

Synthesis of Several Monomers on Alumochromium Catalysts SOV/153-2-4-26/32

main product; 2,3-dimethyl-butane amounted to 8-10% of the alkylate. The preparation of 2,3-dimethyl-butadiene-1,3 from 2,3-dimethyl-butane proceeds in two stages: a) Dehydration with the formation of two olefines: 1) tetramethyl-ethylene, and 2) 2,3-dimethyl-butene-1. b) Dehydration of the olefines to the end product. This reaction has not been considered in publications (except for the reference in the patent (Ref 5)). The authors investigated the first stage thoroughly on an alumochromium-potassium catalyst. The specifications for its production were provided by M. N. Marushkin (deceased) (IOKh AN SSSR - Institute of Organic Chemistry AS USSR). This catalyst showed the highest activity at 550°. The catalyze reached a 87% yield with a content of unsaturated hydrocarbons of 60-67%. The investigation of the second stage has not yet been completed. An aromatization diagram of divinyl-acetylene-hydrocarbons is given. Several mono-, bi-, and tricyclic hydrocarbons with a prescribed structure were produced on the basis of the diagram. A diagram of the reactions of the synthesis of p-xylene from acetylene and acetone is suggested. Since there is no demand for acetone in the USA because of increasing phenol production,

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and its price according to the Sergeyev method is already $1/3 - 1/4$ of the present one, the synthesis method mentioned above might become useful for industry. In conclusion, a simple way of synthesis for polyphenyl systems is suggested. Moreover, the Favorskiy reaction is mentioned in the paper. There are 11 references, 5 of which are Soviet.

ASSOCIATION: Vostochno-Sibirskiy filial SO AN SSSR (East Siberian Branch of the Siberian Department of the Academy of Sciences, USSR)

Card 4/4

ZANINA, A. S., CAND CHEM SCI, "SYNTHESIS OF MONO- AND
POLYCYCLICAL AROMATIC HYDROCARBONS ON A BASE OF ACETY-
LENE COMPOUNDS." NOVOSIBIRSK, 1961. (ACAD SCI USSR, SI-
BERIAN DEPT., JOINT ^{Acad} ~~Sci~~ COUNCIL FOR CHEMICAL SCIENCES).
(KL-DV, 11-61, 210).

5.1190

5.3300

S/079/61/031/010/003/010
D227/D302AUTHORS: Kotlyarevskiy, I.L., and Zanina, A.S.TITLE: Unsaturated hydrocarbons. XIV. Synthesizing poly-
cyclic hydrocarbons by dehydro-cyclization of acety-
lene derivativesPERIODICAL: Zhurnal obshchey khimii v. 31, no. 10, 1961,
3206-3214

TEXT: The present work is a continuation of earlier studies, in which the authors showed the possibility of synthesizing poly-cyclic, aromatic hydrocarbons by dehydrocyclization of acetylenic glycols and their products of hydrogenation and dehydration. The main purpose of this work was to synthesize tri- and tetracyclic condensed aromatic compounds containing five membered rings, especially 1,2 - cyclophenonaphthalene (I), 1,2 - cyclopheneno- $\Delta^{2'3'}$ - naphthalene (II), 1,2 - cyclopentanophenanthrene (III), 1,2 - cyclopentano - $\Delta^{1'2'}$ - (or $\Delta^{2'3'}$) - phenanthrene (IV), and chrysene (V). 1,2 - cyclopentanonaphthalene (I) and 1,2 -
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Unsaturated hydrocarbons ...

27903
S/079/61/031/010/003/010
D227/D302

cyclopentano-naphthalene were prepared from ethynylcyclohexonal and cyclopentanone by the Iotsich condensation followed by dehydration of product IV, as shown by the scheme in the presence of dilute sulphuric acid, and dehydrocyclization of compound VII on an aluminum-chromium catalyst promoted with magnesium oxide. Acetylenic glycol (VI) was perhydrogenated to 1-(1'-hydroxy cyclohexyl)-2-(1'-hydroxycyclopentyl)- ethane (VIII) which on dehydration with HCl in benzene gave 2-spiro-cyclohexyl-5-spiro-cyclopentyltetra-hydrofuran (IX). The latter on dehydrocyclization gave a mixture of (I) and (II), whose composition was determined by analysis, molecular weight and infrared spectrography. The synthesis of cyclopentanophenanthrene (III) and cyclopentano-phenanthrene (IV) is of great interest as both these compounds have a steroidal hormone structure. The method of preparation is shown by Scheme 2, the stages being similar to the previous synthesis. Chrysene (V) was obtained in a similar manner starting from α - tetralone and 1 - ethynyl-cyclohexanol - 1. Compounds similar to those synthesized in the present work have recently

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Unsaturated hydrocarbons ...

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become important in studies of semi-conductive catalysis. Experimental procedure: The Iotsich condensation was carried out by slow addition of an acetylenic compound (ethynylcyclohexanol) to a solution of ethylmagnesium bromide in ether followed by addition of cyclopentanone. After stirring for some hours (in the case of α -tetralone for 3 days) and standing overnight the reaction mass was decomposed with 1:1 HCl and the ethereal layer washed to neutral reaction, dried over KOH and distilled. The diol (VI) obtained was then heated with 40% H_2SO_4 cooled and extracted with ether. Distillation of the solution gave compound VII. Diol (VI) was hydrogenated in the usual manner using a skeletal nickel catalyst. The isolated product (VIII) had a mpt. of 97.5-98°C. Dehydration of this diol (VIII) was conducted in benzene by passing in dry HCl until an aqueous layer was formed. Washing with $NaHCO_3$, drying and distillation yielded the furan derivative (IX) which was subsequently aromatized by passing its benzene solution over an $MgO.Cr_2O_3.Al_2O_3$ (2:18:80) catalyst. Distillation and recrystallization of the product gave compounds

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Unsaturated hydrocarbons ...

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I and II m.pts. 110-110.5°C and 111.5-112.5°C respectively. Similarly, aromatization of VII under analogous conditions yielded compounds I and II. Synthesis of other compounds involved exactly the same procedure using the specified starting materials. There are 6 figures, 1 table and 11 references: 5 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to English-language publications read as follows: R.A. Friedel, M. Orchin. Ultra-violet spectra of aromatic compounds. Chapman-Hall, London 1951; C.F. Koelsch, R. A. Scheiderbauer, J. Am. Chem. Soc. 65, 2311 (1943); P.S. Pinkney, G. A. Nesty, R.H. Willey, C.S. Marvel, J. Am. Chem. Soc. 58, 972 (1936); Pinkney, Marvel, J. Am. Chem. Soc. 59, 669 (1937).

ASSOCIATION: Institut khimii vostochno-sibirskogo filiala Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Chemistry Eastern Siberian Branch, Siberian Division of the Academy of Sciences USSR)

SUBMITTED: October 4, 1960

Card 4/6

ZANINA, A.S.; KOTLYAREVSKIY, I.L.

Synthesis of pseudocumene and prehnitene from acetylene derivatives.
Trudy Vost.-Sib.fil.AN SSSR no.38:1/2-148 '61. (MIRA 15:4)
(Benzene) (Acetylene)

L 16113-55 EPA(s)-2/SMP(z)/SPY(c)/SMP(1)/T Pa-4/Pr-4/Pa-10 RAD/11

ACCESSION NR: AP4045835

S/0062/63/000/012/2197/2201

AUTHOR Kotlyarevskiy, L. L.; Zanna, A. S.; Shergina, S. I.

TITLE: Highly unsaturated polymers. Report No. 8. Synthesis and polycondensation of 1,4'-diethinyldiphenylmethane and 1,2-bis-(4'-ethynylphenyl)ethane

SPURNOVO O. SSSR. Izv. sovetsk. khim. no. 12, 1963, 2197-2201

TOPIC TAGS: polymer, unsaturated polymer, triple C≡C bond, polycondensation, oxidizing polycondensation, infrared spectrum, diacetylene link, polymer backbone, substitution, condensation, dehydrohalogenation, dehydrocoupling

Abstract: The synthesis and properties of highly unsaturated polymers containing triple bonds and their relation to the particular polymer structure in such compounds

pyridine solvent. The i.r. spectra of both monomers and polymers showed the triple

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L 16113-65

ACCESSION NR: AP4045835

2

C=C bond band (doublet) and 1, 4 substitution at the benzene ring. Neither polymer gave the EPR signal, both discolored around 300. Their electrophysical properties are described. A scheme of the synthesis is presented.

Orig. art. has: 10 formulas.

ASSOCIATION: Institut Khimicheskoy Fiziki i Goreniya SO Akademii nauk SSSR

SUBMITTED: 1966

ENCL: 00

SUB CODE: GC, OC

NO REF SOV: 007

OTHER: 003

Card 2/2

ZANINA, A.S.; SHERGINA, S.I.; KOTLYAREVSKIY, I.L.

Production of p-xylene during aromatization of furans. Zhur. 3, (MIRA 16:5)
prikl.khim. 36 no.1:203-208 Ja '63.
(Xylene) (Furan) (Aromatization)

SHERGINA, S.I.; ZANINA, A.S.; TROTSENKO, Z.P.; KOTLYAREVSKIY, I.L.

