MALKINA, M. G., Doc Med Sci -- (diss) "Cirrhosis of the liver as an outcome of Botkin's disease." Moz, 1957. 15 pp (Min of Health USSR, Central Inst for Advanced Training of Physicians), 200 copies (KL, 2-58, 115)

-56-

USSR/Human and Animal Physiology. Thermoregulation

T-3

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65063

: Malkina M.G.

: - Chair of Psychiatry, Saratov State Med. Inst. : Pathological Thermoregulation in Schizophrenia Author Inst Title

Orig Pub : V sb.: Aktual'n. probl. nevropatol. i psikhiatrii, Kuybyshev,

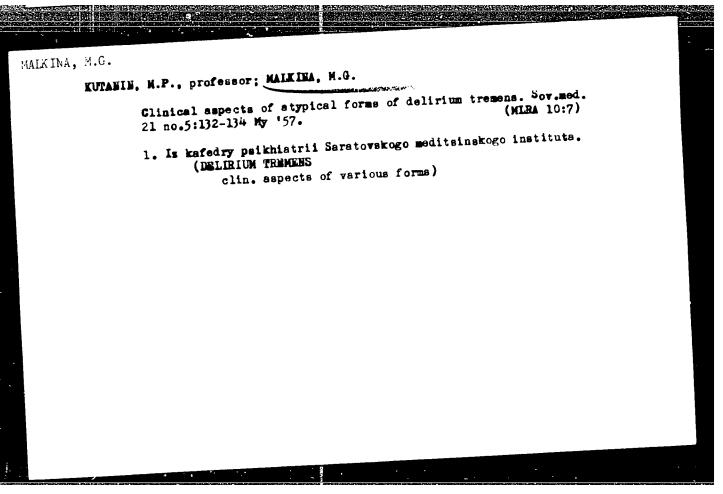
1957, 250-258

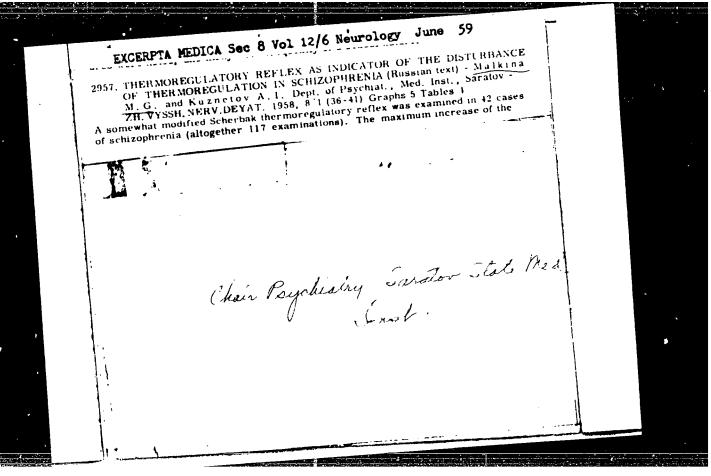
Abstract: The development of fever at the height of catatonic excitation was observed in patients with schizophrenia. The body temperature of the patients fluctuated between 37 and 39°; that of the cerebrospinal fluid between 37.5 and 38.20. Measuring the skin of the forearm after the hand had been in a 450 bath for 60 minutes revealed the pathological nature of the

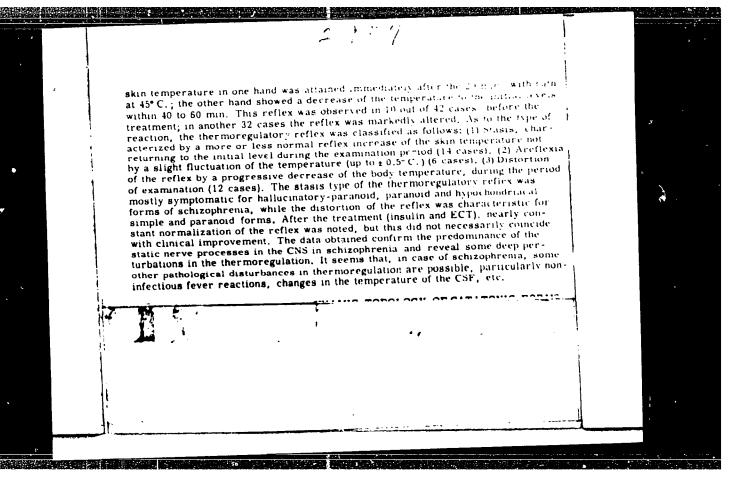
thermoregulatory reflex in the form of congestion, areflexia and distortion. Phenamine given with sulfozine increased the pyrogenic effect of the latter. The prescription of sulfozine in combination with phenomine is recommended. 0.01

om for a period of 1-2 days. : 1/1 Card

14







# MALKIEA, M.G., kand.med.nauk Treatment of the epileptic state. Kaz.med.zhur. 41 no.1:88-89 (MIRA 13:6) Ja-F '60. 1. Is kafedry psikhiatrii (sav. - prof. M.P. Khtanin) Saratov-skogo meditsinskogo instituta. (MPHAPTICS--CARE AND TREATMENT)

