KORNIYENKO, Z.P.; BELOVA, Ye.M.; KARIMOV, Sh.M.

Study of visceral leishmaniasis in Ashkhabad dogs. Vop.kraev.
paraz.Turk.SSR 3:161-167 '62.

1. Sel'skokhozyastvennyy institut imeni M.I.Kalinina, Institut
epidemiologii i gigiyeny, Ashkhabad i Meditsimakiy institut,
Ashkhabad.

(ASHKHABAD—LEISHMANIASIS) (ASHKHABAD—DOGS—DISEASES AND PESTS)

### BELOVA, Ye.M.; KARAPET 'YAN; A.B.

Experimental study of leptomonad cultures isolated from moth flies Phlebotomus caucasicus. Med. paraz. i paraz. bol. 32 no.38305-306 My-Je\*63 (MIRA 17:3)

1. Iz Ashkhabadskogo instituta epidemiologii i gigiyeny (dir.-dotsent Ye.S.Popova).

## BELOVA, Ye.M.; SAF'YANOVA, V.M.

Methods of studying natural infection of moth flies with leptomonads in the nidi of cutaneous leishmaniasis. Zool. zhur. 42 no.11:1729-1732 '63. (MIRA 17:2)

1. Institute of Epidemiology and Hygience of Ashkhabad and Department of Diseases of Natural Nidality, Institute of Epidemiology and Microbiology, Academy of Medical Sciences of U.S.S.R., Moscow.

### BELOVA, Ye.M.; SAPIYANOVA, V.M.

Isolation of leptomonad cultures from Caspian gekkos in the Serakhs focus of cutaneous leishmaniasis. Zdrav. Turk. 7 no.11:26 N.63 (MIRA 17:3)

1. Iz Ashkhabadskogo instituta epidemiologii i gigiyeny (dir.-dotsent Ye.S.Popova) i otdela prirodnoochagovykh bolezney Instituta epidemiologii i mikrobiologii imeni Gamaleya AMN SSSR (zav. - prof. P.A. Petrishcheva).

BILOVA, Ye.M.

Leishmania obtained from leptomonads in a tissue culture of chick embryos. Zool. zhur. 43 no.12:1861-1862 '64 (MIRA 18:2)

1. Ashkhabadskiy institut epidemiologii i gigyeny.

BELOVA, Ye			
CE	rowth rate of leptomonas cultures from gekkcs Gymnodactylaspius Eich. Med. paraz. i paraz. bol. 34 nc.3:349-351 M (MIRA)	92 [- [8:7]	
1.	. Ashkhabadskiy institut epidemiologii i gigiyeny.		
	보고 시민과 하게 가까운데 그런 원임가 있습니다. 생물이 있는 사람이 있는 사람들이 가장 보고 있다. 생물이 물건들을 하는 것이 보는 것이 가장 사람이 있는데 하는 것이다.		
	경우 보고 있었다. 그 사람들은 그리고 있는 것이 되는 것이 되는 것이 없다. 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 것이 되었다.		
	스런 현실, 발생물 등학교 등학교 등 전기 (1982년 - 1982년 - 1982년 		
	환경하면 발로 발표를 받는 것이 되었다. 발표로 사용하는 발표를 하는 것이 되는 것이 되었다.		
			, , s

SOURCE CODE: UR/0358/66/035/003/0275/0281 ACC NR. (A,N) AP6021891 AUTHOR: Dubrovskiy, Yu. A.; Belova, Ye. M.; Neronov, V. M. ORG: Laboratory of Medical Zoology, Institute of Epidemiology amd Microbiology, SSSR (Laboratoria meditsinskoy zoologii Instituta im. N. F. Gamalei, AMN AMN SSSR); Ashkhabad Institute of epidemiologii i mikrobiologii Epidemiology and Hygiene (Ashkhabadskiy Institut epidemiologii i gigiyeny) TITLE: Leishmanioma as an indicator of the concentration of leishmaniasis epizootics in gerbil populations SOURCE: Meditsinskaya parazitologiya i parazitarnyye bolezni, v. 35, no. 3, 1966, 275-281 TOPIC TACS: epidemiology, epizootic, animal disease, disease vector, gerbil, leishmaniasis Different forms of cutaneous leishmaniasis were found among gerbils in southeast Turkmenia. Ear lesions were both typical and atypical. Leishmania were cultured from specimens prepared from tissues of apparently healthy ears. Where the outbreak was intense, most of the animals infected had typical lesions containing Leishnonia and where less intense, few or no ear lesions. Orig. art. has: 2 figures and 5 tables. [W.A. 50; CBE-No. 10] SUB CODE: 06/ SUBM DATE: 20Apr65/ ORIG REF: 008/ UDC: 591.2-932.34:616.993.162-036.1-07

BELOVA, Ye.N.

CAND PHYSICAOMATH SCI.

Dissertation: "Struture of Tourmaline."

11 May 49
Inst of Crystallography, Acad Sci. USSR.

# SO Vecheryaya Moskva Sum 71

CA

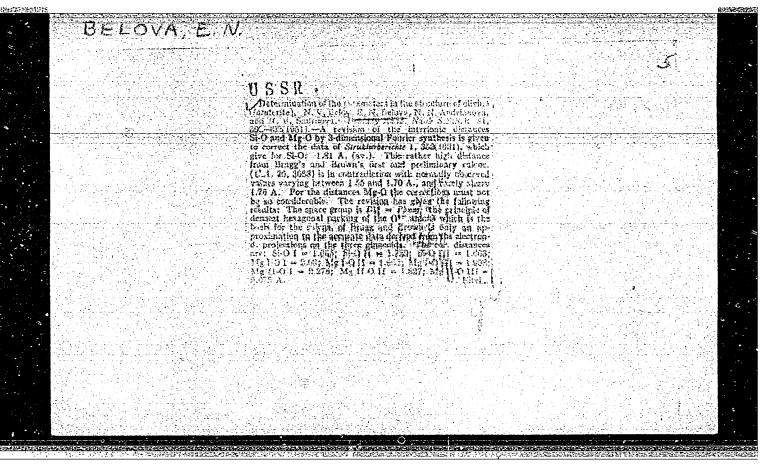
Crystal structure of tourmaline. N. V. Belov and E. N. Belova. Deliady Akad. Nauk N.N.R. 69, 185-8(1949).

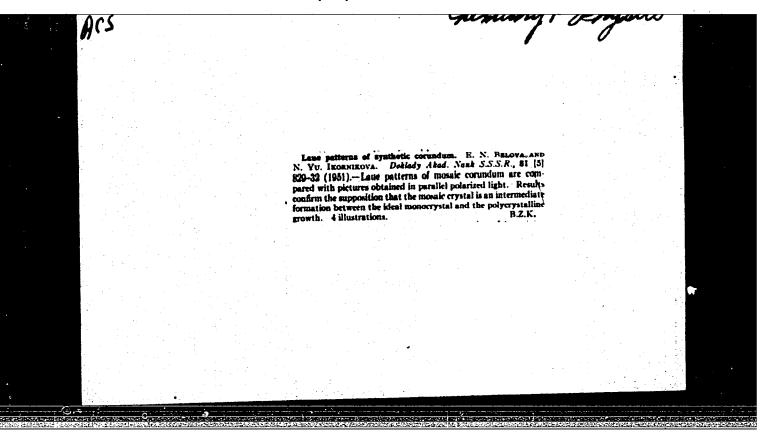
G. Hamburger and Buerger. C.A. 43, 8087c.—Previous x-ray measurements of the authors gave for dravite (Mgtourmaline) the dimensions of the elementary cell: a. = 16.00 A.; c. = 7.24 A.; c. a. = 0.452, or a rhombohedron with the edge a. = 9.52 A.; a. = 1137-40°, space group C. = Ribm with 1 mol. NaR, BSA(O,OH)boat in the unit cell. For the new detn, of the structure by the authors, the structural analogy of the rings in dioptase, milarite, and bertyl have been highly conclusive; these crystal phases have about the same dimensions in the horizontal extension, while in the vertical direction the lengths are in the ratio 17122 for the dioptase, tourmaline, and milarite, resp. Na.\* is situated, without parameters, in (000). By Patterson analysis the positions of the other atoms have been detd. The ditrigonal rings have a radius (Si. – Si) of 3, 67 A. in tournaline (3.00 in bertyl, 3.11 in milarite, 3.00 in dioptase; they are arranged in two distinct levels one with 6 Si, the other with 3Al + 3B. Octahedral [MgOk] units

are arranged along trigonal serew axes, in chains extending through the entire framework. The structure has 26 parameters; the comparison with the structure given by Hamburger and Buerger is best if Na\* is located not in (000) but with z = 0.855 A. Seven kinds of oxygen ions are distinguished, numbered for analogy with those authors it to VIII. The polarity of the anomala maits is exident, while the upper level is appose breagonal the fower level is distinctly diffigural, with a sale length of about 20 disms. The Na\* ions are located in wide ostahedra between the double-ring arrangements, those have the formula [So-MiB(O, OIII).], with the distances Si.—Oxaving between 1.57 and 1.78 A. (Al. B).—Obstween 1.58 and 1.78 A. Mg.—Obstween 1.97 and 2.27 A. In details of the positions of the ions, this structure is not in agreement with Hamburger's and Buerger's details; there are also many contradictory at distances given, e.g. the too large distance for Al.—O. While the authors find for Mg.—On 2.53 A. Hamburger and Buerger give 2.10 A. Also in the intensity data, there are tremendous contradictions, e.g. for (1120). 4. (1011) is given 7 by Belov and Belova, 0 by II. and G.