Chemical properties of diethynlarenes. Izv. AN SSSR. Ser. khim.
no.3:574-578. '65. (MIRA 18:5)

1. Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya
AN SSSR.

L 11245-66 EWT(m)/EWP(1)/T RM

ACC NR: AP6002105

SOURCE CODE: UR/0062/65/000/011/2077/2079

AUTHOR: ^{44 55} Kotlyarevskiy, I. L.; ^{44 55} Zanina, A. S.; ^{44 55} Shergina, S. I.; ^{44 55} Kushta, V. G. ⁵⁰

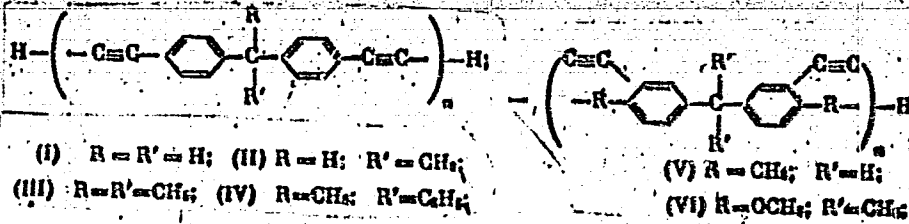
ORG: ^{44 55} Institute of Chemical Kinetics and Combustion of the Siberian Department of the Academy of Sciences SSSR (Institut khimicheskoy kinetiki i goraniya Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: ¹⁵ Electrophysical properties of certain polyethynylpolyarenes ^{1.4.55}

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 11, 1965, 2077-2079

TOPIC TAGS: organic semiconductor, semiconducting polymer, pyrolysis

ABSTRACT: A study has been made of the electrical conductivity, its temperature dependence, and conduction type of polyethynylpolyarene oligomers I to X and of the pyropolymers produced by heat treatment of these oligomers at 300, 400, and 500C.

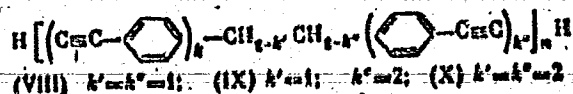
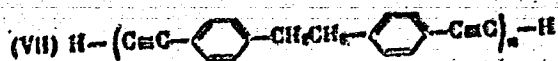


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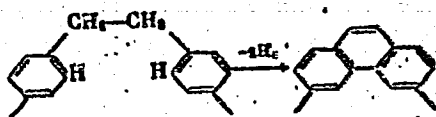
UDC: 537.311+541.6+547.362

L 13245-66

ACC-NR: AP6002105



All the polymers were p-type. All of compounds I to II, when heat treated up to 300C, remained typical dielectrics at room temperature. Activation energy for conduction increased with the degree of branching. After heat treatment of I to VI to 400C and especially to 500C, properties typical of semiconductors appeared owing to the formation via triple bonds of three-dimensional cross-linked structures. However, even in this case, the conductivity of I to VI did not exceed 10^{-7} to 10^{-11} mho/cm owing to breaks in their conjugated systems. In contrast, oligomer VII, after heat treatment at 500C, irreversibly acquired a high conductivity (10^{-4} mho/cm) at an activation energy of 0.1 ev, a thermoelectric power of 37 $\mu\text{V}/\text{C}$, and a nonlinear volt-ampere characteristic. The typical semiconducting properties of VII heat treated at 500C were attributed to cyclization:



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L 11245-66

ACC NR: AP6002105

Of oligomers VIII to X, γ has the most interesting properties (conductivity of the 500C pyropolymer, 10^{-4} mho/cm). It is concluded that preparative efforts aimed at obtaining polyethynylpolyarenes with predetermined properties (good solubility and conductivity) should be directed toward the synthesis of oligomers similar to VII and having substituents in the methylene bridge. Orig. art. has: 1 table and 1 figure. 0

[SM]

SUB CODE: 11, 20/ SUBM DATE: 04Mar65/ ORIG REF: 003/ ATD PRESS: 4193

OC
Card 3/3

L 11,706-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6002106

SOURCE CODE: UR/0062/65/000/011/2079/2081

AUTHORS: Shergina, S. I.; Kotlyarevskiy, I. L.; Zanina, A. S.

ORG: Institute for Chemical Kinetics and Combustion, Siberian Branch of the Academy of Sciences, SSSR (Institut khimicheskoy kinetiki i gorennya, Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Polyacetylene compounds, derivatives of di-, tri-, and tetraphenylethylene

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 11, 1965, 2079-2081

TOPIC TAGS: polymer, organic chemistry, conjugated polymer, organic synthesis process, acetylene

ABSTRACT: To extend the investigations of the authors (Izv. AN SSSR. Ser. khim. 1963, 2197) and in particular to study the properties of conjugated polymers, the following polyacetylene monomers were synthesized: 4,4'-diethynylstilbene I, 1,1,2-tris-(p-ethynylphenyl)ethylene II, and 1,1,2,2-tetrakis-(p-ethynylphenyl)ethylene III. The initial stages of the synthesis consist of the acetylation of a hydrocarbon which contains a double bond between phenyl nuclei. A reaction scheme for the synthesis is presented. Oxidative polycondensation of the monomers I, II, and III in presence of cuprous chloride yielded the corresponding oligomers. The latter gave a narrow intensive EPR signal of $\approx 10^{18}$ unpaired spins per gram and had an electrical

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UDC: 542.91+547.362

L 14706-66

ACC NR: AP6002106

resistance of $\approx 10^{14}$ ohm cm. The yields, melting points, and IR absorption of the $C \equiv C$ and $\equiv C - H$ bonds for the synthesized monomers are listed. Orig. art. has: 3 equations.

SUB CODE: 07/ SUBM DATE: 04Mar65/ ORIG REF: 001/ OTH REF: 001

BVK
Card 2/2

L 24298-66 EWT(m)/EMP(j)/T RM

ACC NR: AP6009801

SOURCE CODE: UR/0062/66/000/002/0358/0360

AUTHOR: Kotlyarevskiy, I. L.; Shergina, S. I.; Zenina, A. S. 40
39
BORG: Institute of Chemical Kinetics and Combustion, Siberian Department
of the Academy of Sciences, SSSR (Institut Khimicheskoy kinetiki i
goreniya Sibirskogo otdeleniya Akademii nauk SSSR)TITLE: Preparation of diacetylene derivatives of 1,2-diphenylethane
and 1,4-diphenylbutaneSOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966,
358-360TOPIC TAGS: aromatic hydrocarbon, alkyl benzene, polycondensation,
polymer, solubilityABSTRACT: The effect of substituents in the ethylene bridge of
4,4'-diethynyldiphenylethane-1,2 (I) on the solubility of polymers
obtained by oxidative polycondensation of the corresponding monomers was
investigated. α , β -dimethyldibenzyl and analogous compounds with methyl,
ethyl and n-propyl substituents on the dimethyl group were acetylated,
chlorinated and treated with PCl_5 and $NaNH_2$ to form the corresponding
diacetylenic derivatives of I. Increasing the size of the substituent

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UDC: 542.91+547.362 2

L 24298-66

ASC NR: AP6009801

increased the solubility of the polymersⁿ formed by heating the monomers in pyridine in the presence of oxygen and cuprous chloride: a 10% colloidal solution in cyclohexane of the polymer was obtained from the monomer in which the dimethyl had n-propyl substituents. However, the polymer obtained from 1,4-bis(4'-ethynylphenyl)butane was insoluble. Orig. art. has: 2 tables and 2 figures.

SUB CODE: 07/ SUBM DATE: 05Jul65/ OTH REF: 002

Card 2/2 FV

L 28441-66 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6017878

SOURCE CODE: UR/0062/66/000/005/0902/1908

AUTHOR: Kotlyarevskiy, I. L.; Zanina, A. S.; Shergina, S. I.; Loboda, L. I.ORG: Institute of Chemical Kinetics and Combustion, Siberian Department, Academy of Sciences SSSR (Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya Akademii nauk SSSR)TITLE: Highly unsaturated polymers. Communication 16. Polyacetylene compounds, derivatives of di-, tri-phenylmethane and diphenylethane

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1966, 902-908

TOPIC TAGS: organic semiconductor, semiconducting polymer, heat resistant polymer, polyacetylene, polyarylene, oligomer