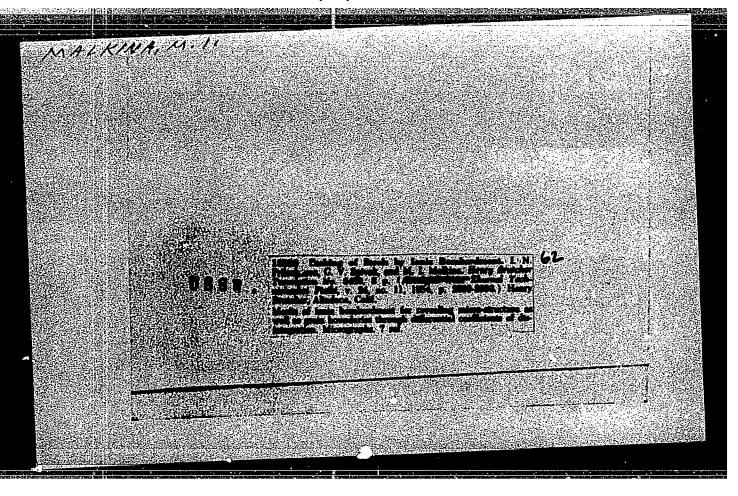
MALKINA, M.G., doktor med.nauk; KALUGINA, L.T., kand.med.nauk

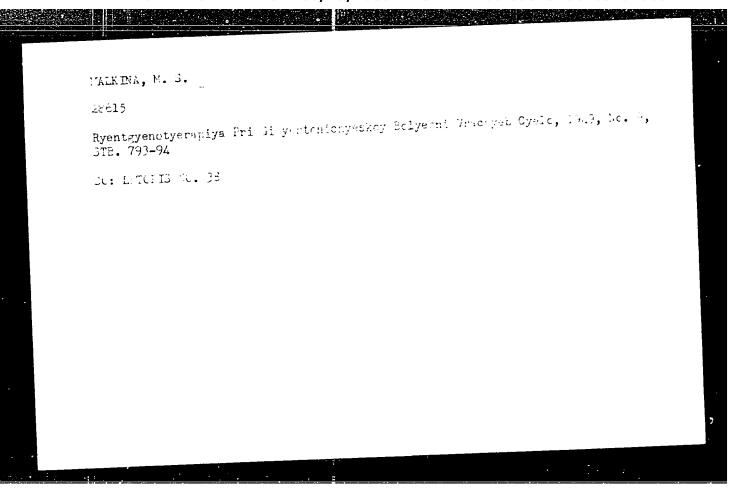
Organizing postgraduate training for therapeutists in Moscow Province. Zdrav.Ros.Feder. 6 no.9:22-25 S '62. (MIRA 15:10)

1. Iz 1-y terapevticheskoy kliniki (zav. - doktor med.nauk M.G. Malkina) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F.Wladimirskogo (dir. - zasluzhennyy vrach RSFSR kand.med.nauk P.M.Leonenko).

(MOSCOW PROVINCE--THERAPEUTICS-STUDY AND TEACHING)

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031910002-4





# MAIKINA N.F.

USSR/Analysis of Organic Substances.

G-3

Abs Jour

: Referat Thur - Thinlya, No 0, 1957, 19740

: S.M. Kazarnovskiy, M.I. Halkina.

Author I:ist

: Gorki Polytacinical Institute.

Title

: Separate Leteraination of Ammeline, Ammelide and Cyanurate

of Melamine in Ind suchal Melamine.

Orig Pub

: Tr. Ger'devsk. politemhn. in-ta, 1955, 11, No 3, 56-61

Abstract

: 15 g of industrial melamine are extracted with 50 ml of C.1 n. NaCH at 50 to 660. The cooled solution is fixtured through Buch nsr's funnel, the remainder is wached with water several times as a lisearded. The filtrate is nestralized with 0.5 m. 121 with phenolphthaloin and an excess of and of 0.5 mi to mided. The separated precipitate of armeline (I), anneline (II) and eyanurate of melamine (III) ar with releast with a cross filter No 4, melamine (IV) i washed but with water, the remainder is washed off into : class with 40 ml of warm G.1 n. NaCH,

Card 1/3

- 30 -

CIA-RDP86-00513R001031910002-4" **APPROVED FOR RELEASE: 06/20/2000** 

USSR/Analysis of Organic Substances.

