ACC NRI AT6026912 (A)	(t)/ETI JP(c) JD/Md SOURCE CODE:	//JW/JU/9D UR/0000/66/000/000/0076/0082	2
AUTHOR: Pokrovskiy, Yu. I.; Vi	•	5A 1	
ORG: None		<u> </u>	
TITLE: Study of some radiation and modulus of elasticity	defects in metals by me	easuring internal friction	
SOURCE: AN SSSR. Institut meta (Internal friction in metals an	llurgii. Vnutrenneye tre d alloys). Moscow, Izd-	niye v metallakh i splavakh vo Nauka, 1966, 76-82	
TOPIC TAGS: metal analysis, in irradiation, nuclear reactor cone ABSTRACT: Samples of pure (99	ternal friction, elastic  / RFT reactor core, IR?	modulus, radiation damage,	
in the channel outside an IRT-1 ternal friction (Q-1) was measu	000 reactor core at a fl	ux of 10 <sup>14</sup> neutron/cm <sup>2</sup> and ux of 10 <sup>14</sup> neutron/cm <sup>2</sup> . In-	
stress amplitude (G) calculated of modulus of elasticity (E), a respect to change of natural fr to G. For copper, Grit rose 10	according to the amplitumes of educated with change of educate vibrations square	ude of vibrations; change Q-1 to G, was studied with ad (f2) of sample in maletter	
Q-1 decreased by about 40% with	respect to its pre-irrac	diation values. Changes in	}
Card 1/2			

יס-אטנגט יד

ACC NR: AT6026912

3

and o crit are explained by reaction of dislocations with spot defects at low neutron dosages, and reaction of dislocations with more complex defects (such as vacancy complexes) at high neutron dosages. This behavior differs from that of Mo and W in that  $Q_{\min}^{-1}$  for Cu at a flux of  $10^{20}$  neutron/cm<sup>2</sup> decreases while  $Q^{-1}$  for both Mo and W increases because these two metals have "free" (unattached to dislocations) spot defects which are absent in Cu. The increase of ocit for Mo and W may signify that dislocations, such as in Cu, are locked in place by radiation defects. A small increase in o crit for these metals is associated with the fact that many of the defects formed remain in the lattice because of low mobility of radiation defects in these metals in comparison with the same mobility in copper. Examination of change of modulus of elasticity for the metals under scrutiny showed that neutron irradiation may cause an increase or decrease in elastic modulus (E) for copper in relation to the magnitude of the integrated flux. This E for copper increases with small doses and decreases for large doses. Explanations for changes in modulus of elasticity are quite similar to those for changes in internal friction. Low temperatures, and other forms of radiation (gamma-rays, electrons), can be used to study spot defects by the internal friction method. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 11, 18/SUBM DATE: 02 Apr 66/ORIG REF: 003/OTH REF: 002 nuclear motallurgy

Card 2/2 6/2

ACC NR. AP6029795

AUTHOR: Pravdyuk, N. F.; Vikhrov, V. I.; Pavlov, S. Yu.; Porevesentsev, V. N.

60

ORG: none

TITLE: Determination of the burnup of the fuel element of the icebreaker "Lenin"

from the Cs-137 activity without chemical separation

SOURCE: Atomnaya energiya, v. 21, no. 2, 1966, 92-96

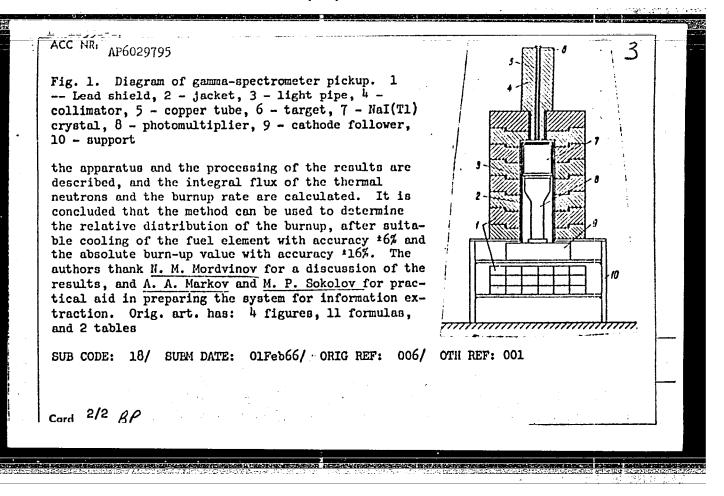
TOPIC TAGS: reactor fuel element, cosium, uranium compound, enriched uranium, reactor

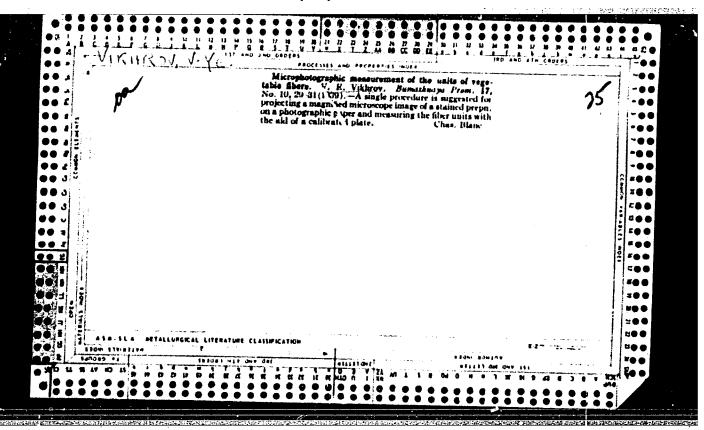
neutron flux, gamma neutron reaction

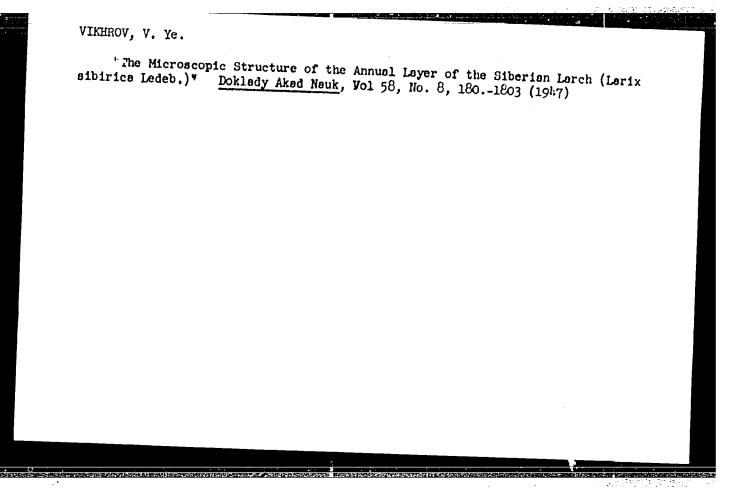
ABSTRACT: The authors determined the distribution of the burn-up along the length of the fuel element by measuring the intensity of the 0.66-Mev gamma lines of the Cs<sup>137</sup>. in the reaction products with a scintillation y spectrometer with resolution 10.-12%. The fuel element tested was made of uranium dioxide with 5.5% enrichment, operated for 428 effective days, and stored for 575 days after removal from the reactor. It was cut in the hot chamber in 11 places and two samples of the uranium dioxide were chosen from each cut. The activity was measured with a scintillation counter in a specially designed pickup (Fig. 1) and the data were processed with a pulse-height analyzer (AI-100) provided with a special information extraction system (VD) developed at the Institute of Atomic Energy im. I. V. Kurchatov by M. P. Sokolov. The calibration of

Card 1/2

UDC: 621.039.548







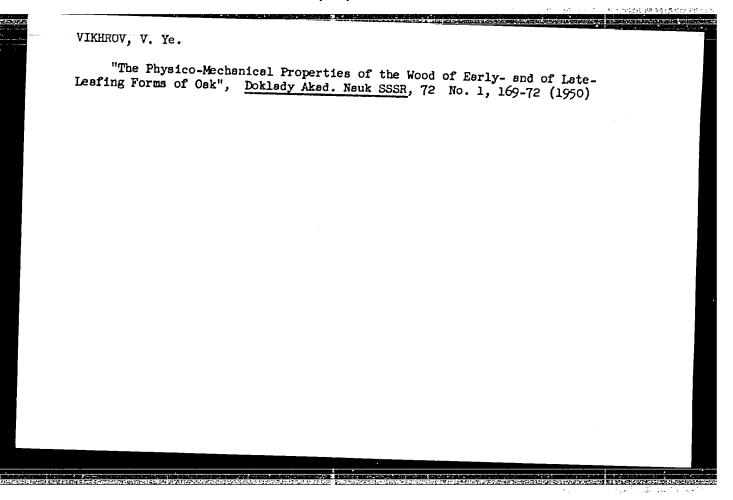
"The Moisture Content of Wood in the Trunks of Deciduous Trees"

Doklady Akad. Nauk SSR, 60, #3, 489-91 (1948)

Withrow, V. Ye.

"Physicomechanical Properties of Elm Wood Pulp", Doklady Akad. Nauk SSSR,
65, No. 1, 101-104 (1949)

Inst. of Forestry, Dept Biol Sci. AS USSR



VIKHROV, V. Ye.

VIKHROV, V. Ye. - "Structure and Physicomechanical Properties of Oak Wood in Connection With Vegetation Conditions." Sub 15 May 52, Inst of Forestry, Acad Sci USSR. (Dissertation for the Degree of Doctorates in Agricultural Sciences)

SO: Vechernaya Moskva January-December 1952

VIKHROV, V.Ye.; EN'CHOVA, E.I.