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c.a. 1951 





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s/070/61/006/006/007/008 E132/E135

24.7500

**AUTHORS:** 

Palatnik, L.S., Kimnik, Yu.F., Belova, Ye.K., and

Atroshchenko, L.V.

Investigation of the triple semiconducting compounds TITLE:

containing copper and the elements of the 4th and

6th groups

v.6, no.6, 1961, 960-964 + 1 plate PERIODICAL: Kristallografiya,

A method is put forward for estimating the intensities of the superstructure lines in X-ray powder TEXT: photographs of three component compounds and ordered phases with fractional numbers of "molecules" in their unit cells by choosing imaginary compounds with the same structure but with whole numbers of "molecules". In this way the compound studied lies between two imaginary compounds in composition. These means have between two imaginary compounds in composition. These means the been applied for estimating the intensities of two possible types been applied for estimating the intensities of two possible types been applied for estimating the intensities of two possible types of APPROVED FOR RELEASE, Q6/26/2600 the CEATROP 8600513R000204510020 compounds of the CEATROP 8600513R000204510020

Cu2GeS3, Cu2SnS3, Cu2SnSe3, Cu2GeSe3, Cu2GeTe3, Cu2SnTe3. Card 1/2

30175

Investigation of the triple ....

S/070/61/006/006/007/008

Х

A satisfactory agreement between the observed and calculated intensities is found corresponding to long-range ordering of the "anions" C and the "cations" A and B in the diamond sub-lattices. Calculation of the superstructure lines of the other type, namely for the ordering in the "cation" lattice of the A and B atoms, gives very low intensities for the lines which are not to be found on the X-ray photographs for any of the six compounds. lattice parameters, densities, microhardnesses and melting points have been measured for these compounds. It is found that the properties characterising the mechanical and thermal stability of these compounds (microhardness and melting point) increase regularly with decreasing lattice parameter and consequently with bond length (interatom distance). There are 2 figures, 3 tables and 4 Soviet-bloc references.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo (Khar'kov State University im. A.M. Gor'kiy),

Nauchno-issledovatel'skiy institut osnovnoy khimii Card 2/2

(Scientific Research Institute of Fundamental

Chemistry)

SUBMITTED: June 17, 1961

PALATNIK, L.S.; KOMNEK, Ya.F.; HKLOVA, Ye.K.; ATROSHCHENKO, L.V.

K-ray diffraction study of ordering processes in three-component semiconductor compounds. Ukr. fiz. zhur. 8 no.2:263-268 F '63. (MIRA 16:2)

1. Namehno-issledovateliskiy institut osnovnoy khimii, Kharikov. (X-ray diffraction examination) (Semiconductors)

# Examination of the excrements of artificially inoculated moth flies. Vop.kraev.paraz.Turk.SSR 3:137-138 '62. (MIRA 16:4) 1. Institut epidemiologii i gigiyeny, Ashkhabad. (SAND FLIES AS CARRIERS OF DISEASE)

BELCYA, YE. N. USSR / Physical Chemistry, Crystals : Ref Zhur - Khimiya, No 8, 1957, 25863 Abs Jour : N.I. Golovastikov, Ye. N. Belova, N.V. Belov Author : Crystalline Structure of Yeremeyevite, Title : Dokl, AN SSSR, 1955, 104, No 1, 78-81 Orig Pub : The hexagonal cell of yeremeyevite (a 8.538, c 8.17, kX) Abstract contains 12 AlBO3 "molecules"; ph. gr. - P63/m. An especially strong reflex (006) and the brightness of the 3rd and 6th layer lines of rotation on c indicated a six layer distribution of atoms in the cell. The horizontal co-ordinates of six atom pairs of Al were determined from the Patterson projection Po(x,y), which made it possible to construct a model with columns of Al octahedrons, the model having basically coincided with the final results. The signs of FhkO were determined by Zachariassen's equation The projection of electron density (xy) SK+H= 3(5H.5K) : 1/2 Card

USSR /Physical Chemistry. Crystals

Abs Jour

: Ref Zhur - Khimiya, No 8, 1957, 25863

B-5

Abstract

: constructed with these signs confirmed the assumed model. Peaks corresponding to B atoms appeared in addition. The yeremeyevite formula A1, B3, A3, (w) mas accepted in the result. The framework of the structure are vertical columns of exygen octahedrons set on horizontal edges, by which they pairs into hands by inclined edges. Two octahedrons inhatited with Al atoms and one empty octahedron alternate in the columns. There are in empty octahedrons 6 atoms of B4, pairs on the ternary axes in the triangles of O4, the dicular. The accepted structure agrees well with the properties of yeremeyevite.

Card

: 2/2

. USSR/Optics - Physical Optics.

K-5

Abs Jour

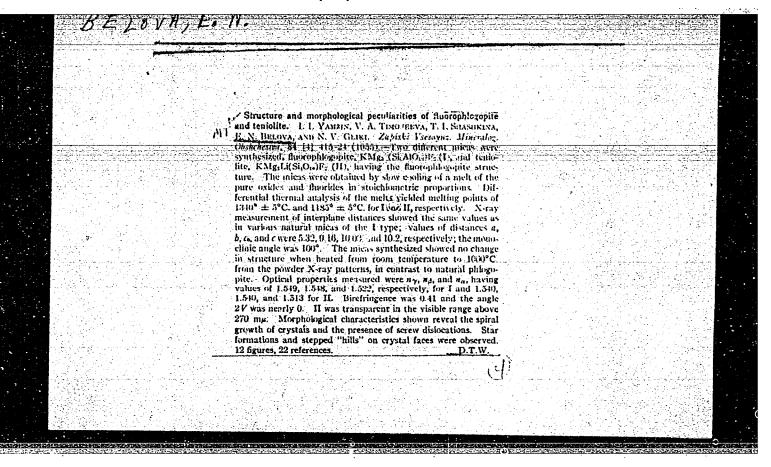
: Referat Zhur - Fizika, No 3, 1957, 7700

A detailed table of the physical constants of the micas is given. It is shown that there is no definite connection between these constants on the one hand and K, the transparency of the micas in the ultraviolet region and the amount of iron on the other hand.

Bibliography, 22 titles.

Card 3/3

- 32 -



BELOVA, YE.N.

USSR/Solid State Physics - Structural Crystallography, E-3

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34626

Author: Golovastikov, N. I., Belova, Ye. N., Belov, N. V.

Institution: None

Title: Crystalline Structure of Eremeyevite (Eichwaltite)

Original Periodical: Zap. Vses. Mineralog. o-va, 1955, 84, No 4, 405-414

Abstract: See Referat Zhur - Fizika, 1956, 28612

1 of 1

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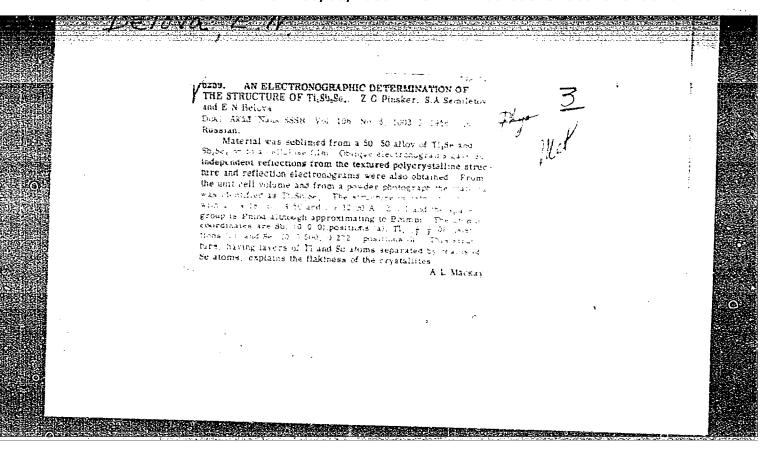
GOLOVASTIKOV, N.I.; HELOVA, Ye.E.; HELOV, N.V., akademik.

