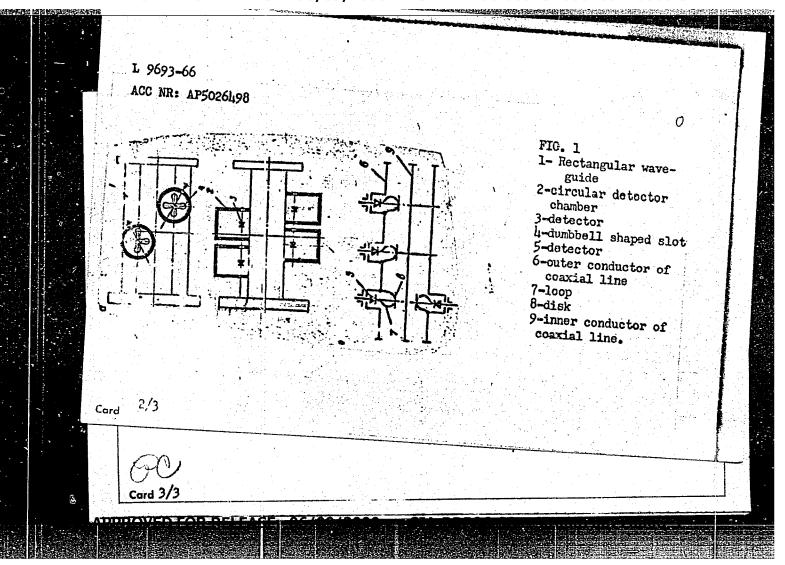


L 9693-66 EWT(d) ACC NR. AP5026498 SOURCE CODE: UR/0286/65/000/019/0028/0028 AUTHOR: Bondarenko, K. K. ORG. none Device for automatic measurement of the impedance of super-high frequency channels. Class 21, No. 175091 SOURCE: Byulleten dzobreteniy i tovarnykh znakov, no. 19, 1965, 28 TOPIC TACS: superhigh frequency electric impedance, waveguide resistance, coaxial cable ABSTRACT: This Author Certificate presents a device for automatic measurement of the impedance of super-high frequency channels. The device contains as an impedance detector a section of waveguide (or coaxial line) which is coupled to the detector heads through dumbbell-shaped slots(or inductive loops with a capacitive disk at the top) (see Fig. 1). To broaden the operating frequency band and to increase the accuracy of measurement, the detectors or inductive loops with a capacitive disk at the top(in the case of the coaxial detector) are rotated relative to the longitudinal axis of the waveguide or coaxial line by an angle of or if. UDC: 621.317.343.3 Card 1/3



ACC NRI AP6033470

SOURCE CODE: UR/0413/66/000/018/0057/0057

INVENTOR: Bondarenko, I. K.; Oleynikov, V. N.

ORG: none

TITLE: Superhigh frequency discriminator. Class 21, No. 185976

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 18, 1966,

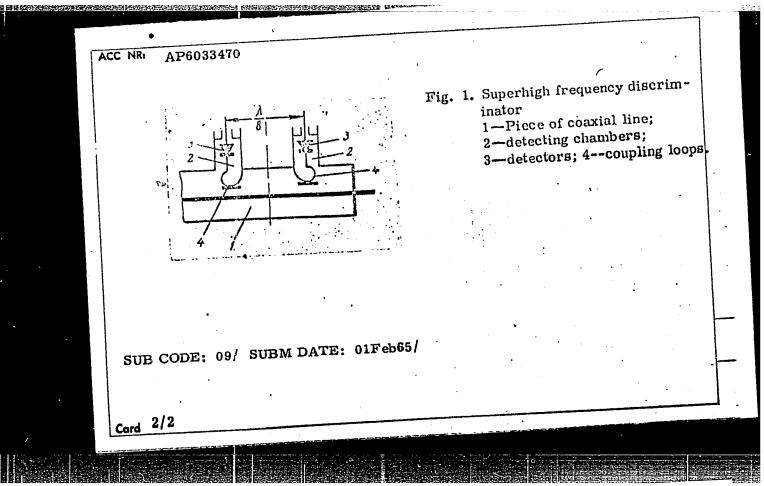
57

TOPIC TAGS: superhigh frequency, frequency discriminator, frequency shift

ABSTRACT: An Author Certificate has been issued for a superhigh frequency discriminator made in the shape of a section of a waveguide or coaxial line above which two detector chambers are placed. To ensure the prompt tracing of frequency shift over a wide wave range, the detectors or coupling loops are positioned in the planes of the cross-sectional piece at a distance of \(\frac{\lambda}{\text{}}\) and are turned at an angle of 22.5° with respect to the planes (see Fig. 1).