OAK

Dynamics of growth and quality of timber in early and late blooming oak. Les. khoz. 5 no. 9, 1952.

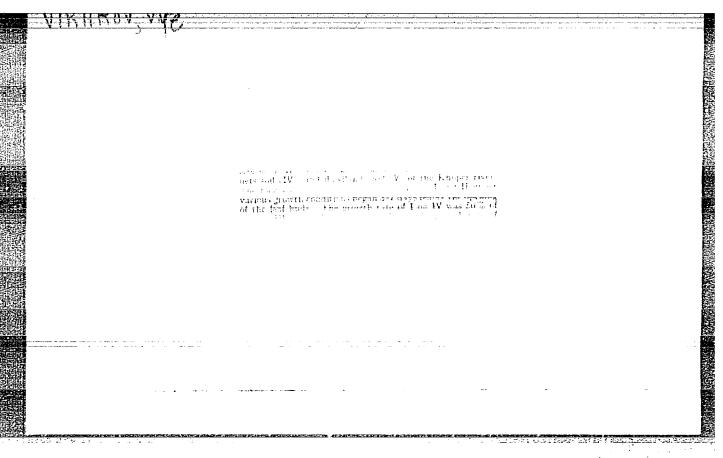
Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED

VIKHROV, V. Yo.; TUMANYAN, S.A.

Anatomical structure and physicomechanical properties of the wood of oak roots. Izv.AN Arm.SSR.Biol.i sel'khos.nauki 6 no.11:27-43 '53.

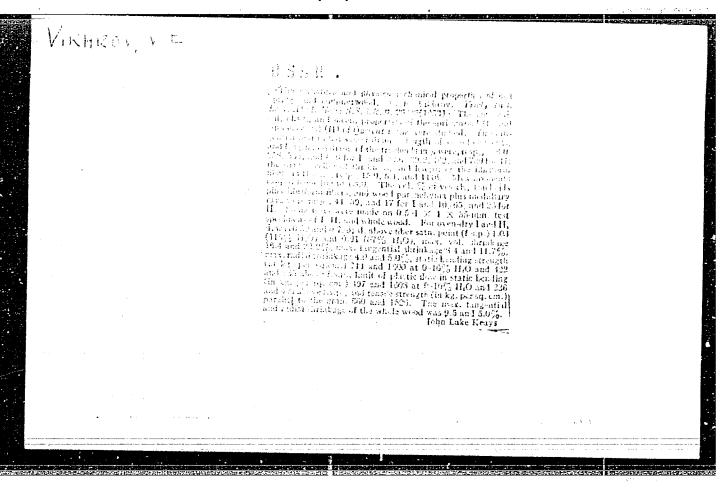
1. Institut lesa AN SSSR, Moskva i Botanicheskiy institut AN Arm. SSR, Yerevan.

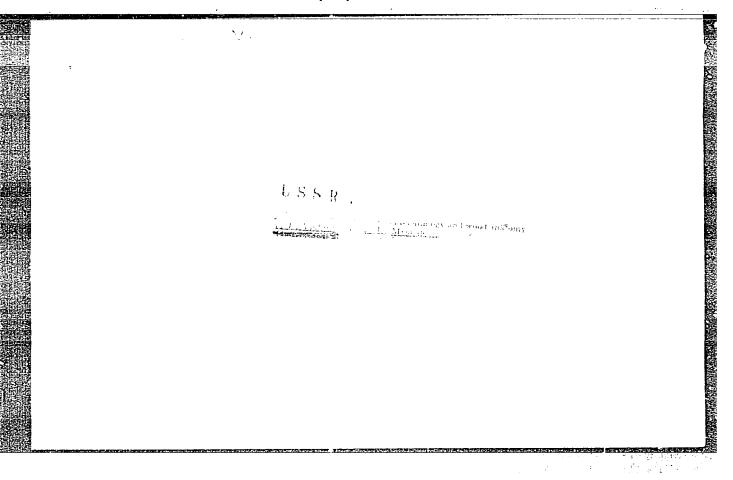
(Oak) (Roots--Anatomy) (Wood)



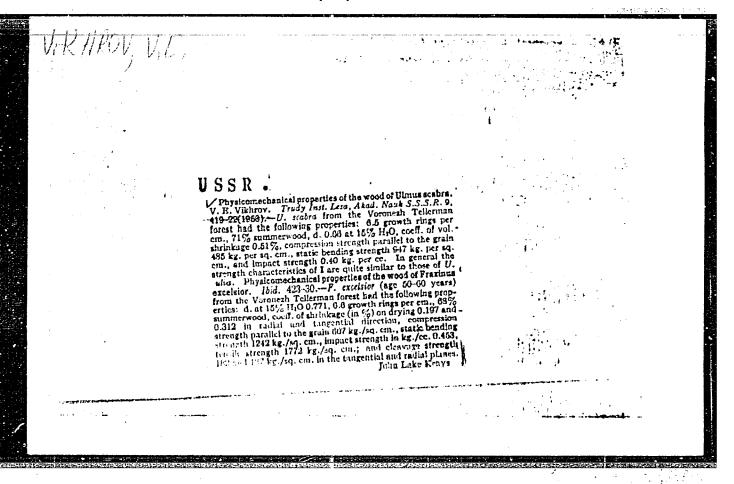
# "APPROVED FOR RELEASE: 09/01/2001 CIA-RDF

CIA-RDP86-00513R001859720016-2





The moisture content of healthy and fungus-infected word in the boles of prowing trees. S. I. Vanin, V. A. Badlenov, and V. E. Vikhrav. Trudy Inst. Leta, Akad. Nauk S.S.S.R. 9, 235-001/2020.—Data are given on the moisture distribution and degree of fungula tracks at various bole heights in 59-60-year-old aspena (1) infected with Fonus igniferiat, and in 40-46-year-old cokes (II) infected with Polysoran draphilus, P. sulthurent, and F. robutus. I showed the highest percentage of H <sub>2</sub> O and F. robutus. I showed the highest percentage of H <sub>3</sub> O and degree of attack.  John Lake Keayy.  2	Butto the tripe we have been				
bole heights in 59-60-year-old aspens (1) infected with Fonus ignierius, and in 40-45-year-old oaks (II) infected with Polyporus dryophilus, P. sulfances, and P. robustus. I showed the highest percentage of H <sub>1</sub> O in the 1st stage of attack and the lowert in the 3rd stage; II showed no relationship obstacts percentage of H <sub>1</sub> O and degree of attack.		The moisture content of he wood in the boles of growing to Badlenov, and V. E. Vikhrov.	Trudy Inst. Lesa, Ahad.	The second secon	
2	\$	bole heights in 59-69-year-old Fonus ignierius, and in 40-45-y with Polyporus dryophilus, P. 33 Islands and the highest percentage attack and the lowest in the 3rd	aspens (1) innerted with rear-old oaks (II) infected of those in the 1st stage of stage; II showed no rela- (0) and degree of attack.		
				3	



	mily,												,
Str 262	ucture P•	and	the p	hysical	projerti	es of	becw size.	Moskva,	Akademiia	nauk	28x,	19°4.	
1. 2.	Onk. Wood												
22775 62		28:170-250	AND TORK			1000mm	7 72 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -			-			

VIKHROV, Viktor Yevgrafovich, prof.; PERELYGIN, L.M., otv.red.;
OHISTAROVA, C.E., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Identifying characteristics of the wood of species of prime importance to forestry and the lunber industry of the U.S.S.R.] Diagnosticheskie priznaki drevesiny glavneishikh lesokhoziaistvennykh i lesopromyshlennykh porod SSSR. Moskva, Izd-vo Akad.nauk SSSR, 1959. 131 p. (Wood--Anatomy)

HOSKALEVA, V.Ye.; VIKHROV, Y.Ye., doktor sel'skokhozyaystvennykh nauk, otvetstvennyy redsktor; kOPHOV, Ye.V., redsktor izdstel'stva; POLYAKOVA, T.V., tekhnicheskiy redsktor

[Structure of wood and its modification under physical and mechanical influences] Stroenie drevesiny i ego izmenenie pri fizicheskikh i mekhanicheskikh vosdeistviiakh. Moskva, Izd-vo Akad.nauk SSSR.

1957. 164 p.

(Wood)

KALNIN'SH, Arvid Ivanovich; Vikhkov, V.Ye., otvetstvennyy red.; KANTOR, I.A., red.izd-ve; MAKUNI, Ye.V., tekhn.red.

[Lumber decay protection in rural building] Protivognilostnaia zashchita lesomaterialov v sel'skom stroitel'stve. Moskva, Izd-vo Akad. nauk SSSR, 1958. 149 p. (MIRA 11:3) (Wood-Preservation)

VIKHROV, V. Ye., Prof., Dr. Forestry Inst., AS USSR

"Study of the Structure and Techncal Properties of Wood with Respect to the Growing Conditions of the USSR," <u>Acta Botanica Sinica</u>, Vol. 3, No. 2, June 1958, p 108.

VIKHROV, V.Ye. [Vikhrau, V.E.], doktor sel'skokhoz.nauk

On the strength of wood. Vestsi AN BSSR.Ser.biial.nav. no.2:12-19
'62. (MIRA 15:8)

(TREES, FOSSIL)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2"

PERELYCIN, L.M., prof.; VIKHROV, V.Ye.; red.; SIDOROVA, V.I., red.izd-va; POPRYADUKHIS, K.A., tekhn.red.