Crystal structure of eremeyevite. Dekl.AH SSSE 104 nc.1:78-81
S 155.

(MINA 9:2)

1, Institut kristallegrafii Akademii nauk SSSE.

(Aluminum berate) (Crystallegraphy)



Mosaics for 46 plane (Shubnikov's) antisymetry groups and
15 (Fedorov's) color groups. Kristallografiia 2 no.1:21-22 '57.

1. Institut kristallografii Akademii nauk SSSR.

(Crystallography) (Crystals--Models)

SOV/70-3-5-15/24 AUTHORS: Belov, N.V., Belova, Ye.N. and Tarkhova, T.N.

PITE: Further on the Colour Symmetry Groups (Yeshche o

gruppakh tsvetnoy simmetrii)

PERIODICAL: Kristallogafiya, 1958, Vol 3, Nr 5, pp 618-620 (USSR)

ABSTRACT: Diagrams of the 15-colour symmetry groups which were given in Kristallografiya, 1957, Vol 2, p 21 can be improved slightly. The designation of the group I 41

is altered to I 41(43) and its relationship to the

packing of squares, each of symmetry P41, is illustrated. New diagrams are given showing the symmetries of the

groups I 41md and Fdd2 better than those published

previously. There are 18 figures and 5 Soviet references. ASSOCIATION:

Institut kristallografii AN SSSR

(Institute of Crystallography of the Ac.Sc.USSR) SUBMITTED: July 11, 1958

Card 1/1

GINZBURG, I.V.; BELOVA, Ye.W.

Hastingsite with an acute axial angle. Dokl. AN SSSR 134 no.3:666-669 S '60. (MIRA 13:9)

l. Mineralogicheskiy muzey im. A.Ye. Fersmana Akademii nauk SSSR i Institut kristallografii Akademii nauk SSSR. Predstavleno akad. N.V. Belovym.

(Hastingsite)

	Moscow. Theorem's try machine-tashed-rated and fastist charges are interested by the fastist country and the splace of the splac	a.	/ <b>I</b>	COTAME: This collection of articles presents the results of singles of indication alloys made in recent parts by the frequently neutrino teachers. And teating tearnoy seeming it (Central Selection becaute fartitudes of Farrows Menaltungal (Central Selection which can be saidered (set hard) with grant of second alloys.	and alloys used for matter spring any discussed, location of interface and interface and themselves are discussed, location of interface and themselves are made as effect of connected with the determination of appearing and relating and with the matter of appearing and with the matter of appearing and with the matter of a matter	March, A. S., E. P. Matern, and Y. A. Salles. Trillestics of the Editors and the Springs.	s. Structural of Bot-Deformation	Suredriam, M. Mr. M. G. Baltmin, and V. A. Bolten. On the Freblem of Cold Verting of the Edition Spring Alloy Solite, V. A. and T. Bossel. Effect of Melydams on Properties of the McKern, (Free). Effect of Melydams on Properties	Common, E. O. Filewar Alloys Deed for Khawite Securing Khamatta 130. Seriasons, A. K. Tabe Modulated Systems (A) Alloy for Spiral (Eds.)	Especial Line, and N. L. Benta. Investigation of the Jepanhane of Savaration Magnetization to the Localing of Investigated Alloys First Alloys First	_	Allegates, 0. E., Q.F. Lybertabys, and Y. A. Salita. Determination of Margaette Rasonalists of Entry of a first bits fade of Low-dagments Mar.	Artstaberating, Mr. As. St. B. Fastl'yev, Q. T. Consalyayev, and Rs. P. Sellissing. Effect of Deviated Livelision on Electrical Sanistation of Self-divisoring and Ages Allays	 Majutia, 0. P. Alloys for Righ-Imparature transdocers Semeon, R. V. On the Problem of the Electrical-Legistance Accounty	Semany, J. T., and J. A. Semany. Hartrical Properties of Richrose and and Alloys.	
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BELOVA, YE. F.

Preparation and use of organic-mineral granular fertilizers on state farms. Sov. agron. 10 no. 9, 1952

A CONTRACTOR OF THE PROPERTY O

- 1. BELOVA, Ye. P.
- 2. USSR (600)
- 4. Klimentov, B. V.
- 7. "Field experiments on collective farms." B. V. Klimentov. Reviewed by Ye. P. Belova.
  Sov. agron. 10 no. 11 1952.

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

BELOVA, Ye. P.

"The Effectiveness of Applying natural Fertilizers in Rows to the Chernozems of the Chkalov Region." Gand Agr Sci, All-Union Sci-Res Inst of Fertilizers, Agricultural Engineering, and Scil Science. (VM, 14 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

BrLOVA, Ye. V.

"Biological Characteristics of the Flowering and Fruit-Bearing of the Peanut." Cand Biol Sci, All-Union Acad of Agricultural Sci Imeni Lenin (VASKhNIL), Leningrad, 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

ASIMOVSKATA, G.A., insh., HELOVA, Ye.V., insh.; ZELIKOVSKATA, N.M., insh.

Brass surfacing of ferrous metals with flux gas techniques.

Svar. proizv. no.2;28-31 F '59. (MIRA 12:1)

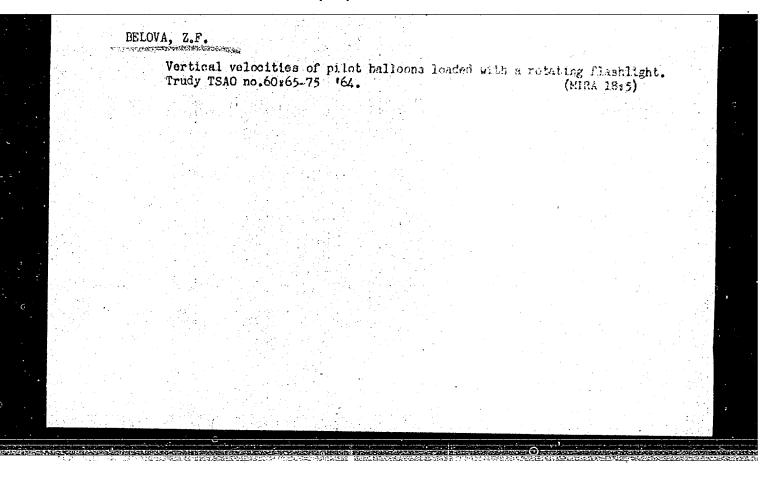
(Hard facing) (Brass) (Flux (Metallurgy))

SPEKTOR, O.Sh., inzh.; ASINOVSKAYA, G.A., inzh.; Prinimali uchastiye: BELOVA, Ye.V., inzh.; SEMENOVA, A.S., inzh.

Studying the nature and conditions of changes in the structure and chemical composition of St.3 steel at the surface of a cut. Trudy VNIIAvtogen no.9:19-32 '63. (MIRA 16:12)

GRINSHPUN, S.I.; FISHERMAN, M.B., BELOVA, Yu.M.

Determining iron, zinc, nickel and iron, zinc and manganese when present together. Prom. khim. reak. i osobo chist. veshch. no.1:24-25 '63. (MIRA 17:2)



"Mycerin (Mitserin),"

n 207 Ministry of Heelth IESE Proceedings of the Second All-Union Conference on

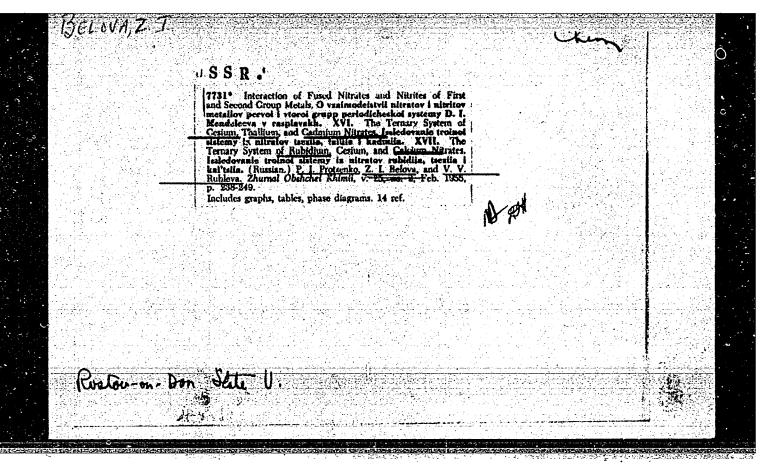
BELOVA, Z(H); SOLOV'YEVA, Yu. V. (Cand. of Med. Sci.)

p. 207 Ministry of Health USSR Proceedings of the Second All-Union Conference on Antibiotics, 31 May - 9 June 1957. p. 405, Moscoy, Medgiz, 1957.