Card 1/2

UDC: 621, 317, 76:621, 328, 8:621, 315, 212



BONDARRHKO, Ivan Mikhaylovich, svinar'; POLYAKOVA, V., red.; YAKOVLEVA, Te., tekhn.red.

[I'll fatten off 3000 swine in a year] Otkormliu za god 3000 svinei. Moskva, Moskvakii rabochii, 1960. 35 p. (MIRA 13:11)

1. Sovkhoz "Odintsovo-Vakhromeyevo" (for Bondarenko). (Swine--Feeding and feeds)

DARROSSEESENTEESEN 1990年1990年1990年1990年1990年1990年1990年1990	Harris Constitution of the
DUN I-CHEN' [Tung I-chen] (Kitay); BONDARENKO, I.N. [translator]	
and the second s	
Experiments on the bolting of sugar beets, and characteristics of sugar beet flowering and fruiting. Agrobiologiia no.1:74-78 Ja-F *59. (MIRA 12:4)	
1. Sel'skokhozyaystvennaya akademiya Severo-Vostochnogo Kitaya, g. Kharbin.	
(ChinaSugar beets)	

CIA-RDP86-00513R000206220006-3

BONDARENKO Ivan Patrovich: BREZAHOVSKAYA, L.Ya., redsktor; YELAGIN, A.S.,
technicheskiy redsktor

[Automatic control in industry] Avtomatika na proizvodetve. Moskva,
Izd-vo "Sovetskaia Rossiia." 1957. 40 p. (Bibliotechka v pomosbich'
lektoru, no.16)

(Automatic control)

(Automatic control)

US E/Mines and Mining Drilling, Nock

"Results of the School of Fulti-cut Brilling by A. I. Semivolos' ethed," M. P. Gubskiy,

"Gornyy Zhurnall" No 6

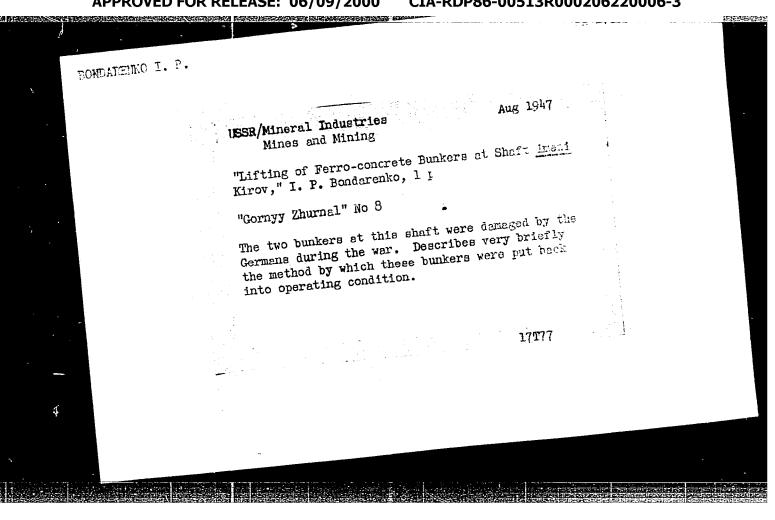
In 1946, six crews working in shafts imeni kirev according to Simivolos' method fulfilled their quotas by 205 to 250 percent. This method is so effective that apprentices at the PA 17772

PA 17772

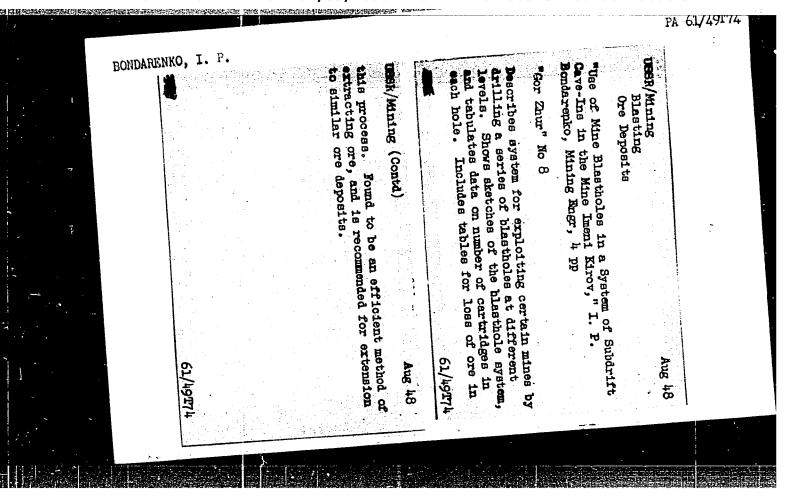
Description of tork done by I. A. Kutsakovskiy(s crew in exploiting blocks o and 8 of shaft inemi kirow. Tabular record of fullfillment of norms for 19h7 on a naverage of 165 percent.