[Wood, its structure and properties] Drevesinovedenie. Moskva, Gos. izd-vo "Sovetskaia neuka," 1957. 361 p. (MIRA 11:2) (Wood)

VIKHROV, V.Ye.; PROTASEVICH, R.T.; Prinimala uchastiye KOSTAREVA, L.A., laborantka

Wood structure of the dwarf elm Ulmus pinnato-ramosa Dieck and the green ash Fraxinus lanceolata Borkh. growing in Solonetz and Chernozemlike soils. Nauch. dokl. vys. shkoly; biol. nauki no.1:120-125 164. (MIRA 17:4)

1. Rekomendovana kafedroy drevesinovedeniya Belorusskogo tekhnologicheskogo instituta.

VIKHROV, Viktor Yevgrafovich; LOBASENOK, Artemiy Kuz'mich;
MINCHUKOVA, T.G., red.; MORGUNOVA, G.M., tekhn. red.

[Technical properties of wood as related to forest types]
Tekhnicheskie svoiatva drevesiny v sviazi s tipami lesa.
Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia RSSR, 1963. 71 p.

(Wood)

(Wood)

VIKHROV, V.Ye.

Use of wood in the Neolithic period. Sbor. bot. rab. Bel. otd.
VBO no.2:20-31 '60. (MIRA 15:1)
(Stone age) (Wood)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2"

AND THE PROPERTY OF THE PROPER

9 (2)

06194 SOV/115-59-11-22/36

AUTHOR:

Vikhrov, G.P.

TITLE:

A Transistorized Universal Electronic Counter

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 11, pp 49-52

ABSTRACT:

The author describes an electronic counter with a ca-The author describes an electronic counter with a capacity of 10-5 \div 1. The block diagram of this transistorized counter is shown in Fig 1. The device was designed for measuring frequencies (10-5 \div 1.5 \cdot 105 \cdot cps) and time intervals (10-4 + 105 \sec), and electrical signals with an error below \div 2 \cdot 10-5 \div 1 \cdot count. Frequency measurements are reduced to counting the number of the counting the number of the count. quency measurements are reduced to counting the number of pulses, equal to the number of cycles of the input signal, during a time interval which is known with sufficient accuracy and which is determined by a quartz oscillator. The author describes in detail the different possible operating conditions. A control circuit is used for checking the accuracy of the counter. One of the most important parts is the conversion unit which converts the binary counting system

Card 1/2

**0619**4 SOV/115-59-11-22/36

A Transistorized Universal Electronic Counter

with a factor K = 16 to the decade system with a counting factor of K = 10. The principal circuit arrangement of this unit is shown in Fig 3. It consists of four binary cells. Each cell is a conventional transistorized trigger circuit with Pl3A transistors. In the socalled "cycle generator" P201 and P13 transistors are used. The shaping unit is composed of P-13 transistors. It converts input signals of any shape to pulses with the required stable parameters. This unit is composed of Schmitt trigger circuits and functions similar to a vacuum tube trigger circuit. The electronic counter is 440x180x195 mm and has a weight of 8 kg, It has a power consumption of only 0.5 watts and may be used in laboratories and under field conditions. Engineers A.A. Avizhen', K.I. Sakalauskas, A.A. Chervyakov. L.Ya. Kovaleva and S.A. Yushka participated in the development of the counter. There are 1 block diagram and 2 circuit diagrams.

Card 2/2

# VIKHROV, LA.

USSR/Engineering - Tools

Card 1/1 Pub. 103 - 11/23

Authors : Grebennikov, O. F.; Vikhrov, L. A.; and Akinin, E. Ya.

Title : A device for rolling threads with two part-adjustable dies

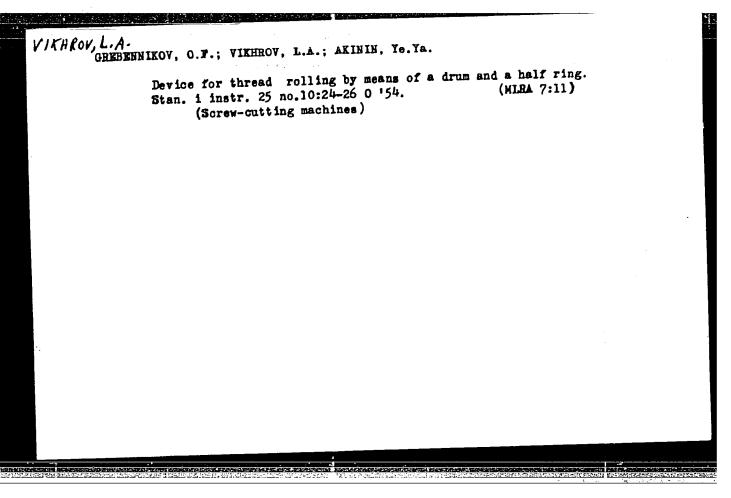
Periodical : Stan. i instr. 10, 24-26, Oct 1954

Abstract : The editorial gives some information on rolling threads with two partadjustable dies (drum and split-ring). A description of the above mentioned dies is presented, together with tables giving technical specifications.

Three USSR references (1949-1951). Drawings; diagram.

Institution : ...

Submitted : ...



USSR / Microbiology. General Microbiology.

F-1

Abs Jour

: Ref Zhur - Biol., No 20, 1958, No. 90751

Author

: Buyanovskaya, I. S.; Vikhrova, N. M.; Andreyeva, N. A.

Inst

: Not given

Title

: A Study of the Antibacterial Spectrum of an Antibiotic,

Actinoxanthine, Using Different Methods of Derivation

Orig Pub

: Antibiotiki, 1957, 2, No 1, 17-21

THE RESIDENCE OF THE PERSON OF

Abstract

: By the method of two-fold serial isolations on MPB having a pH of 7.2 - 7.4 one determined the activity of the culture fluid of actinomycetes No. 1131 and of the preparation of actinoxanthine I in various stages of purification conducted by different processes. In the actinomycetes culture fluid not less than 3 antibiotic substances were observed, of which I did not affect Gram-negative microorganisms and was active in respect to Gram-positive

microbes such as staphylococci which were resistant to other

Card 1/2

USSR / Microbiology. General Microbiology.

F-1

Abs Jour : Ref Zhur - Biol., No 20, 1958, No. 90751

antibiotics. With the determined method of chemical purification I possessed high anti-tumor activity in in vitro and in vivo experiments. -- S. M. Navashin

Card 2/2

11

POGORELOV, G.; IVANENKO, I.; TROITEKIY, N.; VIKHROV, P.; VASIL'YEVA, V.

Discussing the draft of the Basic Principles of Labor Law of the U.S.S.R. and the Union Republics. Okhr.truda i sots.strakh. 3 no.3:33 Mr 160. (HIRA 13:7)

1. Tekhnicheskiye inspektora Moskovskogo oblastnogo soveta profsoyuzov. (Labor laws and legislation)

POGCRELOV, G.; TROITSKIY, N.; IVANENKO, I.; VASIL'YEVA, V.; VIR 70V, P.

Old shortcomings in the new equipment. Okhr.truda i sots.
strakh. no.12:29-30 D '59. (NIRA 13:4)

1. Tekhnicheskiye inspektora Moskovskogo oblastnogo soveta
profsoyusov.

(Moscow—Textile industry—Hygienic aspects)

MODESTOVA, T.A. [redsktor]; VIKHROV, P.G.; SHELIKHOV, N.N.

[Textile science for the sewing industry] Materialovedenie shveinogo proizvodtsva, Pod red. T.A. Modestovoi. Moskva, Gos.nauchno-tekhn.izd-vo legkoi (M.Ra 6:8) promyshl., 1953. 185 p.

(Textile fabrics)

(Textile fabrics)

MODESTOVA, Tat'yana Alekseyevna; VIKHROV, Pavel Georg'yevich; SHELIKHOV, Nikolay Nikolayevich; SOSULIMA, V.H., Fedaktor; MEDVEDEV. L.Ya., tekhnicheskiy redaktor

[Textile fabrics and sewing supplies; merchandise guide for the clothing industry] Materialovedenie shveinogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promysh. tovarov shirokogo potrebleniia SSSR. 1955. 190 p. (MLRA 8:6) (Textile fabrics) (Sewing-Equipment and supplies)

YAKOVLEV. M.F.; VASIL'YEVA, V.A.; VIKHROV, P.P.; IVANISIKO, I.P.; POGORELOV, G.I.; TROITSKIY, N.L.

General inspection of the work organization level in factories. Tekst.prom. 20 no.6:51-53 Je '60. (MIRA 13:7)

1. Machal'nik podotdela organizatsii truda Mosoblsovnarkhosa (for Yakovlev). 2. Tekhnicheskiyeinspektora Moskovskogo otdeleniya soveta profsoyuzov pri obkome profsoyuza rabochikh tekstil'noy i legkoy promyshlennosti (for all except Yakovlev).

(Moscow Province—Textile factories)

The battle of Stalingrad. Vest. Vozd. Fl. 40 no.10:30-36 0 '57.
(Stalingrad, Battle of, 1942-1943) (MIRA 12:2)

S/089/61/010/004/003/027 B102/B212

21.6200

AUTHORS: Pravdyuk, N. F., Pokrovskiy, Yu. I., Vikhrov, V. I.

