

SOV/51-7-4-23/32

AUTHORS: Shklyarevskiy, I.N., Verkhovtseva, Z.T. and Polyskova, G.S.

TITLE: On the "Vernier Effect" Observed when the Thickness of Thick Layers is Measured Using an Interferometric Method.

PERIODICAL: Optika i spektroskopiya, 1959, Vol 7, Nr 4, pp 566-568 (USSR)

ABSTRACT: In a preceding paper Shklyarevskiy (Ref 1) described an interferometric method of measuring thickness of thin and thick films. Two plates were used, distance t_1 apart. A layer of thickness t deposited on, say, one half of one of the plates, reduced the air gap locally to t_2 , i.e. $t = t_1 - t_2$. If these plates were placed in front of a spectrograph slit and illuminated with a parallel beam of white light, then two systems of equal-chromatic-order lines were observed in the focal plane of the spectrograph camera. By selecting the air gaps t_1 and t_2 it was possible to make one line of m -th order of one system to coincide with an n -th order line of the second system. The wavelength λ_0 of the coincident lines and their interference orders determine the layer thickness:

$$t = (m - n)\lambda_0/2. \quad (1)$$

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This formula is independent of the phase shifts (Ref 1). A new coincidence between lines of the equal-chromatic-order systems should

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On the "Vernier Effect" Observed when the Thickness of Thick Layers is Measured
Using an Interferometric Method

occur after k lines of one system and $(k + 1)$ lines of the second system, i.e. the so-called vernier effect should be observed. The authors show that the exact vernier effect would be possible only if the dispersion of the phase shift was absent. If such dispersion occurs exact coincidence of more than one pair of lines is impossible. When not even one pair of lines is coincident on an interferogram, the film thickness can be calculated using

$$t = t_1 - t_2 = \frac{m\lambda_0}{2} - \frac{n\lambda'_0}{2}, \quad (10)$$

where m and n are the orders and λ_0 , λ'_0 are the wavelengths of the two lines which almost coincide. Neglect of the phase shifts in Eq (10) leads to an error in the fifth place. This is unimportant in measurement of thicknesses of the order of several microns as shown by the practical example of a ZnS layer whose interferogram is given in a figure on p 568. The wavelengths and the interference orders of the almost coincident lines

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On the "Vernier Effect" Observed when the Thickness of Thick Layers is Measured
Using an Interferometric Method

shown in the figure, are listed in a table on p 568. The mean thickness
of the ZnS layer, calculated using Eq (10) was 49998.45 Å, which differs
only slightly from 50 000.2 Å calculated using Eq (1) for the
 $\lambda = 5263.18 \text{ \AA}$. Acknowledgment is made to K.D. Sinel'nikov for his
advice. There are 1 figure, 1 table and 5 references, 2 of which are
Soviet, 2 English and 1 translation from English into Russian.

SUBMITTED: March 27, 1959

Card 3/3

L 40987-65

ACCESSION NR. A6 9095635

detected in this preparation, but as expected, there is a linear effect on the scintillation effectiveness detected in this preparation, but as expected, there is a linear effect on the scintillation effectiveness. The scintillation effectiveness was determined from the photoelectric current in an FET during irradiation with gamma rays from Ag^{113} . - I. Kettim Markus

ENCL: 00

SUB CODE: 0F, 0K

cont 2/2

L 14059-66 EWT(1)/EWA(j)/T/EWA(b)-2 RO/JK
ACC NR: AP6003600

SOURCE CODE: UR/0016/65/000/010/0047/0054

30
B

AUTHOR: Pilipenko, V. G.; Shchekina, T. A.; Verkhovtseva, G. N.

ORG: Stavropol' Plague Institute of the Caucasus and Transcaucasus (Stavropol'skiy protivochumnyy Institut Kavkaza i Zavkavkaz'ya)

TITLE: Properties of a dry cutaneous associated vaccine against plague, tularemia,
and brucellosis, prepared in a single ampoule

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 10, 1965, 47-54

TOPIC TAGS: vaccine, immunity, infectious disease, microbiology, brucellosis,
tularemia

ABSTRACT: Tests on animals and humans showed that the dry associated trivalent vaccine prepared by the authors in a single ampoule was equivalent to a mixture of dry standard live univalent vaccines or agar subcultures in reaction-producing properties, nature of the vaccinal process, and creation of immunity against plague, tularemia, and brucellosis. As in the univalent vaccines, the associated vaccine contained, after drying, the following quantities of live bacteria: 10-20% plague.

UDC: 615.371 : [576.851.45+576.851.48]

Card 1/2

L 14059-66
ACC NR: AP6003600

O
10-20% tularemia, and 50-60% brucellosis. The trivalent vaccine is particularly suited for large-scale production should the need arise. Orig. art. has: 4 figures, 7 tables.

SUB CODE: 06/ SUMM DATE: 11Feb65/ ORIG REF: 004/ OTH REF: 000

Card 2/2

BK

PILIPENKO, V.G.; SHCHEKINA, T.A.; VERKHOVITSEVA, G.N.

Characteristics of a dry epicutaneous polyvalent vaccine
against plague, tularemia, and brucellosis prepared in
one ampule. Zhur.mikrobiol., epid. i immun. 42 no.10:47-
54 O '65. (MIRA 18:11)

1. Stavropol'skiy protivochunnyy Institut Kavkaza i
Zakavkaz'ya.

VERKHOVTSEVA, M.I.; RUBAN, Ye.L.; SUVOROV, N.N.

Tryptophan isolation from the culture fluid with the help of
ion-exchange resins. Prikl. biokhim. i mikrobiol. 1 no.5:
585-586 S-0 '65. (MIRA 18:11)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni
Mendeleyeva.

VERKHOTSEVA, M.I.

Study of cellulase produced by thermophilic bacteria.
Mikrobiologija 34 no.3:430-436 My-Je '65.

1. Institut mikrobiologii AN SSSR.

(MIRA 18:11)

LOGINOVA, L.G.; VERKHOVTSeva, M.I.

Aminopherase activity in thermotolerant *Saccharomyces cerevisiae* yeasts. *Mikrobiologija* 33 no.1:38-41 Ja-F '64.

(MIRA 17:9)

1. Institut mikrobiologii AN SSSR.

VERKHOVTSEVA, T.P.; LEVITOV, M.M.

Enzymatic conversion of mercaptocetic acid amino derivatives in
the biosynthesis of penicillin. Antibiotiki 9 no.7:583-587 J1 '64.
(MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

ORLOVA, N.V.; VERKHOVTSeva, T.P.

Comparative physiological characteristics of two strains of
Actinomyces rimosus LS-T 118 and 293 which produce oxytetracycline. Antibiotiki 4 no.1:26-31 Ja-F '59. (MIRA 12:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ACTINOMYCES,
rimosus, strains prod. oxytetracycline (Rus))
(OXYTETRACYCLIN,
Actinomyces rimosus prod. oxytetracycline (Rus))

RABINOVICH, M.S.; LEVITOV, M.M.; KULIKOVA, G.N.; VERKHOVTSEVA, T.P.;
MELLER, F.M.

Study of the precursors and fragments of antibiotics. Part 9:
Carbonyl and tricarboxylic derivatives of thioglycolic acid.
Zhur. ob. khim. 33 no. 10:3135-3140 O '63. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

K.

USSR/Forestry - Forest Cultures.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15393

Author : Ye.P. Verkhovtsev

Inst : Siberian Technological Forestry Institute.

Title : The Seed Respiration Rate of Siberian Larch and Its
Importance in Forest Seed Planting Practice.
(Intensivnost' dykhaniya semyan listvenitsy sibirskoy
i znacheniye etogo yavleniya dlya praktiki lesosemennogo
delta).

Orig Pub : Tr. Sibirs. lesotekhn. in-ta, 1956, sb. 14, 73-81.

Abstract : The respiration rate was determined (with twenty-four
hour exposure by computing the emitted CO₂ according to
the additional weight of absorptive tubes with soda lime)
at moistures of 7.14, 17.89 and 24.0% and at a tempera-
ture of 5-55° with intervals of 5° in seeds from the

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USSR/Forestry - Forest Cultures.

K.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15393

current year harvest in Sonskiy timberland, Khakassaya Autonomous Oblast'. With increased moisture the respiration rate grew. The maximum respiration temperature for seeds with 7.14% moisture was 50°, for seeds with average moisture 45°, and for the most moist 40°. Lifting the temperature above the critical limit caused a drop in germination and seedling power. When Siberian larch seeds are extracted from the cones in fire heated drying rooms, it is recommended that the temperature be kept for the first 4-5 hours at 35-40 and later at 45-50°.