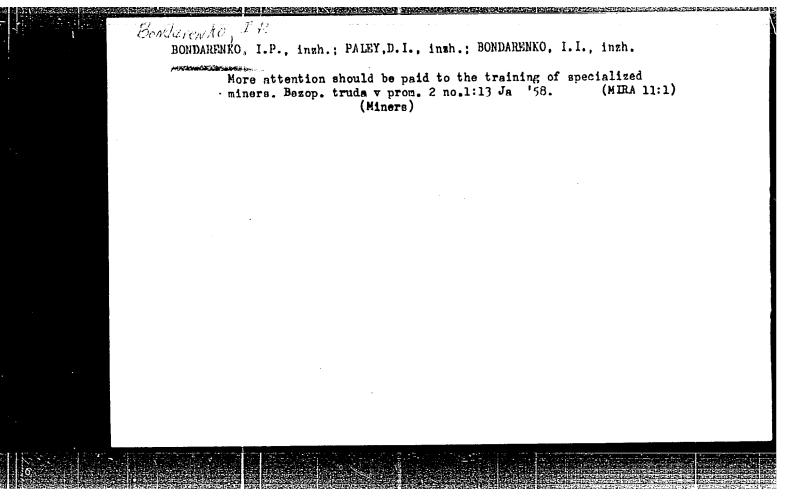
PA 1777h

USSR/Mineral Industries Aug 1947 Mines and Mining "Restoration of Top Cagers in Shafts Yuzhnaya and imeni Kirov," I. P. Bondarenko, 2 pp "Gornyy Zhurnal" No 8 Short description of work done in restoring top cagers of both shafts. Gives diagrams of the	BOMDAREMIC I. P.	· · · · · · · · · · · · · · · · · · ·	: 17:75
"Restoration of Top Cagers in Shafts Yuzhanya and imeni Kirov," I. P. Bondarenko, 2 pp "Gornyy Zhurnal" No 8 Short description of work done in restoring top cagers of both shafts. Gives diagrams of the	Eccionist		• •
"Gornyy Zhurnal" No 8 Short description of work done in restoring top cagers of both shafts. Gives diagrams of the			
Short description of work done in restoring top cagers of both shafts. Gives diagrams of the		"Restoration of Top Cagers in Shafts Yuzhanya and imeni Kirov," I. P. Bondarenko, 2 pp	
cagers of both shafts. Gives diagrams of the		"Gornyy Zhurnal" No 8	
top cagers before and after restoration.		cagers of both shafts. Gives diagrams of the	
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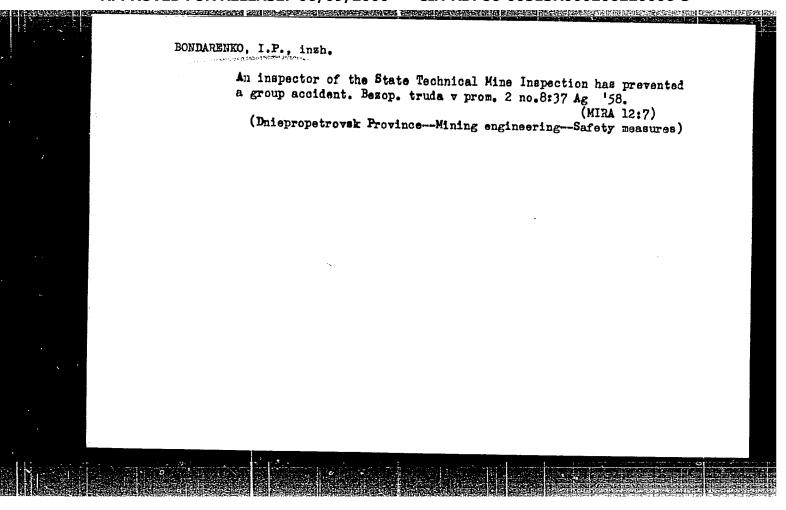


BONDARENKO, I.P., inzh.; YEVDOKIMOV, G.N., inzh.; BEZIADNOV, V.Ya.

On the article "Increase cross sections of haulageways." Bezop.
truda v prom. 2 no.2:22-23 F '58. (HIMA 11:2)

1. Machal'nik upravleniya Krivorozhekogo okruga Gosgortekhnadzora
SSSR (for Bondarenko). 2. Glavnyy inzhener upravleniya Kamakhstanskogo okruga Gosgortekhnadzora SSSR (for Bezladnov).