G-3

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 19740

heated to 50 to 60° and precipitated with 50 ml of 0.4 n. solution of Ba(OH)2. This is filteted through a crucible No 4, washed with 5 to 10 ml of 0.1 m. NaOH and the precipitate is discarded. The filtrate is neutralized with 0.5 n. HCl using phenolphthalein and an excess of 0.5 ml of the acid is added. The separated precipitate (I + II) is washed of IV, dried and weighed. 50 ml of a solution of the cyanuric acid (1.5 g in 1 liter water) are added to the filtrate. The precipitated III is dried and weighed. The precipitate of I + II is dissolved in 25 ml of 0.1 NaOH. 50 ml. of the saturated solution of pieric acid and 5 ml. of 60% CH2CCOH are added to an aliquote sample (about 20 mg of I or II). 24 hours later the precipitate of II and I picrate are filtered off with a filter No 4, washed 2 or 3 times with water, dissolved on the filter with 10 ml of 25 NaOH; the solution is diluted to 100 ml and photometered with a blue light filter. The

Card 2/3

- 29 -

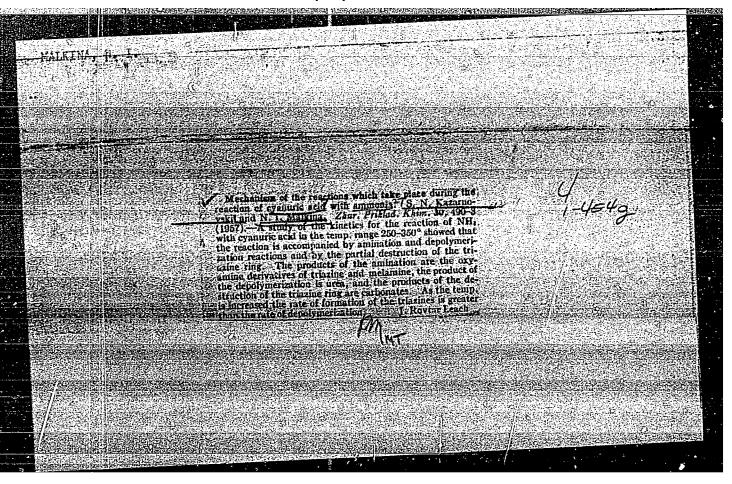
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	L'vov. Universytet	Ì
	Materialy I Vaescyumogo soveshchaniya po spektroskopii. Molekulyarnaya spektroskopiya (Papers of the 10th All- Conference on Spectroscopy. Vol. 1: Molecular Spectr [L'vov] Isd-vo L'vovskogo univ-ta, 1957. 499 p. 4,00 printed. (Series: Its: Pisychnyy sbirnyk, vyp. 3/8,	-Union oscopy)
	Additional Sponsoring Agency: Akademiya nauk SSSR. Kom spektroskopii. Ed.: Jazer, S.L.; Tech. Ed.: Saranguk Editorial Board: Lardskerg, G.S., Academician (Resp. Neporent, B.S., Doctor of Physical and Mathematical S Fabelinskiy, I.L., Doctor of Physical and Mathematical Fabrikard, V.A., Doctor of Physical and Mathematical Kornitakiy, V.G., Candidate of Technical Sciences, Ra Candidate of Physical and Mathematical Sciences, Mill Candidate of Physical and Mathematical Sciences, Mill Candidate of Physical and Mathematical Sciences, Mill Candidate of Physical and Mathematical Sciences, Mill	T.V.;  Zd., Deceased), ciences, 1 Sciences, Sciences, Sciences, yekiy, 3.M., ovskiy, L.K., yanchuk, V.S.,
	A. Ye., Candidate of Physical and Mathematical Science Card 1/30	••••
:	Yeliseyev, Yu. A., L.A. Igonin, and A.N. Shabadash. Vacuum Container for the IKS-1 Infrared Spectre- meter	371
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	Cherkasov, A.S. Effect of Spacing of Substitutes on the Absorption Spectra and Fluorescence of Meso-derivatives of Anthracens	381
	Finkel'shteyn, A.I., M.I. Malkina, and G.F. Machin. Absorption Spectra IF the Utraviolet Range and the Molecular Structure of Triamine Derivatives	385
	Card 24/30	

FINERL'SHTEYN, A.I.; MALKINA, M.I.; MACHIN, G.P.

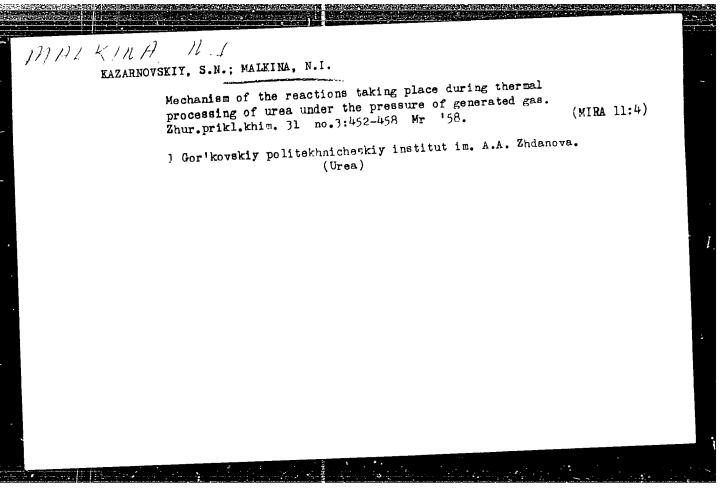
Ultraviolet absorption spectra and molecular structure of triasine derivatives. Fis. sbor. no.3:385-388 \*57.

l. Dzerzhinskiy filial Gosudarstvennogo nauchno-issledovatel skogo i proyektuogo instituta azotnoy prosyshlennosti, Gor'kovskiy politekhnicheskiy institut im. A.A. Zhdanova i Gor'kovskiy gosudartekhnicheskiy institut im. N.I. Iobachevskogo.
strennyy institut im. N.I. Iobachevskogo.
(Triazine-Spectra)

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031910002-4



MAINTHA, N. I., Cand Tick Tet (diss) -- "A study of the medianism of reactions occurring in the synthesis of derivatives of triazite for, pre". or 'siy. 1957. pp Tith Ticker The Time to The Touristy Polyheel That is A. I. Thiselov', 100 copies (石, 2019, 1972, 198).