Card 2/2

Verkhovtsev, Ye. P.
USSR / Forestry. Forest Plants.

K-5

Abs Jour: Ref Zhur - Biologiya, No. 1, 1958, 1385

Author : Verkhovtsev, Ye. P.

Inst : Siberian Forest Engineering Institute

Title : Forest Ameliorative Measures in the Tuvinskaya
Autonomous Oblast'

Orig Pub: Tr. Sibirsk. lesotekhn. in-ta, 1955, 11, 1-30

Abstract: Examined are problems of the formation and development of the second group of protective-water preserving-regulating forests and those of the first group on islands, river beds, and bottom lands. The significance of field-protecting forest belts for the oblast', the methods and agricultural technique of creating

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USSR / Forestry. Forest Plants.

K-5

Abs Jour: Ref Zhur - Biologiya, No. 1, 1958, 1385

them, the types of belts in connection with the ecological characteristics of the territories proposed for afforestation, and questions of seed preparation are all discussed.

Card 2/2

SAMOKHVALOVA, G. V.; VERKHVTSEVA, M. I.; DAVYDOVA, I. M.

Amino acid composition of *Scorzonera hispanica* L. Report No. 1:
Qualitative amino acid composition. Nauch. dokl. vys. shkoly;
biol. nauki no.3:155-157 '62. (MIRA 15:7)

1. Rekomendovana kafedroy biokhimii rasteniy Moskovskogo
gosudarstvennogo universiteta im. M. V. Lomonosova.

(SCORZONERA) (AMINO ACIDS)

ORLOVA, N.V.; POPOVA, L.A.; MAKAREVICH, V.G.; VERKHOVTSEVA, T.P.

Physiological features of the fungi which produce tetracyclines.
Trudy Inst. mikrobiol. no. 6:251-264 '59. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ACTINOMYCES)

RABINOVICH, M.S.; LEVITOV, M.M.; KULIKOVA, G.N.; YAKUSHINA, L.M.;
VERKHOVTSEVA, T.P.; MELLER, F.M.

Synthesis of precursors and fragments of antibiotics. Part 7:
Carboxy derivatives of mercaptoacetic acid. Zhur. ob. khim. 32
no.4:1167-1172 Ap '62. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(Acetic acid) (Antibiotics)

SHOSTAKOVSKIY, M.F.; RABINOVICH, M.S.; LEVITOY, M.M.; VERKHOTSEVA, T.P.;
PREOBRAZHENSKAYA, Ye.V.; KULIKOVA, G.N.; KALINOVSKIY, O.A.

Synthesis of the precursors and fragments of antibiotics. Part 4:
Thioglycolic acid derivatives. Zhur.ob.khim. 31 no.5:1453-1458
(MIRA 14:5)
My '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(Acetic acid) (Antibiotics)

VERKHOVTEVA, T. P., KLAPOVSKAYA, K. I., LEVITOY, M. M., GOTOVSEVA, V. A.,
and YUDINA, O. M. (USSR)

"The Biosynthesis of Penicillins and Penicillin-like Substances in
fermentation without a precursor."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

SEVERIN, V.A.; VERKHOVTSEVA, T.P.

Studies on a possibility of the synthesis of synnematin by P.
chrysogenum. Antibiotiki 5 no.3:11-15 My-je '60. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(SYNNEMATINE) (PENICILLIUM)

VERKHOVTSEVA, T.P.; ORLOVA, N.V.

Some problems of amino acid metabolism in organisms producing
oxytetracycline. Antibiotiki 5 no.1:37-42 Ja-F '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ACTINOMYCES) (AMINO ACID METABOLISM)

LEVITOV, M.M.; VVERKHVTSEVA, T.P.; RABINOVICH, M.S.; PREOBRAZHENSKAYA, Ye.V.;
KULIKOVA, G.N.; BUYANOVSKAYA, I.S.; SHNEIDERSON, A.N.

Biosynthesis of new penicillins using propylmercaptoacetic
acid derivatives as precursors. Antibiotiki 6 no.7:575-581
(MIRA 15:6)
Jl '61.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(PENICILLIN) (ACETIC ACID)

VERKHOVTSEV, Ya.V.

Furnace maintenance in my sector. Metallurg no.5:26-27 My '56.
(MIRA 9:9)

1. Starshiy master martenovskogo tsekh No.2 Magnitogorskogo
metallurgicheskogo kombinata.
(Magnitogorsk--Open-hearth furnaces)

MAKAREVICH, V.G.; VERKHVTSEVA, T.P.; LAZNIKOVA, T.N.

Some features of vitamin B₁₂ biosynthesis in cultures of Propionibacterium shermani and Actinomyces olivaceus [with summary in English].
Mikrobiologiya 27 no.1:19-26 Ja-F '58. (MIRA 11:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

(ACTINOMYCES, metab.

vitamin B₁₂ synthesis by Actinomyces olivaceus (Rus)

(PROPIONIBACTERIUM, metab.

vitamin B₁₂ synthesis by Propionibacterium shermani (Rus)

(VITAMIN B₁₂, metab.

Propionibacterium shermani & Actinomyces olivaceus
synthesis (Rus)

ORLOVA, N.V.; VERKHOVSEVA, T.P.

Significance of phosphorous, nitrogen and lactic acid of corn extract
for the biosynthesis of oxytetracycline. Mikrobiologija 28 no.4;
514-521 Jl-Ag '59.

(MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.

(OXYTETRACYCLINE metab.)

(PHOSPHORUS metab.)

(NITROGEN metab.)

(CULTURE MEDIA)

~~VERKHOVSEVA, T.P.~~
ORLOVA, N.V.; VERKHOVSEVA, T.P.

Comparative study of the physiological characteristics of terramycin and biomycin producers [with summary in English]. Mikrobiologija 26 no.5:565-572 S-0 '57.
(MIRA 10:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov,
Moskva.
(ACTINOMYCES,
strains prod. oxytetracycline & chlortetracycline (Rus))
(OXYTETRACYCLINE, metabolism,
Actinomyces synthesis (Rus))
(CHLORTETRACYCLINE, metabolism,
same)

VERKHOVTSIVA, T.P.; SURIKOVA, Ye.I.

Quantitative chromatography of vitamin B₁₂ produced by some micro-
organisms [with summary in English]. Vop.med.khim. 2 no.6:438-442
N-D '56.
(MLRA 10:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov
Ministerstva zdravookhraneniya SSSR, Moskva.

(VITAMIN, B12, determ.

quantitative chromatography of vitamin B 12 produced
by some microorganisms)

Country	: USSR	F
Category	: Microbiology. Antibiosis and Symbiosis. Antibiotics.	
Abs. Jour	: Ref Zhur-Biol., No 23, 1958, No 103717	
Author	: Orlova, N. V.; <u>Verkhovtseva, T. P.</u>	
Institut.	: --	
Title	: Comparative Investigation of the Physiological Characteristics of Terramycin and Biomycin Producers	
Orig Pub.	: Mikrobiologiya, 1957, 26, No 5, 565-572	
Abstract	: In experiments on oscillators the physiological properties of the chlortetracycline producer, <u>A. aureofaciens</u> No 536 and of the oxytetracycline producer, <u>A. rimosus</u> No 8229 were compared. On a medium containing corn extract and ammonium salts strain 536 grows more quickly during the first 24 hours and consumes the nitrogen and carbohydrates sooner than strain 8229. On the second to third day, the weight of the mycelia reach a maximum, after which autolysis occurs. <u>A. rimosus</u> accumulates the greatest biological mass on the third to fourth day, and at the end of the fermentation the weight of the mycelia does not decrease. An early (first to second day) decomposition into spores with a subsequent	
Card:	1/2	

Country :	
Category :	F
Abs. Jour :	Ref Zhur-Biol., No 23, 1958, No 103717
Author :	
Institut. :	
Title :	
Orig Pub. :	
Abstract (Cont.)	: alternation of generations is characteristic of this strain. This phenomenon was not noted in <u>A. aureofaciens</u> . In contrast to <u>A. rimosus</u> , strain 536 forms only a small quantity of proteolytic enzymes and utilizes the nitrate nitrogen to a much smaller extent than does <u>A. rimosus</u> ; in contrast to the latter, it does not grow on media containing maltose, galactose and mannitol. Strain 8229 does not form oxytetracycline on medium containing glucose. <u>A. aureofaciens</u> is more sensitive to a deterioration of aceration conditions than is <u>A. rimosus</u> . It is noted that neither antibiotic is formed during the period of most active growth (first twenty four hours).-- N. O. Blinov.
Card:	

2/2

F-28

VERKHOVTSeva, T.P.; SURIKOVA, Ye.I.