(Mining engineering)



SOV/68-59-1-8/26

Bondarenko, I.P., Kamenetskiy, G.D. and Dovbnya, K.I. AUTHORS: TITLE:

On the Choice of a Rational Shape of Lining of Coke-oven Doors (O vybore ratsional noy konfiguratsii futerovki

dverey koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1959, Nr 1, pp 33 - 34 (USSR)

ABSTRACT: The service life of door linings made from various types and shapes of refractory bricks (shown in Figures 1-4) is compared. It is pointed out that bricks M119 and M120 shaped as in Figure 4, at present used in the Zaporozhe cvens, give the best service life of 3-4 years. type of brick is recommended for future replacements and new batteries. In addition, it was found that the service life of 3-4 years for the above bricks is obtained when the beginning of the service coincides with the starting up of the new batteries. After replacement the service life decreases by about 50%. This is ascribed to the fact that when starting ovens, the doors are placed when the temperature of the oven is above 800 C so that the lining bricks undergo an additional firing slowly attaining their operating temperature. It is therefore

Card 1/2

SOV/68-59-1-8/26 On the Choice of a Rational Shape of Lining of Coke-oven Doors

considered that a special camera for firing lining bricks with the door directly in the region of counterforts should be designed by Giprokoks.

There are 4 figures and 1 table.

ASSOCIATION: Zhdanovskiy koksokhimicheskiy zavod (Zhdanovskiy Coking Works)

Card 2/2

sov/68-59-8-24/32

AUTHORS: Tamarin, M.D., Candidate of Technical Sciences and

Hondarenko, I.P.

TITLE: From the Experience of Operation of a Quenching Tower

Built from Slag Blocks (Opyt ekspluatatsii bashni

tusheniya iz litykh shlakovykh blokov)

PERIODICAL: Koks i khimiya, 1959, Nr 8, pp 52-53 (USSR)

ABSTRACT: Quenching towers built from ordinary clay brick

showed considerable wear of internal walls and floor. Freezing of water saturated bricks during winter contributes considerably to this wear. In 1955 a quenching tower was built on the Zhdanov Works from cast slag blocks (380 x 180 x 120 mm). After 4 years of operation no noticeable wear was observed. In another quenching tower the floor made from cast slag blocks showed no wear after 6 years. The use of slag blocks for lining the floor and walls of quenching

towers is recommended.

ASSOCIATIONS: Zhdanovskiy filial nauchno-issledovatel'skogo instituta nadshakhtnogo stroitel'stva (Zhdanov Branch of the

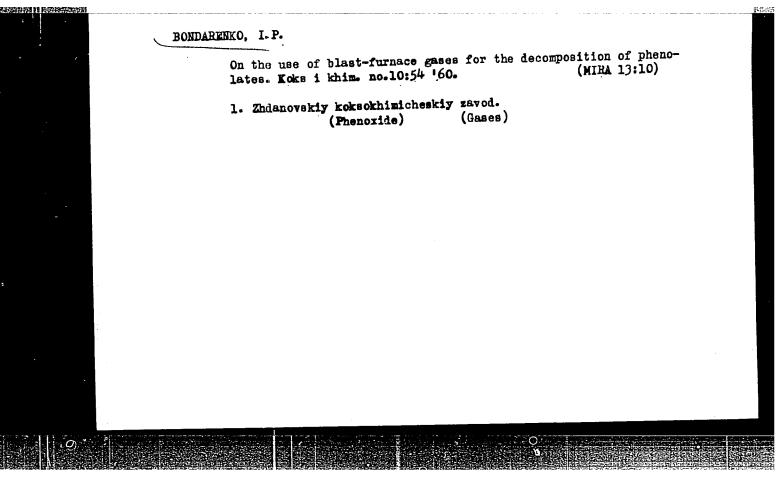
Scientific Research Institute for Surface Building for

Card 1/2

From the Experience of Operation of a Quenching Tower Built from Slag Blocks

mines)(Tamarin,M.D.,); Zhdanovskiy koksokhimicheskiy zavod
(Zhdanov Coking Works) (Bondarenko, I.P.).

