

ZORE, M.

The Institute of Oceanography and Fishing in Split; brief survey of works achieved in the Physiographic Section and publications. p. 31.
(GODISNJAK, Yugoslavia, 1955 (published 1956.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

ZORE, Mira; IRIC, Ante; GRAKALIC, Mladen, kapetan fregate; BUZJAN, Miljenko, dr.

Review of conferences and consultations during 1958. Hidrograf.god
1958 (Published 1959):89-100. (KRAI 9:5)

1. Jugoslovenska ratna mornarica (for Grakalic).
(Adriatic Sea) (Yugoslavia--Hydrography)

ZOFE, M.

Gradient currents in the Adriatic Sea. p. 55.
(GODISNJAK, Yugoslavia, 1955 (published 1956.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

ZORE, Mira

Variations of the sea level along our coast and the system of gradient currents in the Adriatic. Hidrograf god 1959:59-65 '60. (EAI 10:6)
(Yugoslavia--Oceanography)

ZOBE, Mira

Appearance of ice on the sea in the Kastel Bay. Hidrograf, god 1958
(Published 1959):261-264. (HEAI 9:5)
(Adriatic Sea) (Yugoslavia--Ice)

KOLESNIKOV, P. A.; PETROCHENKO, Ye.I.; ZORE, S.V.

Interaction of glycolic acid oxidase and polyphenoloxidase.
Fiziol. rast. 6 no.5:598-603 S-O '59. (MIRA 13:2)

I.A.N. Bakh Institute of Biochemistry, U.S.S.R. Academy of Sciences
Moscow.

(Glycolic acid oxidase) (Phenolase) (Plants—Metabolism)

KOLESNIKOV, P.A.; ZORE, S.V.

Anthocyanins and flavones during the oxidation of ascorbic acid in plants. Fiziol. rast. 11 no. 3:522-528 '64.

(MIRA 17:7)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.

KOLESNIKOV, P.A.; ZORE, S.V.

Qualitative changes in the phenol composition of the coleoptiles
of wheat during growth inhibition by light. Fiziol.rast. 9 no.4:
454-460 '62. (MIRA 15:9)

1. A.N.Bakh Biochemistry Institute, U.S.S.R. Academy of Sciences,
Moscow.

(PHENOLS) (PLANTS, EFFECT OF LIGHT ON)

17(3)

AUTHORS: Kolesnikov, P. A., Petrochenko, Ye. I., SOV/20-123-4-44/53
Zore, S. V.

TITLE: Fermentative Reduction of Quinone by Glycolic Acid (Fermentativnoye vosstanovleniye khinona glikolevoy kislotoy)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4,
pp 729-732 (USSR)

ABSTRACT: The first mentioned author has found earlier that glycolic acid accelerates the transformation of p-benzoquinone in centrifuged homogenates of barley leaves (Ref 1). It was assumed that glycolic acid reduces p-benzoquinone in the presence of the oxidase of glycolic acid. Besides these two compounds various phenol derivatives are widespread in green plants which can be oxidized to quinone. Possibly, phenols and quinones are components of respiratory systems (Ref 2). The process mentioned in the title is a hardly explained part of these systems. It was therefore interesting to carry out a detailed investigation of the reduction mechanism. For the production of ferment preparations the small leaves of the

Card 1/3

BOT/20-123-A-44/53

Fermentative Reduction of Quinone by Glycolic Acid
shoots of barley of the type Wiener (Viner) as well as leaves of Trapezond-type tobacco were used. It was found that aqueous yellow solutions of p-benzoquinone remaining at room temperature turn red. This process is accelerated by increasing pH-values; p-benzoquinone is consumed and smaller quantities of oxygen are adsorbed. In the solution hydroquinone can be detected in first approximation in a quantity that is proportional to the intensity of the red coloration and the p-benzoquinone used but not to the quantity of oxygen adsorbed. Besides the transformation of p-benzoquinone into hydroquinones some oxidative processes seem to take place in the aqueous solution, which are not taking part in the mentioned transformation. It was found that some preparations synthesized from the green leaves accelerate the transformation just mentioned. The addition of glycolic acid increases this acceleration (Table 1). Since the red color is considerably decreased by the addition of glycolic acid an inhibition of the formation of the colored compounds by the glycolate must be assumed, which is formed in the spontaneous transformation of p-benzoquinone. The methods of the transformation of p-benzoquinone have not been explained experimentally. Some assumptions mentioned in publications (Ref 2) are given.

Card 2/3

Fermentative Reduction of Quinone by Glycolic Acid

SOV/20-123-4-44/53

The red coloration probably comes from polymerization products. According to the authors' opinion the last mentioned inhibition tends to show that the quinone reduction takes place directly at the expense of the hydrogen of the glycolate and of the oxidation energy of the glycolate. Thus, the stage of the formation of oxy-hydroquinone is avoided. This process is proved by the formation of glyoxylic acid besides hydroquinone (Table 1). It may be seen therefrom that the glycolate accelerates the quinone transformation only by such preparations that contain the oxidase of glycolic acid. This takes place the more rapidly the more active this oxidase is. There are 1 table and 4 references, 2 of which are Soviet.

ASSOCIATION: Institut biokhimii im. A. N. Bakha Akademii nauk SSSR (Institute of Biochemistry imeni A. I. Bakh, Academy of Sciences, USSR)

PRESENTED: July 31, 1958, by A. I. Oparin, Academician

SUBMITTED: July 29, 1958

Card 3/3

KOLESNIKOV, P.A.; PETROCHENKO, Ye.I.; PSHENOVA, K.V.; ZORE, S.V.

Phenol substances of wheat roots as components of oxidative systems.
Biokhimiia 30 no.2:368-374. Mr-Apr '65. (MIRA 18:7)

1. Institut biokhimi i imeni Bakha AN SSSR, Moskva.

KOLESNIKOV, P.A.; ZORE, S.V.

Products of peroxidase oxidation and the photooxidation of ascorbic acid sensitized by riboflavin in the presence of morin. Dokl. AN SSSR 150 no.3:680-683 My '63. (MIRA 16:6)

1. Institut biokhimii im. A.N. Bakha AN SSSR. Predstavleno akademikom A.I. Oparinym.

(Oxidation, Physiological)
(Riboflavin) (Ascorbic acid)

KOLESHNIKOV, P.A.; PETROCHENKO, Ye.I.; ZORE, S.V.

Enzymatic reduction of quinone by glycolic acid. Dokl. AN SSSR
123 no.4:729-732 D '58. (MIRA 11:12)

1. Institut biokhimi imeni A.N.Bakha AN SSSR. Predstavleno
akademikom A.I.Oparinym.
(GLYCOLIC ACID) (REDUCTION, CHEMICAL) (QUINONES)

MOLESNIKOV, P.A. ZORE, S.V.

Anthocyanin formation in wheat shoots induced by visible and
invisible ultraviolet light. Dokl. AN SSSR 112 no.6:1079-1081
P '57. (MLRA 10:5)

1. Institut biokhimi i m. A.N. Bakha Akademii nauk SSSR. Predstavleno
akademikom A.I. Oparinym.
(Anthocyanins) (Ultraviolet rays--Physiological effect)
(Wheat)

KOLESNIKOV, P.A.; ZORE, S.V.

Flavones and peroxidase oxidation of ascorbic acid. *Biokhimiia*
27 no.1:48-54, Ja-F '62. (MIRA 15:5)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R.,
Moscow.

