

POLAND/Nuclear Physics - Nuclear Power and Technology.

C

Abs Jour : Ref Zhur Fizika, No 10, 1959, 22284

Author : Jezowska-Trzebiatowska, B., Bartecki; Chmielewska, M.,
Przywarska, H., Mikulski, T., Dukietnynska, K., Kakolo-
wicz, W.

Inst : -

Title : Studies on the Chemistry of Sesquivalent and Quadri-
valent Uranium in Organic Solvents.

Orig Pub : Nukleonika, 1958, 3, Spec Number, 39-58

Abstract : No abstract.

Card 1/1

- 21 -

JEZOWSKA-TRZEBIATOWSKA, B.; BUKIETYNSKA, K.

The change of Lande's interval parameter for U (IV) and
the new spectrochemical series. Bul chim PAN 12 no. 2:
123-126 '64

1. Department of Inorganic Chemistry, University, Wroclaw.
Presented by W. Trzebiatowski.

BUKIEWICZ, Henryk (Poznan)

Genus Salix (willow) in nature and the economy. Wszechswiat
no. 5:112-114 My'61

BUKIEWICZ, Henryk

Certain habitat factors of the Nowy Tomysl Plain in the region where sandy humus soils occur. Roczniki wuz szkola rol Poznan 14 3-9 '63.

Studies on the fertilization of certain types of barrens and land formerly azable. Ibid.:11-14.

1. Department of Forest Cultivation, College of Agriculture, Poznan,

MROCKIEWICZ, Leon; BUKIEWICZ, Henryk

Fruiting of various varieties of black currant (*Ribes nigrum* L.)
in the older habitat. Roczniki wyz szkola rol Poznan 14 91-107
'63.

1. Department of Forest Cultivation, College of Agriculture, Poznan.

MROCKIEWICZ, Leon; BUKIEWICZ, Henryk

Studies on methods of accelerating the germination of the seeds of the sumac (*Rhus typhina* L. Tourn). *Prace nauk rolnicze* 15 no. 3:213-232 '63 [publ. '64]

1. Department of Specific Forest Cultivation, College of Agriculture, Poznan.

BUKIEWICZ, Henryk

Cultivation value of cuttings of *Salix americana* hort
damaged by hail. *Prace nauk roln i lesn* 17 no.2:121-
162 '64.

1. Department of Specific Forest Cultivation, Higher School
of Agriculture, Poznan.

BUKIN and SAVONTIN

"The use of the movable desinfectional device LSD."

Veterinariya, Vol. 37, No. 6, 1960, p. 73

Bukin - Vet. Dr. Bryansk Meat Combine

POKROVSKIY, Aleksandr Nikolayevich; BUKIN, Aleksandr Alekseyevich; GAV-
RILOV, Dmitriy Fedorovich; TOLKACHEV, S.S., retsenzent; GONCHA-
RUK, Yu.K., red.; STRYZHKOVA, N.I., red. izd-va; NIKOLAYEVA,
L.N., tekhn. red.

[Operating motortrucks with carburetor engines under low temperature
conditions] Eksploatatsiia avtomobilei s karbiuratornymi dvigatelemi
v usloviakh nizkikh temperatur. Moskva, nauchno-tekhn. izd-vo M-va
avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 171 p.
(MIRA 14:10)

(Motortrucks—Cold weather operation)

ACC NR: AR6032367 SOURCE CODE: UR/0081/66/000/012/N100/N100

AUTHOR: Gross, L. G.; Bukin, A. I.

TITLE: Method of evaluating the electric excitability of photographic films

SOURCE: Ref. zh. Khimiya, Part II, Abs. 12N564

REF SOURCE: Tr. Vses. n.-i. konofoto-in-ta, vyp 52, 1965, 36-47

TOPIC TAGS: photographic film, electric potential, cellulose triacetate film, cellulose nitrate film, terelene film

ABSTRACT: A device is proposed for determining the accumulation rate of charges on films, as well as the influence of the speed of the film, of its take-up pull and roller material on charge magnitude. The device makes it possible to determine the kinetics of the electric potential increment and the value of the limit potential, as well as to study the electric excitability of films (cellulose triacetate, cellulose nitrate, terelene) as well as the effectiveness of film varnishes. L. Vinogradov.
[Translation of abstract]

SUB CODE: 14/

Card 1/1

UDC: 771

PUDOVIK, A.N.; MOSHKINA, T.M.; KRUPNOV, G.P.; BUKIN, A.I.; SEMENOVA, L.A.;
Prinimali uchastiye: KOSTYUKOVA, L.A., laborant; PETROVA, M.G.,
laborant; TEMIRBAYEV, A.M., inzh.; FAZULLIN, A.Yu., inzh.; POLOZOVA,
L.P., laborant; NAZAROVSKAYA, G.V., laborant

Synthesis and study of organophosphorus plasticizers for the tri-
acetate film bases. Trudy NIKFI no.46:17-25 '62.

(MIRA 18:8)

L 10185-66 EWP(m)/EWP(j) RM

ACC NR: AP5028480

SOURCE CODE: UR/0286/65/000/020/0064/0064

AUTHORS: Moshkina, T. M.; Pudovik, A. N.; Krupnov, G. P.; Bukin, A. I.; Semenova, L. A.

ORG: ncne

53
B

TITLE: Method for obtaining plasticized ester-cellulose films, for instance, triacetate cellulose films. Class 39, No. 175646¹⁵ [announced by All-Union Scientific Research Motion Picture Institute (Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut)]

SOURCE: Byulleten' izobreniy i tovarnykh znakov, no. 20, 1965, 64

TOPIC TAGS: polymer, plasticizer, plastic compound, plastic material, plastic, film

ABSTRACT: This Author Certificate presents a method for obtaining ester-cellulose films, for instance, triacetate cellulose films, by introducing esters of polybasic acids into a solution of cellulose triacetate. To increase the variety of plasticizers, esters of phesphonoacetic acid are used as the plasticizing agent.

SUB CODE: 11/ SUBM DATE: 13Jun64

Card 1/1

UDC: 678.544.43 678.049.13.002.2

BUKIN, A.L., aspirant; FILATOV, G.V., nauchnyy rukovoditel' raboty, kand.
biol.nauk

Toxicity of sevin to mammals and birds. Veterinariia 42
no.11:93-95 N '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy
sanitarii.

I 42198-66 E.T(1) 30

ACC NR: AP6005020

(A)

SOURCE CODE: UR/0346/65/000/011/0093/0095

AUTHOR: Bukin, A. L. (Aspirant)

24
23
B

ORG: All-Union Scientific Research Institute of Veterinary Sanitation (Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii)

TITLE: The toxicity of sevin for mammals and fowl

SOURCE: Veterinariya, no. 11, 1965, 93-95

TOPIC TAGS: veterinary medicine, insecticide, toxicity ~~toxicity~~

ABSTRACT: In the search for new insecticides with a relatively low toxicity for warm-blooded animals, sevin was tested in an 85% wetting powder in suspension given orally. Toxicity in mice was determined by clinical symptoms of poisoning and percentage of mortality; in rabbits and hens the action of acetylcholinesterase and cholinesterase in the blood was also used. Residual amounts of sevin and its metabolites in organs and tissues of rabbits and chicks were determined by paper chromatography. Tabulated results of toxicity of various sevin preparations are given for white mice. Doses up to 300 mg/kg caused no clinical symptoms of poisoning in rabbits. At 500 mg/kg rabbits survived despite severe clinical symptoms of poisoning, but all died at 700 mg/kg. Chromatographic analysis of specimens of organs and tissues of rabbits indicates an absence of sevin with doses up to 300 mg/kg, but all organs and tissues contained .075--1.2 mg/kg at 600--700 mg/kg.