BLOVA, Z. I.

"Concerning the Reaction of Calcium Nitrate With the Nitrates and Certain Nitrites of Group I and Group II Metals in Fusions." Cand Chem Sci, Rostov-na-Donu State U, Chair of General and Inorganic Chemistry, Rostov-na-Donu, 1954. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14).



PROTSENSO, P.I.; HELOVA, Z.I.

Binary Fiscems of nitrates of metals from the first and second group with calcium nitrate. Zhur. neorg. khim. 2 no.11:2617-2620 H '57. (MIRA 11:3)

1.Rostovskiy gosudarstvennyy universitet. (Systems (Chemistry)) (Nitrates)

8(2) AUTHORS:

Gnusin, N. P., Belova, Z. I.

SOV/32-25-5-23/56

TITLE:

Measurement of the Specific Electrical Conductivity of Electrolytes with the Aid of Direct Current (Izmereniye udel'noy elektroprovodnosti elektrolitov s pomoshch'yu postoyannogo toka)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 5, pp 584-586 (USSR)

ABSTRACT:

The method under review is based on the determination of the potential difference between probes introduced into the electrolytic cell which is filled with the electrolyte to be investigated. The cell features special current supply electrodes for the generation of an electric field in the electrolyte. As compared to other (Ref 1) cell constructions suggested for the same purpose, the present cell is of a simple design. It consists essentially of a fork-shaped container (Fig 1).connected with the electrodes by two small tubes, while other two small tubes terminating as capillaries, are the probes. The electric circuit diagram for the measurement of the specific electrical conductivity (Fig 2) consists of an operating and a measuring diagram. The former contains the direct current source, electrolyte cell, a standard resistor, a milliamperemeter and a rheostat. The measuring circuit

Card 1/2

Measurement of the Specific Electrical Conductivity of Electrolytes by the Aid of Direct Current

diagram establishes the connection of the probes with the potentiometer. Before determining the specific electrical conductivity, the cell constant must be found (Table 2 for two cells). Measurements of the influence exerted by a reversal of the current direction (Table 1) showed, as was observed by other authors, that there is no influence upon the measuring results. There are 2 figures, 2 tables, and 1 reference.

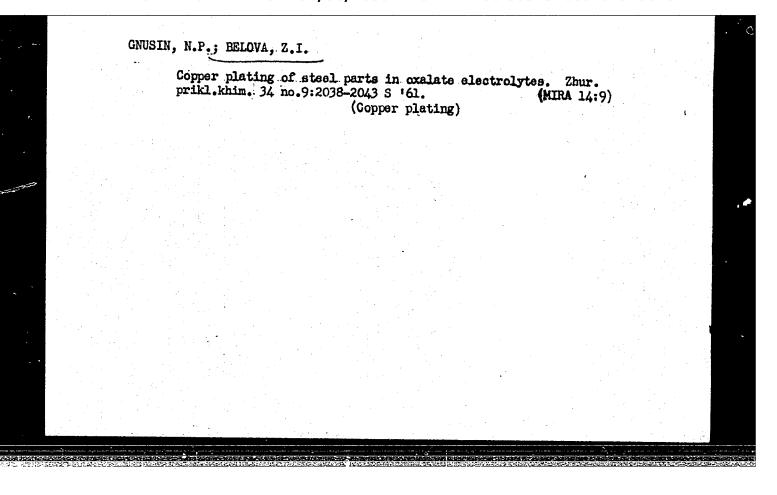
ASSOCIATION: Belorusskiy institut inzhenerov zheleznodorozhnogo transporta (Belorussian Institute of Railroad Engineers)

Card 2/2

BELOVA, Z.M. (Moscow).

Result of therapy of angina pectoris with adenosintriphosphoric acid. Klin.med. 31 no.12:61-64 D '53. (MLRA 7:1)

1. Iz gospitalinoy terapevticheskoy kliniki (zaveduyushchiy deystvitelinyy chlen Akademii meditsinskikh nauk SSSR professor
A.L.Myasnikov) I Moskovskogo ordena Lenina meditsinskogo instituta. (Adenylpyrophosphoric acid--Therapeutic use)
(Angina pectoris)



GNUSIN, N.P.; ZOLOTOVITSKIY, Ya.M.; BELOVA, Z.I.; NIKONOVICH, N.I. Concentrated ammonium chloride electrolytes for sinc Concentrated ammonium chioride electroly was 101 plating. Zhur. prikl. khim. 37 no.2:330-337 F 164. (MIRA 17:9)

CIA-RDP86-00513R000204510020-7" APPROVED FOR RELEASE: 06/06/2000

BELOVA, Z.M.

New method of diagnosing disorders of potassium and sodium metabolism by the method of labeled atoms. Med.rad. no.5154-59 161. (MIRA 14:11)

1. Is gospital noy terapevticheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova. (POTASSIUM METABOLISM) (SODIUM METABOLISM) (RADIOACTIVE TRACERS)

BELOVA, Z. M.

1. Iz gospital'noy terapevticheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M. Sechenova.

(HEART FAILURE) (POTASSIUM METABOLISM)
(SODIUM METABOLISM) (ERYTHROCYTES)

REIOVA Z. N.
USSR/Microbiology - Antibiosis and Symbiosis, Antibiotics. F-2

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14718

Author : Solov'eva, Yu.V., Belova, Z.N.

Inst : -Title : Mycerin.

Orig Pub : V sb.: Antibiotiki, Eksperim.-klinich. izuch. M., 1956,

orig Pub : V 80.: Antibiotial, ampli-

Abstract: A new antibiotic, mycerin, represents a polypeptide and contains reducing substances in its molecule. It does not lose its activity in the presence of serum, possesses a wide spectrum of antibacterial activity, and low toxicity (150 mg/kg in intramuscular injections and 1.5 g in oral application). It exerts no cumulative effect (when introduced 100 mg/kg for a period of 5 days). After intramuscular injection in doses of 200 and 100 mg/kg this

antibiotic is found after 24 hours in blood serum, while after the first 6 hours its concentration is respectively

Card 1/2

BELOVA Z.N.

GONCHAROVA, V.I. BELOVA Z.N. BUDNITSKAYA, P.Z., MUSHKATBLAT, S.M., PYATYKHINA, D.P.

Production of vitamin B<sub>12</sub> from propionibacteria [with summary in Bnglish]. Mikrobiologiia 27 no.2:226-228 Mr-Ap '58 (MIRA 11:5)

1. Institut epidemiologii i mikrobiologii im. Gamaleya AMN SSSR. (VITAMIN B 12

optimum medium for production from propionibacteria (Rus)) (PROPIONIBACTERIUM, culture

optimum medium for cultivation in production of vitamin B 12 (Rus))

BELOVA, Z.N.

The antibiotic aurantin, its production and some [of its] properties. Antibiotiki 6 no.7:594-597 Jl '61. (MIRA 15:6)

1. Otdel infektsionnoy patologii i eksperimental'noy terapii infektsiy (zav. - chlen-korrespondent AMN SSSR prof. Kh.Kh. Planel (1992) Instituta epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR.

(ANTIBIOTICS)

SEMENKOVA, A.V.; BELOVA, Z.N.; MEL'NIKOVA, A.I.

Discussion of M.A.Shvechikov's article \*Let us improve economic planning. Vest. sviazi 23 no.10:27-29 0 '63. (MIRA 16:12)

1. Nachal'nik planovo-finansovogo otdela Ministerstva svyazi AzerSSR (for Semenkova). 2. Nachal'nik planovogo otdela Saratovskogo pochtamta (for Belova). 3. Starshiy ekonomist Dzhankoyskogo uzla svyazi Krymskoy oblasti (for Mel'nikova).

BELOVA, Z.P.

2210 BELOVA, Z.P. AND ARTEM YEV. A. S.

Opyt Polucheniya Bysokikh Urozhayev Pomidorov I Pertsa. (Moldav. SSR.). Kishinev, Moldavgiz, 1954. 28s. s Ill. 20sm. (Glav. Upr. s.-Kh. Propagandy M-Va Sel'skogo Khozyaystva MSSR). 3.000 EKZ. 30k. - Na Moldav. Yaz.-(54-56054)

BELOVA, Z.P.