(ASCORBIC ACID) (PEROXIDASES) (FLAVONE)

ZORE, V. A.

USSR/Electronics
Oscillators, Electric
Vacuum Tubes, Triode

Sep 48

"Self-Excitation of a Triode Oscillator with Feedback in the Decimeter Band, "S. D. Gvozdover, V. A. Zore, 12pp

"Zhur Tekh Fiz" Vol XVIII, No 9

Examines self-excitation of a triode oscillator taking account of time of electron flow between cathode and grid of the tube. Gives general formulas for the wave length of the oscillator, conditions of self-excitation, and frequency correction determined by the triode. Illustrates general theory by analysis of self-excitation in the Esau circuit. Submitted 1 Apr 48.

PA 32/49T17

ZORE, V. A.

PA 51/49T31

USSR/Electronics
Vacuum Tubes

MAY 49

ZOBE, V. A.

"Theory of the Tri-Electrode Electronic Generator Oscillator With Feedback." Sub
27 Jun 51, Moscow Order of Lenin State U. inst. M. V. Lomonosov.

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

SO: Sum. No. 480, 3 May 55.

QUEINOV, B.P.; KORE, V.A.; IL'INA, A.A.; SHABAD, L.M.

Content of polycyclic aromatic hydrocarbons in air pollution and in smoke. Gig. sanit., Moskva no. 2:10-16 Feb 1953. (GIML 24:2)

1. Of the Scientific-Research Sanitary Institute imeni N. F. Erisman and of the Laboratory of Oncology of the Institute of Normal and Pathological Morphology of the Academy of Medical Sciences USSR.

BELOZERSKAYA, V.I.; ZORRE, V.A.

Spectral determination of zinc in atmospheric dust. Gig. i san.
no.3:43 Mr '55. (MLRA 8:5)

1. Iz Nauchno-issledovatel'skogo sanitarnogo instituta in. Erismana.
(ZINC)
(SPECTRUM ANALYSIS)
(DUST--ANALYSIS)

ARTSYBYSHEV, Sergey Aleksandrovich; ZORE, V.A., redaktor; GABRIELAND, M.I.
tekhnicheskii redaktor.

[Physics; textbook for medical students] Fizika; uchebnik dlia
studentov-medikov. 6-e izd. Moskva, Gos. izd-vo med. lit-ry,
1965. 375 p. (MLHA 9:1)
(Physics)

ACC NR: AP7006956

SOURCE CODE: UR/0217/67/012/001/0124/0126

AUTHOR: Zore, V. A.; Kimel'fel'd, O. D.; Suzdaleva, V. V.; Kobyzeva, L. P.; Genkina, Ye. S.

ORG: Medical Institute im. I. M. Sechenov, Minzdrava SSSR, Moscow (Meditsinskiy institut Minzdrava SSSR)

TITLE: Complex dielectric permittivity of human blood serum under normal conditions and during some diseases in the 100-500 MHz range

SOURCE: Biofizika, v. 12, no. 1, 1967, 124-126

TOPIC TAGS: microwave, ~~transmission~~, dielectric ^{properties}, blood, human physiology

ABSTRACT: The dielectric permittivity of normal and pathological blood was measured using a bridge, the arms of which were sections of coaxial cables. The measurement error at 200 MHz was 1.5% and at 500 MHz was 3.0%. Table 1 shows some results of a series of tests conducted on blood sera of various donors.

Card 1/4

UDC: none

ACC NR: AP7006956

Table 1. Frequency dependence of the dielectric qualities of various blood sera (23°C)

Blood group	Donor Age	Protein conc, %	100 mhz		200 mhz		300 mhz		400 mhz		500 mhz	
			ϵ_1	ϵ_2	ϵ_1	ϵ_2	ϵ_1	ϵ_2	ϵ_1	ϵ_2	ϵ_1	ϵ_2
I	50	8,45	41,3	222,1	67,7	101,0	---	---	88,7	621,4	---	---
IV	24	8,53	79,2	229,1	68,4	98,1	---	---	67,4	621,3	---	---
III	55	8,25	76,2	205,3	64,7	96,8	50,1	35,4	62,8	47,4	---	---
II	26	8,03	69,3	205,0	60,4	106,1	59,1	51,6	79,2	55,4	70,2	71,2
III	29	7,81	69,3	205,0	60,4	94,4	69,4	62,3	69,8	55,1	69,1	69,3
I	31	8,20	67,4	204,0	67,8	94,0	67,3	73,0	46,4	54,6	66,0	68,2
I	30	8,04	71,3	205,1	72,3	98,0	70,0	61,4	72,2	56,0	---	---
II	44	7,99	72,3	205,0	72,7	90,4	70,7	61,4	70,2	55,0	---	---

Card 2/4

ACC NR: AP7006956

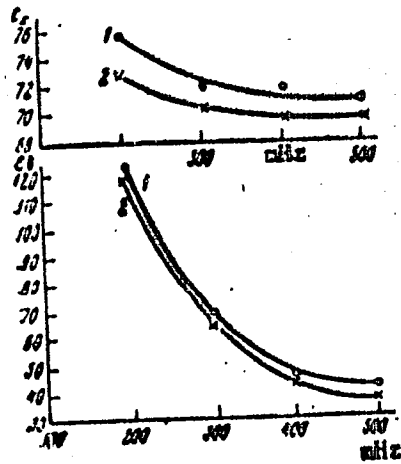


Fig. 1. Frequency dependence of the dielectric qualities (ϵ_x and ϵ_6) of normal blood serum before (1) and after (2) controlled heating to 63°C for 15 min (2.5% protein; 23°C).

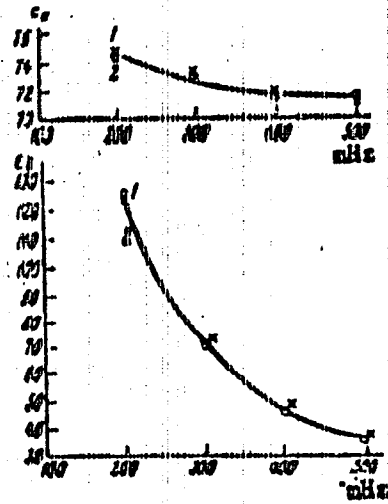


Fig. 2. Frequency dependence of the dielectric qualities of blood from a patient with myeloleukosis before (1) and after (2) heating to 63°C for 15 min (2.5% protein; 23°C).

Card 3/4

ACC NR: AP7006956

Figures 1 and 2 show results of measurements of normal and pathological blood sera. It was concluded that dielectric changes in blood serum are characteristic of a number of illnesses rather than peculiar to one. A more detailed study of the mechanisms of dielectric changes is now being conducted. Orig. art. has: 1 table and 2 figures. [CD]

SUB CODE: 06/ SUBM DATE: 10Jun66/ ORIG REF: 006/ OTH REF: 001/
ATD PRESS: 5117

Card 4/4

ZORE, V.A.
ARTSYBYSHEV, N.A.; BELOGORSKAYA, N.I.; VINOGRADOVA, L.Yu.; GALANIN, D.D.;
GUR'YEVA, V.V.; ZVORYKIN, B.S.; *ZORE, V.A.*; LIVINTSEV, N.M.;
MENSHTUTIN, N.F.; MINCHENKOV, Ya. Ya.; POKROVSKIY, A.A.; REZNIKOV, L.I.;
SAKHAROV, D.I.; TIKHONOVA, Z.I.; KHLEBODAROV, S.F.; SHEYMAN, M.I.;
YUS'KOVICH, V.F.