Method for quantitative determination of the true vitamin B₁₂
by the bio-autographic technique. Lab. delo 3 no.2:24-26
Mr-Ap '57
(MLRA 10:5)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov
(dir. M.A. Guberniyev), Moskva.
(VITAMINS--B) (CHROMATOGRAPHIC ANALYSIS)

II - D

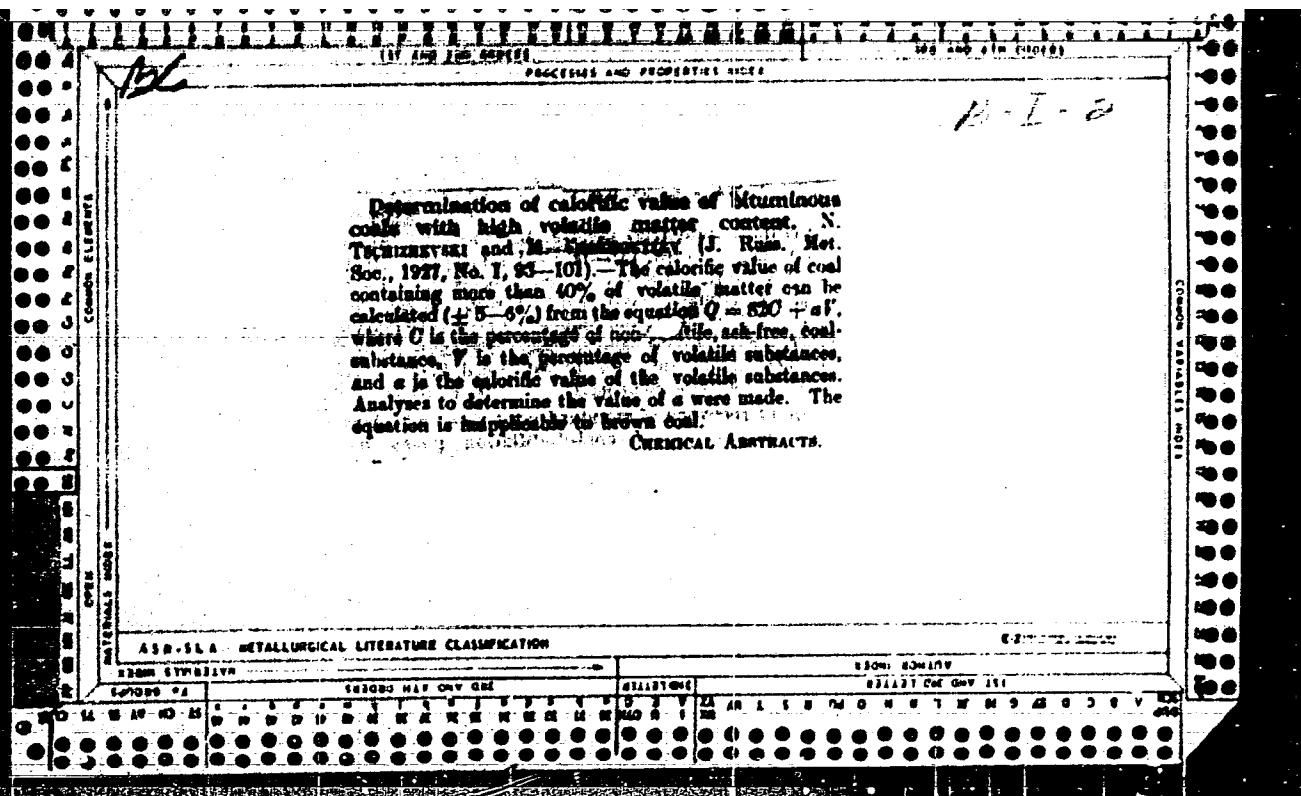
CA

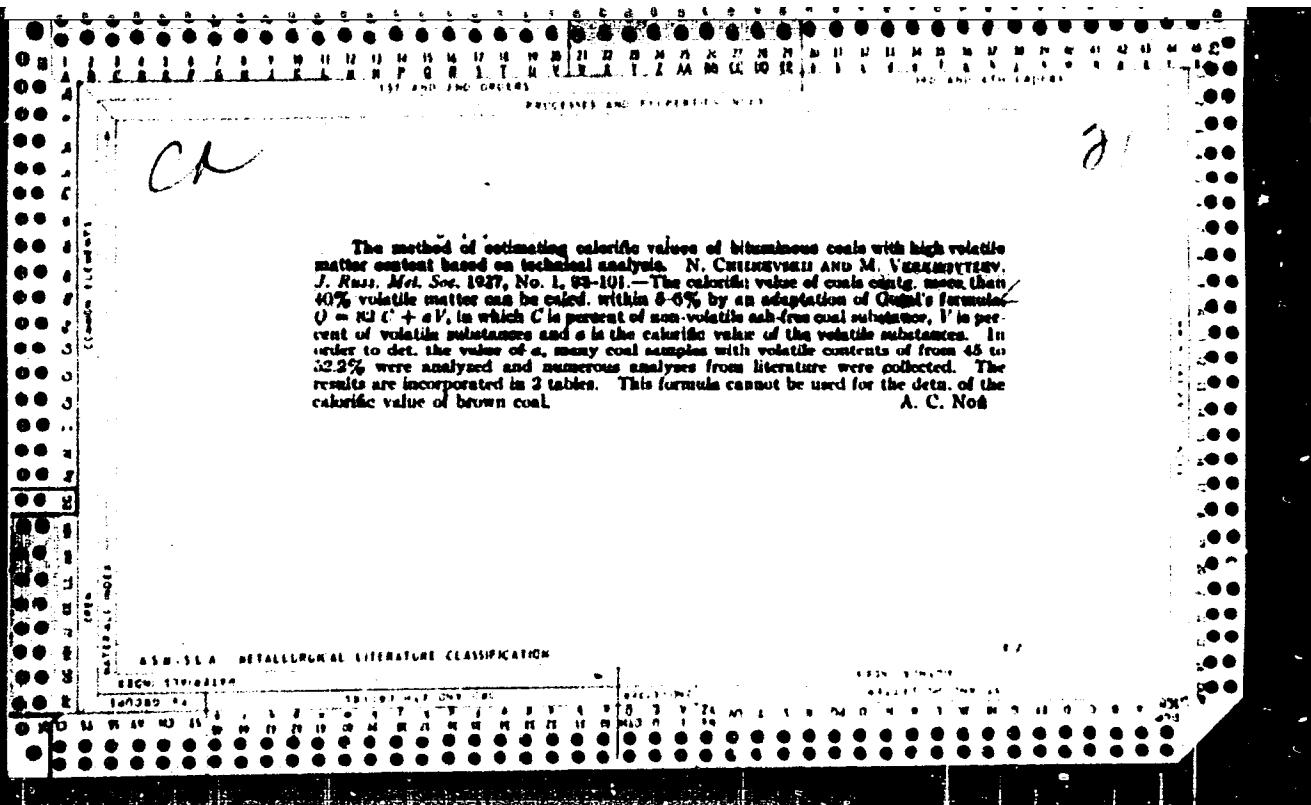
Aftereffect of various temperatures on adsorption of invertase by tissues of higher plants. N. M. Siankyan and T. P. Verkhovtseva, *Doklady Akad. Nauk S.S.R.* 59, 307-10 (1948).—Samples of winter wheat were vacuum-infiltrated with mannitol solns. and the sprouts were kept at various temps. 3 hrs. before detm. of degree of adsorption, which was done by slicing and detm. of the ability to absorb invertase from a surrounding soln. according to Kurbanov (C.A. 41, 801h) for 30 min. at 30°. The temp. range covered -13° to 27°, with each set being held within 1-2° during the expt. Lower temp. increases the adsorption ability (extreme temp. range gave variation of 60-70%). The preliminary administration of mannitol strongly activates the later adsorption, especially noticed at lower temp. This appears to be a protective mechanism of protoplasm against the action of low temp. The raised adsorption at low temp. is accompanied by increased enzymic sucrose synthesis and drop of its hydrolysis.