USSR/Cultivated Plants. Potatoes. Vegetables. Melons

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1596

Author

: Z.P. Belova

Inst

: Not Given

Title

: The Scheme of Square-Nidus Tomato Planting

Orig Pub : Tr. Mold. ovoshche-kartof. orosit. opyt. st., Kishinev,

Gosizdat Moldavii, 1956, 147-159

Abstract : On the Moldavian testing station in the years 1952-1955, by comparing various methods of planting tomatoes, it has been established that the square-ridus method of planting, according to the scheme of 70 x 70 cm, permits the mechanization of planting and redistribution of the necessary quantity of plants over an area. In addition, the square-plantings, according to the scheme  $(100+30) \times 70$  cm and  $(120 \div 30) \times 70$  cm, permit the mechanization of the cultivation between furrows and irrigation during the entire period of vegetation and partly, also, the mechanization of the fruit harvesting. These methods can be recommended in the irrigated areas of the upper terraces and in the bottom lands for the Brekodey, Mayak and other

Card

: 1/2

MARTYNOVA, O.I., doktor tekhn.nauk, prof.; BELOVA, 2.S., inah., dissertant; GOLUBEV, B.P., kend. tekhn. nauk; SAMOYLOV, Yu.F., kend. tekhn. nauk

Study of the electrolytic properties of water solutions of some electrolytes at high parameters. Teploenergetika 12 no.7:69-72 Jl 165. (MIRA 18:7)

1. Moskovskiy energeticheskiy institut.

MARTYNOVA, O.I., kand. tekhn. nauk; SIMANOVSKAYA, B.N., inzh.; BELOVA, Z.S., assistent

Removal of soluble products of ion-exchanger materials from desalted water. Trudy MEI no.48:201-210 163. (MIRA 17:6)

BELOVA, Z.S., inzh.; GOLUBEV, B.P., kand. tekhn. nauk; MARTYNOVA, O.I., kand. tekhn. nauk; SAMOYLOV, Yu.F., kand. tekhn. nauk

Study of the electrolytic properties of NaCl and KCl solutions in water vapor with high and supercritical parameters using an electric conductivity measurement technique. Trudy MEI no.48:211-218 163. (MIRA 17:6)

STYRIKOVICH, M.A., akademik; MARTYNOVA, O.I.; BELOVA, Z.S.

Use of the method of electroconductivity measurement in studying the mechanism underlying the distribution of salt between water and saturated water vapor. Dokl. AN SSSR 162 no.4:806-809 Je '65.

(MIRA 18:5)

A new standard for steel marking is needed. Standartizatsiia (MIRA 18:7)

ZAYEV, Petr Petrovich, prof.; ZHEZHEL', Aleksandr Aleksandrovich, prof.; KOROTKOV, Aleksandr Aleksandrovich, dots.; FEDOSEYEVA, Marianna Petrovna, dots.; BELOVA, Zoya Vasil'yevna, prepodavatel'; GOKHNER, L.M., red.; BARANOVA, L.G., tekhn. red.

[General agriculture and soil science] Obshchee zemledelie s pochvovedeniem. [By] P.P.Zaev i dr. Moskva, Sel'khozizdat, 1963. 620 p. (MIRA 17:1)

1. Anapskiy sel'skokhozyaystvennyy tekhnikum (for Belova).

EELOVA, Z.V., inzh.; POLOSINA, G.V., inzh.

All-Russian conference. Mekh.i avtom.proizv. 17 no.9:58-60 3 (MIRA 16:10)

# BELOVA, Z.V.

Feeding habits of the tadpoles of Rana ribibunda Pall. in the Volga Delta. Zool. zhur. 43 no.8:1188-1192 '64. (MIRA 17:11)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut imeni Lenina.



Feeding habits of tadpoles of Rana ridihunda Fall. in verious zones of the Volga Delta. Biul. MOIP. Otd. biol. 69 no.6:40-46 S-0 '64. (MIRA 17:11)

#### BELOVASHINA, N.M.

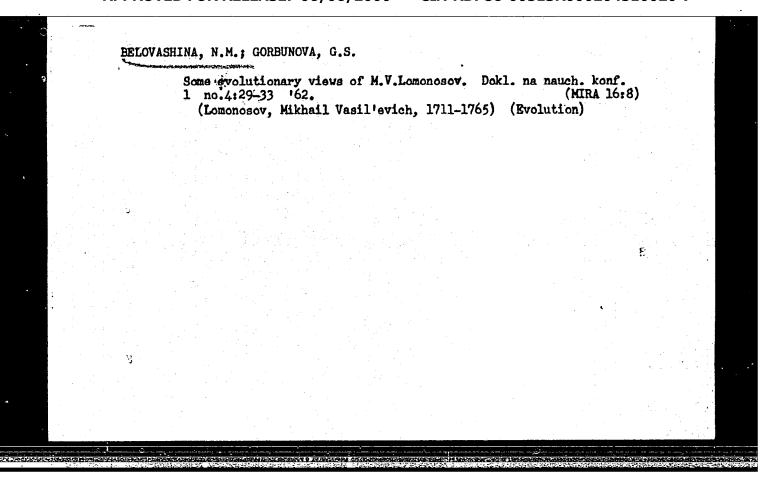
In memory of N.I. Shakhanin. Bot. zhur. 41 no.9:1402-1403 S '56.
(MLEA 9:11)

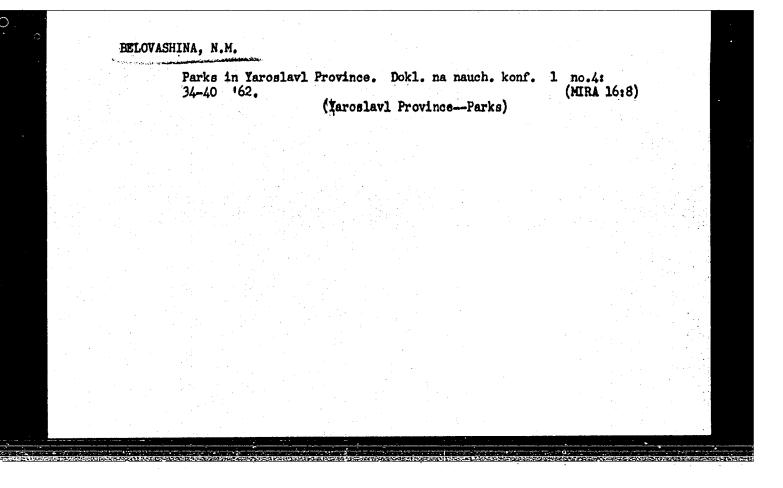
1. Yaroslavskiy gosudarstvennyy pedagogicheskiy institut imeni K.A.Ushinskogo. (Shakhanin, Nikolai Ivanovich, 1890-1955)

BOGACHEV, V.K.; BELOVASHINA, N.N.; ZEMIT, V.E.

Yaroslavl section of the All-Union Botanical Society. Bot. shur. 43 no.9:1380-1381 S '58. (MIRA II:10)

1. Yaroslavskiy pedagogicheskiy institut i Yaroslavskiy sel'skokhozyaystvennyy institut. (Yaroslavl--Botanical research)





BOGACHEV, V.K.; BELOVASHINA, N.M.; DUBROVINA, A.V.; OSTRYAKOVA, G.A.

Some new species of plants in Yaroslavl Province. Bot.zhur. 47 no.11:1666-1669 N 162. (MIRA 16:1)

1. Yaroslavskiy gosudarstvennyy pedagogicheskiy institut.
(Yaroslavl Province-Botany)

YUNAKOV, A.A.; BOBROVSKIY, S.I.; ALIYEV, R.A.; BELOVASHINA, N.M.; KALININ, S.D.; YEFEYKIN, A.K.

In the Botanical Society of the U.S.S.R. Bot.zhur. 50 no.10:1505-1506 0 165. (MIRA 18:12)

1. Vsesoyuznoye botanicheskoye obshchestvo, Leningrad (for Yefeykin).

VOROSHILOV, V.N.; DAYEVA, O.V.; YEVTYUKHOVA, M.A.; YEGOROVA, Ye.M.;

KUZNETSOV, V.M.; KUL'TIASOV, M.V.; NEKRASOV, A.A.; SUROVA,

V.P.; TARASOVA, T.L. Prinimali uchastiye BELOVAYA, Yu.N.;

KHRYCHEVA, G.P.; TSITSIN, N.V., akademik, otv. red.;

ASTROV, A.V., red. izd-va; LAUT, V.G., tekhn.red.