Card 2/2



VOLOSHIN, A.I.; BOGOYAVLENSKIY, K.A.; AKHTYRCHENKO, A.M.; TURIK, I.A.; ZHIDKO, A.S.; LYALYUK, V.S.; GABAY, L.I.; ONOPRIYENKO, V.P.;
STARSHINOV, B.N.; BABIY, A.A.; SAVELOV, N.I.; Prinimali
uchastiye: TORYANIK, E.I.; VASIL'YEV, Yu.S.; SHEMEL', T.I.;
SENYUTA, V.I.; BONDARENKO, I.P.; AMSTISLAVSKIY, D.M.; SENYUTA, V.1.; HONDARENKO, 1.P.; APSTISIAVSKII, D.M.;
ANDRIANOV, Ye.G.; SERGEYEV, G.N.; ZAMAKHOVSKIY, M.A.;
LYUKIMSON, M.O.; IVONIN, V.K.; TSIMBAL, G.I.; SEN'KO, G.Ye.;
KONAREVA, N.V.; SOLODKIY, Yu.L.; LUKASHOV, G.G.; TARASOV, D.A.;
GORBANEV, Ya.S.; SUPRUN, I.Ye.; TIKHOMIROV, Ye.I.; KONONENKO, P.A.;
PROKOPOV, V.N.; GULYGA, D.V.; PLISKANOVSKIY, S.T.; PONOMAREVA, K.Ye. Effect of the length of coking on coke quality and the performance of blast furnaces. Koks i khim. no.12:26-32 !61. (MIRA 15:2) 1. Ukrainskiy uglekhimicheskiy institut (for Voloshin, Bogoyavlenskiy, Akhtyrchenko, Turik, Zhidko, Lyalyuk, Toryanik, Vasil'yev, Shemel'). 2. Zhdanovskiy koksokhiz cheskiy zavod (for Gabay, Senyuta, Bondarenko, Amstislavskiy, Andrianov, Sergeyev, Zamakhovskiy, Lyukimson, Ivonin, TSimbel). 3. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (for Onopriyenko, Starshinov, Babiy, Sen'ko, Konareva, Solodkiy). 4. Zavod "Azovstal" (for Savelov, Lukashov, Tarasov, Gorbanev,

Suprum, Tikhomirov, Kononenko, Prokopov, Gulyga, Pliskanovskiy,

(Coke) (Blast furnaces)

Ponomareva).

PHASE I BOOK EXPLOITATION

sov/6408

Bondarenko, Ivan Petrovich, and Nadezhda Vasil'yevna Budarova

Osnovy dozimetrii i zashchity ot izlucheniy (Fundametals of Dosimetry and Radiation Protection) Moscow, "Vysshaya shkola", 1962. 297 p. 6000 copies printed.

Ed.: Ye. L. Stolyarova; Ed. of Publishing House: D. Ya. Koptevskiy; Tech. Ed.: V. A. Murashova.

PURPOSE: The book is intended as a textbook for students at schools of higher education.

COVERAGE: The book is based on a series of lectures on radiation safety given by the author since 1954 at the Moscow Engineering Physics Institute for students of all departments. It is intended to fill the need for a book which is neither too erudite and specialized, nor too general and superficial. The book covers the basic concepts of dosimetry and control, gives the principles of calculation of shielding and shielding materials, describes

Card 1/8

-	Fundamentals of Dosimetry (Copt.)
	special apparatus and shielding techniques, explains decontamination and waste disposal, discusses instruments and methods of measuring activity, and describes instruments and methods for dosimetric control. The author thanks Docent Ye. L. Stolyarova, Docent B. P. Golubev, Professor K. K. Aglintsev, and Professor A. K. Gus'kova for valuable comments and advice.: References are listed by chapters at the end of the text. There are 94 citations: 84 from Soviet sources (including 18 translations), and 10 from English sources.
	TABLE OF CONTENTS
	Foreword
	Ch. I. Introduction 5
	Ch. II. Basic Quantities and Units of Measurement Activity and units of activity
	Card 2/8

KHANIN, I.M.; KARTSYNEL'M.B.; YAKOVLEV, V.I.; PORTYNENKO, V.A.; BONDARENKO, I.P.

Intensification of the process of benzene recovery. Koks i khim.

(MIRA 16:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut (for Khanin,

Kartaynel', Takovlev). 2. Gosudarstvennyy institut po proyektirovaniyu

predpriyatiy koksokhimicheskoy promyshlennosti (for Portynenko).

3. Zhdanovskiy koksokhimicheskiy zavod (for Bondarenko).

(Shrubber (Chemical technology))

(Benzene)

(Coke industry-By-products)

PHASE I BOOK EXPLOITATION

sov/6408

Bondarenko, Ivan Petrovich, and Nadezhda Vasil'yevna Budarova

Osnovy dozimetrii i zashchity ot izlucheniy (Fundametals of Dosimetry and Radiation Protection) Moscow, "Vysshaya shkola", 1962. 297 p. 6000 copies printed.