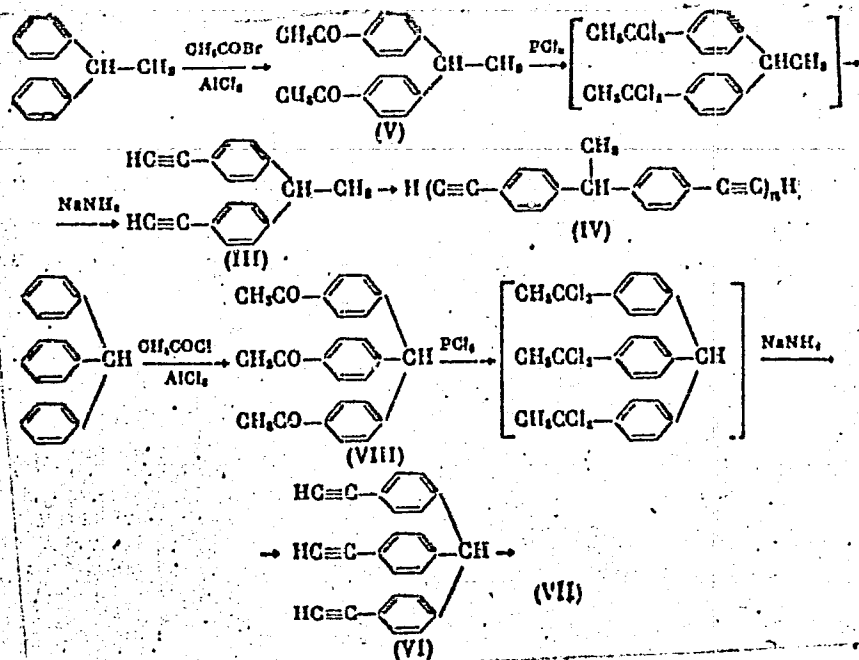
ABSTRACT: New highly unsaturated oligomers IV and VII (see below) having alternating arylene and diacetylene groups in the backbone were prepared which combine high heat resistance and solubility in some organic solvents. It is noted that such oligomers are of practical interest, even if their electrical conductivity proves to be low, for such applications as heat resistant dielectrics. Oligomers IV and VII were prepared as follows:

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UDC: 547.362+542.952

L 28441-66

ACC NR: AP6017878



Card 2/3

L 44191-66 EWP(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6013281 (A) SOURCE CODE: UR/0413/66/000/008/0079/0079

57
13

INVENTOR: Kotlyarevskiy, I. L. ; Zanina, A. S. ; Gusenkova, N. M. ; Sokolov, I. Ye. ; Cherepov, Ye. I.

ORG: none

TITLE: Preparation of oligomers. Class 39, No. 180797 [announced by the Institute for Chemical Kinetics and Combustion, Siberian Branch, Academy of Sciences, SSSR (Institut khimicheskoy kinetiki i gorenija Sibirskogo otdeleniya Akademii nauk SSSR)]

SOURCE: Izobreneniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 79

TOPIC TAGS: oligomer, polyarylene, polyacetylene, polycondensation, *heat resistant material, dielectric strength*

ABSTRACT: This Author Certificate introduces a method for preparing an oligomer of the polyarylene polyacetylene series by oxidative polycondensation of diacetylene. To obtain soluble polymer compounds with high heat resistance and dielectric strength, 2, 2-bis-(4' -methoxy-3' -ethynylphenyl)-propane is suggested as the diacetylene. [I.D.]

SUB CODE: 0711/ SUBM DATE: 29Mar65/
Card 1/1 *cur*

L 45725-66 EWT(m)/EWP(j)/I (RM)
ACC NR: AP6024413 (N)

5
SOURCE CODE: UR/0020/66/169/001/0111/0113

AUTHOR: Dulov, A. A.; Slinkin, A. A.; Rubinshtoy, A. M.; Kotlyarevskiy, I. L.;
Shvartsberg, M. S.; Andriyevskiy, V. N.; Zanina, A. S.; Shorgina, S. I. 56
B

ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, Academy of Sciences, SSSR
(Institut organicheskoy khimii Akademii nauk SSSR); Institute of Chemical Kinetics and
Combustion, Siberian Branch, Academy of Sciences, SSSR (Institut khimicheskoy kinetiki
i goreniya Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Influence of disturbance of conjugation on the properties of semiconducting
polymers b

SOURCE: AN SSSR. Doklady, v. 169, no. 1, 1966, 111-113

TOPIC TAGS: semiconducting polymer, conjugated polymer, semiconductor conductivity

ABSTRACT: It has been frequently reported in the literature that the disturbance of conjugation in organic semiconductors as a result of either noncoplanarity of aromatic rings or introduction of aliphatic, oxygen, or sulfur bridges into the conjugated chain lowers the electric characteristics. In the present paper, the intensity of the influence of these different types of conjugation disturbances was compared in a series of polymers of a single class, the polyarylonopolyacetylenes, whose electrical conductivity σ and ESR spectra were measured. The introduction of various groups disturbing the conjugation into the conjugated chain was found to hinder the processes of

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UDC: 541.67

L 45725-66

ACC NR: AP6024413

current transfer. The relative effectiveness of this hindering influence of different groups may change with the flexibility of the molecules, which affects the intermolecular interactions. In particular, the biphenylene grouping, which sharply decreases the electric properties of "linear" structures, does not affect the properties of polymers consisting of more flexible oxygen-containing molecules. It is notable that bridge groups do not appreciably lower the semiconducting properties. The paper was presented by Academician Kazanskiy, B. A., 23Oct65. Orig. art. has: 1 table.

SUB CODE: 07/ SUBM DATE: 23Jul65/ ORIG REF: 014/ OTH REF: 003

Card 2/2 ULR

ZANINA, I.Ye.

Boundary between the Devonian and Carboniferous in the central part
of the Russian Platform. Inform.sbor.VSEGEI no.42:85-90 '61.

(MIRA 15:1)

(Russian Platform--Paleontology, Stratigraphic)

STEPANOV, D.L., prof., red.; ZANINA, I.Ye., red.; MOZALEVSKAYA,
Ye.A., red.; OVECHKIN, N.K., red.[deceased]; RENGARTEN,
V.P., red.; SUBOTINA, N.N., red.

[Problems of the characteristics and forms of the develop-
ment of the organic world; transactions] Voprosy zakono-
mernosti i forma razvitiia organicheskogo mira; trudy. Mo-
skva, Nedra, 1964. 209 p. (MIRA 17:9)

1. Vsesoyuznoye paleontologicheskoye obshchestvo. 7th ses-
siya.

OBUT, A.M., red.; ZANINA, I.Ye., red.; MODZALEVSKAYA, Ye.A., red.;
OVECHKIN, N.K., red.; KENCARTEN, V.P., red.; STEPANOV, D.L.,
red.; SUBBOTINA, N.N., red.; OBUT, A.M., red.; VLASOVA, L.V.,
red. izd-va; GOROKHOVA, T.A., red. izd-va; IVANOVA, A.G.,
tokhn. red.

[Importance of biosphere in geological processes, Problems of
interrelation of paleontology and tectonics; transactions]
Znachenie biosfery v geologicheskikh protsessakh. Voprosy
vzaimosvazi paleontologii i tektoniki; trudy V i VI sessii
Vsesoiuznogo paleontologicheskogo obshchestva. Moskva, Gos-
geoltekhizdat, 1962. 247 p. (MIRA 15:9)

1. Vsesoyuznoye paleontologicheskoye obshchestvo.

(Paleontology) (Geology, Structural)

ZAMINA, T.T.T.
STEPANOV, D.L., professor, redaktor; ZAMINA, I.Ya., redaktor; MOZALINVSKEYA,
Ye.A., redaktor; OVECHKIN, H.K., redaktor; RENCARTEN, V.P., redaktor;
SUBBOTINA, H.M., redaktor; GOROKHOVA, T.A., redaktor izdatel'stva;
GUROVA, O.A., tekhnicheskii redaktor

[Problems in paleobiogeography and biostratigraphy; proceedings of
the 1st session of the All-Union Paleontological Society (January
24-28, 1955)] Voprosy paleobiogeografii i biostratigrafii; trudy
I seshii Obshchestva (24-28 yanvaria 1955 g.). Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po zeml. i okhrene nedr, 1957. 209 s. (MIRA 10:10)

1. Vsesoyuznoye paleontologicheskoye obshchestvo
(Paleontology)

TRIZNA, Valentina Borisovna; ZANINA, I.Ye., red.; RAGINA, G.M., vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Early Carboniferous polyzoans of the Kuznetsk Basin] Rannekamen-nougol'nye mshanki Kuznetskoi kotloviny. Leningrad, Gos.nauchno-tekhn.izd-vo nef't.i gornotoplivnoi lit-ry. Leningr.otd-nie, 1958. 298 p. (Leningrad. Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.122). (MIRA 14:8)
(Kuznetsk Basin--Polyzoa, Fossil)

APPROVED FOR RELEASE: 09/19/2001. CIA-RDP86-00513R001963810004-9

SOVAGUEY red. OVECHKIN, N.K., red.; RENGARTEN, V.P., red.; SUBBOTINA, N.N., red.; ABKEVICH, P.L., red. izd-va; IVANOVA, A.G., tekhn. red.

[Fortieth anniversary of Soviet paleontology, 1917-1957. Transaction of the 4th session of the All-Union Paleontological Society] Sorok let sovetskoi paleologii 1917-1957; trudy IV sessii Vsesoiuznogo paleontologicheskogo obshchestva. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geologii i okhrane nedr, 1961. 209 p. (MIRA 14:8)

1. Vsesoyuznoye paleontologicheskoye obshchestvo.
(Paleontology)

MALYAVKINA, Valentina Semenovna; ZANINA, I.Ye., red.; RUSAKOVA, L.Ya.,
vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Spores and pollens of the Lower Cretaceous in the eastern part of
the Gobi] Spory i pyl'tsa nizhnego mala Vostochno-Gobiiskoi depressii.
Leningrad, Gostoptekhizdat, 1958. 131 p. (Leningrad. Vsesoluznyi
neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut.
Trudy, no.119). (MIRA 16:8)

(Gobi--Palynology)

POLENOVA, Yelena Nikolayevna; ZANINA, I.Ye., nauchnyy red.; DAYEV, G.A.,
vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Devonian ostracods of the Kuznetsk and Minusinsk Basins] Devonskie
ostrakody Kuznetskogo basseina i Minusinskoj kotloviny. Leningrad.
Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi
institut. Trudy, no.152). (MIRA 16:8)

(Kuznetsk Basin--Ostracoda, Fossil)
(Minusinsk Basin--Ostracoda, Fossil)

ABUSHIK, A.F.; ZANINA, I.Ye., red.; VERSTAK, G.V., red. izd-va;
IVANOVA, A.G., tekhn. red.