Professor S.A. Artsybyshhev; obituary. Fiz. v shkole 18 no.1:95-96
Ja-F '58. (MIRA 11:1)

(Artsybyshhev, Sergei Aleksandrovich, 1887-1957)

ZORE, V.A., dotsent; TIKHONOVA, Z.I., assistent

Simultaneous spectral determination of lead, copper, and tin
in fresh fish and some types of canned fish. Glg. sanit. 28
no.2:58-60 '63 (MIRA 17:2)

1. Iz I Moskovskogo ordena Lenina meditsinskogo instituta
imeni I.M.Sechenova.

ZORE, V.A.; KUZIKOVA, N.S.; NIKULINA, L.N.

Some new lecture demonstrations. Usp. fiz. nauk 77 no.1:197-200
My '62. (MIRA 15:6)
(Physics--Study and teaching)

ZORE, V.A.

GVOZDOVER, S.D., and V.A. ZORE

Samovozbuzhdenie trekhlektrodnogo generatora s obratnoi svyaz'iu v detsimetrovom diapazone. (Zhurnal tekhnicheskoi fiziki, 1948, v. 18, no. 9, p. 1194-1206, diags.)

Title tr.: Self-excitation of a triode generator with feedback in the decimeter-waveband.

See Science Abstracts. Section E. Electrical Engineering, 1949, v. 52, Abstr, 2235.

001.246

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

ZOREC, Branislav Dr. 1951

Ass. to the chief of Vet. Service, Yugo

Memo Dr. Courter State B#588, Belgrade, Rest.

BULJAN, M.; ZORE-ARMANDA, M.

Problems and hydrographic characteristics of the Mediterranean
Sea. Hidrograf god:89-109 '69.

I 21293-66

ACC NR: RT5027518

SOURCE CODE: YU/25/1/64/0317/01-7/02/93/0308

AUTHOR: Zore-Arnesic, M.

ORG: Institute for Oceanography and Fisheries, Split (Institut za oceanografiju i ribarstvo)

TITLE: Results of direct current measurements in the Adriatic

SOURCE: Split. Institut za oceanografiju i ribarstvo. Acta Adriatica, v. 11, no. 1-42, 1964. Simpozij Jugoslavenskih oceanografa, Split, 16. 4. 1962, 293-308

TOPIC TAGS: ocean current, ocean property, oceanography

ABSTRACT: Results are given on direct current measurements carried out at eight 24-hour anchor stations in the middle and south Adriatic, taken by an Ekman current meter from 1958 to 1962. For each station the maximum and average velocity as well as the direction of the current are given. In different seasons and in different parts of the Adriatic, currents generally have a small velocity ranging from 0.1 to 0.5 m/sec. The velocity is generally higher along the eastern coast. The direction of the current corresponds generally to the velocity of the wind. The direction of current in the winter is different from that in summer. In winter there is a prevailing tendency of the incoming current to the Adriatic, while in the summer there is that of the outgoing current. It was found that currents existing in the

Card 1/2

I 21293-66
ACC NR: AT5027518
4

Adriatic generally belong to gradient currents. The influence of the wind is only of local importance in the inshore stations. The ebb and flow of the tide do not increase the speed of the currents, but their influence is felt, particularly at some stations where the velocity of the resultant current is small as, for instance, the vicinity of the Island of Brač. Results from stations lying along the Split-Dubrovnik profile indicate the general Adriatic circulation is a general current moving eastward. Flow is stronger at station 50, 12, in the vicinity of the Dubrovnik Island, and at station 10, 11, 12, in the vicinity of the island of Brač. There is a summer maximum in the surface current in the Adriatic basin. The depth of the maximum in the upper Adriatic is in the surface current. This is a current involving the intermediary water layer, characterized by a higher salinity rate, the intermediary water of the eastern Adriatic or Mediterranean. The maximum in the surface current is in the vicinity of the entrance to the intermediary layer of the sea. No occurrence of considerable year-to-year fluctuations in the system of currents prevailing in the Adriatic have been confirmed by direct measurements. The extent of these measurements, however, should be made greater if the character of the fluctuations and the currents moving in the deeper water properly known. (Fig. 1 and 2 and 3, figures and 1 table. (Based on author's abstract.)

SUB CODE: 03/ OURN DATES: 0000/ GEN REPT: 006

Card 2/2

ZOREC, C

ZOREC, C. Proposals for reorganization of textile technical schools in Yugoslavia. p. 476

Vol. 4, No. 5, May 1955

TEKSTIL
TECHNOLOGY
Zagreb

So: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), Vol. 4, No. 9,
Sept. 1955

ZORENKO, A., general-mayor voyak avyant; SHELYUG, Yu., podpolkovnik

"Training of radiomen should be equal to the new demands"; discussion
of the article published in no.10, 1963. Voen. vest. 43 no.1:101-102
Ja 64. (MIRA 17:1)

ZORENKO, S.A.

Machine for removing plywood overhangs. Bum. i dar. prom. no.1:20
Ja-Mr '64. (MIPA 17:6)

ZORENKO, S.A.

Jointer for veneering shaped parts. Run. 1 der. prod. no. 2:11-13
April 64. (MIRA 1964)

L 45153-66 EWT(d)/FSS-2

ACC NR: AP6024900 (A) SOURCE CODE: UR/0317/66/000/007/0030/0038

AUTHOR: Zorenko, A., (Brigadier General of Communication Troops)

38
B

ORG: none

TITLE: Technical and tactical training of signal-communication personnel

SOURCE: Tekhnika i vooruzheniye, no. 7, 1966, 30-38

TOPIC TAGS: military training, specialized training, training procedure, passive defense tactic, military communication

ABSTRACT: The article deals with the technical and tactical training of signal-communication personnel of all ranks in radio transmission and aural reception of radiograms. Training programs are given for radio-telegraph operators in their first year of military service and for servicemen with long service. A graphic schedule is given for tactical and special exercises and for developing standards of protection against mass-destruction weapons for a signal-communication company. The article is illustrated by photographs showing servicemen engaged in training exercises. Orig. art. has: 5 figures.

[NT]

SUB CODE: 15/ SUBM DATE: none/
Card 1/1 *awm*

ZOREV, N. N.