[Native plants of the U.S.S.R.; brief summary of introduction work in the Main Botanical Garden of the Academy of Sciences of the U.S.S.R.] Rasteniia prirodnoi flory SSSR; kratkie itogi introduktsii v Glavnom botanicheskom sadu Akademii nauk SSSR. Moskva, Izd-vo Akad. nauk SSSR, 1961. 359 p. (MIRA 15:3)

1. Moscow. Glavnyy botanicheskiy sad.
(Plant introduction) (Moscow—Botanical gardens)

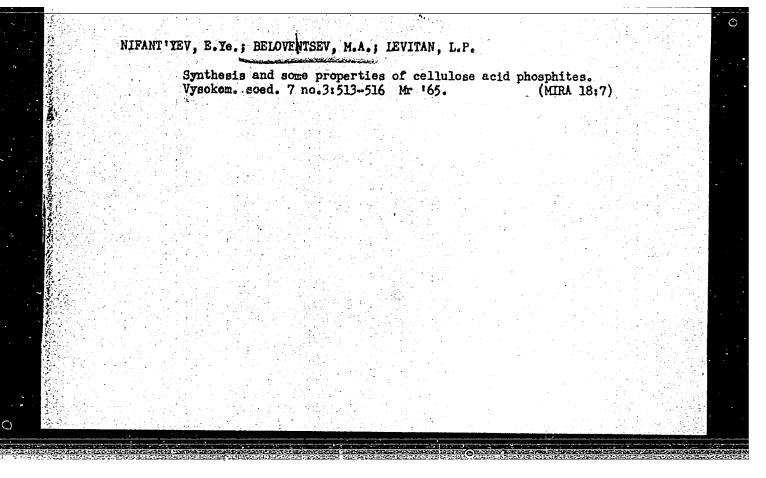
P. A. BELOVELSKIY, G. V.E.

Ondustical & Scientific Agraphy

222

Feding of the Latest Image of Nuclear Tracks. G. E. Beroverski and L. V. Sukhov. Doklady Akad. Nauk S.S.S.R., 1948, 61, 243; S. et I.P., 1950, 21, 373.—The tracks of protons and a particles in thick nuclear noutlions disappear after storage for 24 hours at 30° or after 3 days at 17° in a humid atmosphere, while the latent image is conserved after one month storage in a desiccator over calcium chloride. The effect is also reduced by storage at low pressures (ca. 1 mm. mercury). Plates exposed for one month to come rous tracks when the exposure is made in vecue than those exposed at atmospheric pressure. Storage in a humid atmosphere followed by desiccation removes tracks always present in the photographic plates without towering their sensitivity to protons and a particles.

A.J.L.



Ivan Vladimirovich Michurin. Moskva, 1955. 10 p. (MLRA 9:11)

1. Moscow, Publichnaya biblioteka.
(Bibliography—Michurin, Ivan 7ladimirovich, 1855-1935)

BELOVEZHDON, G.

BULGARIA / Chemical Technology. Chemical Products and Their J-10
Application - Wood chemistry products. Hydrolysis industry

Abs Jour : Referat Zhur - Khimiya, No 2, 1958, 6020

Author : Dimov Kiril, Belovezhdov G.

Inst : Not given

Title : Effect of Hydromodulus of Hydrochloric Acid Prehydrolysis

on the Composition of Whest Straw

Orig Pub : Khimiya i industriya, 1957, 29, No 4, 24-25

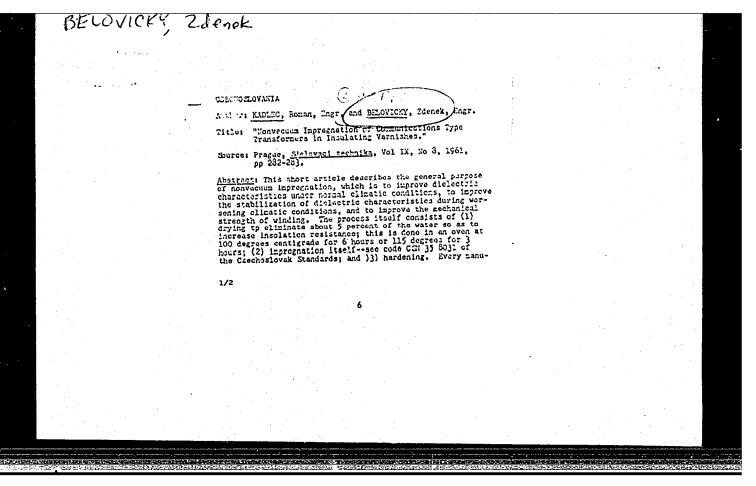
Abstract : No abstract.

Card 1/1

BELOVEZHDOV, N.; CHUKANOVA, I.

"Fine Initiative." p. 4,
(ZDRAVEN FRONT, No. 49, Dec. 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.



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		CZECHOSLOVANIA	
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		Source: Freque, Stelovact technike, Vol IX, No 8, 1961, pp 282-283.	
		Common is introducing a certain hardening temperatures	
		facturer is introducing a certain hardening temperatures (around 10 degrees contigrade), and the hardening time is 2 to 4 hours depending on the size and type of transformer.	
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# Vacuum impregnation of weak-current transformers. Sdel tech 10 no.1:13-14, Ja '62

BELOVIDOV, Boris Sergeyevich.

Novocherkass Polytechnic Inst imeni Ordzhonikidze. Academic degree of Doctor of Technical Sciences, based on his defense, 16 March 1955, in the Council of Leningrad Order of Lenin and Order of Labor Red Banner Mining Institute, of his dissertation entitled: "Automatization of Underground Electric-Locomotive Cars (Totkatka')."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 15, 25 June 55, Byulleten' MVO SSSR, No. 15, Aug 56, Moscow, pp. 5-24, Uncl. JPRS/NY-537

BELOVIDOV, B.S., dotsent, doktor tekhnicheskikh nauk.

Comparison of the economic aspects of direct and alternating current locomotives. Nauch. trudy NPI 32:39-46 '55. (MLRA 10:2)

(Electric locomotives)

Ways for the further dev locomotives. Trudy NPI (Mine railroads)	elopment of mine haulage 115:3-12 '61. (Automatic control)	by electric (MIRA 15:4)	

## BELOVIDOV, B.S., prof.

Ways of achieving automatic control of electric locomotives in mine haulage. Izv. vys. uch. zav.; gor. zhur. 5 no.6:162-165 '62. (MIRA 15:9)

1. Novecherkasskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.Ordahonikidze. Rekomendovana kafedroy gornoy elektrotekhniki.

(Mine railroads) (Automatic control)

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AMATUNI, Napoleon Leonovich, dots.; BARDINSKIY, Sergey Ivanovich, dots.; DREVS, Georgiy Vyacheslavovich, dots.; IL'IN, Boris Vladimirovich, dots.; KNORRING, Gleb Mikhaylovich, kand. tekhn.nauk; PASECHNIK, Stepan Yakovlevich, prof.; PREOBRAZHENSKII, Aleksey Alekseyevich, dots.; ROZENBERGER, Boris Fedorovich, dots.; SOLOV'YEV, Wladimir Ivanovich, dots.; YASTREBOV, Petr Parfen'yevich, prof.; BELOVIDOV, B.S., doktor tekhn.nauk, prof., retsenzent; ARTEMOVA, T.I., red. izd-va; TUPITSYNA, L.A., red.izd-va; SHVETSOV, S.V., tekhn. red.

[Electrical engineering and electric equipment] Elektrotekhnika i elektrooborudovanie; obshchii kurs. [By] N.L.Amatuni i dr. Moskva, Rosvuzizdat, 1963. 646 p. (MIRA 16:9)

1. Novocherkasskiy politekhnicheskiy institut (for Belovidov).

(Electric engineering--Handbooks, manuals, etc.)

(Electric apparatus and appliances--Handbooks, manuals, etc.)

KIKLEVICH, N.A., kand.tekhn.nauk (Donetsk); BELOVIDOV, B.S., doktor tekhn.nauk, prof. (Novocherkassk); IVANOV, A.A., doktor tekhn.nauk (Dnepropetrovsk)

Electric drives and automatic control in the mining industry.

Elektrichestvo no.1:84-91 Ja '63. (MIRA 16:2)

1. Institut gornogo dela AN UkrSSR (for Kiklevich).
(Mining machinery—Electric driving)

Electric drives of the basic mechanisms in coal mining. Izv.
vys. ucheb. zav.; elektromekh. 8 no.4:450-455 '65.