[Silurian ostracods of the Siberian Platform] Siluriiskie
ostrakody Sibirskoi platformy. Moskva, Gos. nauchn. tekhn. izd-
vo lit-ry po geologii i okhrane neдр, 1960. 131 p. (Leningrad.
Vsesoiuznyi geologicheskii institut. Trudy, vo. 39)

(MIRA 14:2)

(Siberian Platform--Ostracoda, Fossil)

ZANINA, I.Ye.

New late Devonian ostracods from central regions of the Russian Plat-
form. Paleont.zhur. no.3:77-89 '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.
(Russian Platform--Ostracoda, Fossil)

MAEKOVSKIY, B.P., *otv.red.*; ZANINA, I.Ye., *red.*; KIPARISOVA, L.D., *red.*;
MIKLUKHO-MAKLAY, K.V., *red.*; POKROVSKAYA, I.M., *red.*; RADCHENKO,
G.P., *red.*; ROSSOVA, S.M., *red.izd-va*; GUROVA, G.A., *tekhn.red.*

[New species of ancient plants and invertebrates of the U.S.S.R.]
Novye vidy drevnikh rastenii i bespozvonochnykh SSSR. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane neдр. Pt.1.
1960. 611 p. (MIRA 13:12)

1. Leningrad. Vsesoyuznyy geologicheskii institut.
(Paleontology)

MARKOVSKIY, B.P., otv.red.; ZANINA, I.Ye., red.; KIPARISOVA, L.D., red.;
MIKLUKHO-MAKLAY, K.V., red.; POKROVSKAYA, I.M., red.; RADCHENKO,
G.P., red.; GOROKHOVA, T.A., red.izd-va; GUROVA, O.A., tekhn.red.

[New species of ancient plants and invertebrates of the U.S.S.R.]
Novye vidy drevnikh rastenii i bespozvonochnykh SSSR. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane neдр. Pt.2.
1960. 521 p. (MIRA 13:10)

1. Leningrad. Vsesoyuznyy geologicheskii institut.
(Invertebrates, Fossil)

STEPANOV, D.L., prof., nauchnyy red.; ZANINA, I.Ye., red.; MODZALEVSKAYA, Ye.A., red.; OVECHKIN, N.K., red.; RENGARTEN, V.P., red.; SUBBOTINA, N.N., red.; ABKEVICH, P.L., red.izd-va; IVAKOVA, A.G., tekhn.red.

[Problems in the biostratigraphy of continental formations; transactions of the third session of the All-Union Paleontological Society, Jan.24-29, 1957] Voprosy biostratigrafii kontinental'nykh tolshch; trudy III sessii Vsesoyuznogo paleontologicheskogo obshchestva, 24-29 yanvaria 1957 g. Moskva, Gos. nauchno-tekhn.izd-vo lit. po geologii i okhrane nedr, 1959. 243 p. (MIRA 12:10)

1. Vsesoyuznoye paleontologicheskoye obshchestvo. (Paleontology, Stratigraphic)

ZAHINA, I.Ye.

Ostracoda of the Visean stage in the Moscow Basin. Trudy VNIIGRI no. 98:
185-309 '56. (MLRA 10:4)
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STEPANOV, D.L., prof., red.; ZANINA, I.Ye., red.; MODZALEVSKAYA, Ye.A.,
red.; OVECHKIN, N.K., red.; HENGARTEN, V.P., red.; SUBBOTINA,
N.N., red.; GOROKHOVA, T.A., red.izd-va; IVANOVA, A.G., tekhn.red.

[Problems in paleobiology and biostratigraphy; transactions of the
2d session of the All-Union Paleontological Society] Voprosy paleo-
biologii i biostratigrafii; trudy II sessii Vsesoiuznogo paleontolo-
gicheskogo obshchestva. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po
geol. i okhrane nedr, 1959. 270 p. (MIRA 13:4)

1. Vsesoyuznoye paleontologicheskoye obshchestvo.
(Paleontology--Congresses)

DUNAYEVA, A.V.; ZANINA, M.S.; TSYGANOVA, A.M.

Studying spatial variations in the characteristics of the snow
cover. Trudy GG) no.108:19-25 '60. (MIRA 13:11)
(Snow surveys)

22 A-N-N-A, M.S.

SOV/2002
SOV/2002-76

PLUSE I SOOK KLEPENTITS

Leningrad. Glavnaya geofizicheskaya observatoriya

Voprosy metodiki meteorologicheskikh nablyudeniy i nablyumeniya v Antarktike. (Problems of Meteorological Observation Methods and of Observations in Ant- arctic) Leningrad, Gidrometeoizdat, 1979. 153 p. (Earlier: 1981 issue, VPr. 96) Errata slip inserted. 1,200 copies printed.

Sponsoring Agency: U.S.S.R. Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovetskom Ministre.

Ed. (Title page): Z.I. Pivovarov, Candidate of Geographical Sciences

Ed. (inside book): Prof. Usakov; Tech. Ed.: N.V. Volkov.

PURPOSE: This publication is intended for meteorologists working in offices of the hydrometeorological service and in hydrometeorological stations.

COVERAGE: This is a symposium of 11 articles, published as No. 96 of the Tran- sactions of the Main Geophysical Observatory (Novi A.P. 1979/80). Several articles are devoted to special features in the distribution of meteorological elements and the radiation condition in the USSR and in Antarctica. Other articles analyze methods of meteorological and automatic observations and the processing of their results. References are given at the end of each article.

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PUBLISHED: Library of Congress.

DUNAYEVA, A.V.; ZANINA, M.S.

Technique of calculating the predictability of the appearance of
the snow cover. Trudy GGO no.113:51-56 '60. (MIRA 14:3)
(Snow)

SHAPIRO, I.S., inzh.; SEREDKIN, L.N., tekhn.; ZANINA, N.K., inzh.; SHAROVA,
N.I., inzh.

Electrodes for the air-arc cutting of metals. Svar. proizv.
no.8:20-22 Ag '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut avtogennoy
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Vsesoyuznogo nauchno-issledovatel'skogo instituta elektromekhaniki
(for Zanina, Sharova).
(Electric metal cutting) (Electrodes)

21

CA

... in its industrial applications as a fuel for furnaces. Ubaldo Zanini (Società Idrocarburi nazl., Florence, Italy). *Terminologia* 2, 387-78(1948).—Tech. data are given. Applications other than as a fuel are reviewed.
C. Scandura

1951

ZANINA, Ye.N.; KALININ, O.M.; FALEVA, T.A.

Theoretical information coefficient of correlations and
its use in the statistical analysis of anthropometric data.
Prim. mat. metod. v biol. no.2:107-109 '63.

(MIRA 16:11)

ZANINA, YE. N. (Leningrad)

"Information-Theory Correlation Factor and Its Use in Statistical Processing
of Anthropometric Data"

Report presented at the 3rd Conference on the use of Mathematics in Biology,
Leningrad University, 23-28 Jan. 1961.

(Primeneniye matematicheskikh Metodov v Biologii. II, Leningrad, 1963 pp 5-11)

FEDOROVA, L.M.; ZANINA, Ye.P.; KORNEYENKO, V.P.

Simultaneous determination of gases in metals by emission spectroscopy. Zav. lab. 31 no.11:1347 '65.

(MIRA 19:1)

1. Tsentral'nyy nauchno-issledovatel'skiy inatitut chernoy metallurgii imeni Bardina.

ZANINA, Z.I.

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Rushan District of the Western Pamir. Med.paraz.i paraz.bol. 26
no.6:721-732 N-D '57. (MIRA 13:4)

1. Iz Instituta zoologii i parazitologii imeni akad. Ye.N. Pavlov-
skogo Akademii nauk Tadzhikskoy SSR.
(RUSHAN DISTRICT--MOSQUITOES)

ZANINA, Z. L.: Master Biol Sci (diss) -- "Biological aspects of Anopheles
superpictus Gr. and A. bifurcatus L. under the conditions of Rughanskly Rayon,
western Pamir". Leningrad, 1958. 20 pp (Zoological Inst Acad Sci USSR,
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Biological characteristics of the forest malaria mosquito
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(Western Pamirs) [with summary in English]. Ent.oboz. 37
no.4:856-868 '58. (MIRA 11:12)

1. Institut zoologii i parazitologii Akademii nauk Tadzh.SSR,
Stalinabad.

(Rushan District--Mosquitoes)

ZANINA, Z.L.