Card 1/2

UDC: 619:615.777/.779:615.9

L h2198-66

ACC NR: AP6005020

Deaths of ducks began at 1000 mg/kg, and 28--70 mg/kg of sevin appeared in all specimens of organs and tissues from 4000 to 6000 mg/kg, while birds killed 4 days after ingesting 3000 mg/kg of sevin showed neither sevin nor its metabolites. Chicks died and showed traces of sevin in chromatographic analysis beginning at 250 mg/kg. For full-grown hens (leghorns weighing 2--5 kg) the first clinical symptoms of poisoning appeared at 1500 mg/kg, and deaths began at 2000 mg/kg. One hundred percent mortality occurred at 3000 mg/kg. Adsorption by hen's organs and tissues was tested with 2000 mg/kg of marked sevin of 259--336 microcuries, and results showed the presence of sevin within 5 minutes of ingestion and a duration of 6 days. It is concluded that sevin has a relatively low toxicity for animals tested. Ye. A. Puchkova, aspirant in the entomology laboratory, participated in the test with hens. Orig. art. has: 3 tables.

SUB CODE: 06/

SUBM DATE: none

Card 2/2 of

FILIPPOV, M.M.; BUKIN, A.N.

Oscillograph for the centimeter band. Izv. vys. ucheb. zav.;
radiotekh. no.3:373-376 My-Je '58. (MIRA 11:7)

1.Rekomendovana kafedroy radiofiziki Leningradskogo gosudarstvennogo
universiteta.

(Oscillograph) (Microwaves)

SOV/120-59-2-42/50

AUTHORS: Bukin, A.N., and Filippov, M.M.

TITLE: High Voltage Rectifier with Output Voltage Control
(Vysokovol'tnyy vypryamitel' s reguliruyemym
vykhodnym napryazheniyem)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 2,
pp 139-141 (USSR)

ABSTRACT: The block diagram is shown in Fig 1. The low voltage supply, which should be stabilised, is first converted into a voltage between 12 and 15 kV peak at a frequency of 8 kc/s. This derived supply is rectified in 3 units. In the first two units D.C. supplies of +10 kV and -10 kV are formed. The third unit is a voltage quadrupler with outputs at +20, +30 and +50 kV. There are auxiliary units for feeding the heaters of the high voltage rectifiers in the quadrupler period. Fig 2 is a more detailed circuit diagram, and Table 1 describes the five-winding coil to which the GU-29 valve is connected as a Hartley oscillator. Fig 3 shows how the coil is mounted with respect to the first two rectifiers. The oscillator is tuned by varying the position of a cylindrical ferrite core of F-600 material and its

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1/3

SOV/120-59-2-42/50

High Voltage Rectifier with Output Voltage Control

output voltage can be varied from 2 to 12 kV by changing the grid bias but this results in a dissimilar variation of the ± 10 kV outputs. The quadrupler uses valves type 1Tsl1P and would normally supply +40 kV for an input of 11 kV. By connecting the rectifier system in series with the +10 kV supply a maximum of +50 kV can be obtained. The +20 kV supply is filtered via the components R_4C_{12} . Valves λ_8 and λ_9 are a pulse power supply for the quadrupler heaters and are coupled by the transformer TI-1 shown in Fig 4. Table 2 gives some typical readings taken at various points in the circuit. The quadrupler together with its heater transformer is mounted separately in a unit measuring 130 x 170 x 110 mm³ completely filled with paraffin. The whole arrangement measures 300 x 300 x 200 mm³ and can supply 1 mA at 50 kV to a UHF oscillograph tube using

Card 2/3

High Voltage Rectifier with Output Voltage Control

SOV/120-59-2-42/50

post-acceleration.

There are 4 figures and 2 tables.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet
(Leningrad State University)

SUBMITTED: March 29, 1958

Card 3/3

BUKIN, Anatoliy Nikolayevich; FILIPPOV, Mikhail Mikhaylovich;
ISAYEV, Andrey Elyubovich; TSAR'KOVA, Z.I., red.;
YELIZAROVA, N.A., tekhn. red.

[Oscillographic recording of super-high frequency oscillations] Ostsillografirovanie kolebanií sverkhvysokikh chastot. Leningrad, Izd-vo Leningradskogo univ., 1963. 211 p.
(MIRA 16:4)

(Oscillograph) (Microwave measurements)
(Electric measurements)

ANISIMOV, A.A., nauchnyy sotrudnik; BORISOV, S.M., nauchnyy sotrudnik;
BUKIN, A.P., nauchnyy sotrudnik; SOLYUS, G.P., nauchnyy sotrudnik;
SHMELEV, V.V., nauchnyy sotrudnik; CHIZHOV, K.Ya., otv. red.;
ROSHCHINA, L., red.izd-va; LEBEDEV, A., tekhn.red.

[Local finances in capitalist countries] Mestnye finansy kapitalisticheskikh stran. Moskva, Gosfinizdat, 1958. 156 p. (MIRA 12:1)

1. Moscov. Nauchno-issledovatel'skiy finansovyy institut.
(Finance)

ANISIMOV, A.; BORISOV, S.; BUKIN, A.; BURLAKOV, M.

New work on the finances of capitalism ("Finances of capitalistic states." Reviewed by A. Anisimov and others). Fin. SSSR 21 no.9: 79-82 S '60. (MIRA 13:9)

(Finance)

L 04095-67 EWP(j)/EWT(1)/EWT(m)/T IJP(c) RM

ACC NR: AR6023276

SOURCE CODE: UR/0058/66/000/003/D124/D124

AUTHOR: Pudovik, A. N.; Moshkina, T. M.; Krupnov, G. P.; Bukin, A. I.; Semenova, L. A.

TITLE: Plastification of triacetate celluloid films by mixed phosphoric-acid ethers

SOURCE: Ref zh. Fizika, Abs. 3D1028

REF SOURCE: Tr. Vses. n.-i. kinofotoin-ta, vyp. 52, 1965, 5-16

TOPIC TAGS: photographic film, plasticizer

46
E

ABSTRACT: The authors investigated the plastification of triacetate films by mixing phosphoric-acid ethers. It is shown that at least some diphosphates of diethylene glycol result in better mechanical film properties than the previously used mixture of triphenyl phosphate and dibutyl phthalate. However, in the presence in them of aliphatic radicals, their compatibility with the film deteriorates with increasing length of the radical. To improve the compatibility, one can introduce cyclic radicals, Cl atoms, and alcoxyl groups into the ether groups. The most effective for the compatibility are the latter, and they also improve noticeably the physical and mechanical properties of the films. A. Karuzhanskiy. [Translation of abstract]

SUB CODE: 14

kh

Card 1/1

01095-67 ENT(1)/T/RS3-2 IJP(c) JG3

REC NR: AR6023275

SOURCE CODE: UR/0058/66/000/003/D124/D124

AUTHOR: Gross, L. G.; Bukin, A. I.

TITLE: Method of estimating the electric excitation ability of films ^{2D}

56
B

SOURCE: Ref. zh. Fizika, Abs. 3D1026

REF SOURCE: Tr. Vses. n.-i. kinofotoin-ta, vyp. 52, 1965, 36-47

TOPIC TAGS: photographic film, excited state, surface property, photographic emulsion

ABSTRACT: An instrument was developed for the measurement of the surface potential of photographic film materials that become charged by motion through the picture-taking, processing, etc. apparatus. The instrument makes it possible to investigate the rate of accumulation of charges and its dependence on the rate of motion and on the tension of the film, on the materials of the rollers, etc., and also to determine the sign of the resulting charge. Several emulsion-technology problems for the solution of which the constructed instrument would be useful are considered. A. Kartuzhanskiy.
[Translation of abstract]

SUB CODE: 14

Card 1/1

ACC NR: AP7003846

(A)

SOURCE CODE: UR/0122/67/000/001/0054/0057

AUTHORS: Noritsyn, I. A. (Doctor of technical sciences, Professor); Golovin, V. A. (Candidate of technical sciences, Docent); Bukin-Batyrev, I. K. (Engineer)

ORG: none

TITLE: Increasing the extrudability of structural carbon steels for cold extrusion

SOURCE: Vestnik mashinostroyeniya, no. 1, 1967, 54-57

TOPIC TAGS: metal extrusion, carbon steel, plastic deformation, ferrite, pearlite, annealing, hardness, metal heat treatment/ 10 carbon steel, 20 carbon steel, 35 carbon steel, 45 carbon steel