Malkina, N. I., Finkel'shteyn, A. I. 76-32-5-2/47

Optical Investigation of the Melecular Structure of the Derivatives of Sym-Triazine(Opticheskoye issledovaniye molekulivatives of Sym-Triazine(Opticheskoye issledovaniye molekulivatives of Sym-Triazine(Opticheskoye issledovaniye molekulivarnogo stroyeniya proizvodnykh sim-triazina) II. The Absorption yarnogo stroyeniya proizvodnykh sim-triazina) II. The Absorption Spectra in the Ultraviolet Hange, the Molecular Structure and Spectra in the Ultraviolet Hange, the Molecular Structure and the Analysis of Ammeline and Ammelide (II. Spektry pogloshcheniyativa vul'trafioletovoy oblasti, molekulyarnoye stroyeniye i analiz ammelina i ammelida)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32. Nr 5, pp. 981-985 (USSR)

In the present work investigations of the tautomeric transformations of the above mentioned compounds in acid and alkaline medium using the mentioned spectra for the analysis of mixtures of these compounds are carried out. Data are given with respect to the production of the two substances as well with respect to the production of the obtained absorption as a graphical representation of the obtained absorption spectra obtained by means of a quartz-photoelectric spectrophotometer of the type CO-4. It was observed that a noticephotometer of the type CO-4. It was observed that a noticeable displacement of the absorption maximum as function of the acidity takes place, with both substances displaying opposite

Card 1/3

ABSTRACT:

Optical Investigation of the Molecular Structure of the 76-32-5-2/47 Derivatives of Sym-Triazine II The Absorption Spectra in the Ultraviolet Range, the Molecular Structure and the Analysis of Ammeline and Ammelide

phenomena, so that a separation analysis can be carried out on this basis. The change of the absorption spectra by the acidity is explained by the tautomeric conversions, taking place due to an increase or reduction of the number of interbindings  $\Lambda$  quantitative determination of these substances was described by A A Korinfskiy (Ref 11), as well as by S. N. Kazarnovskiy and N. I. Malkina (Ref 10) The course of analysis is described from which follows that calibration curves are plotted with the help of the pure substances and that the calculation of the concentration is carried out according to the method of consecutive approximations, with determinations of the optical density being made. The iuration of analysis is given to be from 2c - 25 minutes, with tabular comparisons of the results with determinations according to other methods being mentioned There are 3 figures. 2 tables, and 12 references, 3 of which are Soviet

ASSOCIATION:

Gor'kovskiy politekhnicheskiy institut im A. A. Zhdanova, Dzerzhinskiy filial Instituta azotnoy promyshlennosti (Gor'kiy

Card 2/3

Optical Investigation of the Molecular Structure of the 76-32-5-2/47 Derivatives of Sym-Triazine. II. The Absorption Spectra in the Ultraviolet Range, the Molecular Structure and the Analysis of Ammeline and Ammelide

Polytechnical Institute imeni A. A. Zhdanov, Dzerzhinskiy Department of the Institute of Nitrogen Industry)

SUBMITTED:

November 19, 1956

1 Triazines---Molecular structure 2 Triazines---Spectrographic analysis 3 Spectrophotometer---Applications

Card 3/3

A synthesis (synthesis (synthesis), 3.3.

A synthesis (synthesis) (synthesis), 3.3.

A synthesis (synthesis) (synthesis), 3.3.

A synthesis (synthesis) (synthesis), 3.4, no. 7, 1961, 1563 - 1587

A synthesis (synthesis) (synthesis), 4.5.

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S/080/61/034/007/011/016 D223/D305

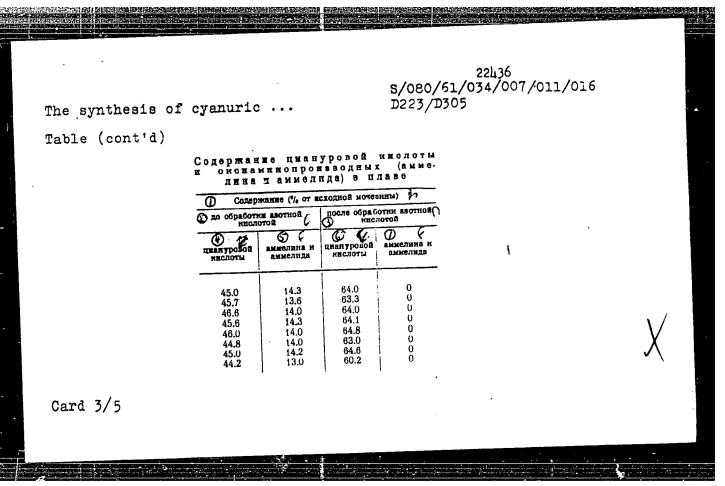
The synthesis of cyanuric ...