TITLE: Effect of neutron bombardment on the internal friction of

monocrystalline and polycrystalline zinc

PERIODICAL: Atomnaya energiya, v. 10, no. 4, 1961, 347-352

TEXT: N. F. Pravdyuk has already reported in a lecture (Second Atomic Conference at Geneva 1958) about investigations of internal friction and of the critical amplitude of the maximum tension ocr before and after neutron

bombardment of metals, and also of the influence of the orientation of the basal plane (0001) to the longitudinal axis of monocrystalline zinc. The method and equipment used have also been described there. This paper publishes additional results which have been obtained with monocrystalline and polycrystalline zinc. ( $\sigma_{\rm cr}$  is that value of the maximum tension

amplitude, at which internal friction starts to be a function of the tension amplitude). The monocrystalline specimens showed the following orientations of the (0001) planes to the longitudinal axis: 15, 40, 66, 76, 86, and 88°;

Card 1/9

22600

S/089/61/010/004/003/027 B102/B212

Effect of ...

specimens with 15, 40, 76, and  $86^{\circ}$  orientation have been exposed to neutron radiation. The internal friction has been measured at transverse oscillations (300 cps) before and after neutron bombardments having integral fluxes of  $3\cdot10^{18}$  and  $1.5\cdot10^{19}$  n/cm² and at a ratio of fast to thermal neutrons of 1: 10. The amplitude of the maximum tension has been calculated from the oscillation amplitude. The results are represented graphically. Fig. 1 shows the change of internal friction as a function of the tension amplitude of non-irradiated monocrystalline zinc at angles  $\theta$  given above the curves; the figures given below are the values of  $\sigma_{\rm cr}$ .

Fig. 2 shows the same for neutron-bombarded (3·10<sup>18</sup> n/cm<sup>2</sup>) monocrystals. Fig. 4 shows the change of the minimum internal friction of monocrystalline zinc as a function of the angle  $\theta$ , and Fig. 5 shows the functions  $\sigma_{\rm cr}(\theta)$  -

both for monocrystals before and after bombardment. The following numerical values have been obtained:

ocr_	15°	40°	66°	76°	86°	88°	
before bombardment after bombardment (3.10 <sup>18</sup> n/cm <sup>2</sup> ) after bombardment (1.5.10 <sup>19</sup> n/cm <sup>2</sup> ) Card 2/9	105 200 350	20 100 280	-	120 200 -	400 500 550	-	

Effect of ...

\$/069/61/010/004/003/027 B102/B212

The theoretical value is given as  $\sigma_{cr} = 2\tau_{cr}/\sin 2\theta$ , where  $\tau_{cr} = \sigma_{cr}\cos\varphi\sin\theta$ .  $\tau$  denotes the tangential stress given by  $(P/A)\cos q\sin \theta$ ; and  $r/\Lambda = \sigma_{cr}$ . The notations are shown in Fig. 6: 0 denotes the angle between the line of application of the force and the glide plane;  $\varphi$  represents the angle between the direction mm of a possible displacement in the glide plane and the axis of the specimen; nn denotes the normal on the glide plane. It has been found that the value of o for bombarded specimens may be connected to the start of shift of dislocations along the basal plane. Fig. 7 shows  $1/Q = f(\sigma)$  for non-irradiated (1) and irradiated (2) polycrystalline zinc; the irradiation has been done with 3.1018 n/cm2. The experimental curves are discussed in detail. One may imagine that the curves  $1/Q = f(\sigma)$  consist of three sections 1)  $\sigma < \sigma_{cr}$ ; 2)  $\sigma > \sigma_{cr}$ ; 3)  $\sigma > \sigma_{cr}$ The first two sections are the parts with reproducible internal friction, and the third one is that with irreproducible friction. The authors thank S. T. Konobeyevskly for discussions. There are 7 figures, 1 table and 1 Soviet-bloc reference.

SUBMITTED: November 14, 1960 Card 3/9

PRAVDYUK, N.F.; POKROTSKIY, Yu.I.; VIKHROV, V.I.

Effect of neutron radiation on the internal friction of monocrystalline and polycrystalline zinc. Atom.energ. 10 no.4:347(MIRA 14:4)

(Zinc) (Neutrons)

352 Ap 161.

86-10-21/44

AUTHOR:

Vikhrov V.I., Maj.Gen. of the Air Force

TITLE:

The Stalingrad Battle (V bitve pod Stalingradom)

PERIODICAL:

77 8 2 1 1 1 1 1

Vestnik Vozdushnogo Flota, 1957, Nr 10, pp. 30-36

(USSR)

ABSTRACT:

Card 1/4

In the summer campaign of 1942, the German command concetrated about 240 divisions against Soviet army, the main bulk of which was operating on the Stalingrad direction. The main grouping of these forces included: the 6th field army, 4th tank army, and the 4th air fleet (containing 1200 aircraft i.e. nearly half of the whole German air force). Thus, the enemy succeeded to concentrate considerable

numerical superiority in forces and technical combat

means.

86-10-21/44

The Stalingrad Battle (Cont.)

Despite this superiority, the Soviet army was able to hamper the enemy movements and to gain the time neccessary for preparation of counteroffensive. The Soviet 62nd army, under the command of Gen Chuykov, was defending the Stalingrad front. The Soviet aviation participated in defense of Stalingrad under extremely difficult conditions. The enemy by filling up constantly his losses, was able to maintain at the Stalingrad front 2-3 times superior air force (800-1000 aircraft). Soviet command, preserving its aviation forces, used them only for the most decisive operations. Taking into consideration the numerical inferiority of the Soviet aviation, there was developed a special tactic of the aviation might operations, which was harassing the enemy relentlessly and many times succeeded to frustrate his offensive preparations. During the day the Soviet bombers operated from high altitudes and the shturmoviks from the medium heights, thus reducing the possibility of losses from the German fighters. At that period

**Card** 2/4

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2"

86-10-21/44

The Stalingrad Battle (Cont.)

Soviet pilots applied new air tactics for instance, attack of shturmoviks on a closed circle. During the Stalingrad battle the control of air combat became perfected thanks to a larger use of radio communications from the ground to pilot and vice versa. The first radio control post together with aviation division command station was installed in August 1942 at the North outskirts of Stalingrad. Thus the divisional commander was able to conduct the air combat and guide his pilots. Already, in September 1942, at the Stalingrad front the Soviet aviation established a reliable radiocommunication network, observation, early warning, communication and guidance system. Only in the second half of October 1942 in the region of Burkovskiy the fighters were called by radio from their airfield 95 times and 125 times they were radio guided against the enemy bombers. During 20 days of combat 315 enemy aircraft operations were destroyed, mostly fighters. Gradually, at the Stalingrad front the initiative in the air combat was wrested from the enemy. The fighter command received new types of aircraft: Yak-7 and La-5 equal in combat qualities to those of the enemy. Finally, during the Soviet

Card 3/4

The Stalingrad Battle (Cont.)

86-10-21/44

counter offensive at the Stalingrad front the Soviet aviation was active in destruction of encircled German grouping and frustrated the German plan of air evacuation of the encircled troops. The German 330,000 strong army was liquidated on the banks of the river Volga. In this great victory the Soviet aviation got a very important share.

AVAILABLE:

Library of Congress

Card 4/4

DIKMAROV, S.V., inzh.; ALFEROV, V.Ye., inzh.; VIKHROV, V.P., inzh.

Retention of optimum operating conditions of power transformers of industrial enterprises. Prom. energ. 19 no. 4: 5-7 Ap 164.

(MIRA 17:5)

# "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2

VIKHROV, V.Ye.; KOSTAREVA, L.V.

Anatomical structure of the wood of roots in some conifer species.
Bot. zhur. 45 no.9:1259-1270 S '60. (MIRA 13:9)

1. Institut less AM SSSR, Moskva.
(Roots (Botany)--Anatomy) (Coniferae)

# Features of the microstructure of wood from the roots of certain conifers. Dokl.AN BSSR 4 no.2:74-77 F '60. (MIRA 13:6) 1. Predstayleno akademikom AN BSSR I.D. Yurkeviohem. (Wood—Anatomy) (Roots(Botamy))

IVANOV, Yu.M.; BAZHENOV, V.A.; VIKHROV, V.Ye., prof., doktor sel'sko-khoz.nauk, otv.red.; KUZNETSOVA, Ye.B., red.izd-ve; DOROKHINA, I.N., tekhn.red.

[Testing physical properties of wood; elasticity, permeability to air, and swelling pressure] Issledovania fizicheskikh svoistv drevesiny; elastichnost!, vozdukhopronitssemost!, davlenie nabukhania. Moskva, Izd-vo Akad.nauk SSSR, 1959. 73 p. (MIRA 13:3)

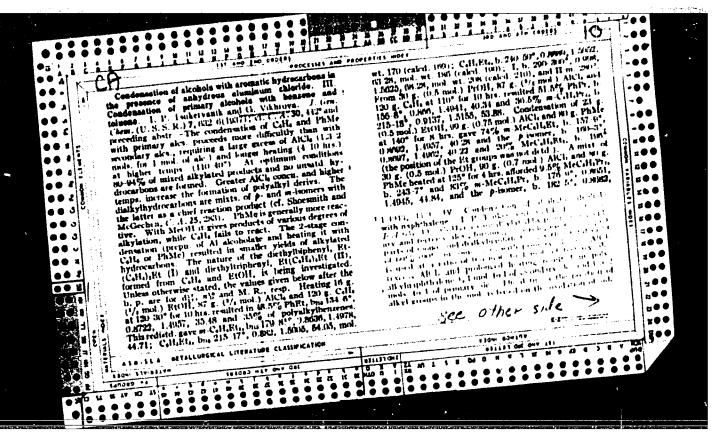
(Wood--Testing)

IVANOV, Yu.M.; BAZHRNOV, V.A.; VIKHROV, V.Ye., prof., doktor sel'skokhoz. nauk, otv.red.; KUZHETSOVA, Ye.B., red.izd-va; DOROKHIHA, I.H., teknn.red.