USEC/Engineering
Tools, Machine
Austenite

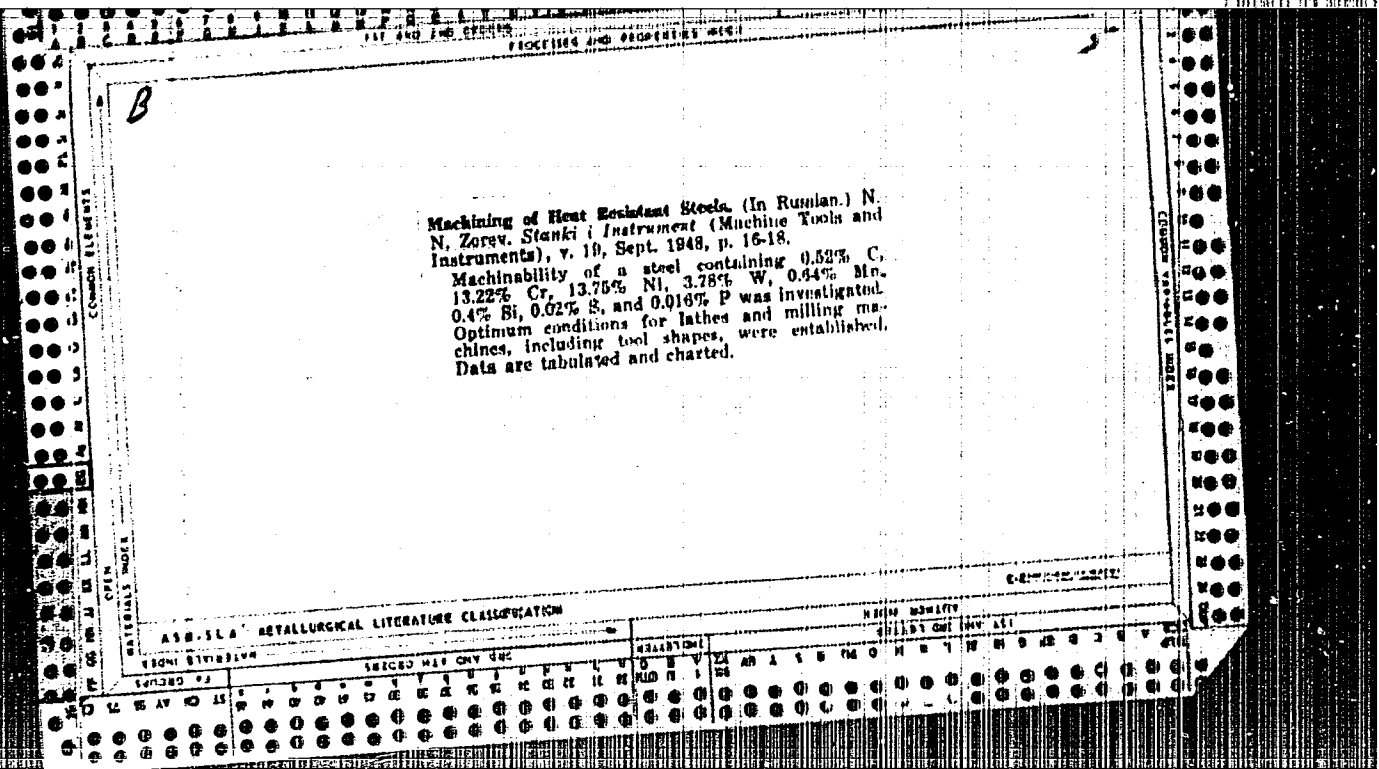
Jan 1948

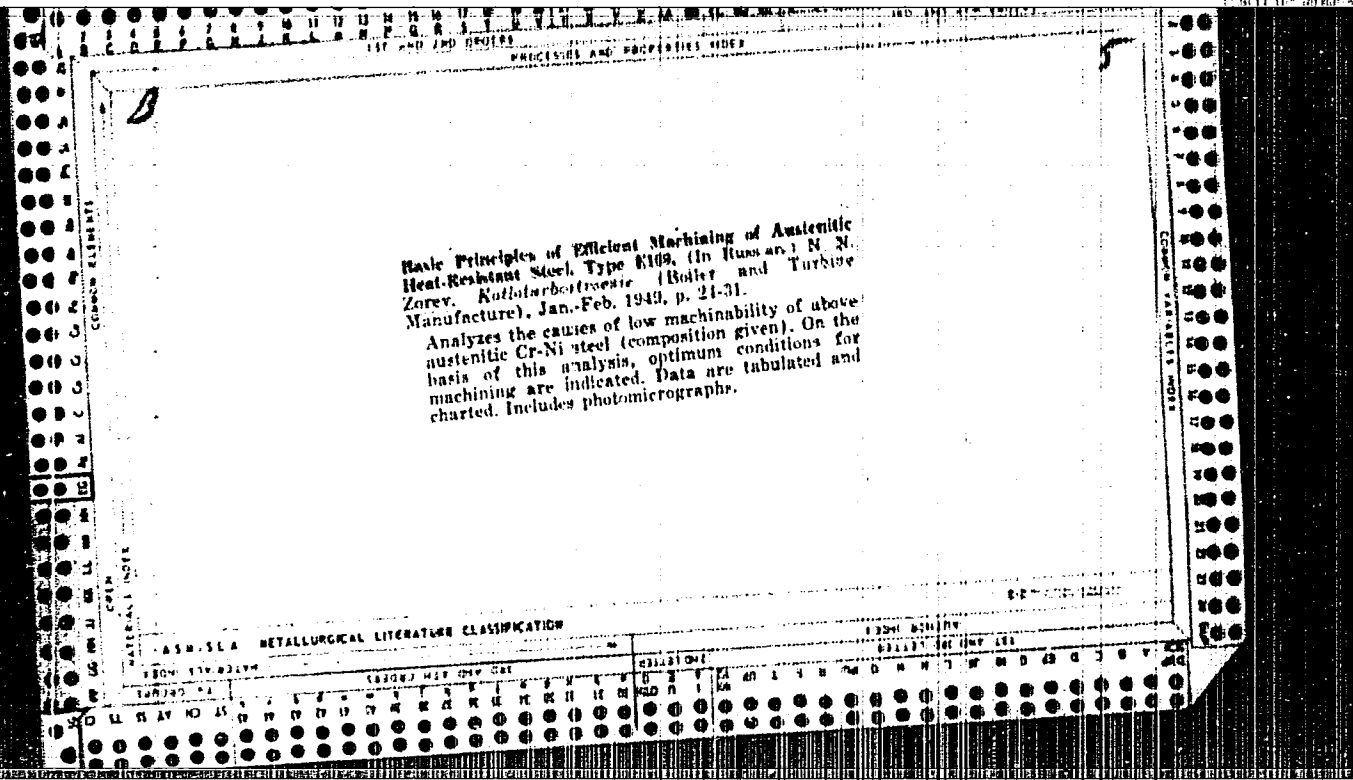
"Using High-Speed Steel Tools for Turning Type K159
Austenite Steel," N. N. Zorev, Cand Tech Sci, 4 pp

"Stanki i Instrument" No 1

Discusses selection of proper geometric parameters
for cutting tools, conditions for cutting, and type
of cooling liquid that permits greater efficiency
during turning of austenite steel. Great importance
is attached to front and rear angles of operating
tool. Gives formula for determining cutting perfor-
mance of high-speed steel on austenite steel.

LS





Method of Determination of Optimum Wear and Optimum Resistance of Tools on the Basis of Their Wear Curves. (In Russian.) N. N. Zirev. *Stanki i Instrument (Machine Tools and Equipment)*, v. 20, Sept. 1949, p. 17-18.

Presents new method for determining the above. Formulas are derived and interpreted for practical application.