product followed by the spectrophotometric analysis of ammeline and ammelide (Mef. 27: N.I. Malkina, A.I. Finkel'shteyn, ZhFKh 32, 5, 981, 1958). For better clarification of the process, the deparate products were expressed as the yield on the initial ure. nitrate via carbon mass balance. To study the kinetics of formation, conuric acid was produced at temperature intervals of 132-150°C and for corresponding experimental times of 15, 30, 60, 120, 180 minutes. In order to increase the yield of cyanuric acid and also to free it from side products a series of experiments were carried cut, the results of which are given in the following table:

Table. Cyanuric acid and oxyamino products (ammeline and ammelide) content in the melt.

Legend: 1 - content (% on initial urea nitrate); 2 - before HNO3 treatment; 3 - after HNO3 treatment; 4 - cyanuric acid; 5 - ammetine and ammelide; 6 - cyanuric acid; 7 - ammeline and ammelide.

Card 2/5



22436 S/080/61/034/007/011/016 D223/D305

The synthesis of cyanuric ...

The investigation of the kinetics of formation of intermediate products and cyanuric acid obtained when heating urea nitrate at atmospheric pressure and temperature intervals of 132-150°C showed that thermal treatment of urea nitrate is accompanied with its isomerization into ammonium cyanate and decomposition of the latter into cyanuric acid and ammonia (reversible reaction). The optimum conditions for obtaining ammonium cyanate (34 %) are a temperature of 190°C and synthesis time of 60 minutes. Cyanuric acid is produced by the polyrization of cyanic acid. The optimum conditions for the biurette (42 %) formation are temperature 170°C and synthesis time 180 minutes; cyanuric acid (63 % calculated on the carbon content of urea nitrate or 45 % of initial urea nitrate) at a temperature of 250°C and synthesis time 15 minutes. The ammoniation products of cyanuric acid were ammelide and ammeline (side products), their total quantity being 13-14 % of urea nitrate. The yield of cyanuric acid can be increased from a mean of 43 % to 63% by treating obtained melt with a 30 % nitric acid solution which frees the product from ammeline and ammelide. There are 5 figures,

Card 4/5

The synthesis of cyanuric ...

22436 S/080/61/034/007/011/016 D223/D305

1 table and 27 references: 8 Soviet-bloc and 19 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: H. Iida, J. Chem. Soc., Japan, Ind. Chem. Sect., 56, 92, 1953; Ch. A. 49, 4679, 1955; H. Kinoshita, Rev. Phys. Chem. Japan, 25, 34, 1955; Ch. A., 50, 7114, 1956.

ASSOCIATION: Gor'kovskiy politekhnicheskiy institut imeni A.A. Zhdanova (Gor'ky Polytechnic Institute imeni A.A.

SUBMITTED: May 4, 1960

Card 5/5

22438

S/080/61/034/007/015/016 D223/D305

3610

Malkina, N.I.

AUTHOR: TITLE:

The synthesis of cyanuric acid from urea nitrate

(Report II)

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 7, 1961,

1630 - 1632

TEXT: The present work deals with the investigation of the method of producing cyanur. and without ammelide and ammeline impurities by the direct treatment of urea nitrate with sulphuric acid, aiming to reduce the time of synthesis and the study of the effects of various faitors (H2S04 concentration, quantity used, heating time experimental temperature) on the yield and purity of obtained product. The resulting solution was neutralized with a 25 % ammonia solution using methylred as an indicator and analyzed for cyanuric acid content. The results showed that the concentration of sulphuric acid to a great extent affects the yield and purity of

Card 1/3

221,38

The synthesis of cyanuric ...

S/080/61/034/007/015/016 D223/D305

cyanuric acid. The optimum concentration of sulphuric acid was 24%, while, below this concentration, the oxyamino product of triazine appeared in the melt, decreasing the purity of cyanuric acid. This is a result of insufficiency of H<sub>2</sub>SO<sub>4</sub> to change ammelines and ammelides into cyanuric acid. The experiments show that the optimum quantity of 24 % H<sub>2</sub>SO<sub>4</sub> is 4 gr. for 4.5 gr. of urea nitrate, while experiments 14-17 give the best time as 5 hours. The additional time, decreases the product to 48 % and increases the amount of ammelides and ammelines. The optimum temperature is 200°C while higher temperature increases the quantities of impurities. The melt, obtained under optimum conditions, contained 60-65% of cyanuric acid (wt. % of melt): the rest being amm. sulphate undecomposed at the temperature of experiments. To separate the cyanuric acid from side products 1 gr. of melt was dissolved in 50 mls. of water at room temperature and filtered. The residue contained cyanuric acid of 97-99% purity. There are 1 table and 19 references: 7 Soviet-bloc and 12 non-Soviet-bloc. The references to the English-language- publications read as follows: G.A. Loughran, E.O. Hook,

Card 2/3

22438

The synthesis of cyanuric ...