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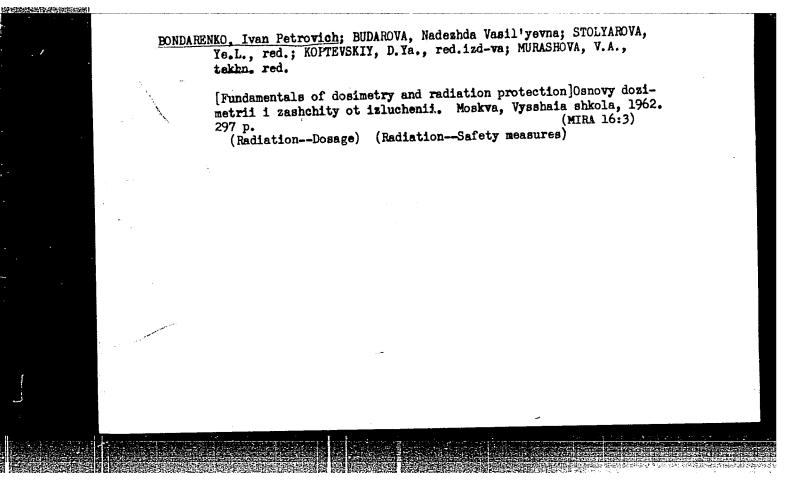
Card 1/80

Fundamentals of Dosimetry (Cont.) SCV/6408 special apparatus and shielding techniques, explains decontamination and waste disposal, discusses instruments and methods of measuring activity, and describes instruments and methods for dosimetric control. The author thanks Docent Ye. L. Stolyarova, Docent B. P. Golubev, Professor K. K. Aglintsev, and Professor A. K. Gus'kova for valuable comments and advice. References are listed by chapters at the end of the text. There are 94 citations: 84 from Soviet sources (including 18 translations), and 10 from English sources. TABLE OF CONTENTS Foreword 3 Ch. I. Introduction 5 Ch. II. Basic Quantities and Units of Measurement 11 Activity and units of activity

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APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206220006-3"

Card 2/8



BABAYEV, V.I., inzh.; GRANOVSKAYA, R.M., inzh.; ZHIVOTKOVA, L.V.; BONDARENKO, I.S.

Removal of suspended matter from neutralized wastes in the manufacture of synthetic fatty acids. Masl.-zhir. prom. 29 no.3:32-34 Mr 163. (MIRA 16:4)

1. Shebekinskiy kombinat sinteticheskikh zhirnykh kislot i zhirnykh spirtov.

(Acids, Fatty) (Industrial wastes)

BONDARPHKO, I.T., otvetstvennyy redaktor; GRISHAYENKO, M.I., redaktor; Romovenkova, Z.A., tekhnicheskiy redaktor

[Filling of mined areas; materials of the technical conference on problems of filling mined areas in Kuznetsk Basin mines] Zakladka vyrabotannogo prostranstva; materialy tekhnicheskogo soveshchaniia po voprosam sakladki vyrabotannogo prostranstva na shakhtakh Kuznetspo voprosam sakladki vyrabotannogo prostranstva na shakhtakh Kuznetspo voprosam sakladki vyrabotannogo prostranstva na shakhtakh Kuznetspo kogo basseina. Hogkva, Ugletekhisdat, 1954. 77 p. (MLRA 8:3)

1. Vsesoyuznoye nauchnoye inshenerno-tekhnicheskoe gornoe obshchestvo.
Zapadnosibirskoye i kemerovskoye otdeleniya.
(Kuznetsk Basin--Coal mines and mining)

BONDARENKO, I. V., Cand of Agric Sci — (diss) "Persimmons in Central Asia. (Biologico-ecological and silvicultural properties, and cultivation experiences)." Tashkent, 1957, 24 pp (Tashkent Agricultural Institute), 140 copies (KL, 29-57, 91)

USSR/Cultivated Plants - Subtropical and Tropical.

M-6

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 11075

Author

Bondarenko, I.V.

Inst

The Persimmon In Central Asia.