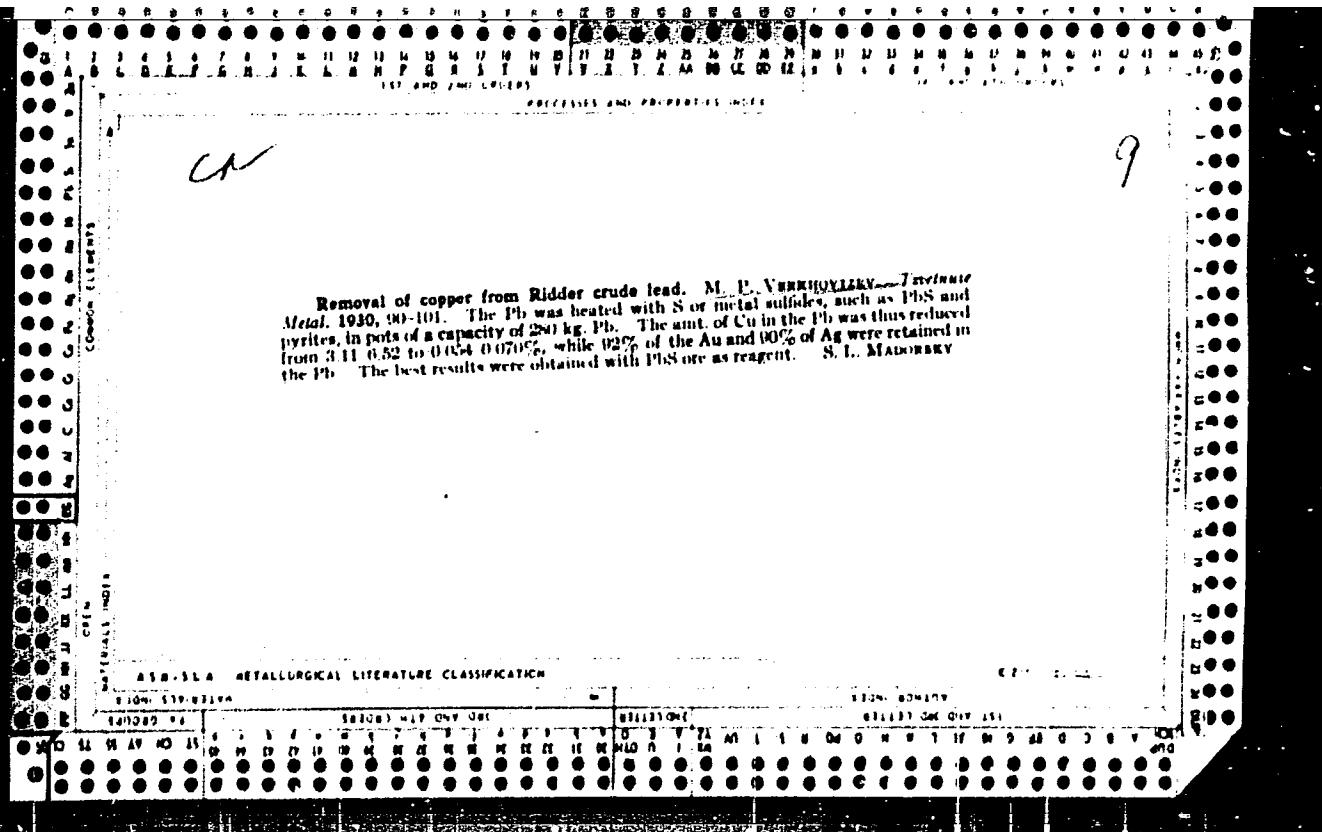
G. M. Kosolapoff

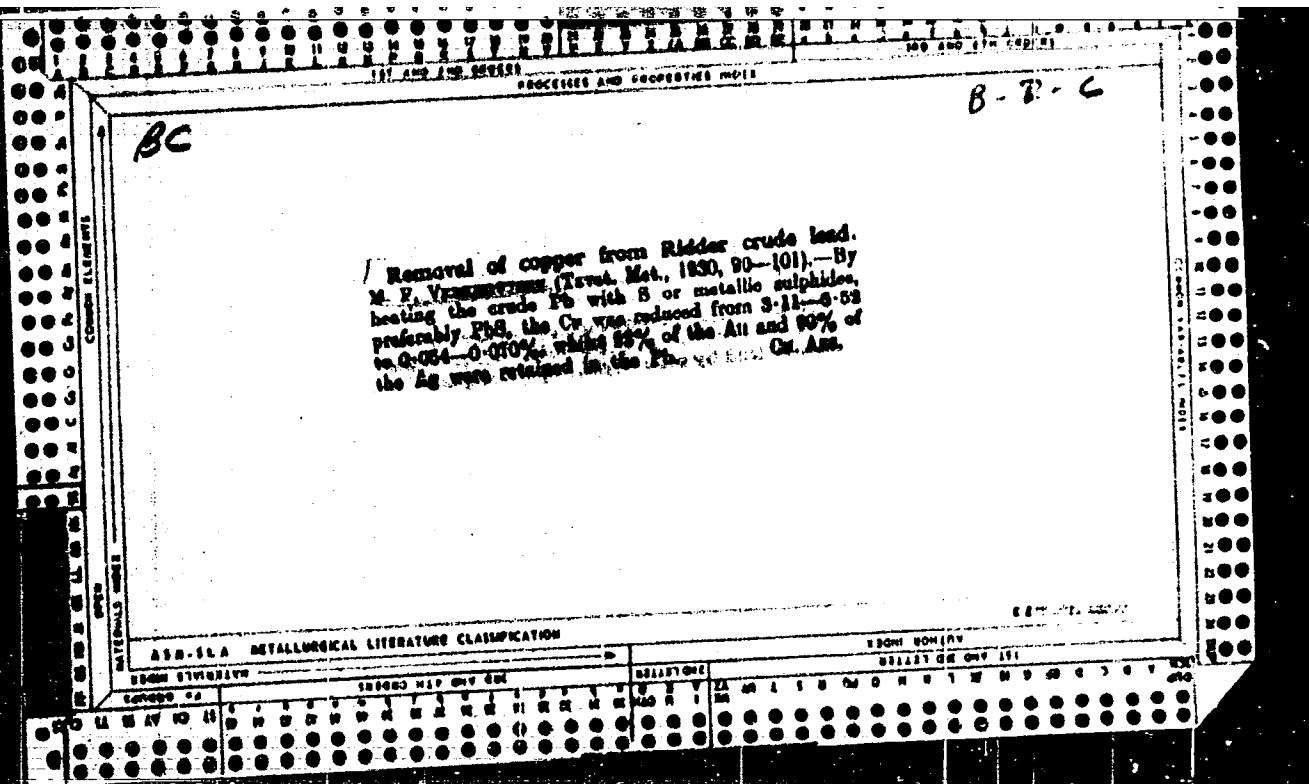
ASME-LA METALLURGICAL LITERATURE CLASSIFICATION

SCHOOL	SCHOOL SUBJECT	TECHNOLOGY												SCIENCE											
		MANUFACTURE						PROCESS						MATERIALS						TESTING					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26









L 27490-66 EWT(1)/EWA(h)

ACC NR: AP6015341

SOURCE CODE: UR/0119/66/000/005/0011/0012

AUTHOR: Verkhovtsev, V. S. (Engineer); Rakov, M. A. (Candidate of technical sciences)

ORG: none

TITLE: The polytron—a multistable circuit

SOURCE: Priborostroyeniye, no. 5, 1966, 11-12

TOPIC TAGS: frequency conversion, frequency converter, frequency multiplication

ABSTRACT: The principle of operation, the design, and the circuitry of a multistable polytron are described. The device is a frequency converter with a regulated conversion factor in which a transistorized keyed phase detector detects the fundamental frequency as well as the sub- and higher-harmonics. Basically, the device consists of a phase detector, a dc-amplifier and a dc to ac converter. The circuit is shown in Figure 1. A sequence of rectangular pulses (voltage V_e) with a frequency f_1 is applied to the phase detector which consists of two transistors, T_1 and T_2 . The rectified output voltage, smoothed by capacitor C, is amplified by a two stage dc-amplifier (T_3 , T_4). An amplification factor of about 50—70 provides the required signal level to drive the following dc to ac converter (T_5 , T_6). Varying the control voltage from 1 to 5 v yields a frequency change of the converter output from 10 to 50 kc. Initially, switch K is in position 2, thus applying the dc voltage E_{start} to the input of the dc amplifier. The value of E_{start} is determined by the

