 15 no.52:2007-2010 26 N '60.

1. Z I Kliniki Chorob Wewnetrznych Sl. A.M. w Zabrzu; kierownik: prof.dr Jozef Japa.
(PYELONEPHRITIS compl)
(HYDRONEPHROSIS compl)
(RICKETS RENAL)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERLIK, Hubert

Myocardial damage in trichinosis. Polski tygod. lek. 16 no.25: 948-950 19 Je '61.

1. Z I Kliniki Chorob Wewnetrznych Slaskiej A. M.; kierownik: prof. dr Jozef Japa.

(TRICHINOSIS pathol) (MYOCARDIUM pathol)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

ROMANOWSKI, Bohdan; MATERLIK, Hubert

Radiological bone changes in acromegaly according to observations on 44 cases. Endokr. pol. 13 no.6:621-640 '62.

1. Zaklad Radiologii Slaskiej AM w Zabrzu p.o. Kierownik: dr med. B. Romanowski I Klinika Chorob Wewnetrznych Slaskiej AM w Katowicach. Kierownik: prof. dr J. Japa.
(ACROMEGALY)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERLIK, Hubert; PIOTROWSKI, Zygmunt

Behavior of glomerular filtration in 34 acromegalic patients. Endocr. pol. 14 no.5:415-419 '63.

1. I Klinika Chorob Wewnetrznych Sl. A.M. Kierownik: prof. dr J. Japa.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

POLAND

MATERLIK, Hubert, GLOWINSKI, Mieczyslaw, and SMOK, Jan; First Clinic of Internal Diseases (I Klinika Chorob Wewnetrznych), Sl.AM [Slaska Akademia Medyczna, Silesian Medical Academy] in Katowice (Director: Prof. Dr. med. Jozef JAPA) and the First Clinic of Obstetrics and Gynecology (I Klinika Poloznictwa i Chorob Kobiecych), Sl.AM in Zabrze (Director: Prof. Dr. med. Wojciech STARZEWSKI (Deceased))

"Gynecological and Hormonal Disturbances in Women with Acromegalia. Report of 29 Cases."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 39, 23 Sep 63, pp 1434-1438

Abstract: [Authors' English summary modified] Authors studied 29 cases of acromegaly, developed during pregnancy or immediately after delivery, before and after irradiation of the hypophysis. They describe the characteristic, as well as varying accompanying symptoms, and the effect of radiation and spontaneous cure on them. Additional therapy with hormones gave very good results. There are 23 references: 9 Polish, 2 German, and 12 Western.

1/1

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

218. *Some unusual anatomical findings in periarteritis nodosa* Über einige ungewöhnliche anatomische Befunde bei der Periarteriitis nodosa. MATERNA A. and MADÁK Z. Staatskrankenh., Opava, Troppau, ČSR *Zbl. allg. Path. path. Anat.* 1957, 97 5-6 (292—301) Illus. 5

In 7% of the 200 cases of extensive periarteritis nodosa published in the literature and studied for concomitant venous ectasia this latter phenomenon was found. A similar finding was obtained in 2 personal cases (man of 42, woman of 50), in which the ectasia involved capillary vessels in the cellular tissue round the adrenal glands, kidneys and sciatic nerves as well. In agreement with Vogler's theory, these changes are interpreted as consequences of passing of blood from the narrowed arteries through the arteriovenous anastomoses into veins and capillaries (*Fortschr. Röntgenstr.* 1953, *79*, 354). Some of the venous dilatations may also be due to a venous process of the type of periarteritis nodosa, viz. periphlebitis nodosa. The second case described was, moreover, characterized by marked increase of connective tissue within the periportal areas, with invasion of connective tissue septa into the hepatic lobules. These changes were demonstrated in 11% of the literature and interpreted as periarteritic hepatic cirrhosis.

Kucsko – Vienna (V, 6, 18)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MARAN, Bohuslav, akademik, laureat statni ceny; KAUT, Vl., inz.; SVORCOVA, S., MUDr.; TUSL, M., MUDr., C.Sc.; RABA, Jan.; MATERNA, Jan, inz.; KLIMECEK, Rostislav; BETTELHEIM, Jan, inz.; HALA, Eduard, doc., inz., dr.; UHER, L., inz.; KORDIK, E.; ERDOS, Emerich, doc., inz., dr.; VOSOLSOBE, Jan, doc., inz., dr.; NADENIK, O., inz.; HRUDKA, J.; HOSTALEK, Zdenek, inz., dr.; RADL, K., inz.; PEKAREK, Vl., MUDr.; BLISTAN, J., inz.; STORCH, O. inz.