ABSTRACT: This work establishes a quantitative relationship between the conditions of preliminary heat treatment of blanks and the cold extrudability of the most widely used structural carbon steels 10, 20, 35, and 45. The low-carbon steels (10, 20) were subjected to subcritical and supercritical annealing. The high-carbon steels (35, 45) were subjected to cyclic annealing and to other combined treatments. The tests of 10 steel showed that, in the presence of supercritical (740--760C), cyclic (4 cycles from 650 to 780C) and high-temperature (1050C) annealing, strong grain growth occurred, which reduced the hardness (see Fig. 1). It was established that the maximum increase in extrudability is achieved for 10 steel with supercritical annealing, for 20 steel with normalization and annealing, and for 35 and 45 steels with cyclic annealing and

Card 1/2

06-18707-11009-14-29

ACC NR: AP7003846

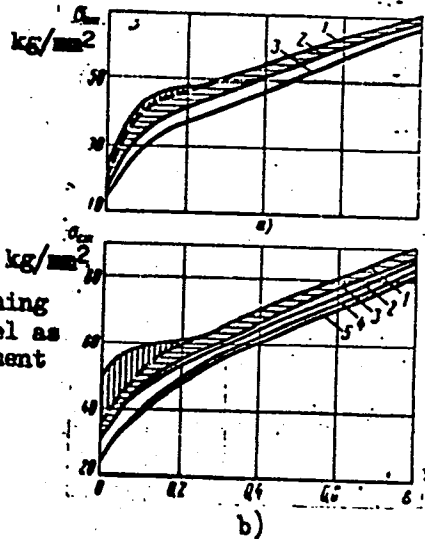


Fig. 1. Curves of hardening of 10 (a) and 20 (b) steel as a function of heat treatment

with normalization and annealing. The obtained results can serve as starting data for calculating the loads on tools and for selecting heat treatment conditions. Orig. art. has: 2 graphs and 3 tables.

SUB CODE: 13,11/SUBM DATE: none/ ORIG REF: 003/ OTH REF: 004 .

Card 2/2

BUKIN, F.

Let's look at the future. Mast. lesa 2 no.7:23-24 Jl '58.

(Forests and forestry) (Wood-using industries)

(MIRA 11:9)

BUKIN, F. I.

Aug 51

USSR/Engineering - Welding, Materials

"Electrodes for Building Up cutting Tools and Machine Parts by Welding,"
A. I. Serpokrylov, D. Ya. Sobantsev, F. I. Budkin, N. F. Vank, Engineers

Avtogen Delo, No 8, pp 22-23.

Discusses preparation of components and methods for fabrication of heavy-coated metal electrodes and sintered-type electrodes. Materials for latter include wastes of pobedite, vokal, high-speed steel and its substitutes, ferroalloys, hypereutectoid carbon steel, chilled cast-iron chips, metallic cobalt, nickel and graphite. Manganese, silicon and titanium serve as binders for sintering electrodes.

200T55

BUKIN, F.I.

Modernization of the ABS welding head and tractor. Avtom. svar. 15
no.2:90-91 F '62. (MIRA 15:1)
(Welding--Equipment and supplies)

ACCESSION NR: AP4009285

S/0125/64/000/001/0055/0058

AUTHOR: Antonets, D. P.; Bukin, F. I.

TITLE: Automatic flux welding of aluminum by two zigzag wires

SOURCE: Avtomaticheskaya svarka, no. 1, 1964, 55-58

TOPIC TAGS: welding, aluminum welding, aluminum arc welding, zigzag wire aluminum welding, automatic aluminum welding

ABSTRACT: Split-electrode flux automatic welding was used to manufacture aluminum tanks from 16-, 20-, and 32-mm-thick plates. As the method did not ensure a uniform weld quality, this improvement was introduced: two mutually-opposite-zigzag wires supplied by the same power lead are fed into the welding zone, perpendicular to the puddle. Due to the resulting alternating magnetic blowing, the metal in the puddle is well mixed and well degasified, and the depth of penetration increases. The device is shown in Enclosure 1. In the

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ACCESSION NR: AP4009285

case of thicker plates, 30-40% of the welds were defective when the old split-wire method was used; only 5-10% of the welds have been defective with the new zigzag-wire method. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Zhdanovskiy zavod tyazhelogo mashinostroyeniya (Zhdanov Works of Heavy-Machine Building)

SUBMITTED: 13Sep63

DATE ACQ: 07Feb64

ENCL: 01

SUB CODE: ML

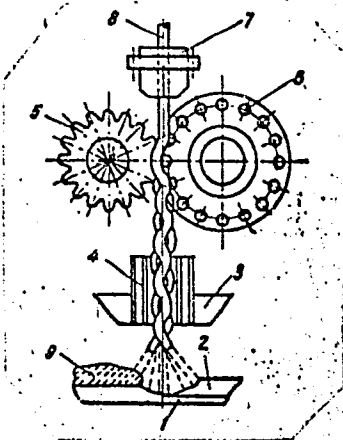
NO REF SOV: 000

OTHER: 000

Card 2/3

ACCESSION NR: AP4009285

ENCLOSURE: 1



A new device for the automatic welding of aluminum by means of two zigzag wires

- 1 - base metal
- 2 - weld-on metal
- 3 - shield
- 4 - power-supply bush
- 5 - driven pinion
- 6 - driving cog wheel
- 7 - guiding bushing
- 8 - electrode wire
- 9 - flux.

Card 3/3

ANTONETS, D.P.; BUKIN, F.I.

Electric welding under flux of aluminum by means of two bent
wires. Avtom.svat. 17 no.1:55-58 Ja 64. (MIRA 17:3)

1. Zhdanovskiy zavod tyazhelogo mashinostroyeniya.

GUL'BINOVICH, Mikhail Ivanovich; BUKIN, F.T., red.; BAKHTIYAROVA,
R.Kh., red.izd-va; LELYUKHIN, A.A., tekhn.red.

[Analyzing the economic and financial activity of landscape
gardening enterprises of cities] Analiz khoziaistvenno-fi-
nansovoi deiatel'nosti predpriatii gorodskogo zelenogo stroi-
tel'stva. Moskva, Izd-vo M-va kommun.khoz.BSFSR, 1960. 142 p.
(MIRA 13:9)

(Landscape gardening--Economic aspects)

GUL'BINOVICH, Mikhail Ivanovich. Prinsipal uchastiye MASHINSKIY,
L.O., kand. biolog. nauk; BUKIN, F.T., red.;
BAKHTIYAROVA, R.Kh., red.izd-va; KHENOKH, P.M., tekhn. red.

[Economics, organization and planning of municipal park and
horticultural services] Ekonomika, organizatsiia i planirova-
nie gorodskogo zelenogo khoziaistva i stroitel'stva. Moskva,
Izd-vo M-va kommun.khoz. RSFSR, 1962. 275 p. (MIRA 16:5)
(Landscape gardening) (Horticulture)

BUKIN, G

, Ed.

70X/6
621.121
.B9

A Short Guide, The Black Sea Coast of the Soviet Union. Moscow, Foreign Languages Publishing House, 1957.

182 P. Illus., Map.

Translated From The Original Russian: Chernomorskoye Poberezh'ye SSSR.

BUKIN G.I.

BUKIN, G.I., inzh.; KLAPCHUK, L.D., inzh.; LIPIN, A.I., inzh.

Automatic control of the waterside pumping station of a state
regional electric power station. Elek.sta. 29 no.1:82-85 Ja '58.
(MIRA 11:2)

(Automatic control) (Pumping stations)

BUKIN, G.I., insh.; KNELLER, I.O., insh.

Thyratron relay used in pulse signaling. Elek. sta. 29 no.10:92 0 '58.
(Thyratrons) (Electric relays) (MIRA 11:11)

BUKIN, G.I.; KEELER, I.; GOLOVCHENKO, L.I.

Use of stationary blowing devices for cleaning deposits from
the external surfaces of steam boilers. Energ. i elektrotekh.
pron. no.2-7-11 Ap-Je '62. (MIRA 15:6)

1. Slavyanskaya rayonnaya elektrostantsiya.
(Boilers--Cleaning) (Compressed air)

SOV/169-59-5-5397

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 5, p 146 (USSR)

AUTHOR: Bukin, G.V.