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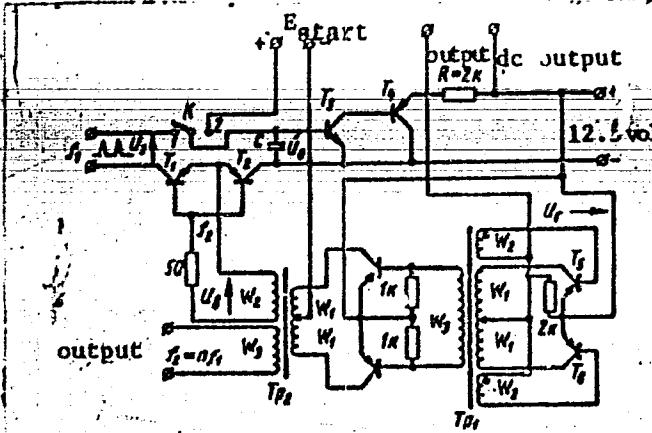
UDC: 621.374.4

21
B
C

L 27490-66

ACC NR: AP6015341

Fig. 1. Polytron circuit



number of the harmonic desired. Switching to position 1 then excites the polytron at the given harmonic, and the circuit remains in this state as long as required. The output signal is a sequence of rectangular pulses (f_2) with an amplitude of up to 5 volts. The output power is not less than 50 mw. The circuit shown has ten stable states, corresponding to ten output frequencies between 15 kc and 42 kc, and thus can be used as a converter from dc to decimal digital code. Orig. art. has 3 figures and 1 table.

Card 2/2 ^{SLG} SUB CODE: 09 / SUBM DATE: none / ORIG REF: 003 / AID PRESS: 4260

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VERKHOTSEV, Z. V.

L15200-65 EWT(m)/EWA(d)/EMP(t)/EP(b) ASD(f)-2/ASD(s)-3/APMDC/ESD(ss) MJN/
JN/JG/VLK S/0000/64/000/000/0209/0213
ACCESSION NR: AT4048715

AUTHOR: Vvedenskiy, V. S., Prokhorenko, K. K., Zhdanov, P. L., Semenchenko,
G. V., Vasill'yev, N. Ye., Verkhovtsev, Z. V., Nakonechnyy, N. F.

TITLE: A study of the effect of rare earth metals on the quality of stainless steels and
steel R18

SOURCE: Vsesoyuznoye soveshchaniye po splavam redkikh metallov, 1963. Voprosy*
teorii i primeneniya redkocemel'nykh metallov (Problems in the theory and use of rare-
earth metals); materialy* soveshchaniya. Moscow, Izd-vo Nauka, 1964, 209-213

TOPIC TAGS: rare earth metal, stainless steel, cerium modifier, steel plasticity,
austenite-carbide steel, austenite-ferrite steel, ferrocerium, steel inclusion, cerium
oxy sulfide, red hardness/steel R18

ABSTRACT: The study was undertaken to determine whether cerium introduced as a
modifier would increase plasticity during rolling of steels 10Kh16N25M6 (austenite-carbide)
and 07Kh25N13 (austenite-ferrite) which resist deformation. Tests were conducted under
industrial conditions; ferrocerium corresponding to a Ce concentration of up to 0.4% was
added to the metal before discharge or into the ladle. Additions of 0.2% to either steel
increased plasticity during hot deformation. Increasing the Ce to 0.4% decreased

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L 15200-65
ACCESSION NR: AT4048715

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plasticity, owing to the formation of specific defects near the surface in the transcrystalline zone consisting of accumulations of small inclusions, possibly cerium oxides and sulfides. In the 10Kh16N25M6 steel, such addition led to a change in the distribution of carbides in the cast metal, owing probably to a decrease in carbon solubility; an increase in cerium favored carbide segregation throughout the grains rather than at their boundaries, leading to a more even distribution of carbides in the outer ingot layers. Such addition had no significant influence on the amount of the alpha phase and its distribution in the 07Kh25N13 steel. Its introduction led to a new form of non-metallic dot-like inclusions, apparently cerium oxysulfides, accumulating unevenly in the steel. Increasing the cerium addition led to a sharp decrease (to almost complete disappearance) of manganese and iron sulfides and silicates. Cerium modification of the 10Kh15N25M6 steel at a 0.15-0.20% concentration resulted in increased exterior and interior plasticity and increased the yield of suitable blooms by 8%. Ferrocerium or a mixture of rare earth metals was added to the R18 steel after reduction; performance and red hardness were determined after oil quenching. Red hardness increased by 25C, due to the increased resistance of the martensite to heating. Polished specimens of the cast steel showed a more even distribution of the ledeburite eutectic; this increased the plasticity during rolling. The modifier did not increase the yield. Orig. art. has: 4 figures.

Card 2/3

L 15200-65
ACCESSION NR: AT4048715

ASSOCIATION: None

SUBMITTED: 13Jun64

NO REF SOV: 000

ENCL: 00

SUB CODE: MM

OTHER: 000

Card 3/3

LOGINOVA, L.G.; VERKHOTSEVA, M.I.

Amino acid requirement of thermotolerant yeasts. Mikrobiologiya
32 no.2:216-221. MIAA '63. (MIRA 17:9)

1. Institut mikrobiologii AN SSSR.

VERKHOVSEVA, T.P.; BUYANOVSKAYA, I.S.; LEVITOV, M.M.

Di- and tricarboxylic sulfide-containing acids: precursors of
new biosynthetic penicillins. Mikrobiologija 33 no.1:16-22
(MTRA 17:9)
Ja-F '64.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

VERKHOVYKH, F.P., VORONOV, A.M., GALPERIN, A.L., GIRILOVICH, M.A., MAKSEMOV, P.M.,
RAVISH*S CHERBO, V.A., BRUDSKII, A.L. and BANDAR, N.I.

"Blood transfusion in treatment of Tuberculosis."

ZProbl. Tuberk. No. 1,3-14, Jan.- Feb., 1950. 2 figs., 3 refs.

Much work has been done in the Soviet Union to prove that tuberculous patients are not allergic to human blood. It has also been proved that blood transfusions in these cases need not produce any general or local reactions whatsoever. The very severe reactions which were produced by transfusion at the beginning of the experiments have now been eliminated. It has been shown that asepsis in the technique of administration of transfusion cannot be regarded as a basic method of treatment but serves a subsidiary purpose: (a) as a haemostatic; (b) as a stimulator of the connective tissues; (c) as substitution therapy after great blood loss. Blood transfusion is also important as a preliminary to surgical intervention and in post-operative treatment. More work should be done on the desensitizing effect of blood transfusion in the presence of pleural reactions to treatment with artificial pneumothorax. The use of dry serum is advisable as a haemostatic agent. Blood transfusions are contraindicated in hopeless cases such as those of acute caseous pneumonia, acute haematogenous spread, and terminal exacerbations.

H.W. Swann

SO: Abstracts of World Medicine. Vol. 8, 1950.

VERKHOVYKH, F. P.

Thoracic aspirator in intrapleural pneumonolysis. Probl. tuberk.
Moskva no.4:71-72 July-Aug 1951 (CIML 21:1)

1. Docent. 2. Of Voronezh Oblast Tuberculosis Dispensary (Head
Physician -- N. S. Pokhvitsneva).

PUCHKOVSKIY, B.S.; VENKHOVYKH, I.I.; SKRIPTA, A.I.

Protective action of gelatin and peptone towards sodium potassium tartrobismuthate. Ukr.khim.zhur. 20 no.5:523-526 '54. (MLR 8:1)

1. L'vovskiy meditsinskiy institut, kafedra obshchey khimii.
(Gelatin) (Peptones) (Bismuthates)

GRIZODUBOVA, V.S., polkovnik, Geroy Sovetskogo Soyuza; VERKHOZIN, A.M.,
polkovnik

From the same regiment. Vest.Vozd.Fl. no.3:72-80 Mr '61.
(MIRA 14:6)

1. Byvshiy komandir 31-go gвардейского полка бомбардировщиков
(for Grizodubova). 2. Byvshiy nachal'nik shtaba 31-го гвардейского
полка (for Verkhozin).

(World War, 1939-1945—Aerial operations)

ACC NR: AP6037059

SOURCE CODE: UR/0056/66/051/005/1321/1327

AUTHOR: Krinchik, G. S.; Verkhozin, A. N.