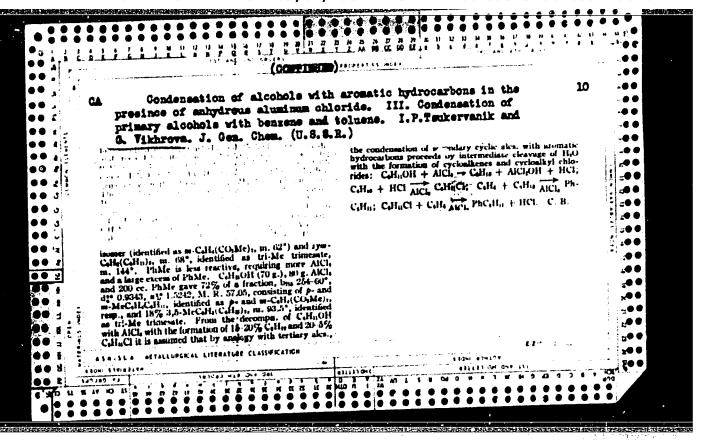
[Investigation of the physical properties of wood; elasticity, permeability to air, pressure of swelling] Issledovaniia fizicheskikh svoistv drevesiny; elastichnost', vozdukhopronitsaemost', davlenie nabukhaniia. Moskva, Izd-vo Akad, nauk SSSR, 1959. 73 p. (MIRA 13:1)

(Wood--Testing)

### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2



## "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2



# VIKHROVA, A.G.; RAAG, F.I.

Control of yarn separation on grooved cylinders in doubling operations. Tekst.prom. 22 no.12:22-23 D '62. (MIRA 16:1)

1. Nacahl'nik laboratorii po krucheniyu Leningradskogo nauchnoissledovatel'skogo instituta tekstil'noy promyshlennosti (for Vikhrova). 2. Glavnyy konstruktor spetisal'nogo konstruktorskogo byuro tekstil'noy promyshlennosti (SKBTP) Leningradskogo soveta narodnogo khozyaystva (for Raag). (Spinning machinery)

SMIRNOV, V.P., inzh., red.; BLOKHINA, N.B., kand. arkh., red.; VIKHROVA, L.T., arkh., red.; KLIMOVA, G.D., red.izd-va; NAUMOVA, G.D., tekhn. red.

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroiizdat. Pt.2. Sec.L. ch.3. [Specifications for the design of nurseries and kindergartens] Detskie iasli-sady; normy proektirovaniia (SNiP II-L. 3-62). 1962. 11 p. (MIRA 16:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosudarstvennyy komitet Soveta Ministrov SSSR po delam stroitel'stva (for Smirnov). 3. Nauchnoissledovatel'skiy institut obshchestvennykh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for Blokhina, Vikhrova). (Kindergartens) (Day nurseries)

# "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2

SHUHTMAN, S. S.; VIXHHOVA, M. N.

Parasites - Carp

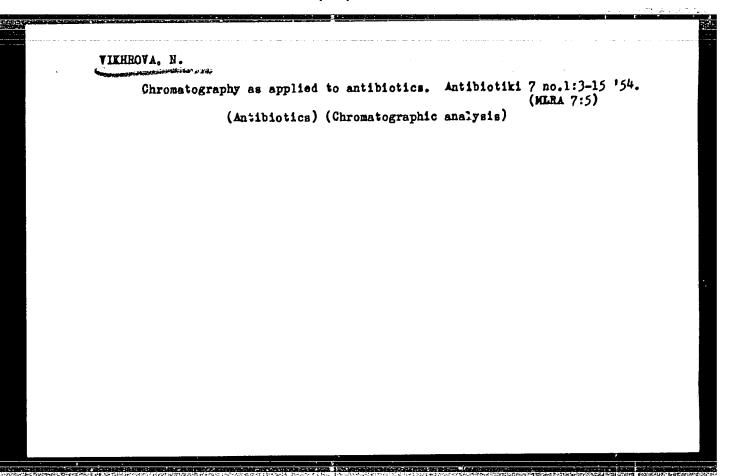
New interesting species of mucous sporozoa. Uch. zap. Len. un. No. 141, 1952.

SO: Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

# "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2

- 1. VIKHROVA, N.M. GORODETSKAYA, A.V.
- 2. USSR (600)
- 4. Streptomycin
- 7. New data on chemical purification and islotion of penicillin and streptomycin Antibiotiki 5, no. 4, 1952

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



BUYANOVSKAYA, I.S.; VIKHROVA, N.M.; ANDREYEVA, N.A.

Antibacterial spectrum of the antibiotic actinoxanthine obtained by various production methods. Antibiotiki 2 no.1:17-21 Ja-F '57. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut antibiotikov.

(ANTIBIOTICS, eff.

antibact. spectrum of actinoxanthine, antibact.

spectrum obtained by various prod. methods)

EXCERPTA MEDICA Sec.4 Vol.11/4 Med.Microb. etc. April58 806. CHEMICAL INVESTIGATION OF THE ANTIBIOTIC ACTINOXANTHINE.

I. INVESTIGATION OF THE METHODS OF SEPARATION AND CHEMICAL PURIFICATION OF ACTINOXANTHINE (Russian text) - Vikhrova N. M., Kryuchkova T. I., Preobrazhenskaya E. V. and Knorthiova A. S. Antibiotics Inst., Moscow - ANTIBIOT. 1957, 1 (21-24) Illus. 2

The culture fluid of actinomyces 1131 inhibits growth of Ehrlich's adenocarcinoma. It acts also on M. pyogenes aureus. Extraction of the antibiotic was obtained principally by adsorption. Activated charcoal, permutit, silicagel, bentonite, infusoria earth, aluminium oxide and synthetic ion-exchange resins (cationic and anionic) were used for adsorption. After adsorption on charcoal it was not possible to find a satisfactory method for desorption. Much better results were obtained with aluminium o. ide adsorption. Chromatographic purification of the antibiotic on the aluminium oxide column produced 4 layers: dark-brown, light-coloured, orange and a lower adsorbent part. The antibiotic is mostly in the orange layer, and the by-products in the brown layer. The culture fluid was treated sucessively with 3 portions of the adsorbent under static conditions. The first portion of the adsorbent adsorbs 50% of by-products, 2nd and 3rd portions 25 to 28%. Eluates were 4 to 6 times more active than culture fluid but they contained a large amount of difficultly separable inorganic salts. Accordingly, another method was tried. The most promising was a method whereby the antibiotic was salted out from the culture fluid with ammonium sulphate; the concentrate was purified on an Al2O3 column, treated with ion-exchange resins and BaCO<sub>3</sub>, and evaporated in vacuo at 32-34° C. in a stream of CO<sub>2</sub>. The dry substance loses its antistaphylococcal activity when stored aerobically, but maintains it for 6 months if stored anaerobically. After salting out, the activity of the substance increases 30-fold. During chromatographic purification there is no change in the concentration of the preparation. The yield is 80-90% The activity decreases after BaCO<sub>3</sub> treatment (yield 50%). After purification the

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2"

preparation strength is 65,000 U./mg. Anti-tumour activity in vitro was 0.2 µg.

ml. and in vivo  $0.3 \mu g$ ./ml.

### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2

STRUKOV, I.T.; VIKHROVA, N.M.; NIKITINA, N.M.; TEBYAKINA, A.Ye.; BUYANOVSKAYA, I.S.; SHNEYERSON, A.N.; CHAYKOVSKAYA, S.M.

Phenoxybenzylpenicillin (phenbenicillin) and its microbiological study. Antibiotiki 9 no.1:3-7 Ja '64.

(MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovateliskiy institut antibiotikov,

Moskva.

WARHROVA, N.M.; STRUKOV, I.T.; TEBYAKINA, A.Ye.; CHAYKOVSKAYA, S.M.; SHNEYERSON, A.N.; DUBOVA, V.G.

Nafcillin and its microbiological properties. Antiblotiki 10 no.1:3-9 Ja \*65. (MIRA 18:4)

1. Vsesoyuznyy nauchnc-issledovateliskiy institut antibiotikov, Moskva.

KUZNETSOV, V.D.; SOROKINA, Ye.I.; VIKHROVA, N.M.; KRYUCHKOVA, T.I.; KLEOPINA, G.V.; KHOKHLOV, A.S.