ASS-5LA METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

OPEN

MATERIALS INDEX

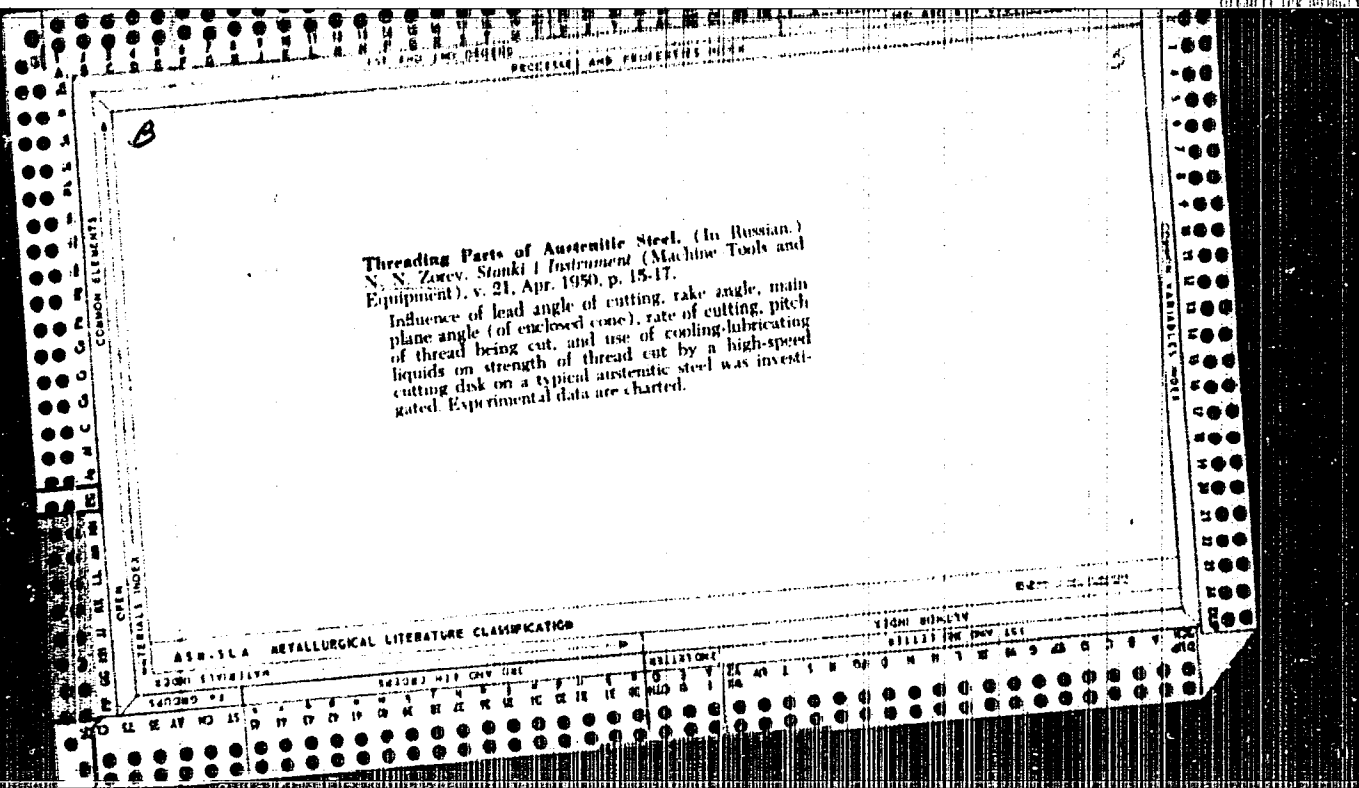
LIST AND INDEX CROSS

PROCESSING AND PROPERTIES INDEX

5

1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900

Thread Cutting on Austenitic Steel Parts. N. N. Zorov.
(*Stanki i Instrumenty*, 1950, No. 4, 15-17). (In Russian).
The special measures to control cutting conditions during
thread cutting, made necessary by the poor machinability
of austenitic steel, are outlined. An optimum cutting speed
of 1-2 m./min. was established. --a. k.



ZOREV. N. N.

File 9
Item No.

165/99

621.937 : 666.762.1

The Employment of Ceramic

Shooki Instrum.

Materials for Cutting

4, 12-14

Metals

1952

A. I. Isayov, N. N. Zorev.

I. K. Kootshna

U.S.S.U.

The use of Alumina-based materials in place of high-speed steel and carbide tools is considered and the superiority of ceramic XK-332 as a cutting tool is shown. Principles governing the design of tools with detachable ceramic tips are discussed. Methods of grinding ceramic tool bits and tests on the cutting of a medium carbon steel are described; comparisons in each case being made with titanium-bearing carbide tools.

(From Engrs Dig., 14(2), 61-62, Feb., 1953, U.S.S.R.)

*small
metal
stud ring*
③
4

ZOREV, N. N., ISAYEV, I. A. and KUCHMA, L. K.

"Soviet High Speed Machining of Cast Iron with Ceramic Cutters," Vest. Mash.,
No.10, 1952.

Translation W-25623, 24 Mar 53

1. ZOBNV, N. N.
2. SSSR (600)
4. Milling Machines
7. Effect of job set-up on the durability of milling cutters in face milling.
Vest. mash. 32 No. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ISAYEV, A. I.: ZOREV, N. H.: KUCHMA, L. K.

2. USSR (600)

4. Turning

7. High-speed turning of cast iron with ceramic tools. Vest. mash. 32 no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ZOREV, N.N., kandidat tekhnicheskikh nauk.

Effect of the properties of material in an instrument upon the cutting
process. Vest.mash. 33 no.7:52-56 J1 '53. (MLPA 6:8)
(Machine tools)

ZOREV N.N.

ISAYEV, A.I., professor, doktor tekhnicheskikh nauk; ZOREV, N.N., kandidat tekhnicheskikh nauk; APTAMONOV, A.Ya., inzhener; BRODSKIY, M.G., inzhener, redaktor; TIKHONOV, A.Ya., tekhnicheskij redaktor

[Semifinish turning with large feeds] Poluchistovoe tochanie s bol'shimi podachami. Moskva, Gos. nauchno-tekhn. tsd-vo mashinostroit. i sudostroit. lit-ry, 1954. 73 p. (MLRA 7:10)
(Turning)

Card :
Title :
Periodical : Stan. i instr, 3, 14 - 15, Mar 1956
Abstract : The article reports on experiments in which a signal was applied to a system and the effect of the signal was observed. The results of the experiments are discussed in detail.
Submitted :

Name: ZOREV, Nikolay Nikolayevich

Dissertation: Problems in the mechanics of the
metal-cutting process

Degree: Doc Tech Sci

Affiliation: Central Sci Res Inst of Technology
and Machine-Building

Defense Date, Place: 20 Feb 57, Council of Moscow Machine
Tool and Instrument Inst imeni Stalin

Certification Date: 15 Jun 57

Source: BHVO 16/57

BOREY, N.B., kandidat tekhnicheskikh nauk; VIRKO, N.P., kandidat tekhnicheskikh nauk.

Durability and performance of end mills in cases of shift of the workpiece in relation to the cutter. [Trudy] TSHIIMASH no.82:57-80 '57. (MLRA 10:9)

(Milling machines)

ZOREV, Nikolay Nikolayevich; KLUSHIN, M.I., kandidat tekhnicheskikh nauk,
retsentsent; ADAM, Ya.I., kandidat tekhnicheskikh nauk, redaktor;
MATVSEYEVA, Ye.H., tekhnicheskij redaktor; TIKHONOV, A.Ya.,
tekhnicheskij redaktor

[Mechanical problems in the process of cutting metals] Voprosy
mekhaniki protsessa rezaniia metallov. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, (MLRA 9:9)
(Metal cutting)

25(1)

PHASE I BOOK EXPLOITATION

SOV/1650

Zorev, Nikolay Nikolayevich, Doctor of Technical Sciences, Professor

Raschet proyektsiy sily rezaniya (Calculation of Cutting Force Projections) Moscow, Mashgiz, 1958. 54 p. 7,000 copies printed.

Ed. of Publishing House: Ye. A. Shemshurina; Tech. Ed.: L.P. Gordeyeva; Managing Ed. for Literature on Machine Building and Instrument Making (Mashgiz): R.D. Beyzel'man, Engineer.