ORG: Moscow State University (Moskovskiy gosudarstvenny universitet)

TITLE: Investigation of the magnetic structure of a ferromagnetic substance by magnetooptic apparatus with micron resolution

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 5, 1966, 1321-1327

TOPIC TAGS: nickel, iron, ferromagnetism, magnetic domain boundary, magnetic structure, magnetooptic effect, permalloy, magnetization, hysteresis loop, magnetic hysteresis, physica laboratory instrument

ABSTRACT: The authors illustrate some possibilities of employing a local method of measuring magnetization. The employed magnetooptic method and the apparatus is based on measurements of light reflections from minute regions of a ferromagnetic surface, about one square micron in area, and was described in detail earlier (PTE no. 4, 171, 1964). It makes it possible to determine the change of magnetization of the investigated local portion of the surface under the influence of some external action (field or elastic stress). The apparatus was used to measure the thickness of the transition layers between domains in nickel and iron. In the case of nickel values on the order of 0.35μ are obtained for the thickness, close to the theoretical 0.206. In the case of iron, a value of $0.5 \mu - 1.0 \mu$ was obtained, which did not

Card 1/2

ACC NR: AP6037059

agree well with the theory. The reasons for the discrepancy are briefly discussed. The authors also measured the orientation angle of the magnetization vector in surface domains 0.65 μ to 1.8 μ thick in permalloy films with a "transcritical" hysteresis loop and found it to be of the order of $\pi/2$. The authors thank Professor L. S. Palatnik and L. I. Lukashenko for supplying the samples of the "transcritical" films. Orig. art. has: 5 figures and 4 formulas.

SUB CODE: 20/ SUBM DATE: 03Jun66/ ORIG REF: 006/ OTH REF: 003

Card 2/2

VERKHRATSKAYA, D.A. [Verkhrats'ka, D.A.], dotsent; ASMALOVSKIY, G.V. [Asmalovs'kiy, H.V.], assistent

Use of cobalt chloride in atonic hemorrhage in labor. Preliminary report. Ped., akush. i gin. 23 no.4:40-41 '61. (MIRA 17:1)

1. Kafedra akusherstva i ginekologii (zav. kafedroy - prof. A.V. Anisimov) Stanislavskogo meditsinskogo instituta (direktor - dotsent G.A. Babenko [Babenko, H.A.]).

VERKHRATS'KIY, N.S.

VERKHRATS'KIY, N.S.

Biological activity of polyphenols occurring in conifer needles.
[with summary in English]. Ukr.biokhim.zhur. 29 no.4:479-485 '57.
(MIRA 11:1)

1. Kafedra biokhimii Kiiv's'kogo medichnogo institutu.
(PHENOOLS) (SCURVY) (SPRUCE)

VERKHRATSKIY, N.S.

Age-related characteristics of adrenaline and noradrenaline
oxidation in the heart of white rats under the action of
monoamine oxidase. Vop. geron. i geriat. 4:117-121 '65.

(MIRA 18:5)

1. Institut gerontologii AMN SSSR, Kiyev.

VERKHAT'SKIY N. S.

v

USSR / Pharmacology, Toxicology. Vitamins.

Abs Jour: Ref Zhur-Biol., No 18, 1958, 85210.

Author : Verkhat'skiy, N. S.

Inst : Not given.

Title : The Problem of the Biological Activity of the Polyphenols of Acerose Leaves (Needles of Conifers).

Orig Pub: Ukr. biokhim. zh., 1957, Vol 29, No 4, 479-485.

Abstract: Combined treatment of experimental scurvy in guinea pigs with peroral doses of 10 mg of polyphenols of spruce needles (SN) and 10 mg ascorbic acid (AA) for a period of 30 days led to recovery of all animals. Treatment with AA alone was less effective. The level of AA in the organs of animals which had received both SN and AA was higher than in animals treated only with AA. The addition of

Card 1/2

50

USSR / Pharmacology, Toxicology. Vitamins.

v

Abs Jour: Ref Zhur-Biol., No 18, 1958, 85210.

Abstract: SN to liver slices of animals kept on a scorbutogenic diet stimulated the reduction of dihydro-ascorbic acid to AA. The addition of SN to liver slices of animals on a diet rich in vitamin P produced no such stimulation. SN increases the capillary resistance in mice, also. From the author's resume.

Card 2/2

DANILEVSKIY, N.F., kand.med.nauk (Kiyev); VERKHratskiy, N.S., assistent
(Kiyev); TARNAVSKAYA, M.I., assistent (Kiyev)

Morphological picture of paradentosis in the treatment of
vitamin C deficiency in guinea pigs with ascorbic acid and a
vitamin P preparation from conifer needles. Probl.stom. 4:73-
80 '58. (MIRA 13:6)

(GUMS--DISEASES) (DEFICIENCY DISEASES)
(ASCORBIC ACID) (VITAMINS--P)

VERKHRATSKIY

SHAMRAY, Ye.F.; VERKHRATSKIY, N.S.; KUZ'MINSKAYA, U.A.; NIKONOVA, V.A.

The effect of a vitamin P preparation from the dog rose on the endurance of animals in a rarified atmosphere [with summary in English].
Vop.med.khim. 4 no.2:120-124 Mr-Ap '58. (MIRA 11:5)

1. Kafedra biokhimii Kiyevskogo meditsinskogo instituta.

(VITAMIN P,

prep. from wild rose hips, eff. on endurance of mice & rats
to high altitude (Rus)

(ATMOSPHERIC PRESSURE,

low pressure endurance of mice & rats, eff. of vitamin P
from wild rose hips (Rus)

(ALTITUDE,

high altitude endurance of mice & rats, eff. of vitamin P
from wild rose hips (Rus)

(PLANTS,

wild rose hips containing vitamin P, prep. & eff. on
endurance of mice & rats to high altitude (Rus)

SHAMRAY, Ye.F.; VERKHRATSKIY, N.S.; KUZMINSKAYA U.A.; NIKONOV, V.A.; SPILIOOTI,
Z.I.

Chemical and functional relationships of vitamin C and vitam P-like
substances. Vit. res. i 1kh iss. no.4:30-40 '59. (MIRA 14:12)

1. Kiyevskiy meditsinskiy institut.
(VITAMINS—P) (ASCORBIC ACID)

VERKHRATSKIY, N.S.

Biological activity of polyphenols from conifer needles. Vit. res.
i ikh isp. no.4:47-55 '59. (MIRA 14:12)

1. Kiyevskiy meditsinskiy institut.
(ASCORBIC ACID) (PHENOOLS)

VERKHRATSKIY, N. S., Cand Med Sci -- "Biological activity
of conifer ^{needle} polyphenols." Odessa, 1961. (Odessa State Med
Inst im N. I. Pirogov) (KL, 8-61, 259)

- 441 -

BUSHMAKINA, Z.I.; VERKHRATSKIY, N.S.; KONSTANTINOVSKIY, G.A.; KOSTYUK, L.V.;
KUZ'MINSKAYA, U.A.; KUL'CHITSKIY, K.I.; MIL'KO, V.I.; FROL'KIS, V.V.

Neurohumoral regulation of the cardiovascular system in experimental
arteriosclerosis. Vrach. delo no.1:3-11 Ja '62. (MIRA 15:2)

1. Institut gerontologii i eksperimental'noy patologii AMN SSSR,
Kiyevskiy meditsinskiy institut.
(ARTERIOSCLEROSIS) (CARDIOVASCULAR SYSTEM)
(REFLEXES)

GOREV, N.N., red.; FROL'KIS, V.V., red.; CHEBOTAREV, D.F., prof., red.;
SHURUPOVA, Ye.A., red.; VERKHRATSKIY, N.S., red.

[Mechanisms of aging] Mekhanizmy starenia Kiev, Gos.med.
izd-vo USSR, 1963. 499 p. (MIRA 16:11)

1. Akademiya meditsinskikh nauk SSSR. Moscow. Institut gerontologii
i eksperimental'noy patologii. 2. Chlen-korrespondent AMN SSSR
(for Chebotarev). 3. Institut gerontologii i eksperimental'noy
patologii AMN SSSR (for Verkhratskiy).
(GERIATRICS)

FROL'KIS, V.V.; SVECHNIKOVA, N.V.; VERZHIKOVSKAYA, N.V.; VERKHRAWSKIY, N.S.