Producer of actinomycin belonging to the fluorescent group of actinomycetes. Zerdy Inst. microbiol. no.8:193-201 '60. (MIRA 14:1)

1. Vsesoyuznyy neuchno-issledovateliskiy institut antibiotikov, Moskva.

(ACTINOMYCETALES)

(ACTINOMYCIN)

Pag chác

VIKHROVA, O.K., assistent

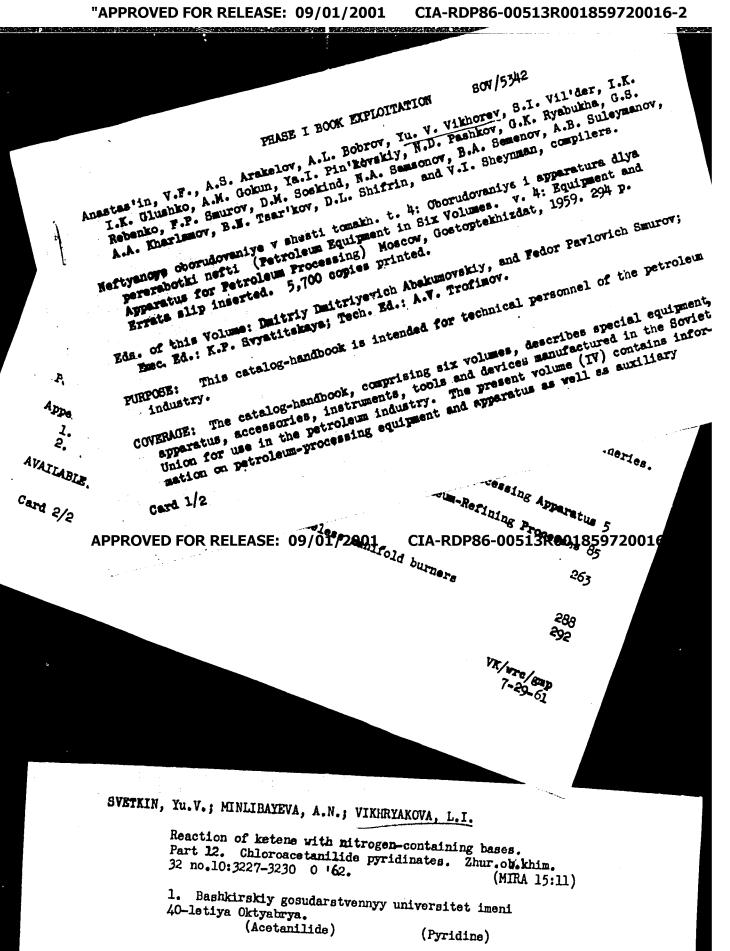
Formation of autoantibodies in experimental hypothermia.
Trudy Hovosib.gos.med.inst. 27:146-165 57. (MIRA 12:9)

1. Iz kafedry fakul tetskoy terapii (zav.prof. G.D.Zalesekiy) i kafedry patofiziologii (zav.dots. G.L.Lyuban) Novosibirskogo meditsinskogo instituta.

(ANTIGENS AND ANTIBODIES) (HYPOTHERMIA)

YATSENKO-KHMELEVSKIY, A.A.; VIKHROVA, V.Ye.; GYYRYAN, M.S.; MOSKALEVA,
V.Ye.; TAKHTADZHYAN, A.L., otvetatvennyy redaktor; SUVOROVA, L.D.,
tekhnicheskiy redaktor.

[Principles and methods of investigating the structure of wood]
Osnovy i metody anatomicheskogo issledovaniia drevesiny. Moskva,
Izd-vo Akademii nauk SSSR, 1954. 337 p. [Microfilm] (MIRA 8:2)
(Wood)



VIKHTENKO, I. I. Cand Agr Sci -- (diss) "Fertilization of cabbages under irrigation with subterranean waters under conditions of Donbas." Mos, 1959.

14 pp including cover (Mos Order of Lenin Agr Acad im K. A. Timiryazev), 110 copies (KL, 44-59, 128)

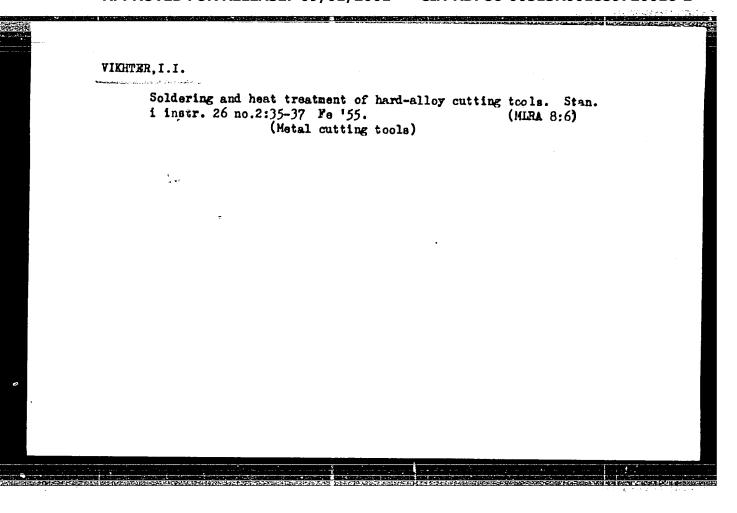
-32-

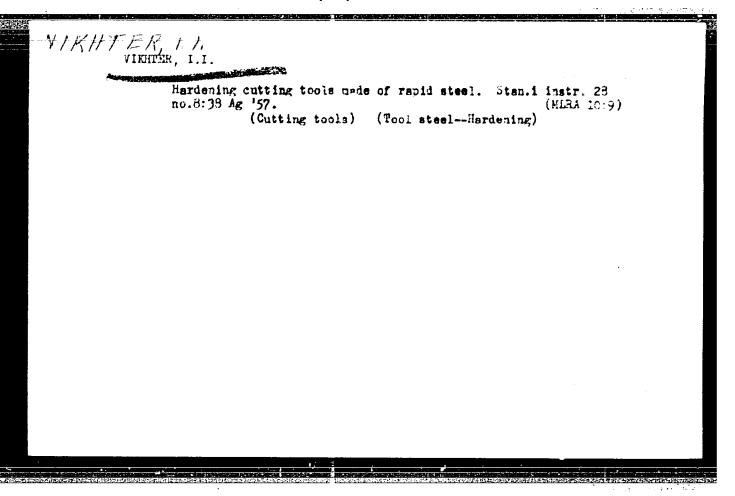
VIKHTENKO, I.I., aspirant

Effectiveness of fertilizer application to cabbage on fields irrigated by underground waters under conditions existing in the Donets Basin. Izv.TSKhA no.4:235-240 159.

(MIRA 12:11)

(Donets Basin -- Cabbage -- Fertilizers and manure)





VIKHTER, I I.

121-8-16/22

AUTHOR TITLE

PERIODICAL

ABSTRACT

VIKHTER, I.I.
The Hardening of Tools Made of High-Speed Steel

(Zakalka instrumentov iz bystrorezhushchey stali. Russian) Stanki i Instrument, 1957, Vol 28, Nr 8, pp 38 - 38 (U.S.J.R.)

On the occasion of the heat treatment of tools with abrupt transitions of cross sections cracks often develop, as is the case with angle cutters, which are produced with diameters of from 40 - 300 mm and which differ considerably as to thickness at the periphery as well as at the opening. After heat treatment both flat cracks of a length of from 2 - 3 mm and large cracks of different lengths along the whole length of the tooth develop. Because of the complicated method of production of cutters, costs are high and waste after heat treatment amounts to up 70 %. Investigations showed that the cracks always originate in the curvature of the outer flank of the tooth (on the outer diamater) and that the crack is smooth in the beginning but later becomes rough and similar to a fatigue crack in character. The formation of the curvatures of the tooth at both flanks is carried out by means of two different gear cutters; the greatest consumption of the gear cutters was observed to take place at the point of connection of the two surfaces when the unfinished cutters are worked and that is when it becomes blunt. As long as the gear cutter is sharp the metal is cut but as soon as it becomes blunt the metal is sheared

Card 1/2

121-8-16/22

The Hardening of Tools Made of High-Speed Steel

and tern off and the boundary layer begins to press which causes stresses and leads to the formation of cracks which are enlarged by the heat treatment. In order to avoid this disadvantage grinding of these parts (before the heat treatment) was introduced to remove the deforming upper layer of the metal. Thus the waste was completely stopped.

ASSOCIATION PRESENTED BY

Not given

SUBMITTED AVAILABLE

Library of Congress

Card 2/2

VIRSHTER, I.T.

USSR/ Engineering - Machine tools

Card 1/1

Pub. 103 - 16/19

Authors

. Vikhter, I. I.

Title

soldering and thermal treatment of infusible tools

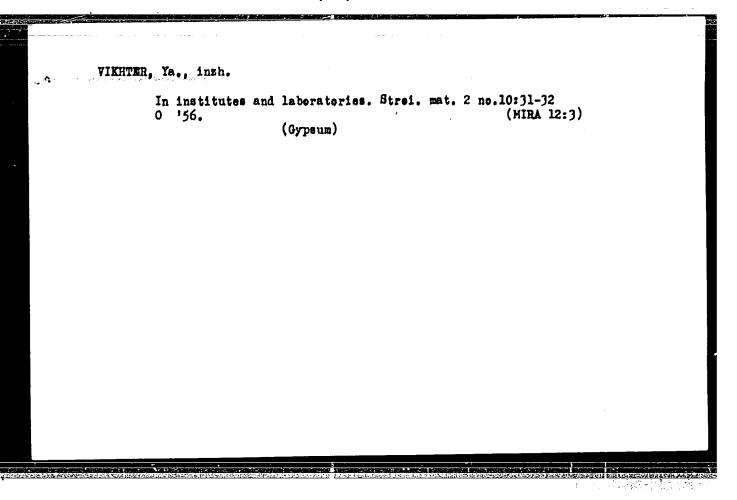
Periodical : Stan. i istr. 2, 35 - 37, Feb 1955