S/080/61/034/007/015/016 D223/D305

Am. pat. 2676151; Ch. A., 48, 13210, 1354; D.A.W. Adams, R.H. Wilson, Am. pat. 2667458; Ch. A., 48, 5515, 1954; C.H. Hands, F. Whitt, J. Soc. Chem. Ind., 67, 66, 1948.

ASSOCIATION: Gor'kovskiy politekhnicheskiy institut imeni A.A. Zhdanova (Gor'kiy Polytechnic Institute imeni A.A.

SUBMITTED:

September 13, 1960

Card 3/3

MALKINA, N.I.; KAZARNOYSKIY, S.N.

Synthesis of cyanuric acir from urea. Zhur.prikl.khim. 37
no. 5:1158-1160 My '64. (MIRA 17:7)

1. Gor'kovskiy politekhnicheskiy institut imeni A.A.Zhdanova.

**SOV**/115-59-6-16/33

9(2), 28(2)

AUTHOR:

Malkina, O.G.

TITLE:

Impedance Measurements at Audio Frequencies by the Method of Magnetically Connected Circuits

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 6, pp 39-42 (USSR)

ABSTRACT:

The author explains a method of measuring separately by components R and X of the impedance Z. Such measurements are required for a number of production processes, for example, for the quality control of cable and capacitor paper, inductances for radio equipment, etc. The existing methods of measuring the impedance components are complicated and delay control and automation of production processes where such measurements are necessary. For obtaining separate measurements of R and X, circuits with different relative sensitivity to resistance and impedance changes are required which may be provided by induction-coupled circuits. Fig.1 shows circuits with induction-coupling of coils and with negative induction-coupling between them. The author presents sets of equations for the currents in these circuits. When measuring impedances by the method of induction-coupled circuits,

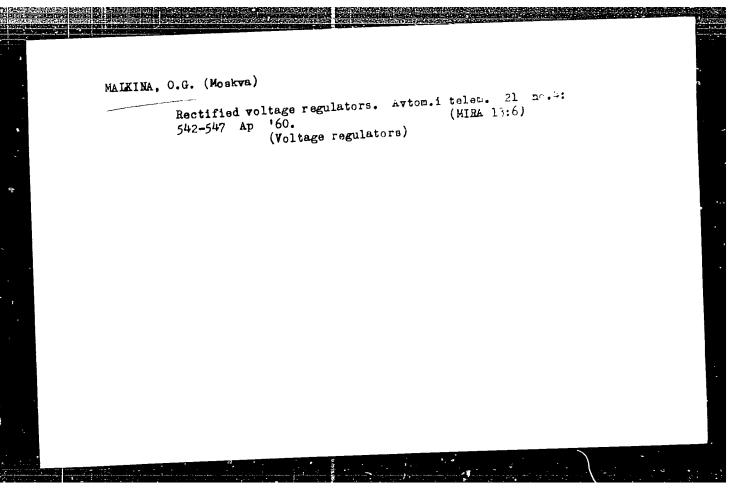
Card 1/2

SOV/117-59-9-16/33

Impedance Measurements at Audio Prequencies by the Method of Magnetically Connected Circuits

magnetic amplifiers may be used whose control windings function as induction-moupled circuits. Magnetic amplifiers are employed efficiently with differential circuits as shown in fig.3, whereby the distortion of alternating corrents in the control circuits by pair harmonics and veltage—change errors are eliminated. There are 3 circuit diagrams and 1 graph.

card 2/2



89180

S/103/61/022/002/011/015 B013/8060

9.2530

AUTHOR:

Malkina, O. G. (Moscow)

TITLE:

Use of magnetic amplifiers for measuring impedances with

magnet-coupled circuits

PERIODICAL:

Avtomatika i telemekhanika. v 22, no. 2, 1961, 243-249

TEXT: Magnet-coupled circuits permit the measurement of every component (R and X) of an impedance. This simplifies laboratory measurements and facilitates the construction of automatic control instruments for industrial processes. The design of pick-ups for control or automatic regulation processes that the signal te inequiverally dependent upon each of the two components. The latter are separated either with the aid of a bridge circuit with two phase-sensitive indicators or with the aid of a circuit, in which the voltage to be controlled is obtained through the use of balancing which the voltage to be controlled is obtained through the use of balancing indicators. An additional phase shifter is then connected to the bridge, and the indicators are fed by two voltages taken off at different joints of the bridge and of the phase shifter. The indicators used are either differential-amplitude or differential phase indicators. The same

Card 1/6

89180

s/103/61/022/002/011/015 B019/B060

Use of magnetic amplifiers ...

measurements can be made with mignet-coupled circuits with the aid of a magnetic amplifier. Shock-proof and vibration-proof measuring instruments can thus be developed, which are also suited for measuring small resistances at high frequencies. The difference between rectified currents of two circuits is used in the study of the variants dealt with here. In one circuit there is the active resistance R, and in the other the impedance  $\Delta$  Z is present in addition to the active resistance R. Fig. 2 shows such a measuring circuit. For LZ = C the following relation holds:

$$\dot{I}_{*} = \dot{I}_{2} = \dot{U}_{*}/R$$
 (2)