Title

: Sots. s. kh. Uzbekistana, 1957, No 3, 58-60

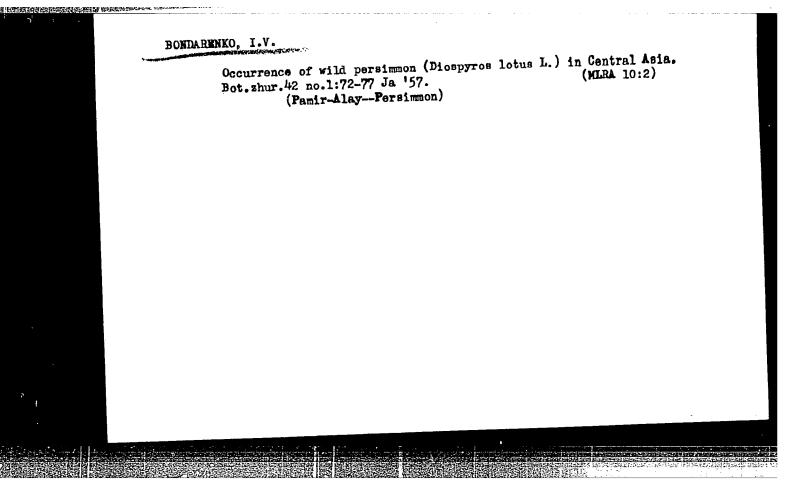
Abstract

Orig Pub

Although there are 190 varieties of persimmons, growing mainly in the tropics of the eastern hemisphere, only one, the common persimmon, grows wild in the USSR. The virgin persimmon can be grown in many regions of the Central Asian irrigated agriculture zone, and the common and eastern persimmon in warmer regions. The virgin persimmon is inferior to the eastern variety in the size of its fruit, but it is very aromatic and contains a large quantity of sugars, is frost-resistant, and less sensitive to soil and climatic conditions. It is recommended that the common persimmon and the girgin persimmon be regrafted

Card 1/2

7



BONDARENKO, I.V.

69

PHASE I BOOK EXPLOITATION

sov/5435

Kiselev, P. N., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchennyy 60-letiyu so dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology. v. 3: A Collection of Works Dedicated to the Sixtieth Birthday of Professor M[ikhail] N[ikolayevich] Pobedinskiy [Doctor of Nedicine]) Leningrad. Tsentr. n-issl. in-t med. radiologii M-va zdravookhrananiya SSSR, 1960. 422 p. 1,500 copies printed.

Tech. Ed.: P. S. Peleshuk.

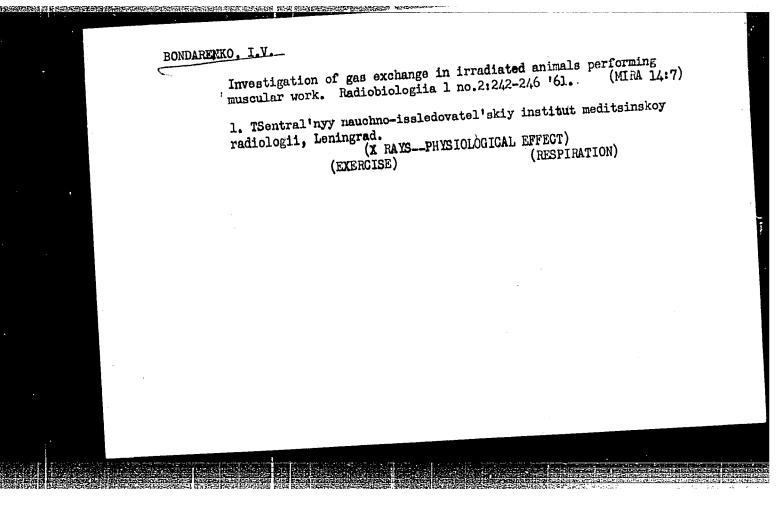
PURPOSE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis, and therapy of radiation diseases. Individual articles describe investigations of the biological effects of radiation carried out by workers of the Central Scientific Research Institute for Medical Radiology of the Ministry of Public Health, USSR. [Tsentral'nyy nauchno-issledovatel'skty institut meditainskoy radiologii Ministerstva zdravookhraneniya SSSR] during 1958-59. The following