Survey of the ecology and species of blood-sucking mosquitoes
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69-77 '58. (MIRA 13:5)

1. Institut zoologii i parazitologii AN Tadzhikskoy SSR.
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ZANINA, Z.L.

Effect of specific conditions in the western Pamirs on the distribution, numbers and period of development of malaria mosquitoes. Izv.Otd.est.nauk AN Tadsh.SSR no.2:3-16
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1. Institut zoologii i parazitologii AN Tadzhikskoy SSR.
(Pamirs--Mosquitoes)

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Principal factors in the biology of malaria vectors in the western Pamirs. Dokl.AN Tadzh.SSR 2 no.1:57-61 '59.
(MIRA 13:4)

1. Institut zoologii i parazitologii AN Tadzhikskoy SSR.
Predstavleno chlanom-korrespondentom AN Tadzhiskoy SSR M.N.
Narzikulovym.
(Pamirs--Mosquitoes as carriers of diseases)

ZANINA, Z.L.

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(MIRA 17:11)

1. Institut zoologii i parazitologii imeni akademika Pavlovskogo AN Tadzhikskoy SSR.

KRYLOV, M.V.; ZANINA, Z.L.

Smithia tadzhikistanica sp.n. from the red-tailed gerbil *Meriones erythrorus* Gray, 1842. Trudy Inst. zool. i paraz. AN Tadzh. SSR. 24:169-170 '63. (MIRA 17:11)

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Hrv 12 no. 9/10: 298-299 '63.

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ZANIS, I.V., insh.

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Coiling flanges on pipe-bending machines. Mashinostroitel' no.11:25-26
N '59. (MIRA 1313)

(Flanges) (Machine-shop practice)

ZANIS, I.V.

Attachment for machining shaped surfaces on lathes. 'Machinostroitel'
no. 2:29 F '61. (TR. 14:2)

(Lathes--Attachments)

ZANIS, I.V.

Dies for forming along the radius. Mashinostroitel' no.10:25 O '63.
(MIRA 16:12)

ZANIS, I.V.

Efficient use of waste products. Mashinostroitel' no.3:25 Mr
'64. (MIRA 17:4)

ZANIS, I.V.

Dies for forming stuffing boxes without waste. Mashinostroitel'
no.11:12 N '61. (MIRA 14:11)
(Dies (Metalworking))

ZANIS, I.V.

Bladed die for cutting washers. Mashinostroitel' no.1:26 Ja '63.
(MIRA 16:2)

(Cutting machines)

ZANIS, I.V.

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no.5:32 My '63. (MIRA 16:7)

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Die for trimming rivets. Mashinostroitel' no.10:22 0 '62.
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С.А.С., I.V.

Changes in the design of rollers. *Изобретения, патенты. № 2:*
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~~1927, Bratislava, MUDr.~~

Experiences with hydroviscous contrast medium in hysterosalpingography (HSA).
[Slov. lek. čas. 2 (1966) no. 5:363-366 June 67.]

1. Gyn-portal klinika VHA v Hradci Kralove, prednosta univ. MUDr. Josef Pazourek.

(HYSTEROSALPINGOGRAPHY)

use of hydroviscous contrast media (Ca)

(CONTRAST MEDIA)

HYDROVISCOUS, use in hysterosalpingography (Ca)

ZANK, Kalman

Experiences in the use of the Benoto drilling installation. Magyar
ipar 10 no.6:284-285 '61.

ZANKA, N. I.; NEMETS, O. F.; TOKAREVSKIY, V. V.

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Inst Physics, AS UkSSR

ZANKAY; TANCZOS

Color television in the service of surgery. Radiotechnika
11 no.11:336-337 N '61.

ZANKHOYEV, G.F., gornyy inzh.

Using charges with air spaces in large-scale draw blasting.
Vzryv. delo no.54/11:295-299 '64. (MIRA 17:9)

1. Trest Mamslyuda, Mamsko-Chuyskiy rayon, Irkutskoy oblasti.

ZANKIEWICZ, Alla

Casustics of orbital traumas inflicted by wood. Klin. oczna
27 no.2:181-185 1957.

1. Z Kliniki Okulistycznej A.M. w Białymstoku Kierownik: doc.
dr. med. M. Dymitrowska. Białystok, ul. Majowa 1 m. 1.

(ORBIT, wds. & inj.

wood inflicted inj. in child, surg. (Pol))

ZANKIEWICZ, Alla

Results of the treatment of diseases of the anterior chamber of the eye by means of subconjunctival implantation of preserved amnion. Polski tygod.lek. 15 no.39:1499-1501 26 S '60.

1. Z Kliniki Okulistycznej A.M. w Białymstoku; kierownik: prof.
dr med. Maria Dymitrowska.
(EYE dis)
(AMNION transpl.)

ZANKIEWICZ, W.

Coronary sinus rhythm in esophageal leads. Kardiol. Pol.
7 no.3:221-224 J '64.

1. Z I Oddziału Szpitala Miejskiego i z Pracowni Ekg
Wojewodzkiego Szpitala im. J. Sniadeckiego w Białymstoku
(Kierownik: doc. dr W. Zankiewicz).

ZANKIEWICZ W. III. Szpit. miejsk., Białymstok. Frzelykowe odprowadzenia elektrokardiograficzne w swietle dotychczasowych i wlasnych badan Oesophageal leads in the light of the author's and other researches Polsk. Arch. Med. wewnet. 1953, 23/1 (47-74) Graphs 5 Tables 1 Illus. 4

97 patients and 20 healthy subjects were examined. When carried out correctly the method is safe and can be used in seriously ill patients. Its value in the diagnosis of arrhythmias, paroxysmal tachycardia and infarction of the posterior wall is stressed. The latter can be diagnosed even when standard and precordial leads do not prove its presence. Terminal deflection of the atrial complex (Ta) was observed not only in the cases of A-V dissociation but also in cases with regular sinus rhythm. The U-wave was seen more frequently in the oesophageal than in the standard or precordial leads.

Gibinski - Bytom

SO: EXCERPTA MEDICA, Section VI, Vol. 8, #1, January 1954

ZANKIEWICZ, W.

Electrocardiography in wounds of the cardiac region. Kardiol. Pol. 5
no.2:87-100 '62.

1. Z Pracowni Elektrokardiograficznej Wojewódzkiego Szpitala im.
J. Sniadeckiego w Białymstoku Kierownik: doc. dr W. Zankiewicz.

(HEART wds & inf) (ELECTROCARDIOGRAPHY)

ZANKIEWICZ, W.

Infarction of the atrial wall. Kardiol. Pol. 8 no.3:267-273 '65,

1. Z Pracowni Elektrokardiograficznej Wojewodzkiego Szpitala
im. J. Sniadeckiego w Bialymstoku (Kierownik: doc. dr. W.
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ZANKIEWICZ, Włodzimierz (Białystok, ul. Majowa 1/1 m. 1.)

Electrocardiogram in persons operated on in hypothermia. *Polskie arch. med. wewn.* 28 no.7:999-1018 1958.

1. Z II Kliniki Chirurgicznej A. M. w Białymstoku Kierownik: prof. dr med. T. Jankowski i z Pracowni Elektrokardiograficznej Woj. Szpitala im. J. Śniadeckiego w Białymstoku. Kierownik: doc. dr med. W. Zankiewicz.

(HYPOTHERMIA, eff.

on ECG in surg. patients (Pol))

(ELECTROCARDIOGRAPHY

eff. of hypothermia in surg. patients (Pol))

(SURGERY, OPERATIVE

eff. of hypothermia on ECG in surg. patients (Pol))

ZANKIEWICZ, Wladzimir (Bialystok, ul Majowa 1/1 m. 1.)

Observations and review of Wolff-Parkinson-White syndrome. Polskie arch. med. wewn. 27 no.8:1087-1103 1957.

1. Z I Kliniki Chorob Wewnętrznych A. M. w Białymstoku Kierownik: prof. dr Med. M. Tulczyński i Pracowni Elektrokardiograficznej woj. Szpitala im. J. Śniadeckiego w Białymstoku Kierownik: doc dr med W Zankiewicz.

(HEART BLOCK,

Wolff-Parkinson-White synd. (Pol))

ZANKIEWICZ, Włodzimierz; BORON, Piotr

Therapeutic application of intravenous drip infusions of hyaluronidase in prolonged coronary insufficiency. *Polskie arch.med.wewn.* 30 no.9: 1185-1190 '60.

1. Z I Kliniki Chorob Wewnętrznych A.M. w Białymstoku p.o.
Kierownika Kliniki: doc. dr med. W.Zankiewicz
(HYALURONIDASE ther)
(CORONARY DISEASE ther)

ZANKIEWICZ, Włodzimierz.

Effect of short waves on coronary insufficiency. Polski tygod.lek.
10 no.33:1087-1092 15 Aug '55.

1. Z Oddziału Chorob Wewnętrznych Wojewódzkiego Szpitala im.
J. Sniadeckiego w Białymstoku; dyrektor: dr. Adam Dowgird,
ordynator: dr med. Włodzimierz Zankiewicz. Białystok, ul.
Majowa 1/I, m. 1)

(CORONARY DISEASE, therapy.

short wave)

(DIATHERMY: in various diseases,
short wave, in coronary dis.)