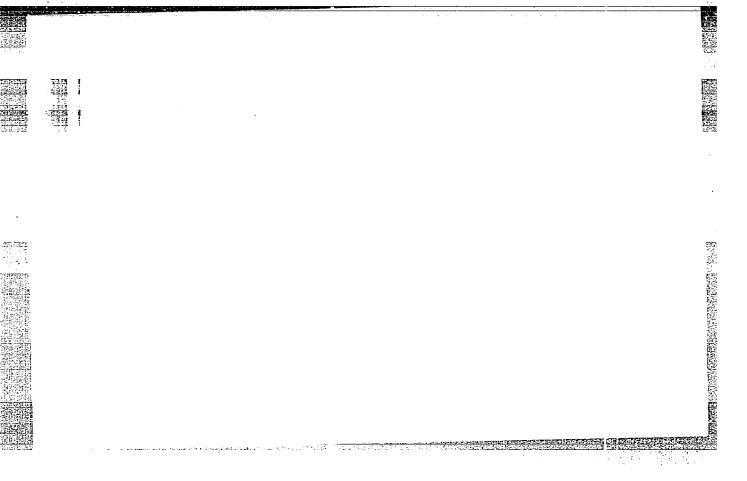
Abstract

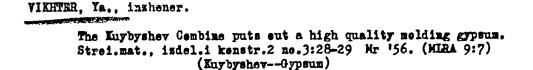
Certain methods for soldering-on and thermal treatment of infusible machine tools, developed by the Metallurgical Plant "FREZER" are described. The new methods pertain mostly to the processes of soldering-on and thermal treatment of cylindrical drill bits 6 - 12 mm in diameter. conical drill bits, reamers, and countersink bores. The attachment, used for fastening tools to be soldered on, is shown in drawing. Graph; drawings.

Institution:

Sabmitted:







Why sand-lime wall panels have deteriorated in Voronezh. Stroi.
mat. 11 no.6:30-31 Je '65.

(MIRA 18:7)

VIKHTER, Ya.I., inzh.; GUTSKOV, V.Ye., inzh.; ROZENBERG, Ya.M., inzh.

Silicate elements and details for construction of state farms.

Stroi. mat. 8 no.4:3-4 Ap '62. (MIRA 15:8)

(Sand-lime products) (Precast concrete construction)

VIKHTER, Yakov Isaakovich. Primmali uchastiye: LUTSIN, A.V.;

RASOVSKIY, V.E.; HOZENTAL', N.K.; RATINOV, V.V., nauchnyy
red.; STRATILATOVA, K.I., red.; TOKER, A.M., tekhn. red.

[Manufacture of gypsum]Proizvodstvo gipsa. Moskva, Proftekhizdat, 1962. 245 p. (Gypsum)

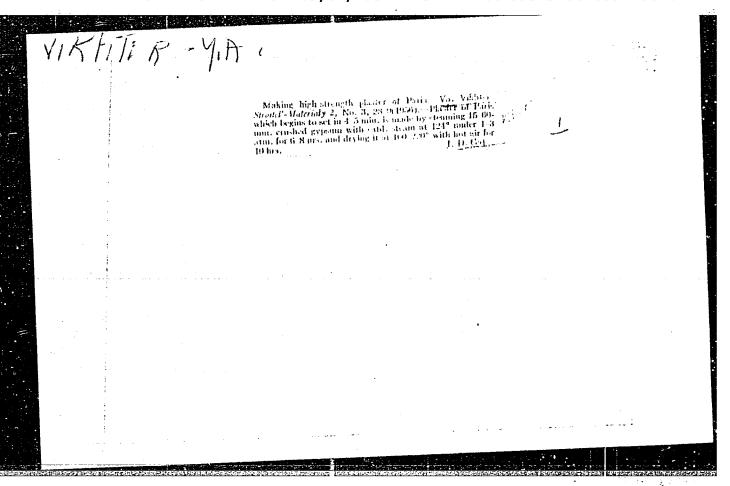
VIKEFER, Ya.I.; MAK, I.L.; SHVAGIREV, M.P.

[Production of gypsum and gypsum construction parts] Proisvodstvo gipsa i gipsovykh stroitel'nykh detalei. Moskva, Promstroiizdat, 1954. 142 p. (MIRA 8:10)

VIKHTER, Yakov Isaakovich; MAK, Isaak L'vovich; SHVAGIREV, Mikhail RetFOVICH; PECHURO, S.S., nauchnyy redaktor; TYUTYUNIK, M.S., redaktor;
PANOVA, L.Ya., tekhnicheskiy redaktor.

[Production of gypsum and gypsum construction elements] Proisvodstvo
gipsa i gipsovykh stroitel'nykh detalei. Moskva, Gos. isd-vo lit-ry
po stroit. materialam, 1954. 140 p.

(Gypsum) (Building materials)



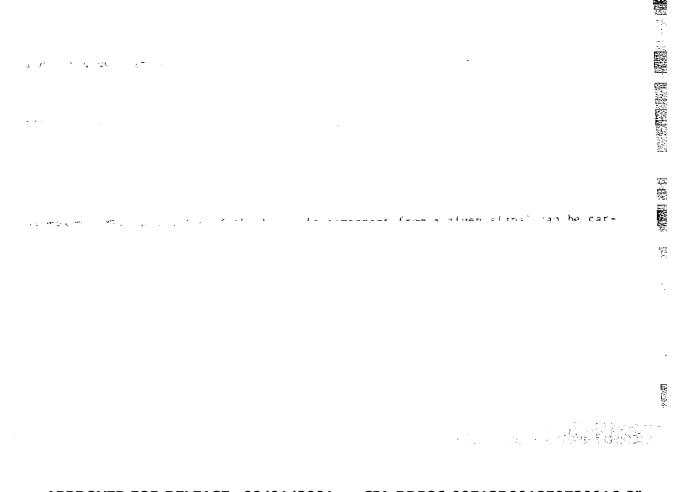
VIKHTERLE O. Acad., VESELY, (prof.)

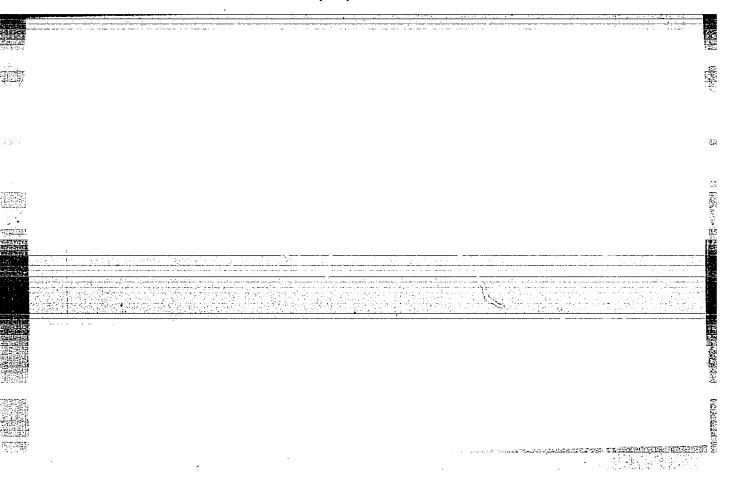
"On Cation Polymerization of Olefines."

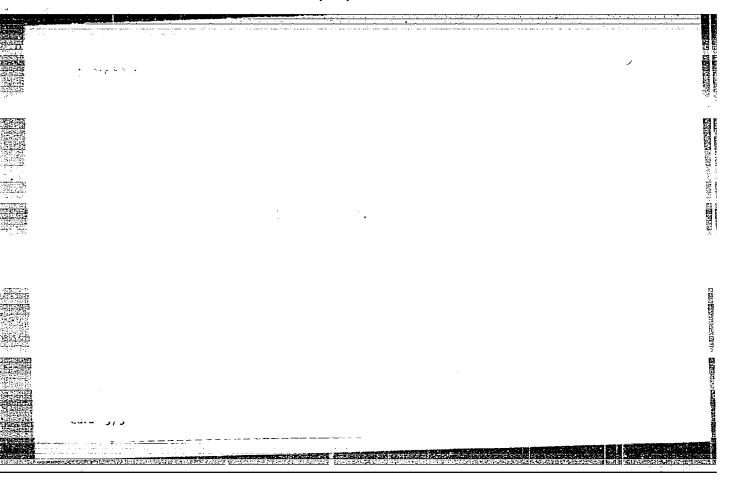
Inter-vuz Scientific Conference (Mezhvuzovskiye nauchnyye Konferentsil)

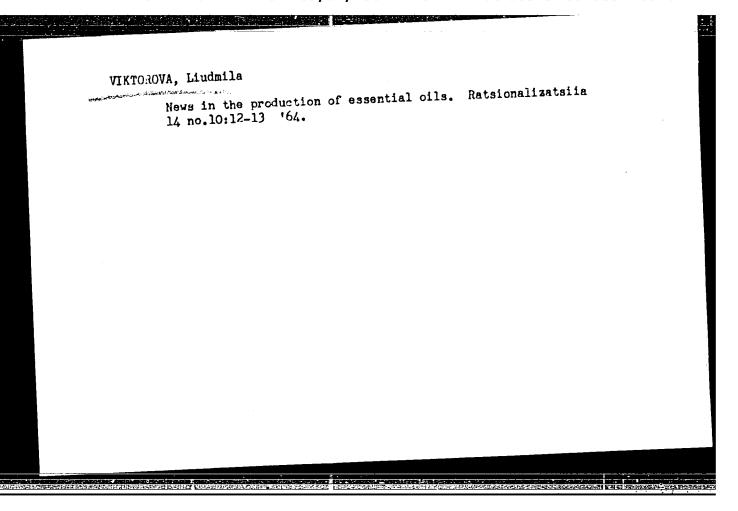
Vestnik Vysshey Shkoly, 1957, #9, pp 73 - 76 (USSR)

Abst: In January 1957, the Second All-Union Conference on Photosynthesis took place, organized by the institute of Plant Physiology of the Academy of Sciences, USSR, and by the Facultys of Soil-Biology of the Moskva Univsersity. About 700 representatives of 130 Scientific-research institutes, vuzes and ministries were present. The indroductory report was made by Academician A. L. Kursanov who described the development of photosynthesis during the last ten years and invited the scientists to concentrate their work on the application of radioactive and stable isotopes. Nearly 100 reports were read: 13 on photochemistry, 9 on the investigation of chloroplast structure, 19 on the investigation of pigments, 9 on the photosynthesis of water plants, bacteria, etc.