(MIRA 18:5)

1. Zaveduyushchiy kafedroy gornoy elektromekhaniki Novocherkasskogo politekhnicheskogo instituta.

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BELOVIDOV

AUTHOR:

Sergeyev, A.S., Dosent

105-58-5-24/28

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TITLE:

Dissertations (Dissertateii)

PERIODICAL:

Elektrichestvo, 1958, Nr 5, pp. 91-91 (USSR)

ABSTRACT:

For the Degree of Candidate of Technical Sciences.

At the Leningrad Institute for Economic Engineering (Leningradskiy

inzhenerno-ekonomicheskiy institut)

L.F.Sheykhman on April 27, 1954 "Selection of a Rational System for the Electric Equipment of Industrial Plants". Official opponents: V.V.Bolotov, Professor, Doctor of Technical Sciences and

V.S.Ravdonin, Docent, Candidate of Technical Sciences.

At the Leningrad Electrotechnical Institute for Signal- and Tele-

communication Engineers (Leningradskiy elektrotekhnicheskiy

institut inzhenerov signalizatsii i svyazi)

M.I.Radovskiy on May 10, 1946 "Werner Siemens and the Discovery of the Principle of Self-Incitation". Official opponents:

M.A. Shatelen, Professor, Corresponding Member AS USSR, V.F.Mit-

kevich, Member AS USSR, and D.I. Kargin, Professor, Doctor of

Card 1/4

Technical Sciences.

im. Obraztsova):

Dissertations

105-58-5-24/28

At the All-Union Scientific Research Institute for Metrology imeni Mendeleyev (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. Mendeleyeva)

M.S.Kayander on June 9, 1950 "Studying the Conditions for the Ircrease of the Accuracy of Electrodynamic Equipments at Higher Frequencies". Official opponents: A.D.Kratirov, Professor, Doctor of Technical Sciences and I.G.Rusakov, Docent, Candidate of Technical Sciences.

A.D. Sokolov on May 7, 1954 "Experience Gathered with Respect to the Control of the Electromagnetic Properties of Dynamo- and Transformer Steel". Official opponents: N.N. Razumovskiy, Professor, Doctor of Technical Sciences and N.G. Chernysheva, Candidate of Technical Sciences.

At the Leningrad Institute of Mining imeni Plekhanov (Leningradskiy gornyy institut im. Plekhanova)

V.S.Belovidov on June 30, 1953 "On the Selection of an Electric Drive for Pit Ventilators". Official opponents: F.N.Shklyarskiy, Professor and A.V.Rys'yev, Docent, Candidate of Technical Sciences. At the Leningrad Institute for Railroad Engineers imeni Obraztsov (Leningradskiy institut inzhenerov zheleznodorozhnogo transporta

Card 2/4

Dissertations

105-58-5-24/28

N.V.Bokov on July 1, 1948 "Means and Ways of Reducing Costs for the Contact Network of Electric Railroads". Official opponents: A.Ye.Kaplyanskiy, Professor, Doctor of Technical Sciences and V.A.Belyakov, Docent, Candidate of Technical Sciences.

V.A.Glebov on July 5, 1950 "Dynamical Maximum Loads in Systems with Transportable Railroad Electric Power Plants of Low Power Output". Official opponents: N.P. Yermolin, Professor, Doctor of Technical Sciences and Yu.A.Reyngol'dt, Docent, Candidate of Technical Sciences.

K.K.Sheleshkov on July 5, 1950 "On the Problem of the Experimental Investigation of Non-Steady Processes in Power Current Circuits of D.C.Locomotives". Official opponents: A.Ye.Kaplyanskiy, Professor, Doctor of Technical Sciences and Y.D.Levashov, Engineer.

L.K.Sveshnikova on July 5, 1950 "The Supplying of Railroad Depots of Electrified Lines with Electric Power from the D.C.Contact Network" Official opponents: D.A.Zavalishin, Professor, Doctor of Technical Sciences and V.I.Drozdov, Docent, Candidate of Technical Sciences.

Card 3/4

Dissertations

105-58-5-21/28

G.A.Ansberg on March 5, 1953 "The Protection of Power Current Circuits in D.C. Locomotives Against Excessive Loads and Short Circuits". Official opponents: M.A.Petrov, Professor, Doctor of Technical Sciences and N.D.Treymund, Docent, Candidate of Technical Sciences.

S.V.Milyutin on January 23, 1954 "On the Application of Electric Resistance Braking on Self-Propelled Rail Car Sections". Official opponents: V.Ye.Rozenfel'd, Professor, Doctor of Technical Sciences and V.F.Tabachinskiy, Docent, Candidate of Technical Sciences.

AVAILABLE:

Library of Congress

Scientific reports--USSR
 Electrical equipment--USSR
 Electrical equipment--Materials
 Electrical networks--USSR

Card 4/4

BELOVIDOV, VS

112-1-877

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 140 (USSR)

AUTHOR:

Belovidov. V. S.

TITLE;

Problem of Applying a "Motor-Generator" System as a Drive for Heavy Duty Shaft Ventilators (K voprosu o primenenii sistemy "generator-dvigatel'" dlya privoda shakhtnykh ventilyatorov bol'shoy moshchnosti)

PERIODICAL: Tr. Severo-Kavkazsk. gorno-metallurg, in-ta, 1956, Nr 12,

pp. 112-127

ABSTRACT:

Requirements for an electric drive of a centrifugal shaft ventilator (V) are briefly enumerated. Deficiencies of an induction electric V-drive are indicated, as well as the advantages of an electric drive with a synchronous motor. Various alternatives of the V-drive are discussed (induction motor, cascade unit, synchronous motor with a notching mechanical gear, synchronous motor with a d-c electric transmission of the  $\Gamma$ -A system), and a comparison is made (on an actual example of one of the Donbass shafts of all these alternatives by technical and economical indexes. The use of hydraulic couplings and of asynchronous sliding couplings for the control of V speed is considered unsuitable because

Card 1/2

112-1-877

Problem of Applying a "Motor-Generator" System as a Drive for Heavy Duty Shaft Ventilators (Cont.)

of heavy losses in the couplings when operating on regulating characteristics. It is emphasized that with a V capacity of from 400 to 1000 kw, a drive of the /-/A system appears to be most efficient because it satisfies all requirements on the electric drives of shaft ventilators.

Card 2/2

L 1235-66 EWT(m)/EPA(w)-2/EWA(m)-2 IJP(e) GS

ACCESSION NR: AT5007977

8/0000/64/000/000/1056/1060

AUTHOR: Belovintsev, K. A.; Belyak, A. Ya.; Vorontsov, S. B.; Cherenkov, P. A.

TITLE: Strong-current microtron-injector

SOURCE: International Conference on High Energy Accelerators. Dubna. 1983.

Trudy. Moscow, Atomizdat, 1964, 1056-1060

TOPIC TAGS: low energy accelerator, magnetron, electron beam

ABSTRACT: By analyzing the characteristics of various low-energy accelerators (Van-de-Graaf generator, cascade generator, pulse transformer, microtron, linear accelerator, etc.) from the viewpoint of their utilization as an injector for the synchrotron, the authors found the application of the microtron for this purpose very promising. The determining motives of their selection were the simplicity of design and construction, high monoenergetic character, good geometric beam parameters, ease of output of a large part of the accelerated electrons, and compactness of this accelerator. In order to experimentally verify the theoretical assumptions, and also to study new possibilities, mainly concerned with the enhancement of the intensity, a 7-Mev microtron was erected and put into operation (October 1961) in the Photomeson Processes Laboratory, Physics Institute im. P. N.