ZANKIN, A. E.

M: Atlas Tipovykh Skham Vozdushno - reaktivnykh: turbo-vintovnykh Dvigatelye
(Atlas of Standard Designs of Jet-Engines and Turbine-Aircrew Engines), Moscow, 1950

Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information
Division, Report No. 106968. Unclassified.

ZANKIN, A.V.

Country : USSR
Category : Brain and spinal Physiology, Nervous System,
Higher Nervous Activity, Behavior.

Doc Jour : Zhurnal, No 10, 1958, 892-8

Author : Gubel', I.D.; Zankin, A.M.; Zankin, M.V.;
Kaplan, N. Y.; Kryshova, E. M.

Title : Alterations in Patients with Brain Injuries.

Orig Pub: Zh. vyssh. nervn. deyat-ost., 1957, 7, No. 4, 255-264

Abstract: In fifty patients with closed injuries of the brain, disappearance of marked excitation of afferents (AI) in the optic, tactile and thermal analysis was observed, which is considered a result of sensitive inhibition. Asymmetry of AI was noted in patients with various degrees of damage of the right

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and left hemispheres. In injuries of the cerebral discharges of AI was observed on the side of the focus, or bi-laterally. Disturbance of AI resulted not only from damage of the corresponding analyzer but also in general cerebral manifestations, conditioned by disturbances of the subcortical and trophical effects of the sympathetic nervous system upon the C.S.F. -- E. H. Zilman

Card : 2/2

ZANKINA, A.M.

Country: USSR
Category: Human and Animal Physiology, Nervous System,
Higher Nervous Activity, Behavior.

The Jour: Medical, No 19, 1968, 8928

Author: Gokbel', L.E.; Zankina, A.M.; Zubina, N.V.;
Egolan, N.Y.; Lyubova, N...

Inst :

Title : Alterations in Patients with Brain Injuries.

Orig Pub: Zh. vyzn. med. dokt-sti, 1977, 7, No 4, 215-228

Abstract: In fifty patients with closed injuries of the brain, disappearance of marked shortening of afference (AI) in the reflex, tactile and thermal analysis was observed, which is considered as a result of sensitive inhibition. Separately, it is noted in patients with various degrees of damage of the right

Card : 1/2

7-101

and left hemispheres. In injuries of the cerebellum discharges of AI was observed on the side of the damage, or bi-laterally. In the case of AI resulted not only from damage of the corresponding analyzer but also in presence of the vegetational tone, conditioned by the damage of the vegetational and trophical centers of the sympathetic nervous system upon the C.S.S. -- E.M. Malina

Card : 2/2

ZANKISOVA, I. G.

USSR / Microbiology. Microorganisms Pathogenic to Humans
and Animals.

F-3

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 33900

Author : Zankisova, I. G.

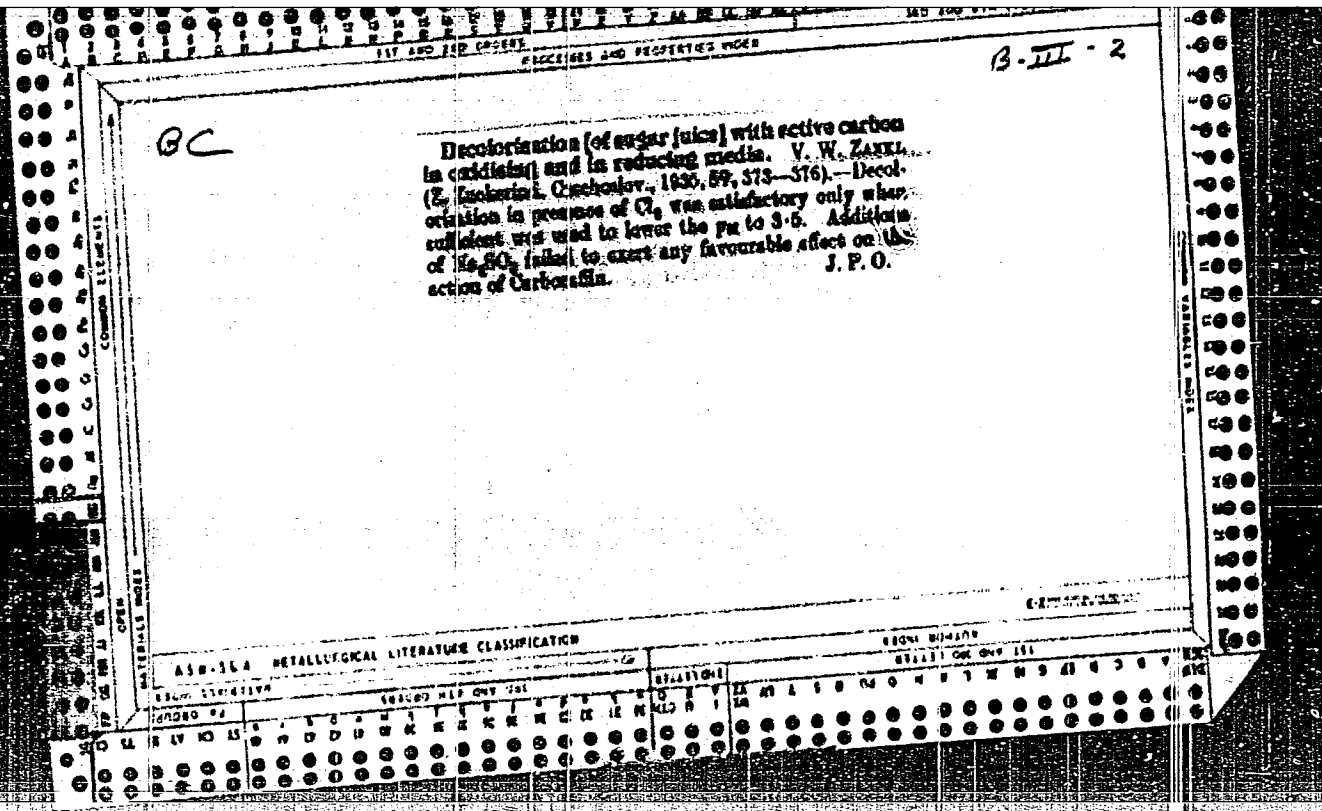
Inst : Not given

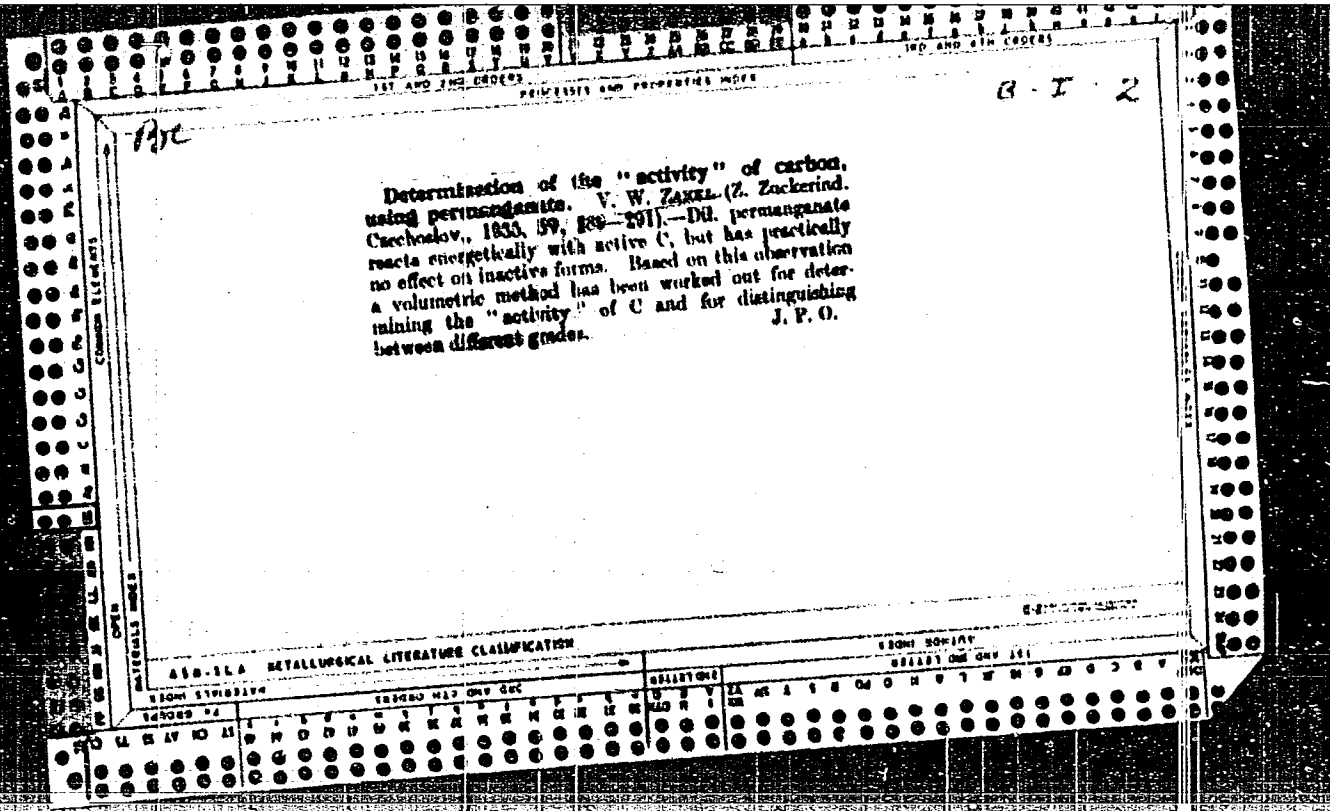
Title : Lung Tuberculomas Developed After Treatment with Anti-
Bacterial and Chemical Preparations.