Characteristics of the course of the general adaptation syndrome in
old and young animals under the influence of neural and humoral
stimulators. Fiziol.zhur. [Ukr] 9 no.3:330-337 My-Je '63.
(MIRA 18:1)

1. Laboratory of Physiology and Endocrinology of the Institute for
Gerontology and Experimental Pathology of the Academy of Medical
Sciences of the U.S.S.R., Kiyev.

FROL'KIS, V.V.; VERKHRATSKIY, N.S.

Changes in the sensitivity of effectors to the action of neural and
humoral stimulants during the aging of the organism.
Dokl. AN SSSR 148 no.5:1228-1230 F '63. (MIRA 16:3)

1. Institut gerontologii i eksperimental'noy patologii AMN SSSR.
Predstavлено академиком L.S.Shtern.
(AGING) (STIMULANTS) (NEUROCHEMISTRY)

VERKHRETS'KIY, N.S. [Verkhrats'kyi, N.S.]

Changes in the cholinesterase activity in skeletal muscles
and heart of white rats of various ages. Fiziol. zhur. [Ukr.]
10 no.2:265-268 Mr-Ap '64. (MIRA 18:7)

1. Laboratoriya fiziologii Instituta gerontologii i eksperi-
mental'noy patologii AMN SSSR, Kiyev.

VERKHRATSKIY, S.A., professor; SENYUTOVICH, V.F.; KOVSHAR', Y.V., professor, zavoduyushchiy kafedroy; ANTONOV, Yu.G., dotsent, direktor.

Changes in the peritoneum following the administration of penicillin into the abdominal cavity. Vest.khir. 73 no.4:29-30 Jl-Ag '53. (MLRA 6:8)

1. Kafedra gospital'noy khirurgii Stanislavskogo meditsinskogo instituta (for Verkhratskiy). 2. Kafedra farmakologii Stanislavskogo meditsinskogo instituta (for Kovshar'). 3. Stanislavskiy meditsinskiy institut (for Antonov). (Peritoneum) (Penicillin)

SENYUTOVICH, V.F., kandidat meditsinskikh nauk; VERKHRATSKIY, S.A., professor,
zaveduyushchiy.

Peridural segmental anesthesia. Vest.khir. 73 no.5:25-28 S-O '53.
(MLRA 6:11)

1. Gospital'naya khirurgicheskaya klinika Stanislavskogo meditsinskogo insti-
tuta.
(Anesthesia)

VEPYHRATSKIY, S.A., professor

Thrombophlebitic splenomegaly of tuberculous origin. Khirurgia
no.3:66 Mr '55. (MLRA 8:7)

1. Iz kliniki gospital'noy khirurgii Stanislavskogo meditsinskogo
instituta.

(SPLENOMEGLY, complications,
thrombophlebitis, tuberc. etiol.)

(THROMBOPHLEBITIS, complications,
splenomegaly, tuberc. etiol.)

(TUBERCULOSIS, complications,
thrombophlebitic splenomegaly of tuberc. etiol.)

VERKHRATSKIY, S.A., professor

Maduromycosis of the jaws. Stomatologija no.5:61 S-0 '55.(MIREA 9:2)

1. Iz kliniki gospital'noy khirurgii Stanislavskogo meditsinskogo
instituta.

(MYCETOMA) (JAWS--DISEASES)

VERKHRATSKIY, S.A., professor (Stanislav (oblastnoy), ul Shchorsa, d.17
Ev.6); SENYUTOVICH, V.F., dotsent

Using the great omentum for creating collateral renal circulation.
(MIR 10:6)
Nov.khir.arkh. no.1:52-55 Ja-1 '57.

1. Kafedra gospital'noy khirurgii Stanislavskogo meditsinskogo
instituta,
(OMENTUM--SURGERY) (KIDNEYS--BLOOD SUPPLY)

VERKHRATSKIY, S.A., professor (Stanislav)

Report on the activity of the Stanislav Province Surgical Society
in 1955-1956. Nov.khir.arkh. no.2:87-88 Mr-Apr '57. (MLRA 10:8)
(SURGERY)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510016-5

VERKHERATSKIY, S.A., prof. (Stanislav)

Brief outline of the development of surgery in the Ukraine, Nov.
khir. arkh. no.5:17-27 S-0 '57. (MIR 10:12)
(UKRAINE--SURGERY)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859510016-5"

VERKHRATSKIY, S.A., prof. (Stanislav).

"Achievements in public health in the Ukrainian S.S.R." Reviewed
by S.A. Verkhratskiy. Vrach.delo no10:1107-1108 0 '58 (MIRA 11:11)
(UKRAINE--PUBLIC HEALTH)

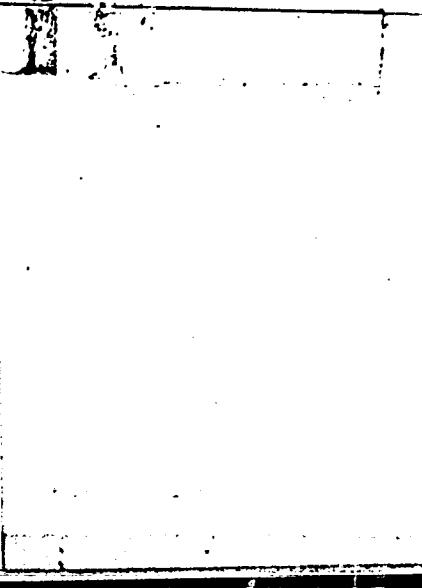
VERKHRAZENI, S. A.

EXCERPTA MEDICA Sec 9 Vol 13/2 Surgery Feb 59

1285. UTILIZATION OF GREATER OMENTUM FOR CREATION OF COLLATERAL BLOOD CIRCULATION IN THE KIDNEYS (Russian text) - Verkhrazenskiy S. A. and Senyutovich V. F. - NOV. KHIR. ARKH. 1957, 1 (52-53)

It was found that, after ligation of the main renal vessels, enveloping of the kidney with omentum was followed by an abundant ingrowth of omental vessels into the kidney. However, they do not secure normal renal function and the kidney atrophies if all the vessels of the renal hilum are interrupted. After such operations only animals with a blood circulation maintained via a supplementary main vessel can survive.

(S)



VARKHUTSKIY, S.A., prof.

Report on the work of the Stanislav Province Surgical Society for
1958. Nov.khir.arkh. no.3:127-128 My-Je '59. (MIRA 12:10)
(STANISLAV PROVINCE--SURGICAL SOCIETIES)

VERKHATSKIY, S.A., prof. (Stanislav (ohl.), ul.Shchorsa, d.19, kv.4)

~~Some errors in the technic of stomach resection. Nov.khir.~~
~~(MIEA 12:10)~~
arkh. no.3:101-103 My-Je '59.

1. Kafedra hospital'noy khirurgii Stanislavskogo meditsinskogo
instituta.
(STOMACH--SURGERY)

DUMKA, Nikita Savvich [Dumka, M.S.], dotsent; VERKHRATSKIY, S.A.
[Verkrats'kyi, S.A.] red.; POTOTSKAYA, L.A. [Potots'ka, L.A.],
tekhn.red.

[Medicine among the Scythians; an historical medical study]
Pro medytsymu skifiv; istoryko-medychne doslidzhennia.
Kyiv, Derzh.med.vyd-vo URSR, 1960. 112 p.

(MIRA 15:5)

(SCYTHIANS) (MEDICINE, ANCIENT)

VERKHATSKIY, S.A., prof.

Annual report of the Stanislav Province Association of Surgeons for
1959. Nov. khir. arkh. no.4:133 Jl-Ag '60. (MLA 15:2)
(STANISLAV—SURGERY)

VERKHRATSKIY, S.A., prof. (Stanislav, ul. Shchorsa, d.19, kv.4)

Protracted compression disease; traumatic toxicosis. Klin. khir.
(MIRA 16:4)
no. 5:22-30 My '62.

1. Kafedra gospital'noy khirurgii Stanislavskogo meditsinskogo
instituta.
(CRUSH SYNDROME)

VERKHRATSKIY, Sergey Avraamovich[Verkhrats'kyi, S.A.]; DUPLENKO,
K.F., red.

[History of medicine] Istoia medytsyny. Kyiv, Zdrov'ia,
(MIRA 18:2)
1964. 333 p.

GROMEKA, V.P.; REZNIKOV, N.Ya., inzh.; CHERKASOV, B.P.; POLOZOV, M.A.;
VERKHUNOV, N.G.; EKK, V.Ya., inzh.; BILLER, S.R., inzh.