PURPOSE: The book is intended for engineers in machine building plants, technologists engaged in cold working of metals, tool and machine designers, time standards and output specialists, and foremen in machine shops.

COVERAGE: The author states that the magnitude and the direction of forces involved in metal cutting operations are the dominant factors which determine performance, accuracy, and efficiency of any machining operation. The book deals with the various

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SOV/1650

Calculation of Cutting Force (Cont.)

methods employed to study and to determine these forces. A number of methods and empirically developed formulae are suggested. The text contains tables and nomograms which can be used to solve rapidly problems of projection of cutting forces as encountered in standard machining operations. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Introduction	3
Method of Determining the Projection of the Cutting Force According to Chip Shrinkage	8
Method of Determining the Projection of the Cutting Force at Constant Resistance to Wear of the Tool	18
General Sequence in Calculating the Projection of the Cutting Force	25
1. Calculation at constant resistant to wear of the tool	26
2. Calculation of the projection of cutting forces according to chip shrinkage	28

Card 2/3

Calculation of Cutting Force (Cont.)

SOV/1650

Special Nomograms and Tables for Determining the Projection
of the Cutting Force

29

Nomograms

32

Tables

46

Symbols

55

AVAILABLE: Library of Congress

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Card 3/3

LOLADZE, Teymuraz Nikolayevich; LARIN, M.H., prof., doktor tekhn.nauk,
retsensent; ZOREV, N.H., prof., doktor tekhn.nauk, red.;
TIKHANOV, A.Ya., tekhn.red.

[Wear of cutting tools] Iznos rezhushchego instrumenta.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958.
355 p. (MIRA 12:2)

(Cutting tools)

ZOREV, N.N., doktor tekhn. nauk prof.

Development of metal cutting technology in Eastern Germany. Vest.
mash. 38 no.3:77-81 Mr '58. (MIRA 11:2)
(Germany, Eastern--Metal cutting)

ZOREV, Nikolay Nikolayevich, prof., doktor tekhn.nauk; IVANOVA, N.A.,
red.izd-va; ML'KIND, V.D., tekhn.red.

[Investigations carried out in the Federal Republic of Germany
on metal cutting] Issledovaniia v oblasti rezaniia metallov
v FRG. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1960. 146 p. (MIRA 14:1)
(Germany, West--Metal cutting)

ZOREV, N. N

PHASE I BOOK EXPLOITATION

SCV/4804

Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya

Nekotoryye voprosy tekhnologii tyazhelogo mashinostroyeniya, chast' 2: Obrabotka metallov rezaniyem i kontrol' kachestva detaley (Some Problems in the Manufacturing Processes of Heavy Machinery, Pt. 2: Metal Cutting and Quality Control of Parts) Moscow, Mashgiz, 1960. 173 p. (Series: Its: [Trudy] kn. 99) 2,500 copies printed.

Sponsoring Agencies: Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu; Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.

Ed.: Ye.P. Unksov, Doctor of Technical Sciences, Professor; Managing Ed. for Literature on Heavy Machine Building: S.Ya. Golovin, Engineer; Ed. of Publishing House: G.N. Soboleva; Tech. Ed.: Z.I. Chernova.

PURPOSE: This book is intended for technical personnel in heavy-machinery plants and for scientific workers in factory laboratories and research institutes.

Card 1/4

Some Problems (Cont.)

SOV/4804

COVERAGE: The book contains a summary of work conducted by the personnel of TsNIITMASH in the field of mechanical machining and quality control of parts. Included is a discussion on the correct combination of depth, feed, and speed in cutting with maximum capacity of the machine tool. Also considered are the development of machining methods in rough and semifinishing production, and the application of ultrasonic devices for flaw detection and measurement of wall thickness. No personalities are mentioned. References follow some of the chapters.

TABLE OF CONTENTS:

Foreword	3
PART I. WORKING OF METALS BY CUTTING	
Ch. I. Some Results of [Research] Work in the Field of Mechanics of the Metal-Cutting Process [Zorev, N.N., Doctor of Technical Sciences]	7
Ch. II. Development of Efficient Cutting Regimes, and Methods of Improving the Usefulness of Operation of Machine Tools in Heavy-Machine Plants [Zorev, N.N., N.I. Tashlitskiy and L.K. Kuchma, Candidates of Technical Sciences; A.D. Vershinskaya and G.G. Ovumyan, Engineers]	31

Card 2/4

Some Problems (Cont.)

NOV/4804

- Ch. III. The Development and Search for New Tool Materials [Isayev, N.N. and A.I. Isayev, Doctor of Technical Sciences; L.K. Kuchma and O.M. Kirillova, Candidates of Technical Sciences; V.Yu. Katsnel'son, Engineer] 59
- Ch. IV. New Designs of Cutting Tools for the Heavy-Machinery [Industry] [Lapin, N.A., Candidate of Technical Sciences; A.D. Verzhinskaya, N.M. Fedorov, A.P. Chernyy, Engineers] 70
- Ch. V. Basic Trends and Some Results of Investigations of the Machined Surface Layer [Isayev, A.I., N.A. Morozov, N.M. Fedorov, Engineers] 88
- Ch. VI. Some Results of Work on the Improvement of Manufacturing Processes in the Heavy-Machinery Industry [Isayev, A.I., N.S. Dogak, Engineer; G.S. Andreyev, Ye.N. Mikhaylenok, B.K. Makarevich, Candidates of Technical Sciences] 111

PART II. QUALITY CONTROL OF PARTS

- Ch. I. Magnetic Flaw Detection in Striving for Quality of Metal [Yeremin, N.I., Candidate of Technical Sciences] 137

Card 3/4

PHASE I BOOK EXPLOITATION

BOV/5566

Zorev, N.N., Doctor of Technical Sciences, Professor, and G.S. Kreymer, Candidate of Technical Sciences

Vysokoproizvoditel'naya obrabotka stali tverdosplavnymi reztsami pri preryvistom rezanii (High-Productivity Machining of Steel With Hard-Alloy Tools in Intermittent Cutting) Moscow, Mashgiz, 1961. 78 p. 6,500 copies printed.

Reviewer: M.N. Larin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: I.I. Lesnichenko; Tech. Ed.: L.P. Gordeyeva; Managing Ed. for Literature on Metalworking and Machine-Tool Making: V.V. Rzhavinskiy, Engineer.

PURPOSE: This book is intended for process engineers in machine-building plants and technical personnel in mechanical shops and laboratories.

COVERAGE: The book gives a concise account of the complete machining of steel parts by intermittent cutting with coarse cuts. The suggested methods are based on the efficient use of recently developed hard alloys with high resistance to cyclic thermal and mechanical loads. Concrete practical recommendations are given for reducing, by 2 to 3 times, cycle time in machining complex-shaped

Card 1/3

High-Productivity Machining (Cont.)

80V/5566

forgings, steel castings, and weldments on large planers, lathes, boring mills, and machines. The following persons carried out the testing of hard alloys at the machine-building plants indicated in parentheses: V.S. Serebrovskiy (UZTM); V.F. Mordvinova and Ya. V. Pidyuk (NKMZ); and Z.M. Fetisova, B.G. Chizov, and V. Yu. Katsnel'son (EZTM). The results of investigations conducted by VNIITS, TsNIIIMASH, and various factories, as well as practical recommendations on the introduction of hard-alloy tools in reciprocating cutting and in other cases of intermittent coarse-chip cutting, are briefly discussed. There are no references.