A national conference on protection against chemical fumes from electric heat plants; a sumary of reports. Energetika Cz 11 no.2:109-111 F '61.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

GASHEK, M.; LENGEROVA, A.; MATERNOVA, E.

Analysis of the role of blood cells in experimental investigations on failure of skin homotransplantation in warm-blooded animals. Fol.biol., Praha 1 no.5:319-320 Oct 55.

1. Biologicheskiy institut CHSAN, eksperimental'naya biologiya i genetika, Praga.
(SKIN TRANSPLANTATION, experimental,
eff. of erythrocyte suspension in chick embryo on homografts)
(ERYTHROCYTES,
eff. of erythrocytic suspension on skin homografts in chick embryo)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

HASEK, Milan; LENGEROVA, Alena; MATEHUOVA, Eva

Analysis of the role of blood cells in experimental overcoming of intolerance to cutaneous homografts in warm-blooded animals. Cesk. biol. 4 no.9:564-565 Oct 55.

1. Biologicky ustav CSAV, experimentalni biologie a genetika Praha.

(ERYTHROCYTES,
in exper. skin transpl., role in overcoming of intolerance to homografts)
(SKIN TRANSPLANTATION, experimental,
erythrocytes in overcoming of intolerance to homografts)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

COUNTRY : CZECHOSLOVAKIA
CATEGORY : General Problems of Pathology. Immunity

ABS. JOUR. : RZBiol., No. 12 1958, No. 56213

AUTHOR : Hasek, M., Lengerova, A., Majer, J., Maternova, E.
INST. : -
TITLE : The Role of Cells in the Process of Apposition

ORIG. PUB. : Ceskosl. Biol., 1955, Vol.4, No.10, 627-630

ABSTRACT : no abstract

CARD: 1/1

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERNOVA, E.

Effect of intra-embryonic injections of blood from another species in the formation of antibodies. II. Reaction in ducks, geese, and guinea hens. p. 5.
Vol 5, no. 1, Jan. 1956
CESKOSLOVENSKA BIOLOGIE
Czechoslovakia

SOURCE: EEAL, Vol 5, no. 7, July 1956

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERNOVA, Vera (Jablonec nad Nisou)

On the origin of jewelery. Sklar a keramik 12 no.9:274-275 S '62.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERNOWSKA, Wladyslawa

Multiple sensitization to antibacterial drugs. Gruzlica 31 no.12:1251-1255 D'63.

1. Z Kliniki Ftizjatrycznej AM w Krakowie. Kierownik: prof. dr. S.Hormung.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERNOWSKI, M. - Rolnik Spoldzielca. Vol. 8, no. 29 July 1955 Warszawa

Wholesale warehouses. p. 41

SO: Monthly list of East European Accessions List, (EEAL), LC, Vol. 4, No. 11 Nov. 1955, Undl.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

Foundry Practice

MATERNY, M.

S

Steel melting in Tropenas converters. M. Materny. (*Przegląd Odlewnictwa*, 1952, 2, 1, 6-16). (In Polish.) Various aspects of steelmaking in side-blown converters are discussed. V. c.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERNY, MIKULAS

E-2

Czechoslovakia / Analytical Chemistry.
Analysis of Inorganic Substances.

Abs Jour: Ref. Zhur - Khimiya No. 2, 1958, 4323

Author : Materny Mikulas

Title : Determination of Sulfuric Acid in Technical Lactic Acid.

Orig Pub: Chem. Zvesti, 1957, 11, No. 3, 157-161

Abstract: Results are cited in regard to the comparative study of the determination of sulfuric acid in technical lactic acid (1). In the determination of H_2SO_4 in (1) by the method of Berl-Lunge, to decrease the solubility of sulfates the use of acetone instead of C_2H_5OH is recommended. A rapid method for the indirect polarographic determination of H_2SO_4 is described. 20 ml. of the

Card 1/3

with a solution of $AgNO_3$ in 1N NH_4OH) and 10 ml. of 1N NH_4OH. To the resulting solution is added: 1 ml. of a 0.5% solution of gelatine, 3 ml. of 10^{-3}M diamond fuchsine and the solution is made up to 5 ml. with water. The polarogram is taken

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Card 2/3

E-2

Analysis of Inorganic Substances.

Abs Jour: Ref. Zhur - Khimiya No. 2, 1958, 4323

in a Kalousk vessel with a Hg_2SO_4 electrode. The maximum error is 1.2-0.4 mg. of H_2SO_4 per 100 ml. of (1).

Card 3/3

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATERNYKH, L.F.