Orig Pub : Tr. In-ta tuberkuleza. Akad. med. nauk SSSR, 1957, 9,
94-100.

Abstract : No abstract.

Card 1/1





ACQUISITION AND PROPERTY INDEX

73

Decolorizations in oxidizing and reducing media with activated charcoals. V. W. Zankl. *Listy Cukrovar*, 53, 207-208 (1935); *Z. Zuckerind. Technol. Ber.*, 39, 373-4 (1935). -- Carboraffin and norite satd. with 3% anhyd. Cl did not decolorize a 6% molasses soln. any better than the free charcoal. In the air the charcoal released the adsorbed Cl quickly and completely. Only when the charcoal and molasses were kept in a Cl atm. until the p_H fell to 3.5 did the Cl stimulate the charcoal to further adsorption. Carboraffin to which 0.05% Na_2SO_4 had been added showed a decolorizing effect which was equal to the sum of the action of the carbon and salt. Norite was not affected by the Na_2SO_4 addns. In the concn. encountered in technology (0.005%) the Na_2SO_4 did not exert any effect on carboraffin. Addns. of 0.08% MnO_2 increased the adsorption in molasses and methylene blue solns. by 10%. With an adsorption of large quantities of MnO_2 and with a subsequent regeneration with HCl, the carbon failed to regain very much of its original activity; the MnO_2 oxidized the active surfaces of the char and did not enlarge them as expected.

Frank Marsh

METALLURGICAL LITERATURE CLASSIFICATION

CA

An analytical evaluation of the reaction between activated carbons and permanganate. V. W. Zankl. *Listy Cukrovar. 33*, 199-201; *Z. Zuckerind. Technol. Rep. 39*, 289-31 (1935).--The reaction velocity between $KMnO_4$ and activated carbons is very rapid during the first 5 min. of contact. Then it proceeds extremely slowly for several hrs. For detg. the percentage of Mn adsorbed by the carbon, Z. placed 0.2 g. in an Erlenmeyer flask, added 25 cc. 0.5 N $KMnO_4$ soln., and mixed the suspension vigorously for 10 min. The contents of the flask was poured upon an asbestos filter, washed and the Mn detd. in the filtrate by means of iodometric titration. At the same time the molasses no. of the same charcoal was detd. by shaking 0.5 g. of the carbon with 100 cc. of a 5% molasses soln. for 30 min., filtering and detg. the degree of decolorization in the filtrate by means of an objective photocolormeter. Analyses of 20 different brands of activated carbons revealed an adsorption of $KMnO_4$ ranging 0.0-64.3%. Carboraffin, Standard-Norit, Hiagenite, Hiagenite Special and Spodia, gave a direct relation between the Mn

adsorbed and the molasses no. For Supra-norit, Suchar, Aeticarboul and carbons activated according to Ostrejka, the correlation was remote and less apparent. Carbons with the exception of Carboraffin that were deactivated until they failed to adsorb any more molasses also failed to adsorb $KMnO_4$. With carbons falling within the Carboraffin-Spodia series, it was possible to predict the molasses no. from the mg. of $KMnO_4$ adsorbed. Frank Maresh

ZANKL, Vojtech, inz.

Possibility of saving fuel in brick kilns. Energetika Cz 13
no.10:529-531 O '63.

1. Vyvojove pracoviste cihelen G.Klimenta, n.p., Brno.

KOBZEV, V.V.; ZAN'KO, A.A.

Quantitative determination of sodium and potassium chlorides in
their mixtures by the extraction method. Ukr.khim.zhur. 29
no.6:627-631 '63. (MIRA 16:9)

1. L'vovskiy politekhnicheskii institut.
(Alkali metal chlorides)
(Chemistry, Analytical--Quantitative)

ZAN'KO, A.A.; PANTELEYEVA, L.I.

Amperometric determination of magnesium. Trudy Kon. anal. khim. 4:
135-140 '52. (MIRA 11:6)

(Magnesium) (Conductometric analysis)

At 0.2% ...
original was ...
precipitate ...
F2, wash it with ...

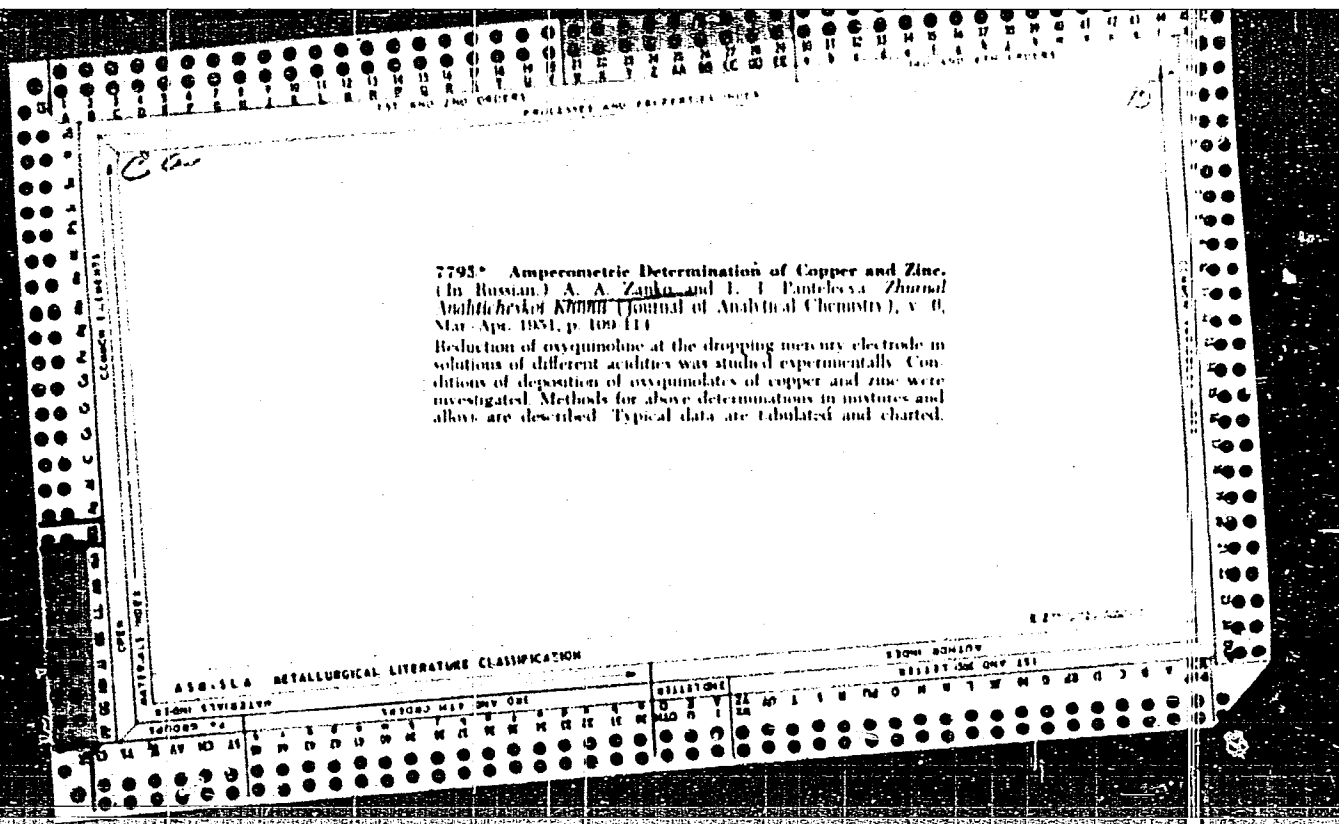
PANTELEVA, LEZAN'KO, AA.

the determination of the ...
of the classical method ...
0.4 to 0.7%

PANTELEYEVA, L.I.; ZAN'KO, A.A.