TITLE: Ionosphere Observations on the Station Vostok

PERIODICAL: Mezhdunar. geofiz. god. Inform. byull., 1958, Nr 5, pp 45 - 46

ABSTRACT: The author gives information on the regular work of the ant-
arctic ionosphere station Vostok, beginning on February 27, 1958. The main parameters of the ion sound are as follows: working range 1 - 18 Mcps, duration of the emitted pulses 50 - 70 μ sec, the power 2.5 kw, the time of covering the range 20 sec. A graph of the diurnal median course of the critical frequencies of the layers F_2 , F_1 , and E of the ionosphere and a graph of the minimum frequencies of reflection in the time from 1 to 20 March, 1958, are presented. The diurnal course of f_oF_2 is symmetrical relative to the local noon. The E layer is observed over the entire time of 24 hours. In addition to the main diurnal maximum of f_oE , the secondary nocturnal maximum (in 0.2 a.m.) is noted.

Card 1/1

Buking, G.V.

TABLE I BOOK EXPLORATION 501/439

Pravyya kontinental'naya ekspeditsiya 1955-1957 (Pravyya kontinental'naya ekspeditsiya 1955-1957) Scientific Results (First Monthly Reports, 1955, 101 p. 2,000 copies printed. (Series: Issi Materialy, tom 2)

Sponsoring Agency: Antarkticheskiy nauchno-issledovatel'skiy Institut.

Ed.: M.K. Somov, Doctor of Geographical Sciences; Tech. Ed.: L.P. Dronshina. PUBLISHER: This book is intended for polar specialists, geographers, geologists, meteorologists, and geophysicists.

CONTENTS: This book is Volume 2 of a multi-volume work containing scientific data collected by the first Soviet Continental Expedition to the Antarctic (1955-57), sent out under the auspices of the Antarkticheskiy Institut (Antarkticheskiy Nauchno-Issledovatel'skiy Institut (Arctic and Antarctic Scientific Research Institute) as part of the IOT program. The purpose of the expedition was to survey an area between 74 to 119° longitude and 59 to 70° latitude (an area of about 1 million square kilometers); to develop methods and techniques for field studies applicable to local conditions; to develop and carry out a systematic study of the ice and phenomena of the region. Ground and aerial observations were conducted in the more interesting areas around and between Mirny and Pionerskiy, in the Byrdland Island (a number of swaths (Lamuzin, Guss, etc.)), geological, zoological, and botany observations were made at the Mirny Observatory and at the Pionerskiy and Guss research stations. No personalities are mentioned. There are no references.

Quay, A.M., and V.P. Buzin. Meteorological Characteristics of the Glacier Group of East Antarctica

Vyurin, B.I., L.D. Dolgobab, A.P. Korotkiy, and T.M. Kozlov. Contemporary Ice Cover of East Antarctica and its Dynamics

Kamlerich, Ya.S. Ice Regime of the Davis Sea and Adjacent Regions of the Ocean

X Kozlovich, Ya.S. Biogeographic Characteristics of the Expedition's Area of Operation

Bukin, G.V. Ionospheric Observations

Semlin, P.L. Magnetic Field in the Region of Mirny

X Semlin, P.L., and V.A. Troitskiy. Investigation of Telluric Currents in the Region of Mirny

Spiritskiy, A.D. Seismic Observations in Mirny

Palarey, N.B. Medical Studies in East Antarctica

AVAILABILITY: Library of Congress (C860.538)

Book 1

PHASE I BOOK EXPLORATION 007/5336

Академия наук СССР. Междисциплинарный комитет по прежнему Методическому геофизическому году. V рудол. программы МЭЗ: Ионосфера

Исследования Ионосферы (Ionospheric Research) Moscow, Izd-vo AN SSSR, 1960. 112 p. (Series: Its Storms state; no. 5) 2,000 copies printed.

Resp. Ed.: G.N. Gorbushina. Candidate of Physics and Mathematics; Ed.: A.D. Podolskiy; Tech. Ed.: T.V. Polyakova.

PURPOSE: This publication is intended for geophysicists, meteorologists, and communications specialists.

COVERAGE: This collection of 12 articles on the ionosphere, published by the Soviet IOY Committee, presents some of the results of vertical soundings made at 23 Soviet stations in the period 1957-1959. Individual articles deal with the geographic distribution of ionospheric absorption and its relation to solar flares and magnetic storms, the altitudinal distribution of ionization calculated with electronic computers, and ionospheric observations in the Arctic and Antarctic. An English resume accompanies each article. No personalities are mentioned. References follow individual articles.

Ершова, Л.С. Dependence of the Maximum Frequencies of the Sporadic Es Layer on the Characteristics of the Ionosonde System	50
Чавуатов, С.С. Sporadic Es Layer According to Observations in Middle Latitudes	64
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Рубин, Д.Я. Ionospheric Observations on Board the Motor Ship "Kalina" During the Voyage to the Antarctic	100
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AVAILABLE: Library of Congress

34/001/007
1-88-51

Card 1/1

S/169/61/000/009/042/058
D228/D304

AUTHOR: Bukin, G. V.

TITLE: Ionospheric observations of the first and second continental expeditions

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1961, 18, abstract 9G145 (V sb. Sov. antarkt. ekspeditsiya 12, L., Morsk. transport, 1960, 82-477)

TEXT: Tables are cited for the hourly values of ionospheric parameters from observations at Mirnyy between May 1956 and December 1957. Concise information on the equipment is given, and the state of the ionosphere (average diurnal variations of layers F2, F1, and E; disturbances; peculiarities of the E layer) is described. Brief characteristics are given for radio-communication conditions in the Antarctic. [Abstracter's notes: Complete translation.] ✓

Card 1/1

BUKIN, G. V., ~~BUKIN, G. V.~~

"Anomalous Absorption in High Latitudes of the Southern and Northern Hemispheres." (I-2-7)

report submitted for the Intl. Conf. on Cosmic Rays and Earth Storm (IUPAP) Kyoto, Japan 4-15 Sept. 1961.

S/203/61/001/005/015/028
A006/A101

AUTHOR: Bukin, G. V.

TITLE: Some peculiarities of the F2 layer in the Antarctic

PERIODICAL: Geomagnetizm i aeronomiya, v. 1, no. 5, 1961, 730 - 739

TEXT: Materials from the Vostok and Mirnyy stations are used to determine some peculiarities of the F2 layer in the Antarctic. Data from Mirnyy are compared with those from stations located in the northern hemisphere symmetrically in respect to Mirnyy in both the geographical and geomagnetical coordinates. The author attempts to present a physical interpretation of regularities observed, such as: distinct diurnal variations of f_oF2 with a high ionization level during the polar night; a higher ionization background in the southern than in the northern hemisphere; an amplitude of critical frequencies at midday higher in winter than in summer for the maximum of solar activity; ionization maxima of the F2 layer at different hours at different stations. A comparison of Δf_oF2 with the cosine of zenith angle of the Sun and the sine of the angle of the Sun sinking below the horizon, did not explain the seasonal variations of the diurnal amplitude of Δf_oF2 . The effective factor of recombination was calculated by various methods;

Card 1/2

S/203/61/001/005/015/028
A006/A101

Some peculiarities of...

its values explain the shift of the ionization maximum during the afternoon and yield a correct notion on the decrease of electrons. However, recombination processes cannot explain the aforementioned peculiarities of the Antarctic ionosphere. Therefore, additional hypotheses will be required, as e.g. ionization under the effect of charged corpuscles, or redistribution of ionization due to horizontal and vertical drifts. There are 6 figures, 3 tables and 12 references: 6 Soviet-bloc and 6 non-Soviet-bloc. ✓

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, Ionosphere and Propagation of Radiowaves, AS USSR)

SUBMITTED: August 4, 1961

Card 2/2


S/203/61/001/005/023/028
A006/A101

AUTHOR: Bukin, G.V.