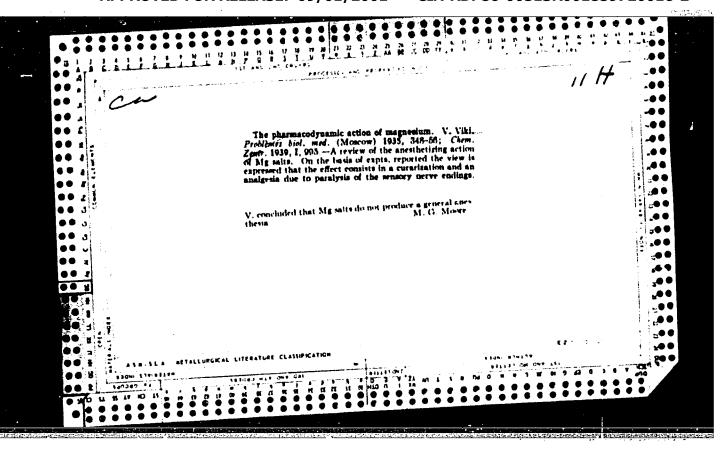


TERRITIVEW, A.P.; MORRELE, Ye.G.; PAROVA, G.V.; VIKTOROVA, E.M.

Chelate compounds with optically active ligands. Part 3:
Bla(o-hydroxyacotophonone)-(--)-propylenedifinine and ita
chelate compounds with copper. nickel, and cobalt (+2).

Zhur. ob. khim. 3A no.9:3025-3028 S 164.

(MIRA 17:11)



VIKIC, Ackela, inz. (Zagreb)

Orthogonal measurement of details with the use of minute book.

Geod list 17 no.1/3:69-70 Ja-Mr '63.

ACCESSION NR: AP4018363

S/0120/64/000/001/0053/0056

AUTHOR: Vikin, B. P.; Perfil'yev, L. P.

TITLE: Use of a combined-coincidence gamma spectrometer in the analysis of complicated decay modes

SOURCE: Pribory\* i tekhnika eksperimenta, no. 1, 1964, 53-56

TOPIC TAGS: gamma spectrometer, spectrometer, decay mode, complicated decay mode, Compton electron, Compton electron elimination

ABSTRACT: A method for the observation of a combined-coincidence spectrum for the lowest levels of nuclei having a complicated decay mode is described. An outfit of  $\beta$ ,  $\gamma$ ,  $E_{\gamma}$ -coincidence is offered; here,  $E_{\gamma}$  is the energy of the highest level equal to the sum of the energies of two cascade  $\gamma$ -quanta when that level is discharged, and  $\beta$  is part of the continuous beta-spectrum. The outfit permits observing only that part of the gamma-spectrum which is determined by the

Card 1/2

ACCESSION NR: AP4018363

number of recorded isotope levels. The number of levels is preselected which makes the use of a combined-coincidence gamma spectrometer possible. A spectrum of  $\beta \gamma(\gamma_1 + \gamma_2)$  coincidence of  $Eu^{152+154}$ , was obtained with the summator aligned to the energy of the 1,124-key level; the discriminator threshold in the beta channel was 220 kev. A spectrum with  $\sum_{i}$  about 170 kev was also obtained. Orig. art. has: 4 figures.

ASSOCIATION: Voronezhskiy gosudarstvenny\*y universitet (Voronezh State University)

SUBMITTED: 28Mar63 DATE

DATE ACQ: 18Mar64

ENGL: 00

SUB CODE: NS

NO REF SOV: 002

OTHER: 001

Card 2/2

VIKIN, B.P.; PERFIL'YEV, L.P.

Application of a gamma-spectrometer of overall coincidences to the analysis of complex decay schemes. Prib. i tekh. eksp. 9 no.1:53-56 Ja-F '64. (MIRA 17:4)

1. Voronezhskiy gosudarstvennyy universitet.

USSR/Physics - Ultrasonics

FD-2367

Card 1/1

Pub. 146 -32/34

Author

: Aksenov, S. I.; Vikin, B. P.; and Vladimirskiy, K. V.

Title

: Excitation of ultrasonic oscillations by pondermotive forces

Periodical

: Zhur. eksp. i teor. fiz. 28, 762-764, Jun 1955

Abstract

In their work with apparatus designed to investigate nuclear magnetic resonance (DAN SSSR, 96, 1954) the authors observed at frequencies of the order of several megacycles interfering resonable effect, which as was explained arises in consequence of the excitation by pondermotive forces of ultrasonic oscillations in the copper conductor comprising the coil of the spectrometer. They observed a number of resonance peaks, with amplitudes considerably exceeding the noise level of the device, for each of the coils during variation of the operating frequency, relative width of the peaks being equal to 1:100 in order of magnitude and the amplitude of the peaks increasing linearly with increase of the constant component and depth of modulation of the field. The authors oftained the eigenvalues of the product of the wave number times radius of the conductor by means of numerical solution of equations set up. Three references.

Institution : Physical Institute im. P. N. Lebedev, Academy of Sciences USSR

Submitted

February 12, 1955

VIKKER, B.Z., dotsent

Some characteristics of uterine-placental circulation. Trudy 049 no.25:199-204 '59. (MIRA 14:10)

1. Iz kafedry akusherstva i ginekologii Omskogo meditsinskogo instituta imeni Kalinina, zav. kafedroy prof. A.B.Gillerson. (BLOOD\_CIRCULATION) (UTERLIS, PREGNANT)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859720016-2"

VINER, D. A.

On 22 February 1946, at the Four Engineering Institute ironi Molotov, defended his dissertation on "Automatic Regulation of the Frequency and Active Power of Electrical Systems". Official opponents - Acting Member of the Academy of Sciences, Ukrainian SSR, Professor S. A. Lebedev, and Candidate of Technical Sciences L. S. Gol'dfarb.

So: Elektrichestvo, No 4, April 1947, pp 90-94 (U-5577, 18 February 1954)

A study was made of the basic problems of the automatic regulation of the frequency and active power in systems with synchronous turbo and hydro generators. General information was presented concerning the speed regulators of primary motors, regulation characteristics, and methods of distorting them. The method and systems of automatic frequency regulation were systematized, and descriptions were presented of some of the most widely used types of automatic frequency regulators of various firms. An examination was made of the kinetics of the process of automatic frequency regulation with the generator operating in an isolated state and with several multiple machine working in parallel, as well as the kinetics of the processes of simultaneous automatic regulation of frequency and active power in the case of two mutually interconnected electrical systems.

So: IBID

# Distribution of cold hardening in the head of railread rails. Isv. AN SSSR Otd.tekh.mauk no.2:75-78 F '54. (MLRA 7:7) 1. Predstavleno akademikom N.T.Gudtsovym. (Metals--Cold working) (Railreads--Rails)

VIKKER, I.V. USSR/Engineering FD-817

**在1987年的新疆域的**多

Card 1/1

: Pub. 41 - 9/17

Author

: Vikker, I. V.

Title

MARTINE MILES TO THE TOTAL OF THE STATE OF T : Distribution of work hardness in the head of railroad rails

Periodical

: Izv. AN SSSR, Otd. tekh. nauk, 2, 75-78, Feb 1954

Abstract

: Gives results of experiment conducted to determine depth of plastic deformation and its intensity at various distances from the top surface of railroad rails in service. X-ray structural analysis was used as a method of investigation. Table. Graphs. 6 references.

Institution : --

Submitted : By Academ N. T. Gudtsov, January 20, 1954

CIA-RDP86-00513R001859720016-2" APPROVED FOR RELEASE: 09/01/2001

s/123/62/000/012/007/010 A004/A101

AUTHORS:

Kovalev, Ye. A., Vikker, I. V.

TITLE:

The resistance of diffusion coatings to the corrosion of the turbine

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 12, 1962, 39 - 40, abstract 12B235 ("Vestn. Vses. n.-1. in-ta zh.-d. transp.", 1962,

TEXT: The author presents the results of tests carried out by TsNII MPS to find methods for preventing the vanadium corrosion of the turbine blades of gas turbine locomotives. The burning of heavy liquid fuel in the gas turbine-mazout with an elevated vanadium content (up to 0.025%) causes ash depositions on the turbine blades with 60 - 75% vanadium pentoxide which, at temperatures of over 650°C, results in the rapid corrosion destruction of the blades. To prevent corrosion, a protective coating is applied to the blade surface by the diffusion merosion, a protective coating is applied to the place surface by the dilitation method. Coatings were tested which were applied by aluminum siliconizing, calorizing, chrome plating and siliconizing. It is pointed out that chrome-Card 1/2