Foresters discuss protective tree planting. Put! i put.khoz. 7 no.4:
(MIRA 16:3)
38-39 '63.

1. Starshiy inzh. Zaporozhskoy distantsii zashchitnykh lesonasazhdeniy, Pridneprovskoy Prudneprovskoy dorogi (for Gromeke).
 2. St. Zaporozh'ye, Pridneprovskoy dorogi (for Reznikov).
 3. Nachal'nik proyektno-izyskatele'skogo otryada po zashchitnym lesonasazhdeniyem, Rostov-na-Donu (for Cherkasov).
 4. Starshiy inzh. proyektno-izyskatele'skogo otryada po zashchitnym lesonasazhdeniyam, Rostov-na-Donu (for Polozov).
 5. Nachal'nik distantsii zashchitnykh lesonasazhdeniy, Karaganda, Kazakhskoy dorogi (for Verkhunov).
 6. Stantsiya Karaganda, Kazakhskoy dorogi (for Ekk, Biller).
- (Windbreaks, shelterbelts, etc.)

YERKHUNOV, P.M., kand. sel'skokhoz. nauk; FADEYEV, M.C., nauchnyy
sotrudnik; PUSTYNSKIY, V.M., nauchnyy sotrudnik

Stand structure classification of timber bases in Krasnoyarsk
Territory. Trudy VSNIPILesdrev no.11:49-56 '64. (MIRA 18:11)

ABS. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1454

AUTHOR : Verkhunov, P.M.

INST. : Siberian Sci.-Res. Inst. of Forest Management

TITLE : Defectiveness of Linden Timber Stands of the South-Western Urals.

ORIG. MUE. : So. stately po lesu. Bjuru. Sibirsk.
n.-i in-t lesn. kh-va, Krasnoyarsk, 1958,
1-33

ABSTRACT : A study was made of 2791 rooted trees and 276 felled specimens of linden in the Gafuriysky, Vorkreuzensky, Makarovsky and Zigazinsky Lekshozes of Bashkiria at 14 test areas in brush plantings of 50 to 115-year old III - IV * classes with youtweed and gramineous sorts (0.4 - 0.8) participating in the forest types. Only 17.3 % of the trees did not have trunk defects. Crookedness, rot, hollowness, frostbite, knottness and canker are the most

*locality

CARD: 1/2

COUNTRY : X
CATEGORY :

ABC. JOUR. : PEF ZHUR. BIOLOGIYA, NO.1, 1959 : 1959

AUTHOR :
INST. :

TITLE :

TING. PUB. :

ABSTRACT : prevalent among the 16 kinds of defect met. With age the number of defective trees is increased. The greatest average length of commercial trunk wood (7.1 m.) was in trees without defects. It was found that the wood of the late-flowering forms of linden are less subject than the early-flowering forms to defectiveness (especially rot). Forestry measures to combat defectiveness are described.

-- V.I. Klimov

CARD: 2/2

VERKHUNOV, P. M.: Master Agric Sci (diss) -- "The marketability of the linden
of the southwestern Urals". Moscow, 1959. 20 pp (Min Higher Educ USSR, Moscow
Forestry Engineering Inst), 150 copies (KL, No 18, 1959, 126)

VERKHUNOV, P.M.

[Efficient use of the timber resources of Siberia] Ratsional'noe ispol'zovanie lesosechnogo fonda Sibiri. Moscow,
Goslesbumizdat, 1961. 53 p.
(MIRA 15:8)
(Siberia—Lumbering)

VERKHUNOV, P.M., kand.sel'skokhoz.nauk

Evaluating the timber resources in heavily wooded areas of Siberia.
Trudy VSNIPIlesdrev no.5:71-75 '62. (MIRA 16:5)
(Siberia--Forests and forestry--Valuation)

VERKHUNOV, P.M., kand.sel'skokhoz.nauk; FADDEYEV, M.G., mladshiy nauchnyy sotrudnik

Estimating the remnants of wood during the inspection of cutting places in heavily wooded areas of Siberia. Trudy VSNIPIlesdrev no. 5:11-14 '62. (MIRA 16:5)

1. Laboratoriya lesosyr'yevykh resursov Vostochno-Sibirs'kogo nauchno-issledovatel'skogo i proyektного instituta lesnoy i derivoobrabatyvayushchey promyshlennosti (for Verkhunov).
(Siberia—Forest management)

VERKHUNOV, V.M.

Scientific and pedagogical activity of N.I. Lobachevskii as a
physicist. Vest. Mosk. Un. Ser. mat., mekh., astron., fiz., khim.
14 no.193-103 '59. (MIRA 13:8)

1. Kafedra obshchey fiziki Moskovskogo universiteta.
(Lobachevskii, Nikolai Ivanovich, 1793-1856)

RYBNIKOV, K.A., prof., red.; SPASSKIY, B.I., dots., red.; KUDRYAVTSEV,
P.S., prof., red.; KULIKOVSKIY, P.G., dots., red.; LITINETSKIY,
I.B., dots., red.; MIKHAYLOV, G.K., st. nauchnyy sotr., red.;
VERKHUNOV, V.M., kand. fiz.-matem. nauk, red.; KONONKOV, A.F.,
kand. fiz.-matem. nauk, red.; SOROKINA, L.A., nauchnyy red.;
VERKHUNOV, V.M., nauchnyy red.; GRIDASOVA, Ye.S., red.izd-va;
GOROKHOVA, S.S., tekhn. red.

[Problems of the history of the physical and mathematical sciences] Voprosy istorii fiziko-matematicheskikh nauk. Moskva, Gos.
izd-vo "Vysshiaia shkola," 1963. 522 p. (MIRA 16:7)
(Physics) (Mathematics)

RYBNIKOV, K.A., prof., red.; SPASSKIY, B.I., dots., red.; KUDRYAVTSEV,
P.S., prof., red.; KULIKOVSKIY, P.G., dots., red.; LITINETSKIY,
I.B., dots., red.; MIKHAYLOV, G.K., st. nauchnyy sotr., red.;
VERKHUNOV, V.M., kand. fiz.-matem. nauk, red.; KONONKOV, A.F.,
kand. fiz.-matem. nauk, red.; SOROKINA, L.A., nauchnyy red.;
VERKHUNOV, V.M., nauchnyy red.; GRIDASOVA, Ye.S., red. izd-va;
GOROKHOVA, S.S., tekhn. red.

[Problems of the history of the physical and mathematical sciences] Voprosy istorii fiziko-matematicheskikh nauk. Moskva, Gos.
izd-vo "Vysshiaia shkola," 1963. 522 p. (MIRA 16:7)
(Physics) (Mathematics)

3(7)

AUTHOR:

Verkhunov, V. M.

SC7/50-59-10-17/25

TITLE: Meteorological Observations in Kazan' in the 19th Century

PERIODICAL: Meteorologiya i hidrologiya, 1959, Nr 10, pp 40 - 44 (USSR)

ABSTRACT: This is a historical survey of meteorological observations made in Kazan' from 1733 to 1912.

Card 1/1

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RYBNIKOV, K.A., prof., red.; SPASSKIY, B.I., dotsent, red.; GORDEIKIN, D.I.,
prof., red.; IVANENKO, D.D., prof., red.; KUDRYAVTSEV, P.S., prof.,
red.; KUKARKIN, B.V., prof., red.; KULIKOVSKIY, P.G., dotsent, red.;
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prof., red.; SHEVTSOV, N.S., prof., red.; VERRHUNOV, V.M., assistant,
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AUTHOR:

Verkhunov, V. M.

SOV/55-58-6-11/31

TITLE:

N. I. Lobachevskiy and Mechanics (N. I. Lobachevskiy i
mekhanika)

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki,
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ABSTRACT:

In the present article the activity of the Russian scientist and creator of non-Euclidian geometry, Nikolay Ivanovich Lobachevskiy, is dealt with in detail and a development of his ideas is given. He was teacher at Kazan' university from 1812-1847, where he delivered a number of lectures in the field of physics and mathematics. His lectures were based upon the knowledge of the fundamentals of physics, such as space, time, motion, velocity, and force. They were original and not confined to the teaching of existing opinions and theories. He was mainly interested in the definition of motion. In his paper on "New Beginnings of Geometry" he wrote, "In nature we call motion only that without which sensations (concerning the outer world) are impossible. Geometric conceptions of motion are therefore artificial"

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