TITLE: Ionospheric observations on the Atlantic

PERIODICAL: Geomagnetizm i aeronomiya, v. 1, no. 5, 1961, 832

TEXT: On the passenger motor ship "M. Kalinin" ionospheric observations were carried out by vertical sounding during a voyage to the Antarctic coast in 1958 - 1959. As a result of the measurements the latitudinal section of the ionosphere over the Atlantic was obtained. A series of graphs shows results of observations in the equatorial region. The equatorial ionosphere is very different from that of middle latitudes and as appears from the graphs, slight shifts in the latitude entail considerable changes in the diurnal variations of foF2. It is probable, that such a strong latitudinal dependence of the F2 layer structure is connected with the electromagnetic effect of the equatorial electric stream, flowing in the E layer. The f-graphs presented show that marine observations are well suitable for studies of electromagnetic conditions in the equa-



Card 1/2

Ionospheric observations on the Atlantic

S/203/61/001/005/023/028
A006/A101

torial region, making it possible to observe gradual changes in the ionosphere during the motion of the vessel. There are 4 figures and 1 Soviet-bloc reference.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, Ionosphere and Propagation of Radiowaves, AS USSR)

SUBMITTED: August 4, 1961

Card 2/2

S/203/62/002/001/011/019
I023/I223

AUTHOR: Bukin, G.V.

TITLE: Geographical distribution of f_oF2 in the Antarctic

PERIODICAL: Geomagnetizm i Aeronomiya, v.2, no.1, 1962, 99-104

TEXT: Data from 24 stations located in the southern hemisphere at medium and high latitudes are used to draw maps of isolines of critical frequencies of the F2 layer. Comparison with the northern hemisphere shows an asymmetry in the ionosphere. The geographical distribution of f_oF2 in the northern hemisphere is more complicated. The asymmetry can possibly be explained by the asymmetry of the geomagnetic field. The maps of isolines of f_oF2 are for a period of maximum solar activity. There are 4 figures and 1 table.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln Akademi nauk SSSR (Institute of Terrestrial Magnetism, Ionosphere and Radiowave Propagation, Academy of Sciences USSR)
December 5, 1961

SUBMITTED:
Card 1/1

BUKIN, G.V.

Anomalous absorption at high latitudes of the southern hemisphere.
Geomag. i aer. 2 no.2:368-369 Mr-Apr '62. (MIRA 15:6)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya
radiovoln AN SSSR.

(Solar radiation)
(Ionosphere)

9.9500

42012

S/203/62/002/005/008/010
I046/I246

AUTHOR: Bukin, G.V.

TITLE: Geographical distribution of f_oE and some properties of the E-region in the Antarctic

PERIODICAL: Geomagnetizm i aeronomiya, v.2, no.5, 1962, 918-924

TEXT: The f_oE isolines constructed from the data of 18 ionospheric stations spread between 30 and 90°S show obvious asymmetry with respect to the noon meridian, which is suggestive of lack of correlation between f_oE and the cosine of the solar zenith angle, χ , in high southern latitudes. The exponent n in the expression

$$(f_oE)^n = (f_oE)_0^n / \cosh(R, \chi) \tag{1}$$

X

where $(f_oE)_0$ is the critical E-frequency for $\chi = 0$ and $\cosh(R, \chi)$ Chapman's function allowing for the sphericity of the Earth, is found to depend on latitude: $n \approx 3$ up to 50°S, $n \approx 4$ in higher latitudes; this anomaly is probably due to the superposition, in

Card 1/2

Geographical distribution of f_oE ...

S/203/62/002/005/008/010
I046/I246

high latitudes, of corpuscular ionization onto the ordinary ultraviolet ionization. The latitude distribution of E-layer disturbances and the occurrence frequency of the nocturnal E-layer (that forms regardless of sun's position) both attain their maxima at $\phi = 70$ to $80^\circ S$; this is probably due to the geomagnetic concentration of electron streams moving from the radiation belts to the ionosphere. There are 9 figures. ✓

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprosstraneniya radiovoln AN SSSR (Institute of the Terrestrial Magnetism, the Ionosphere and Propagation of Radio-waves AS USSR)

SUBMITTED: April 10, 1962

Card 2/2

4.9/20

44453
8/203/62/002/006/009/020
A001/A101

AUTHORS: Bukin, G. V., Fligel', M. D.

TITLE: Winter anomaly in the E-layer of the ionosphere

PERIODICAL: Geomagnetizm i aeronomiya, v. 2, no. 6, 1962, 1103 - 1106

TEXT: There is a peculiar feature, known as winter anomaly, in the seasonal variation of absorption, which consists in the following: absorption level is higher in winter than in summer, the zenith angle of the Sun being the same. It is assumed usually that this anomaly is due to sporadic formations in the lower ionosphere. The authors put forward another hypothesis to explain the winter anomaly from the viewpoint of the conventional ionization equation. Analyzing the expressions for ion formation rate I in winter and summer, they came to the conclusion that electronic concentration is higher in winter than in summer at the same value of the zenith angle of the Sun χ due to different rates of χ variation in different seasons. It follows thereof that winter anomaly must exist in the seasonal variation of critical frequencies of every regular layer. Experimental data from 50 stations all over the world were analyzed and it was

Card 1/2

Winter anomaly in the E-layer of the ionosphere

S/203/62/002/006/009/020
A001/A101

found that for the most stations $f_{oE_{win}} > f_{oE_{sum}}$. Moreover, winter anomaly was analyzed for the stations in Moscow and Yuzhno-Sakhalinsk for the periods of maximum and minimum solar activity; its existence was established in both. No correlation was found between maxima of R (average monthly number of sunspots) and f_{oE} . Formulae are given to determine the values of I and α (effective recombination coefficient) from the magnitude of winter anomaly. These values proved to be close to those known from the literature sources. There is comparatively small scatter of the values in different months. There are 2 tables and 1 figure. X

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, Ionosphere and Radio-wave Propagation, AS USSR)

SUBMITTED: June 20, 1962

Card 2/2

BELITSKIY, I.A.; BUKIN, G.V.; GABUDA, S.F.; MIKHAYLOV, G.M.

Investigation of laumontite using the method of nuclear magnetic resonance. Dokl. AN SSSR 159 no.5:1038-1040 D '64 (MIRA 18:1)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
Predstavleno akademikom V.S. Sobolevym.

BUKIN, G. V.

"On the Wave and Corpuscular Events in the Antarctic Ionosphere."

summary to be presented at the 13th Gen Assembly, IUGG, Berkeley, Calif,
19-31 Aug 63.

S/125/62/000/002/008/010
D040/D113

AUTHOR: Bukin, F.I.

TITLE: Modernization of the ABS welding head and the welding tractor

PERIODICAL: Avtomaticheskaya svarka, no. 2, 1962, 90-91

TEXT: Structures of 20 mm thick aluminum sheets are automatically welded at the Zhdanovskiy zavod tyazhelogo mashinostroyeniya (Zhdanov Heavy Machinery Plant) using welding equipment designed by the Institut elektrosvariki im. Ye.O. Patona (Electric Welding Institute im. Ye.O. Paton), i.e. a modernized АБС (ABS) welding head and a ТС-33 (TS-33) welding tractor which withstand continuous load for an entire day in operation with current of up to 500-550 amp. The hot portion of the welder and head, i.e. the brush holder, feeding roller and brush was altered because of heating and the drop in welding current, when welding with stronger current was introduced (700-750 amp, 48-50 v). The current supply was altered as shown in Fig. 1, and a new nozzle design (Fig. 2) was used. This permitted continuous automatic welding of 30 mm thick aluminum parts with long welds. There are 2 figures. [Abstracter's note: Complete translation]

Card 1/3

L 3 (SC5-65 EWT(d)/EPA(e)-1/EWT(m)/EWA(d)/EWP(v)/EPR/T/EWP(-)/E... (EWP(O))/
ACCESSION NR: AP4047230 S/0125/64/000/010/0075/0077

AUTHORS: Antonets, D.P. (Engineer); Bukin, I. F. (Engineer)

TITLE: Modernization of an "TS-33" type mobile welding unit for
aluminum and aluminum alloys

SOURCE: Avtomaticheskaya svarka, no. 10, 1964, 75-77

TOPIC TAGS: welding, aluminum, aluminum alloy, welding unit

ABSTRACT: A new method of welding aluminum and its alloys by means of two wires bent in opposite direction was developed in 1963. However, the application of the method involved the modernization of the welding unit. The design was improved by a detachable unit. The modernized unit makes automatic welding of 20 to 32 mm thick Al and Al alloy sheets possible (See Fig. 1 of the Enclosure). Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Zhdanovskiy zavod tyazhelogo mashinostroyeniya (Zhdanov Heavy Machine Building Plant)

Card 1/3

L 36305-65

ACCESSION NR: AP4047230

SUBMITTED: 27Apr64

ENCL: 01

SUB CODE: MM

NR REF SOV: 001

OTHER: 000

Card

2/3

ANTONETS, D.P.; BUKIN, I.F.