Rapid method for determining the alkali earth metals in barium
glass. Nauch. zap. LPI no.29:101-108 '55. (MLRA 9:10)

(Glass--Analysis) (Alkali metals--Analysis) (Barium--Analysis)



PROCESSING AND REPRODUCTION NOTES

187 AND 208 CODES
180 AND 47M CODES

187 AND 208 CODES
180 AND 47M CODES

BC

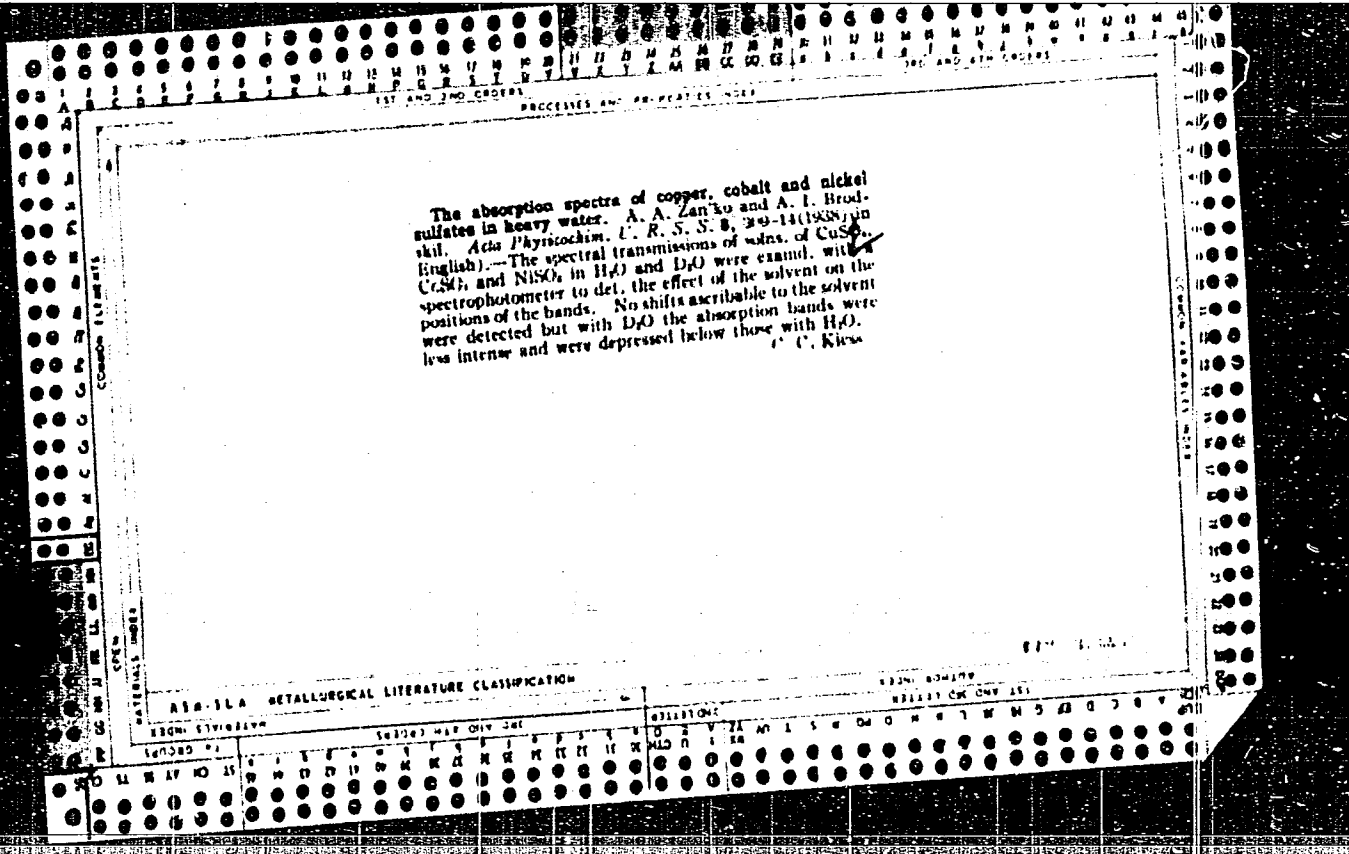
C9

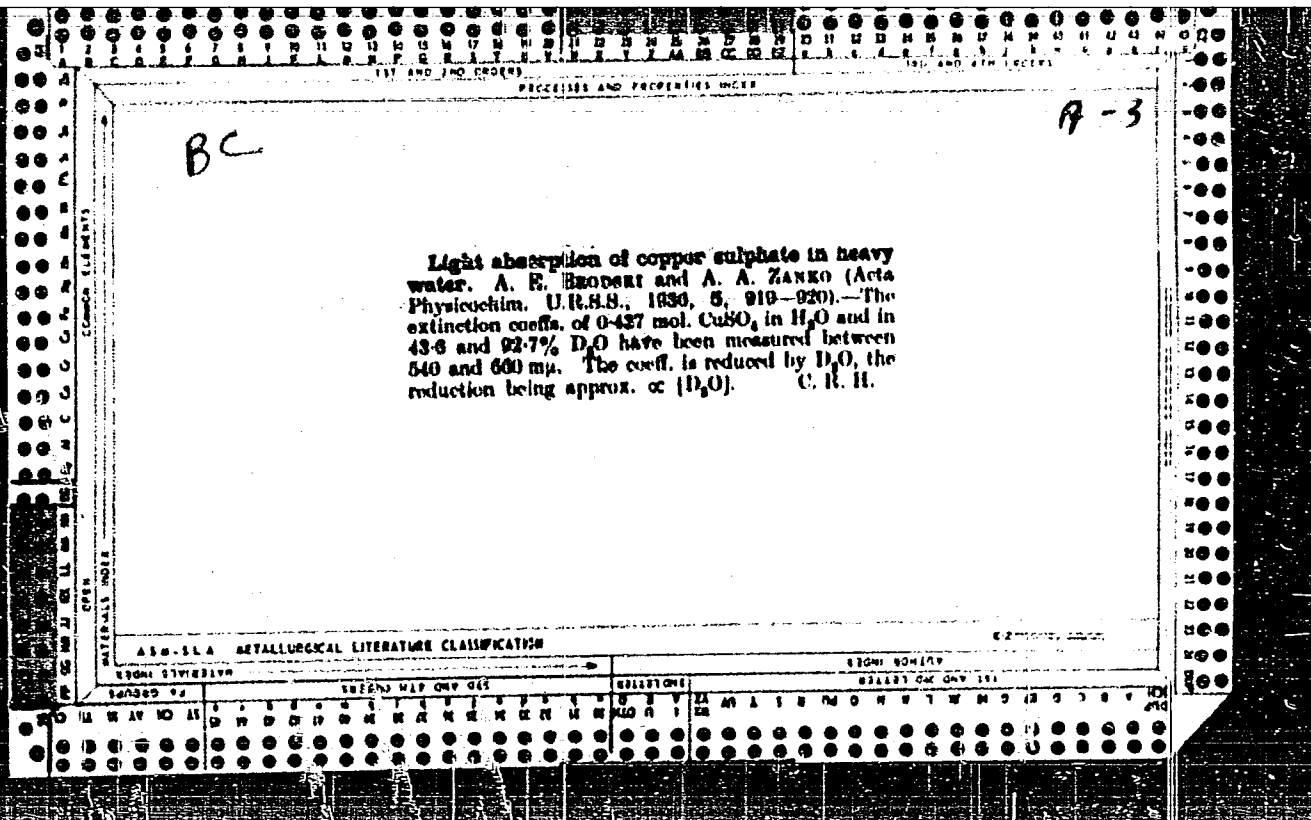
2245. Amperometric determination of copper and zinc. A. A. Zanko and L. I. Panteleeva (*J. anal. Chem., USSR, 1951, 6, 109-110*).—With 8-hydroxyquinoline in a solution buffered with bi-phthalate, pptn. of Cu begins at pH 3.0 and is complete at pH 2.6, and pptn. of Zn begins at 4.8 and is complete at 3.6. Separation of Cu and Zn is satisfactory in triphthalate but not in tartrate or acetate solution. With Cu and Zn mixtures amperometric titration at pH 5.0 in an acetate buffer with 0.05M 8-hydroxyquinoline in acetic acid at -1.32 v. versus 0.1M-Hg electrode gives the total Cu + Zn, and a titration at pH 3.6 in a phthalate buffer at -1.26 v. gives the Cu alone. Fe II present is pptd. in both solutions; the difference in titrations still gives the Zn content, but the result for Cu requires correction for the Fe. Sn does not interfere. For analysis of brass, 20-30 mg. are dissolved in 2 ml. of 6N-HNO₃, and the solution is treated with 1 ml. of conc. HCl and evaporated to dryness on a water-bath. The residue is dissolved in 50 ml. of buffer containing 2 g. of Na acetate and 5 ml. of 10% acetic acid, and titrated with the 8-hydroxyquinoline solution at 15° and -1.32 v., using a dropping Hg electrode, an external anode, and a stirrer. A similar procedure is carried out at -1.26 v. after dissolving the residue in a phthalate buffer at pH 3.6. Errors do not exceed 1 pt. in 100.

G. S. RUITEN.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

RECORD #	SECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	SUBSECTION	





CA

1. Amperometric determination of copper and zinc. A. A. Zan'ko and E. I. Bontcheva (Leningrad Polytech. Inst., U.S.S.R.). *Zh. Anal. Khim.* 6, 109-11 (1951). Cu and Zn present together can be titrated amperometrically with an approx. 0.05 M osmic soln. First, carry out the titration in an acetate buffer soln. at pH 5.0, thereby obtaining the Cu + Zn. Next, titrate in a biphthalate buffer soln. at pH 2.8, thus obtaining Cu content. The difference in the 2 vols. gives the vol. of titrant required for Zn. Fe, when present, will ppt. in both buffers, thus permitting the detn. of Fe + Cu. To det. Cu, appropriate correction should be made. M. Hirsch