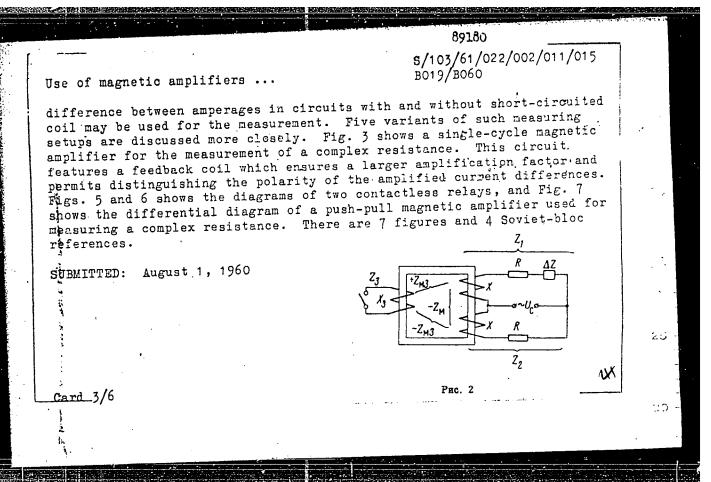
Connecting a small resistance to be measured leads to a change of these currents, and the way of calculating such a change is shown. Frovided that  $\Delta R$  and  $\Delta X$  be considerably smaller than R, the relation

$$\Delta I = \frac{1}{2} \left( \Delta RR + \Delta X^2 X \right) / (R^2 + 4X^2)$$
 (6)

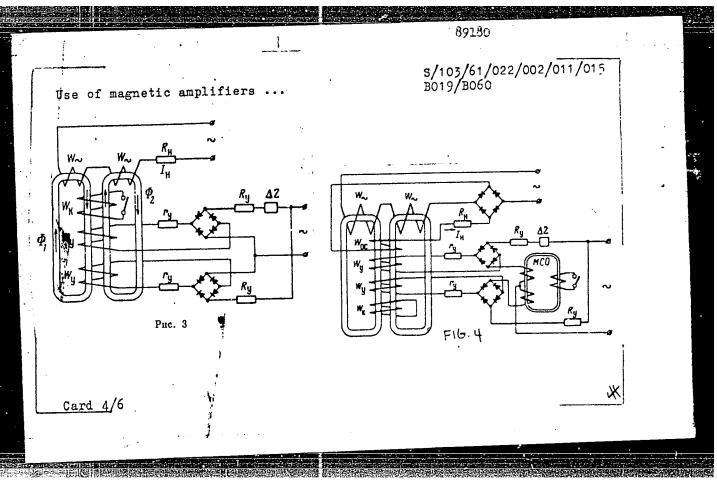
is obtained for the difference between the two currents. Likewise, the

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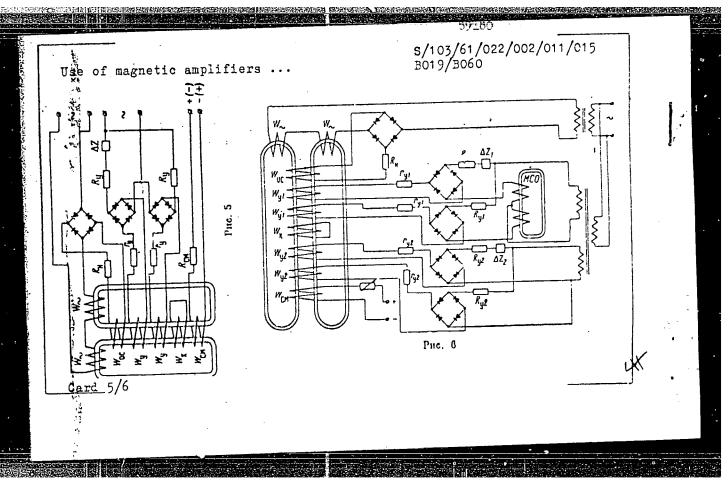
Card 2/6