Modernization of the T3-33 tractor for welding aluminum and its alloys. Avtom. svar. 17 no.10:75-77 0 '64 (MIRA 18:1)

1. Zhdanovskiy zavod tyazhelogo mashinostroyeniya.

L 26096-66 EEG(k)-2/EWA(h)/EWT(1)
ACC NR: AP6013505

SOURCE CODE: UR/0120/66/000/002/00327

AUTHOR: Bukin, I. I.; Kosyakov, V. I.; Maksimov, V. L.; Nedovodiyev, E. V.
ORG: Leningrad Polytechnical Institute (Leningradskiy politekhnicheskii institut)

56
B

TITLE: An automatic magnetic field calibrator for electron paramagnetic resonance microwave spectrometers

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1966, 93-95

TOPIC TAGS: EPR spectrometer, microwave spectroscopy, magnetometer, phase detector

ABSTRACT: A circuit is given for an instrument²⁵ which automatically calibrates the magnetic field for electron paramagnetic resonance spectrometers. One of the main advantages of the circuit is that it may be assembled from standard components which are available in chemistry and physics laboratories engaged in electron paramagnetic resonance research. The device is conditionally divided into two functional units: 1. a system for automatically tracking the change in the magnetic field of the spectrometer; 2. a circuit for generating the field pips. The basic element in the first section is a standard IMI-2 magnetometer. The nuclear resonance signal from the phase detector of the magnetometer is fed to the input of a UE-119 amplifier. The output voltage from the amplifier is the supply for a reversible RD-09 motor with a 1/15.62 speed reducer. The motor shaft is connected through a clutch to the vernier shaft of

UDC: 539.28.078

BUKIN, I. V.

Gas and gas-core surveying in the northeastern slope of the
central Timan Ridge. Izv. vys. uch. zav.; geol. i razv. 5 no.7:
87-94 J1 '62. (MIRA 15:10)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.

(Timan Ridge—Gas, Natural—Geology)

BUKIN, I.V.; TENDER, O.V.

Sampling and checking drilling fluid in conducting gas logging
in coal deposits. Izv.vys.ucheb.zav.; geol. i razv. 6 no.11:86-
92 N '63. (MIRA 18:2)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.

BUKIN, I.V.

Combined gas and core analysis logging of hydrocarbons and
light inert gases in the Timan Ridge. Trudy MGRI 39:101=
III '63. (MIRA 16:10)

BUKIN, I.V., aspirant

Evaluation of the significance of coal-core samples in the study
of the gas potential of coal deposits. Izv. vys. ucheb. zav.;
geol. i razv. 7 no.1s72-75 Ja '64 (MIRA 18s2)

1. Moskovskiy geologorazvedochnyy institut imeni Ordzhonikidze.

BUKIN, I.V., aspirant; DOGADOV, A.A.

Determining the time of the circulation of drilling fluid in core
hole drilling. Izv. vys. ucheb. zav.; geol. i razv. 7 no.5:126-133
Iy '64. (MIRA 18:3)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.

BUKIN, I.V.; VOLKOV, V.N.

Determining the output of a pump in the continuous gas logging
of holes in core drilling. Razved. i okh. near 30 no.7:15-19
Jl '64. (MIRA 17:12).

1. Moskovskiy geologorazvedochnyy institut imeni Serge Ordshonikidze (for Bukin).

BUKIN, I.V.; YEFREMOV, K.A.

Basic requirements of materials in geological reports on the
gas content of coal seams. Ugol' 39 no.7:57-60 JI '64.

(MIRA 17:10)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze
(for Bukin). 2. Vostochnyy nauchno-issledovatel'skiy institut po
bezopasnosti rabot v gornoy promyshlennosti (for Yefremov).

1. BUKIN, K. P.
2. USSR (600)
4. Technology
7. Structure of pig iron. Kiev, Mashgiz, 1952.

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

BUKIN, Mikhail Andreyevich; KUKLIN, P.V., red.; KALLISTOVA, G.A., tekhn.
red.

[Stalingrad Hydroelectric Power Station is being built] Stalin-
gradskaya GES stroitsia. [Stalingrad] Stalingradskoe knizhnoe
izd-vo, 1958. 99 p. (MIRA 11:8)
(Stalingrad Hydroelectric Power Station)

BUKIN, Mikhail Andreyevich; BIRGER, Izrail' Semenovich; MEDVEDEV,
S.R., zasl. deyatel' nauki i tekhniki RSFSR, Laureat Gosu-
darstvennoy premii, prof., red.; BAKUN, A., red.; CHEPELEVA, O.,
tekhn. red.

[Largest in the world; history of the construction of the Volga
Hydroelectric Power Station (22d Congress of the CPSU)] Krup-
neishaya v Mire; k istorii sozdaniia Volzhskoi GES imeni XXII
s"ezda KPSS. Moskva, Sotsekgiz, 1962. 225 p. (MIRA 16:4)
(Volga Hydroelectric Power Station (22d Congress of the CPSU))--
Design and construction)

Bukin, Mikhail Andreyevich

Krupneyshaya v mire; k istorii sozdaniya Volzhskoy GES imeni XXII S" yezda KPSS (by) M.A. Bukin (1) I. Birger. Pod. red. S.R. Medvedeva. Moskva, Sotsekgiz, 1962.

225 p. illus., ports.

Bibliographical footnotes.

GELZMAN, G.L., kand. tekhn. nauk; BUKIN, P. Ye., inzh.-kapitan 2-go ranga,
kand. tekhn. nauk

Evaluation of the serviceability of power units of surface
ships. Mor. sbor. 49 no. 12:65-71 D ' 65 (MIRA 19:1)

L 29720-66 EWT(1) TG

ACC NR: AP6015406

SOURCE CODE: UR/0375/65/000/012/0068/0071

AUTHOR: Gluzman, G. L. (Candidate of technical sciences); Bukin, P. Ye. (Candidate of technical sciences; Engineer; Commander) A0
B

ORG: none

TITLE: Evaluating the operational reliability of power stations on surface craft

SOURCE: Morskoy abornik, no. 12, 1965, 68-71

TOPIC TAGS: statistic analysis, power plant, reliability theory, *marine engineering*

ABSTRACT: The methods of statistical analysis are used for determining the operational reliability of shipboard power stations. The probability of dependable operation of the individual mechanisms is taken as the principal criterion for reliability. This criterion should be given by designers and implemented by industry. Reliability of the power installations is evaluated from the probability for maintaining 100% power as well as at least 75%, 50% and 25% of the rated power and finally the probability for total power loss. These criteria may be used for determining the reliability of the power stations in normal operating conditions as well as in emergency situations. An example is given showing evaluation of the reliability of a turbine boiler installation. Graphs are given which may be used to determine the probability of dependable operation of a power installation when the reliability of the individual units in the

Card 1/2

L 29720-66

ACC NR: AP6015406

installation decreases due to wear after protracted use. It is shown that the reliability of dependable operation depends on the working conditions of the installation. Therefore, these conditions should be strictly defined before a ship leaves port. Formulas are given which may be used to account for the skill of servicing personnel as well as for the average repair time and breakdown frequency. Orig. art. has: 2 figures, 7 formulas.

DATE SUBM: none
SUB CODE: 14/7 ORIG REF: 006

Card 2/2 CC

SAKOVA, F.S.; BUKIN; T.V.

Organizational and prophylactic work in the control of
diphtheria at the Second Pediatric Therapeutic-Prophylactic
Union in Alma-Ata for 1960 and 1961. Zdrav.Kazakh. 22 no.6:
61-63 '62. (MIRA 15:11)

(DIPHTHERIA--PREVENTION)

USTINOV, M.I.; BUKIN, P.A.