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ACCESSION NR: AT5007977

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Lebedev, Academy of Sciences SSSR. The present report discusses the principal characteristics of the microtron. This accelerator was described in detail in another work (Belovintsev, K. A., Belyak, A. Ya., Gromov, A. M., Horoz, Ye. H., Cherenkov, P. A. Atomnaya energiya 14, 359 (1963)). The magnet of the microtron (total weight of the iron and windings -- 2 tons) ensures the creation of homogeneous (not worse than 0.3%) field in the circular region 50 cm in diameter for a gap of 12 cm between the pole terminals 60 cm in diameter. The maximum value of the homogeneous field in the gap is 4000 oersteds. The magnet's power supply is stabilized with an accuracy of 0.05%, and the power consumed in the operational state (around 1000 oersteds) amounts to 450 watts. The magnet poles are the covering of the vacuum chamber, realized in the form of a brass ring with nine soldered outlet pipes. The vacuum exhaust system consists of a mechanical fore-vacuum and para-oil pumps. A vacuum of 10-6 mm of mercury in the chamber's working volume is reached in 1.3 hours after it is attached. The microtron high-frequency system includes the following elements: (a) magnetron generator of 10 cm range operating in the pulse state at a frequency of repetition 50 or 100 hertz and pulse duration of 3 microseconds; (b) waveguide track with cross-section 72 × 44 mm operating in the fundamental wave mode Hol; (c) plane cylindrical resonator in which oscillations of

Card 2/3

L 4235-66 ACCESSION NR: AT5007977 the type E010 are excited (Kapitsa, S. P.; Bykov, V. P.; Melekhin, V. N. ZhETF 41, 368 1961)). Works on the study and improvement of the characteristics of the microtron as a strong-current injector are continuing. Especially interesting is the study of the possibility of the microtron as an injector of positrons for various storage devices (Belovintsev, K. A.; Denisov, F. P. Atomaya energiya (in print)): "In conclusion the authors thank their associates at the Photomeson Laboratory, A. M. Gromov, A. V. Borisov, and V. S. Malofeyev, for their participation in the Individual experiments and developments." Orig. art. has: 5 figures. ASSOCIATION: Fizicheskiy institut imeni P. N. Lebedeva AN SSSR (Physics Institute, AN SSSR) ENCL: 00 SUB CODE: NP. SUBMITTED: 26May64 NO REF SOVE 004 OTHER: 000

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UTHOR: Belovintsev, K. A.; Cherenkov,	P. A. 25 B-/	
	BT/	17.00
ITLE: Positron microtron 19		
OURCE: International Conference on Hig	th Energy Accelerators. Dubna, 1963.	1.8
rudy. Moscow, Atomizdat, 1964, 1061-10		30.2
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OPIC TAGS: high energy accelerator, po evice	ositron, electron positron pair, storage	
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	cle storage is based mainly upon the tre- acovered by the realization of collisions of	e S
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rincipal cause of the large number of t	technical difficulties which have arisen	133
	er scheme of electron-positron storage de-	
	ently powerful sources of positrons. The beams for storage rings of the types: elec	C-
ron beam of synchrotron + gamma-quantum	beam + e from accumulator target and	
lectron beam from linear accelerator +	e from accumulator target give comparative	84.55

L 4236-66 ACCESSION NR: AT5007978

ly lower coefficients of conservation for given interval of angles and energies that are determined by the design of the storage device. Thus the initial beam of electrons must possess energies at least equal to the energy of the accumulator storage device. Extensive approaches to progress in storage techniques were opened in connection with the development of the idea of the conversion of any synchrotron into a storage device, which was proposed in 1961 by Yu. M. Ado (Atomnaya energiya 12, 54 (1962). Here one drops the necessity for storage rings as accessories added to the accelerator, but the energy of injection is limited to the "usual" interval of 5 to 10 Mev. In view of the practical realization of this method the authors have considered the possibility of the utilization of the microtron as a universal injector for the synchrotron-accumulator. The problem of the injection of electrons from the microtron into the synchrotron has been discussed in detail in another work (Belovintsev, K. A.; Belyak, A. Ya.; Gromov, A. M.; Moroz, Ye. M.; Cherenkov, P. A. Atomaya energiya 14, 359 (1963)). In the present work the authors limit themselves only to procedures for obtaining, accelerating, and exiting the positrons from the microtron (also discussed by Belovintsev, K. A.; Denisov, F. P. Atomnaya energiya, in print). It is concluded that the proposed alternative of the universal injector is clearly shown to be advantageous over two separate injector-accelerators from the viewpoints of techniques, exploitation, and economy (Melekhin,

Card 2/3

L 4236-66 ACCESSION NR: AT5007978 V. P. Dissertation, Institute of Physical Problems, AN SSSR 1963). For an intensity of around 100 milliamperes per pulse attained by the microtron in question, about 107 positrons per pulse are obtained. As for the electron source, cathodes of lanthanum boride (LaB6) are used for injection, emitting surface 1.5 x 1.5 mm (microtron at Institute of Physical Problems) and 1.5 × 9 mm (Physics Institute im. F. N. Lebedev). As for the optical characteristics of the external beam, the total angular divergence of the beam at output of the microtron at the Lebedev Physics Institute amounts to  $1.5 \times 10^{-3}$  along vertical and  $1.5 \times 10^{-2}$  along the horizontal; the beam height is 1-2 mm depending upon the phase of the oscillations and the radial dimensional is of the order of 3-4 mm depending upon the phase of the radial oscillations. Orig. art. has: 4 figures. ASSOCIATION: Fizicheskiy institut imeni P. N. Lebedeva AN SSSR (Physics Institute an SSSR) ENCL: 00 SUB CODE: SUBMITTED: 26May64 OTHER: 000 NO REF SOV: 004

SOV/120-59-2-3/50

Belovintsev, K.A., and Yablokov, B.N. AUTHORS:

Measurement of the Particle Distribution as a Function TITLE:

of the Amplitudes of Radial-Phase Oscillations (Izmereniye raspredeleniya chastits po amplitudam

radial no-fazovykh kolebaniy)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 2, pp 12-15

(USSR)

Card 1/2

ABSTRACT: It is shown, using the adiabatic invariance method, that

this distribution can be determined by measuring the intensity distribution in an expanded \u03c4-ray pulse and,

simultaneously, the high frequency voltage on the resonator. The corresponding experiment was carried out on the 280 Mev synchrotron of the Physical Institute of the Academy of Sciences of the USSR (FIAN). intensity was measured by means of a single channel time

analyzer as described in Ref 6. The resonator voltage was measured by the voltmeter described in Ref 7. circuit of this tube voltmeter is shown in Fig 3. typical electron distribution over the amplitudes of

radial-phase oscillations is shown in Fig 4. shows the angular half-width of a bunch (in radians) as

a function of energy, and Fig 6 the dependence of this

SOV/120-59-2-3/50

Measurement of the Particle Distribution as a Function of the Amplitudes of Radial-phase Oscillations

half-width on the time of application of the high frequency voltage. Fig 4 was used to compute the form of the resonator voltage which gives a uniform distribution in an expanded γ-ray pulse. The form of the voltage that will do this is shown in Fig 7. This form of the resonator voltage fall-off is used in the above machine. V.I. Kotov, L.L. Sobsovich and I.S.Danilkin

Card 2/2 machine. V.1. Notov, L.L. Sobsovich and I.S. Danilk are thanked for valuable discussions.

There are 7 figures and 8 Soviet references.

ASSOCIATION: Fizicheskiy institut AN SSSR (Physical Institute of the AS USSR)

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Belovintsev. K.A., Karpukhin, O.A., Kutsenko, A.V., Shapkin, A.A., and Yablokov, B.N.

An Apparatus for Measuring the Intensity Distribution in an Expanded  $\gamma$ -Ray Pulse from a Synchrotron (Pribor dlya TITLE:

izmereniya raspredeleniya intensivnosti v rastyanutom

impul'se gamma-izlucheniya sinkhrotrona)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 2, pp 15-18

(USSR)

ABSTRACT: In most cases the 280 Mev γ-ray pulse from the FIAN synchrotron is expanded to 2-2.5 μ sec (Ref 1). W

this is done, it is necessary to know the intensity distribution within the  $\gamma$ -ray pulse. It is further desirable to be able to determine this intensity distribution continuously in order to obtain the average form of the pulse during experiments. Such measurements can be carried out using a multichannel time analyser working with a suitable probe whose count is proportional to the instantaneous intensity (e.g. a scintillation counter). However, such equipment is expensive and bulky and its

use is not always justified. Instead, a single channel The  $\gamma$ -ray pulse analyser may be used for this purpose. Card 1/3 passes through the "window" of the analyser which looks

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SOV/120-59-2-4/50 An Apparatus for Measuring the Intensity Distribution in an Expanded \( \gamma - \text{Ray Pulse from a Synchrotron} \)

at a definite part of the pulse at a time and records it with an appropriate counter. The particular part of the pulse must then be related to the total intensity of the expanded pulse. The device described in the present paper can carry out this operation using a step-by-step switch. A NaI(T1) crystal working in conjunction with a FEU-19 photomultiplier is used as the γ-ray detector. amplitude of the pulse at the photomultiplier load is proportional to the instantaneous value of the intensity of the expanded γ-ray pulse. The output from the photomultiplier is fed into two channels. The first channel (integral) sums up all the pulses fed into it and is in fact simply a monitor, and the counts recorded by it are proportional to the integral intensity of the synchrotron. The second channel is a differential one and will pass only the part of the pulse defined by the analyser "window", and the counts recorded through this channel are proportional to the intensity at the given instant of time. The width of the "window" can be either 50 or 100 µ sec. The "window" may be moved along

Card 2/3