USSR

Determination of palladium as the thiocyanate complex with the application of nonaqueous solvents. B. S. Przhevalskii, V. I. Shlenskaya, and L. F. Maternykh. *Vestnik Moskov. Univ.* 9, No. 6, *Ser. Fiz.-Mat. i Estestven. Nauk* No. 4, 71-8(1954).—Colorimetric detn. of Pd is described in either pure solns. of Pd salts or in the presence of Fe, Co, Pt(IV), and Ir(IV). The detn. is based on the red complex $[Pd(SCN)_4]^{--}$ (cf. *C.A.* 47, 4789c; Belucci, *Atti accad. Lincei* 13, II, 388(1904)). The complex is extd. with BuOH or iso-AmOH at pH below 5 and the detn. is made at 430 mμ, with sensitivity to 2 γ per ml. with relative error of 2.5% in the concn. range of 0.2-0.9 mg. Pd. Addn. of 2 ml. satd. Na_2HPO_4 prevents interference of Fe. If Co is present, a blue complex is formed. A filter, which permits light of wave length 430 mμ to pass through, is used for the satisfactory detn. of Pd. Pt(IV) does not interfere because the $PtCl_6^{--}$ ion is not extd. with iso-AmOH. In the presence of $IrCl_6^{--}$, the addn. of excess KSCN or NH_4SCN prevents interference. If all the elements are present (Pd, Fe, Co, Pt, Ir) the use of 2 ml. Na_2HPO_4 causes too high results for Pd; in such cases an excess of Na_2HPO_4 eliminates the difficulty. G. M. Kosolapoff

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MATERNYKH, L.F.

USSR/ Agriculture - Plant physiology

Card 1/1 Pub. 22 - 45/51

Authors : Dadykin, V. P.; Shulitskaya, V. D.; and Maternykh, L. F.

Title : Effect of soil temperature on the amine nitrogen content in plants

Periodical : Dok. AN SSSR 101/2, 367-369, Mar 11, 1955

Abstract : Chemical analysis of various plants showed that the low temperature of the soil in the zone of the root hinders the nitrogen flow to the plant and also obstructs the synthesis of nitrous substances. The plant organism is saturated with absorbed nitrogen. Seven USSR references (1938-1954). Table; drawing.

Institution : Acad. of Sc., USSR, Yakutsk Branch

Presented by: Academician A. L. Kursanov, December 17, 1954

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POLUKHIN, P. I., prof., doktor tekhn. anuk; FEDOSOV, N. M., prof.; KRUPIN, A. V., kand. tekhn. nauk; MATEROV, V. A., inzh.; SHILKOV, B. N., inzh.; MAKSIMOV, B. M., inzh.

Increase in width during rolling with drawing dies. Sbor. Inst. stali i splav. no.40:100-106 '62. (MIRA 16:1)

(Drawing(Metalwork))

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

A-1

Be MATEROVA, Ye A

PROCESSES AND PROPERTIES INDEX

Adsorption of barium, sodium, and lithium ions by glauconite and its dependence on the p_H of the equilibrium solution and on the ionic concentration. E. A. MATEROVA (J. Gen. Chem. Russ., 1939, 9, 1274—1278).—The change of p_H produced by glauconite in solutions of $BaCl_2$ + $Ba(OH)_2$, NaCl + NaOH, and LiCl + LiOH was measured, and the sorption of Ba^{++}, Na^{+}, and Li^{+} calc. The sorption increases with the p_H and seems to have an electrostatic character. J. J. B.

Chair Colloid and Phys Chem, Saratov Med. Inst.

A38-SLA METALLURGICAL LITERATURE CLASSIFICATION

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B-3-1

BC

Significance of the hydrogen ion in the exchange of metallic ions on silicate surfaces. V. I. Paramonova and E. A. Matarova. (Pedology, 1960, No. 6, 65—78).—In chernozem soil, SiO_2 gel, permutite, and glauconite the exchange capacity increased with increasing p_H. It is considered that a const. exchange capacity does not exist, and that Gedroiz's conception of soil "absorption capacity" should be critically revised. The results of these investigations confirm Nikolski's findings (B., 1955, 71) that the absorption capacity of a soil depends primarily on the [H⁺] in the solution surrounding the soil, on the nature of the saturating ion, and on its concn. in the solution. S. and F. (m)

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032820013-1

MATEROVA, YE A

NIKOL'SKIY, B.P.; BITEPAZH, Yu.A.; MATEROVA, Ye.A.

Physical and chemical study of ion exchange in glauconite. Part 1. Glauconite exchange capacity. Uch.zap.Len.un. no.108:138-143 '49. (MIRA 10:3)

(Glauconite) (Ion exchange)

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