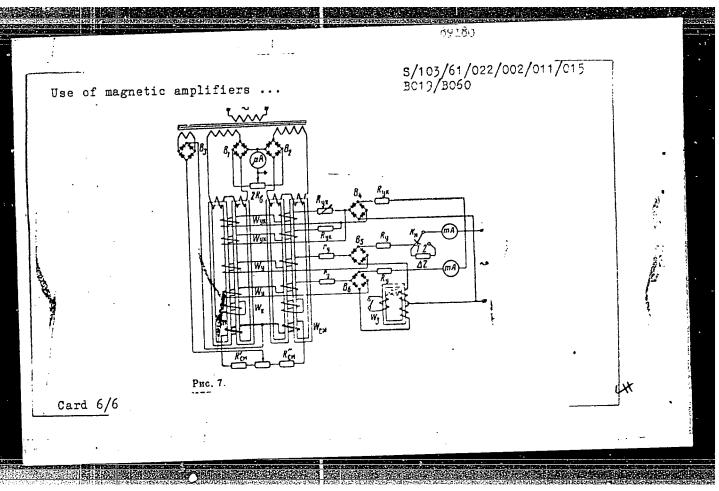
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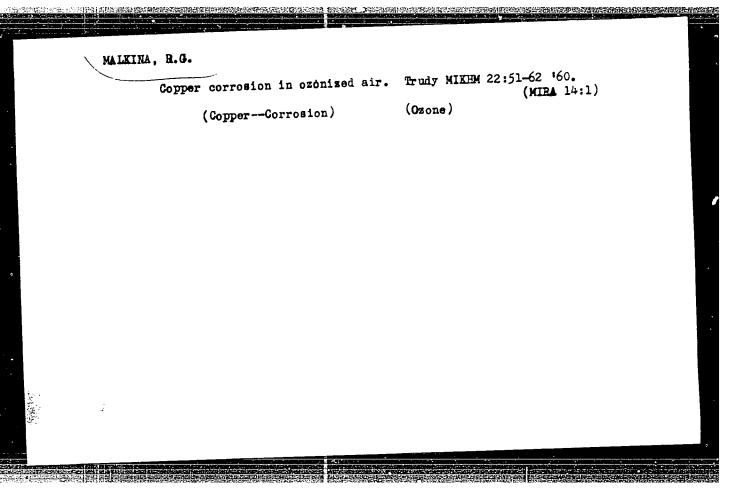


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"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031910002-4





S/153/62/005/006/013/015 E075/E336

AUTHOR:

Malkina, R.G.

TITLE:

The influence of nitrogen and carbon dioxide on the

corrosion of copper by ozonized air

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Khimiya i

khimicheskaya tekhnologiya, v. 5, no. 6, 1962,

995 - 998

The author studied the effect of the air constituents  $\mathrm{N}_2$  and  $\mathrm{CO}_2$  on the corrosion of 99.90% pure Cu. The corrosion of TEXT:

Cu with ozonized oxygen proceeds with greater intensity in the first 2-3 hours than corrosion with ozonized air. Subsequently, however, the air gives more corrosion than the ozonized  $\mathbf{0}_2$ , indicating a possible effect of N2 on the corrosion caused by air. On the other hand, ozonized 0, forms a protective film which prevents, to a large degree, further corrosion. The corrosion products did not have any N-containing compounds. This means that N<sub>2</sub> does not take a direct part in the corrosion process. A similar finding was obtained for the corrosion caused by ozonized Card 1/2

\$/153/62/005/006/013/015 E075/E336

The influence of ....

air containing CO2. The corrosion rates were substantially the same for wet ozonized air in the presence or absence of CO2. indicates that moisture does not promote the formation of carbonates. There are 2 figures and 1 table.

ASSOCIATION:

Kafedra obshchey i organicheskoy khimii,

Moskovskiy institut khimicheskogo mashinostroyeniya (Department of General and Organic Chemistry,

Moscow Institute of Chemical Machinery)

SUBMITTED:

October 2, 1961

Card 2/2

```
MAINTIA, R. J.

See Also: RAYDV, Z. A., LOZHNIL, D. D., and LAZIDRVITH, K. K.

Authors: Z.A. Rayev, G. M. brez ner, R. J. Davids and M. K. Catalevich --
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promest' SSSn, Issue E., Lichy, Liche
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L 04777-67 EWT(m)/EWP(w)/EWP(t)/ETI/EWP(k) LJP(c) JD/WW/JG/WB  ACC NR: AP6025725 SOURCE CODE: UR/0365/66/002/904/0490/0492  AUTHOR: Gil'man, V. A.; Kolotyrkin, Ya. M.; Malkina, R. I.
AUMHOR. Gillman, V. A.; Kolotyrkin, Ya. M.; Malkina, R. I.
A) Inon. dir mary
ORG: Scientific Research Physicochemical Institute 1m. L. 1a. Marpor (Neuchno-issledovatel'skiy fiziko-khimicheskiy institut)
in concentrated hydrochloric acid 7
SOURCE: Zashchita metallov, v. 2, no. 4, 1966, 490-492
TOPIC TAGS: zirconium, corrosion, corrosion rate, electrochemistry,
ABSTRACT: Studies of the corrosion and electrochemical benevior of a state of the corrosion and electrochemical benevior of a conditions were continued using circonium under anodic polarization conditions were continued using a condition of the corrosion. In the passive region, at potentials more
negative than +0.17 v, the late of solution of 2. The rate of solution of 2.
the given potential. In the case of Zr with atmospheric oxide illustration that the anodic
the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the initial average rate of solution is an order higher the solution of passive constant with time. The proposed mechanism for the solution of passive constant with time.
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comprises the electrochemical formation of an oxide on the metal arface with subsequent solution of the oxide. At potentials above 17 v the rate of solution and anodic current increase rapidly sulting in embrittlement and eventual disintegration of Zr electrocycles induction melting. Action on arc melted Zr containing 102% C is ten times slower. Tests under potentiostatic condition ound to be more severe than the corrosion tests run at 100°C. The following solution of Zr in concentrated HCl is 2 orders higher than in dicid. Orig. art. has: 2 figures.	rodes s were e rate
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