Effect of basic factors on coal gasification in panel No. 1 of
Yuzhno-Abinsk "Podzemgaz" gas-producer plant. Podzem. gaz. ugl.
no. 2:3-7 '58. (MIRA 11:7)

1. Institut gornogo dela AN SSSR.
(Kuznetsk Basin--Coal gasification, Underground)

USTINOV, M.I.; ~~BUKIN, P.A.~~

Criticism of I.D.IUdin's, I.A.Turchaninov's, and M.K.Revva's
review entitled "Erroneous analysis of the performance of gas-
producer No.1 at the Yuzhno-Abinskiy "Podzemgaz" Plant." Podzem.
gaz.ugl. no.2:78-79 '59. (MIRA 12:9)
(Kuznetsk Basin--Coal gasification, Underground)
(IUdin, I.D.) (Turchaninov, I.A.) (Revva, M.K.)

ACC NR: AP6031843

(N)

SOURCE CODE: UR/0375/66/000/007/0076/0083

AUTHOR: Dorofeyev, I. D. (Engineer; Rear Admiral); Bukin, P. Ye. (Engineer; Captain 2d Rank; Candidate of Technical Sciences); Klimenko, N. A. (Engineer; Captain 2d Rank); Rikhter, A. A. (Engineer; Captain 1st Rank Reserve; Candidate of Technical Sciences)

ORG: None

TITLE: Naval propulsion engineering during the years of Soviet power

SOURCE: Morskoy sbornik, no. 7, 1966, 76-83

TOPIC TAGS: marine engineering, marine engine, diesel engine, gas turbine engine, nuclear propulsion engine, engine performance characteristic, engine reliability

ABSTRACT: The status of propulsion machinery building, as a base for powerful propulsion installations, is of great significance for the building of a navy. The absence, in the past, of a strong machinebuilding base was the result of the dependence of the Russian fleet on foreign states for propulsion engineering. The main propulsion equipment for combatant ships was made abroad, or on foreign license. The history of the development of "classic" steam and diesel installations is reviewed, as are such new installations as atomic powered and gas turbine ones. Certain of the qualitative and quantitative characteristics of the various types of installations are listed for purposes of comparison. Orig. art. has: 5 figures and 2 tables.

SUB CODE: 13,15/SUBM DATE: None
Card1/1 21

BUKIN, V.; GORA, G., red.; LOS', N., tekhn.red.

[Consolidated mechanized crew for corn growing] Ukrupnennoe mekhanizirovannoe zveno po vyrashevivaniu kukuruzy. Stavropol', Stavropol'skoe knizhnoe izd-vo, 1960. 13 p.

(MIRA 14:6)

1. Zven'yevoj ukрупnennogo mekhanizirovannogo zvena kolkhoza "Rossiya" Novo-Aleksandrovskogo rayona (for Bukin).
(Corn (Maize))

BUTYRINA, K.G.; BUKIN, V.A.

New karst bridges and arches in the Pashiya-Chusovoy region.
Peshchery no.3:73-74 '63. (MIRA 18:2)

L 44280-66 EWT(1)/EWT(m)/T WW/DJ

ACC NR: AP6005392 (N) SOURCE CODE: UR/0413/66/000/001/0141/0141

INVENTOR: Belikov, Ye. M.; Bukin, V. A.; Areshchenko, A. N. 22

ORG: none 8

TITLE: Multistage centrifugal pump. Class 59, No. 177777

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 141

TOPIC TAGS: pump, centrifugal pump

ABSTRACT: This Author Certificate introduces a multistage centrifugal pump with a labyrinth shaft seal and gradual pressure reduction on the seal. To rid the labyrinth of mechanical inclusions when operating with a polluted fluid, the pump is made with bypass pipes connecting the circular grooves of the labyrinth bushings with the respective pressure stages of the pump (see Fig. 1). Orig. art. has: 1 figure.

Card 1/2

UDC: 621.67

L 44280-66

ACC NR: AP6005392

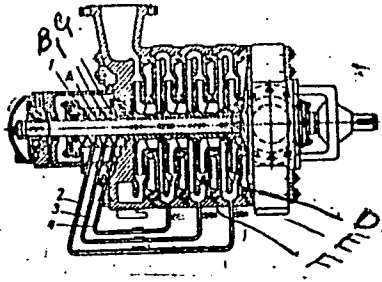


Fig. 1 Multistage centrifugal pump. 1— labyrinth bushing; 2 to 4— bypass pipes; A, B, and C— circular grooves; D, E, and F— cavities with pressure stages

SUB CODE: 13/ SUBM DATE: 26Dec63

[LD]

Card 2/2 mjs

BUKIN, V.G., tekhnick,

Redesign of the nonreturn valve. Energetik 4 no.6:21 Ja '56.
(MLBA 9:8)

(Valves)

BUKIN, V.G., tekhnik.

Graphite carbon packings in turbine control valves. Energetik 4
no.7:17-19 J1 '56. (MLRA 9:9)
(Packing (Mechanical engineering))

BUKIN, V. I. :

Bukin, V. I.

"The effect of the system of irrigation on the development and staggered productivity of alfalfa in the southern regions of eastern cis-Caucasia." All-Union Sci Res Inst of Fodder imeni V. R. Vilyams. Moscow, 1956. (Dissertation for the degree of Candidate in Agricultural Sciences)

Knizhnaya letopis
No. 15, 1956. Moscow

USSR / Cultivated Plants. Fodders.

M-4

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25078

Author : Bukin, V.I., Tarkovskiy, M.I.
Inst : The All-Union S.R.I. of Fodders
Title : The Effectiveness of Alfalfa Seed from the First
or Second Harvests on the Irrigated Land of Eastern
Predkavkaz'ye

Orig Pub: Byul. nauchno-techn. inform. Vses. n-1. in-t
kormov, 1957, No 2-3, 50-53

Abstract: The problem of whether it is more practical to let
the first or second harvest of alfalfa go to seed
is not clear enough, especially in regard to the
new rayons of Eastern Predkavkaz'ye with irrigated
agriculture. The author investigated this subject
in 1953-1955 and came to the conclusion that the
first alfalfa harvest yielded a larger output of

Card 1/2

81

USSR / Cultivated Plants. Fodders.

M-4

Abs Jour: Ref Zhur-Biol., No 6, 1958, 25078

Abstract: seeds than the second. Plants of the first harvest are more strongly developed, their roots contain more carbohydrates, and they have bigger seeds than the plants of the second harvest. They are less inclined to droop. All of these biological peculiarities make it possible to obtain, under local conditions, larger seed crops from the first harvest of alfalfa. -- S. A. Brushlinskiy

Card 2/2

BUKIN, V.I., kand.sel'skokhz.nauk (Orenburg)

Herbicides in the fields of medicinal plants. Zashch.rast.ot vred.
i bol. 7 no.4:58 Ap '62. (MIRA 15:12)
(HERBICIDES) (BOTANY, MEDICAL)

BUKIN, V.I., kand. sel'skokhozyaystvennykh nauk.

Irrigating alfalfa seed plants at different stages of growth.
Zemledelie 6 no.6:19-21 Je '58. (MIRA 11:6)
(Alfalfa)
(Irrigation farming)

BUKIN, V.I.

Effect of certain herbicides on the thistle *Leuzea carthamoides* and the Siberian rhubarb. Biul. Glav. bot. sada no. 38:85-88 '60.