TABLE OF CONTENTS:

Introduction	3
Methods for Producing New High-Strength Hard Alloys	5
Producing the Experimental Variants of Hard Alloys	11
Selecting the Alloy Structure and Its Production Methods	12
Selecting the Optimal Chemical Compositions of a Hard Alloy	21

Card 2/3

POPCV, Vladimir Artem'yevich; ZOREV, N.N., doktor tekhn.nauk, prof.,
retsensent; DELYUKIN, L.N., inzh., ved. red.; DUGINA, N.A.,
tekhn. red.

[Principles of the organization of technological processes in
the manufacture of heavy machinery] Printsipy postroyeniia
tekhnologii tiazhelogo mashinostroyeniia. Moskva, Mashin,
1963. 478 p. (NIRA 16:9)
(Machinery industry--Management)

ZOREV, NIKOLAY N.

Interrelationship between shear processes occurring along
tool face and on shear plane in metal cutting

Report to be submitted for the International Conference on
Production Engineering Research, Pittsburgh, Pennsylvania
9-12 Sept 63

ZOREV, N.N., doktor tekhn.nauk, prof.

Machining steel with hard-alloy cutting tools under
intermittent cutting conditions with large shearing
sections. Vest.mashinostr. 43 no.2:62-67 F 163. (MIRA 16:3)
(Metal cutting)

ZOREV, N.N., doktor tekhn. nauk, prof.

Interdependence of processes in the area of chip formation
and in the contact area of the top cutting surface. Vest.
mashinostr. 43 no.12:42-50 D '63. (MIRA 17:8)

ZOREV, N.N., prof. dr. (Moscow)

Friction coefficient in working metals and its regular changes.
Strojirenstvi 15 no.3:117-126 F '65.

ZOREV, N.N. (Moscow) [Zorev, N.N.]

Causes of bad machinability of austenitic chromium-nickel
steels. Archiw bud maszyn 12 no.1:31-46 '65.

ZOREV, N.N., doktor tekhn.nauk, prof.

Effect of the nature of cutting-tool wear on the relationship
between its strength and the cutting speed. Vent.mashinostr.
45 no.2:68-76 F '65.

(MIRA 18:14)

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065420014-7

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Card 1/2

ACC NR: KP5002636

SOURCE CODE: 01/0032/65/015/002/0117/0126

AUTHOR: Zerev, N. N. (Professor; Doctor; Moscow)

ORG: none

TITLE: Coefficient of friction between the tool and workpiece and its nature

SOURCE: Strojiranstvi, v. 15, no. 2, 1965, 117-126

TOPIC TAGS: friction, synthetic material, plastic fabricating machinery

ABSTRACT: Generalizing the results of large-scale experiments in the machining of various plastic materials, the author emphasizes the difference between the friction on the contact surfaces of machine parts and the friction between the cutting tool and workpiece. The effect of the machining conditions on variations of the coefficient is examined in detail. This work was presented by Engr. J. Houdler and Engr. J. Holoc. Orig. art. has: 26 figures, 15 formulas. [JPRS]

SUB CODE: 13 / SUBM DATE: none / OTH REF: 002 / SOV REF: 007

hch
Cite 1/2

LISSAK, K.; MEDGYESI, P.; TENYI, I.; ZORENYI, I.

Influence of the adrencorticotropic hormone on higher nervous activity.
Acta physiol. hung. 14 no.4:361-365 1958.

1. Physiologisches Institut der Medizinischen Universität, Pecs.
(REFLEX, CONDITIONED, eff. of drugs on
ACTH on extinction of feeding reflexes in dogs (Ger))
(ACTH, eff.
on extinction of conditioned feeding reflexes in dogs (Ger))

~~KORE~~-ARMANDA, Mira, dr.

Vertical distribution of the currents in the central and southern Adriatic. Hidrograf god. 61-72 '62.

1. Glan Uredivackog odhora, "Hidrografski institut".

PUDCOVIK, A.N.; MIRATOVA, A.A.; SUSHENTSOVA, F.F.; ZOREVA, N.M.

Heterochain polymers with phosphorus and oxygen atoms in the main chain.
Polyphosphine phosphates and polyphosphinates. Vysokom.sped. 6 no.2:258-
264 F '64. (MIRA 17:2)

1. Kazanskiy gosudarstvennyy universitet imeni Lenina.

ACCESSION NR: AP4017637

S/0190/64/006/002/0258/0264

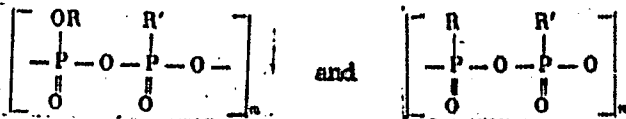
AUTHORS: Pudovik, A. N.; Muratova, A. A.; Sushentsova, P. F.; Zorava, N. M.

TITLE: Heterochain polymers with phosphorus and oxygen atoms in the main chain. Polyphosphinophosphates and polyphosphinates

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 2, 1964, 258-264

TOPIC TAGS: polymer, polycondensation, phosphinic acid, alkylphosphinic acid, alkylphosphinic acid ester, alkylphosphinyl dichloride, phosphoryl dichloride, ethyldichlorophosphine, polyphosphinophosphate, polyphosphinate, heterochain polymer

ABSTRACT: This investigation involved polyphosphinophosphates (PPF) and polyphosphinates (PP), the polymeric chain of which consisted of links



with radicals containing from 2 to 11 carbons. These polymers were obtained by

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polycondensation of alkylphosphinic acid esters with dichlorides of alkylphosphoric-, alkylphosphinic-, and arylphosphinic acids. The polycondensation was conducted for 4-10 hours at a gradual temperature rise from 120 to 200C. The molecular weight, softening point, and solubility of the obtained polymers in water and in organic solvents were determined. It was found that the PPF compounds, which contained 4-8 carbon atoms per link, dissolved only in water and alcohols and were insoluble in organic solvents. An increase in the number of carbon atoms to 14 per link resulted in the formation of polymers soluble in organic solvents, possessing a low melting point from -30 to -50C, displaying good adhesion to glass, and having a low flammability. The replacement of an aliphatic radical by benzyl raised the melting point by about 60-80C. The PPF and PF compounds are rapidly hydrolyzed by water (even at 0C). When the molecular ratio of the issuing alkylphosphinic acid esters and of the dichlorides was 1:1, the polymerization yielded only products of low molecular weight (676-712). A 30% excess of dichloride was required to bring it up to 2600-2890. It was found that the investigated polymerization reactions were of the second order, and that the reaction rate increased with temperature, as well as in the presence of such catalysts as FeCl_3 , ZnCl_2 , and AlCl_3 . Orig. art. has: 2 charts, 4 formulas, and 3 tables.

Card 2/3

ACCESSION NR: AP4017637

ASSOCIATION: Kazanskiy gosudarstvennyy universitet im. V. I. Lenina (Kazan' State University)

SUBMITTED: 01Dec62

DATE ACQ: 23Mar64

ENCL: 00

SUB CODE: CH

NO REF SOV: 003

OTHER: 003

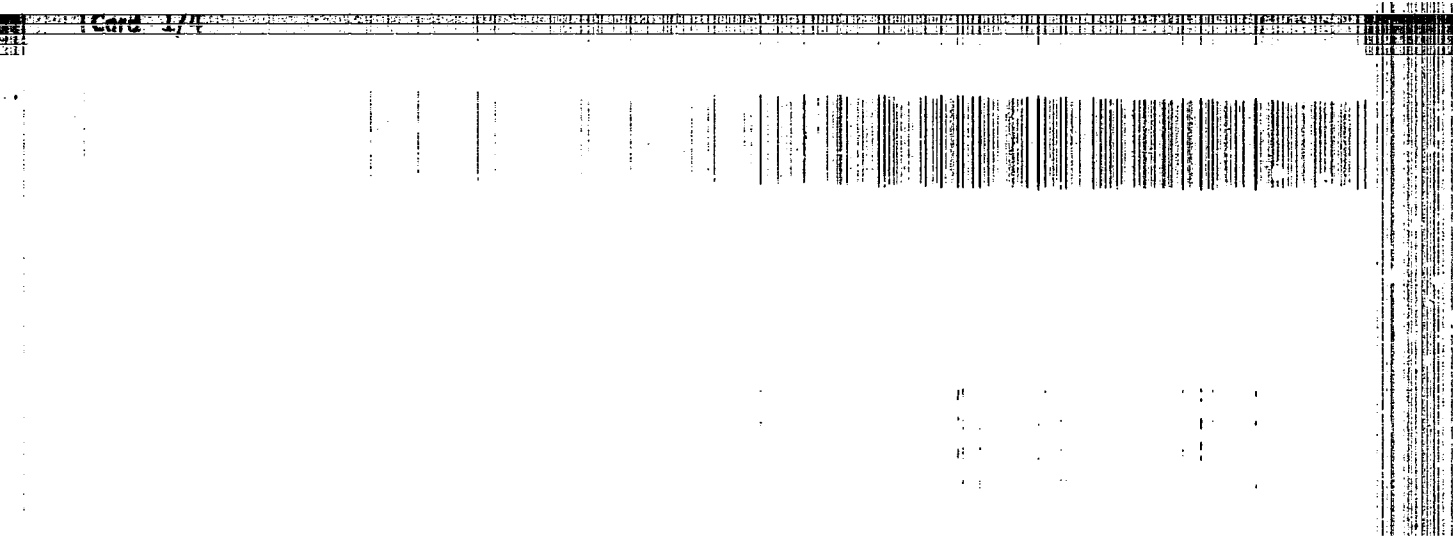
Card 3/3

KAROV, V.V.; ZOREVA, S.P.

Further observations on the use of blood transfusion in treating active slow-course rheumatic fever in patients with mitral stenosis. Uch. trudy GMI no.19:85-89 '65.

(MIRA 18:8)

1. Iz kliniki gosspital'noy khirurgii Gor'kovskogo gosudarstvennogo meditsinskogo instituta imeni S.M.Kirova.



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[REDACTED]

[REDACTED]

"APPROVED FOR RELEASE: 03/15/2001

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APPROVED FOR RELEASE: 03/15/2001

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ZORGA, Marcel, inž.

Thirty Fourth International Congress on Industrial Chemistry;
Belgrade, September 22-29, 1963. Nova proizvodnja no. 5/63
438-440 0 '63

1. Clan Uredniškega odbora, "Nova proizvodnja".

ZORGEVITS, Adol'f Krishevich [Zorgevic, A.]; ZHUKOV, M., red.;
VASILEVSKA, L., tekhn. red.

[Gladioli] Gladiolusy. Riga, Latviiskoe gos. izd-vo, 1961.
81.p. illus. (MIRA 15:6)

(Gladiolus)

ZORZO, B.

Utilization of object models in the development of mathematical thinking of young pupils. Rev pathologie 10 no.3:201-215 '64.

1. Chair of Pedagogy and Psychology of the Cluj University.

ZORI, A.S.

241 meters of vertical shaft completed monthly. Gov. shar. no.7:
46-50 J1 '57. (MIRA 10:8)

1. Nachal'nik tekhnicheskogo otdela tresta #Stalinshakhtoprokhoda.
(Shaft sinking)

ZORI, A.S., inzh.

Experience in shaft lining using movable, sectional formwork.
Shakht. stroi. no.3:27-29 '58. (MIRA 11:3)

1. Trest Stalinshakhtoprokhodka.
(Shaft sinking) (Concrete construction--Formwork)

Zori, AS

127-58-6-7/25

AUTHOR: Zori, A.S., Head of the Technical Section of Stalinshakto-
prokhodka Trust

TITLE: 100.8 m a Month of Ready Vertical Shaft With Metallic Leaf
Type Sheathing (100.8 m gotovogo vertikal'nogo stvola v
mesyats s metallicheskoj stvorchatoy opalubkoj)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 6, pp 28-31 (USSR)

ABSTRACT: The Giproshtakhtostroy mash Institute constructed a metallic
leaf type sheathing for supporting vertical shafts by
quick setting concrete from top to bottom. The author
describes how the utilization of this sheathing permitted
the erecting of 100.8 m of concrete-supported shaft in a
month. This method has the following advantages: 1) ab-
sence of temporary supports and supporting rims in the
shaft; 2) increased work safety - the permanent support
being only 2 m from the end; 3) mechanization of the
operation, which formerly involved large manual effort;
4) absence of loading platform in the shaft and therefore
increased speed of lifting containers; and 5) it is
economical.

Card 1/2

127-58-6-7/25

100.8 m a Month of Ready Vertical Shaft With Metallic Leaf Type Sheathing

There are 2 figures.

ASSOCIATION: **Trest Stalinshakhtoprokhodka** (Stalinshakhtoprokhodka Trust)

AVAILABLE: Library of Congress

Card 2/2 1. Shafts-Construction 2. Shafts-Test methods 3. Concrete

ZORI, A.S.

100.8m. of vertical shaft with folding metal sheathing completed in
one month. Gor. zhur. no.6:28-31 Je '58. (MIRA 1116)

1. Nachal'nik tekhnicheskogo otdela tresta Stalinshakhtopromkha.
(Shaft sinking)

ZORI, A.S.; KURCHIN, M.V.; PILIPENKO, I.V.

Vertical shaft sinking at a speed of 202 m. per month. Gorzhur.
no.8:3-8 Ag '55. (MIRA 8:8)
(Shaft sinking)

TYURKYAN, Raffi Armenokovich; ZORI, Anatoliy Stapanovich; D'YACHENKO, I.M.,
red.; SYCHUGOV, V.G., tekhn. red.

[Rapid shaft sinking with the KS-1M machine unit] Skornatnaia pro-
khodka stvola s kompleksom KS-1M. Kiev, Gos. izd-vo tekhn. lit-ry,
USSR, 1961. 53 p. (MIRA 14:10)
(Donets Basin—Shaft sinking—Equipment and supplies)

ZORI, A.S., gornyy inzh.

Sinking a vertical mine shaft at the speed of 290.5 m. a month.
Gor. zhur. no. 1:40-44 Ja '64. (MIRA 17:3)

1. Trest Donetskshakhtoprokhodka.

ZORI, A.S.

48/5
.664
.02

A.S. Zori.

Skorostnaya prokhodka vertikal'nykh
stvolov (Speed cutting of vertical
shafts, by) M.P. Davydov. Kiev, Gostekhizdat, 1955.
71 p. illus., di-grs., tables.

DAVYDOV, M.P.; ZORI, A.S.

~~SECRET~~
One hundred and fifty meters of completed vertical shaft per month.
Gor.zhur. no.2:10-14 F'55. (MIRA 8:7)
(Shaft sinking)