(MIRA 14:5)

1. Vsesoyuznyy institut lekarstvennykh i aromaticeskikh rasteniy.
(Herbicides) (Rhubarb) (Thistle)

BUKIN, V.I., mostovoy master

Reinforcement of bridge footings. It' 1 put.khoz. 9 no.4:14
'65. (MIRA 18:5)

1. Stantsiya Verkhniy Ufaley, Yuzhno-Ural'skoy dorogi.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

LIST AND INDEX CATEGORIES

PROCESSES AND PROPERTIES INDEX

ca

The presence of the anti-scurvy vitamin in various fruits and vegetables. N. N. Ivanov, V. N. Bukin, B. O. Borokhovich and K. L. Povolotskaya. *Bull. Applied Botany, Genetics Plant Breeding (U. S. S. R.) Series A, No. 8, 95-111(1933)*.—The basal diet given to guinea pigs in testing strawberries and currants for vitamin C consisted of oats 80, bean 10, yeast 4 and egg yolk 7.6 g. Wild strawberries were somewhat inferior to cultivated varieties in their antiscorbutic properties. Of the 4 varieties of black currant, the effective quantity ranged from 1 to 12 g. After these experiments the diet was changed to oats and autoclaved hay. Results were negative with 3 varieties of grapes. Of 11 varieties of apples "Antonovka" had the highest potency; 3 g. was sufficient to prevent scurvy. Cranberries also were efficient. Freezing the berries at -8° did not decrease their antiscorbutic action. Cabbage grown in the more arid steppe region contained more vitamin C than cabbage grown in the northern regions. Kohlrabi is high in vitamin C. J. S. Joffe

ASD 354 METALLOGRAPHICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

117 AND 140 CODERS 140 AND 174 CODERS
PROCESSES AND PROPERTIES INDEX

11E

CP

The antiscorvy vitamin in various fruits, berries and vegetables of the north. V. N. Bukin, K. I. Puryukozkaya and N. P. Osokhova. *Izv. Akad. Nauk, Genetic Plant Breeding (U. S. S. R.)* Suppl. 07, 25-31 (1934).—Of the 38 varieties of 8 kinds of vegetables, kohlrabi and red and savory cabbages proved to have the highest vitamin content; 1 g. acted as a prophylactic for the guinea pig (1 to 1 g. of the ordinary cabbage was required to accomplish similar results). Cultivated strawberries were more antiscorbutic than the wild strawberries. Of the wild fruits the dogrose shows an exceptional potency; 0.1 g. is an effective dosage. The bird cherry, dewberry and Amur wild grape are practically devoid of vitamin C. *Physalis pubescens*, *P. peruviana* and *P. fuscocaulata* are as potent as the orange.
J. S. Joffe

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

187 AND 140 CODERS 140 AND 174 CODERS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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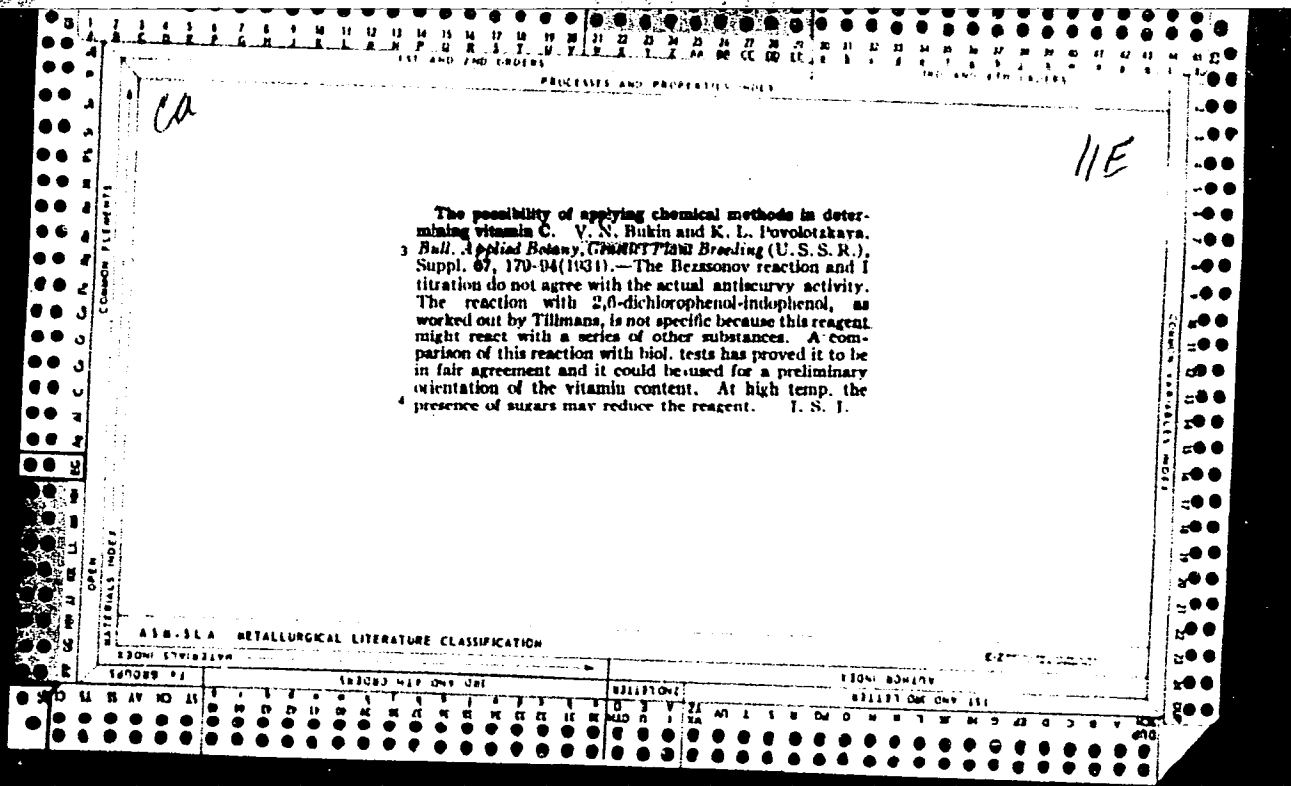
H-4

Influence of the cooking of vegetables on the preservation of vitamin-C. V. N. BUKIN, N. A. IZMAKOVA, and A. P. BOGOCHEVNIK (Bull. Appl. Bot. U.S.S.R., 1964, Suppl. 67, 129-142).—On boiling, cabbage and potato lost 50%, swede turnip 30%, and kohlrabi 10% of the vitamin-C content.

NOTE. Abs. (b)

ASM-51A METALLOGICAL LITERATURE CLASSIFICATION

GROUPS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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11E

COMMON ELEMENTS

PROCESSED AND PROPERTY NODES

100 AND 11TH CENTURY

ca

The biological method in determining the anticurvy vitamin. V. N. Bukin, K. L. Povolotzkaya and M. F. Glazunov. *Dokl. Akad. Nauk SSSR, Ser. Chem. Sci. (U. S. S. R.), Suppl. 67, 195-215(1934).*—A number of diets have been investigated with the Bezmonov diet as the standard. The latter was found to be unsatisfactory inasmuch as prophylactic doses of substances containing vitamin C, like orange juice, did not give any response. Addition of irradiated cereals, carotene and salts did not improve the Bezmonov diet. A diet of oats, autoclaved hay and autoclaved carrots was found to be satisfactory. Carotene in place of carrots was also satisfactory. The latter serves as a source of vitamin D. It also improves the vitamin A content. J. S. Ioffe

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

1950M STIRBIVM

TANDARD #1

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

1950M STIRBIVM

1950M STIRBIVM

137 AND 139 CROSS
138 AND 134 CROSS
PROCESSING AND PROPERTIES INDEX

BC AY

Determination of vitamin-C. V. N. HURIN
(Lenin Acad. Agric. Sci., Inst. Plant Ind. Bull. Appl.
Botany, Ser. 3, No. 8, 1934, 8-20).—A modification
of the method of Haemmerle and van Eckelen (cf. A.,
1934, 1150) is suggested, omitting CCl_4 , CO_2H and
using a mixture of 3% HCl and 5% aq. $HgCl_2$ in
making extracts of plant materials. Materials con-
taining reducing substances other than L-ascorbic acid,
when treated in this way, give results in harmony
with biological val. NOTR. ASS. (m)

COMMON ELEMENTS
COMMON VARIABLES

SECTIONAL INDEX
SECTIONAL INDEX

ASH-51A METALLURGICAL LITERATURE CLASSIFICATION

SECTIONAL INDEX
SECTIONAL INDEX

137 AND 139 CROSS	138 AND 134 CROSS	137 AND 139 CROSS	138 AND 134 CROSS
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z