card 1/10

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	Zedgenidze, G. A., [Member, Academy of Medical Solventh, K. V. Ivanov, and P. R. Vaynshteyn. Ho Zherbin, K. V. Ivanov, and P. R. Vaynshteyn. Ho Zherbin, K. V. Ivanov, and P. R. Vaynshteyn.	ormonal Activity of the	
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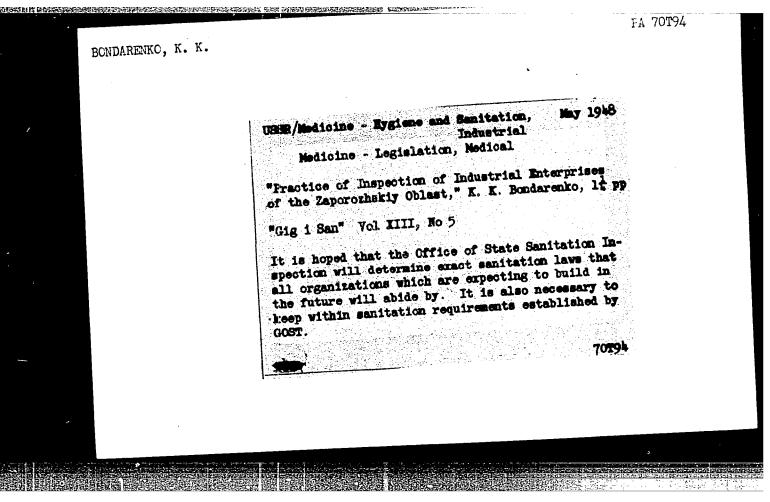
Problems in Radiation Biology (Cont.) Foplayskiy, K. K., Phasic Changes in the Ability of Irradiated Animals to React to Amesthetization Bondarenko, I. V. On the Reaction of Irradiated Dogs to the Introduction of Alpha Dinttrophenol Alekseyeva, G. R. Reaction of an Irradiated Organism to the Introduction of Gangliolytic Preparations [gangliolitiki] Protas, L. R., and A. A. Danilin. The Mechanian of Functional Protas in the Alimentary Canal During Acute and Subscute Perms of Experimental Raddation Sickness Aleksandrov, S. N. Some Methods of Approach to the Study of Early Stages of Radiation Sequelce Manoylov, S. Ye. Respiration of Tissue and Sensitivity to Radiation Manoylov, S. Ye. Respiration of Tissue and Sensitivity to Radiation Kachur, L. A., P. N. Kiselev, and A. N. Shuko. Effect of Ionizing Radiation on the Nater-Exchange Process Between the Blood and the Extravascular Liquids in the Organism Card 4/10			فتقفوه سيبوا الهابيا المساف	·	
Problems in Radiation Biology (Cont.) Poplayskiy, K. K. Phasic Changes in the Ability of Irradiated 78 Animals to React to Anesthetization Bondarenke, I. V. On the Reaction of Irradiated Dogs to the 86 Introduction of Alpha Dinitrophenol Alekseyeva, G. R. Reaction of an Irradiated Organism to the 95 Introduction of Gangliolytic Preparations [gangliolitiki] Protas, L. R., and A. A. Danilin. The Mechaniam of Functional Protas, L. R., and A. A. Danilin. The Mechaniam of Functional Disturbances in the Alimentary Canal During Acute and Subacute 97 Forms of Experimental Radiation Sickness Aleksandrov, S. N. Some Methods of Approach to the Study of Early Stages of Radiation Sequelae 104 Mencylov, S. Ye. Respiration of Tissue and Sensitivity to Radiation 111 Kachur, L. A., P. N. Kiselev, and A. N. Shutko. Effect of Ionizing Radiation on the Water-Exchange Process Between the Blood and the Extravascular Liquids in the Organism	1.5		10		
Froblems in Radiation Biology (Cont.) Forlavskiy, K. K. Phasic Changes in the Ability of Irradiated Animals to React to Amesthetization Bondarenko, I. V. On the Reaction of Irradiated Dogs to the Introduction of Alpha Dinitrophenol Alekseyeva, G. R. Reaction of an Irradiated Organism to the Introduction of Gangliolytic Preparations (gangliolitiki) Protas, L. R., and A. A. Danilin. The Mechanism of Functional Disturbances in the Alimentary Canal During Acute and Subacute Perms of Experimental Radiation Sickness Aleksandrov, S. N. Some Methods of Approach to the Study of Early Stages of Radiation Sequelae Manoylov, S. Ye. Respiration of Tissue and Sensitivity to Radiation Kachur, L. A., P. N. Kiselev, and A. N. Shutko. Effect of Ionizing Radiation on the Water-Exchange Process Between the Blood and the Extravascular Liquids in the Organism		cov/51/35			
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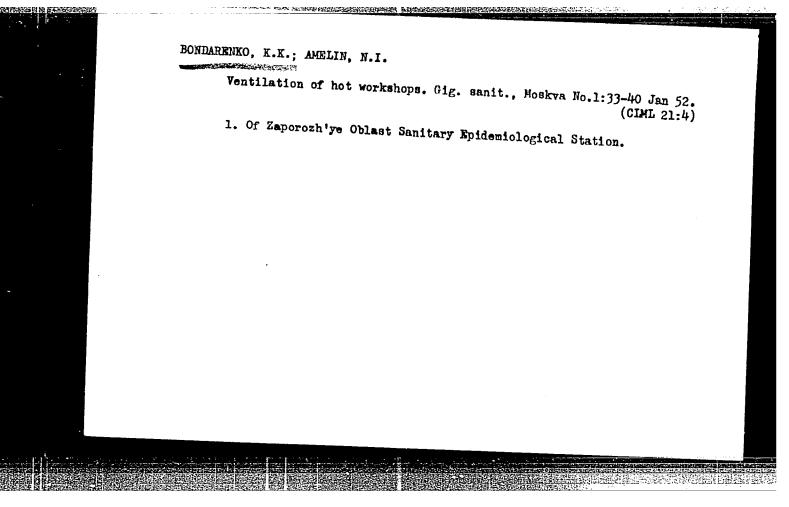


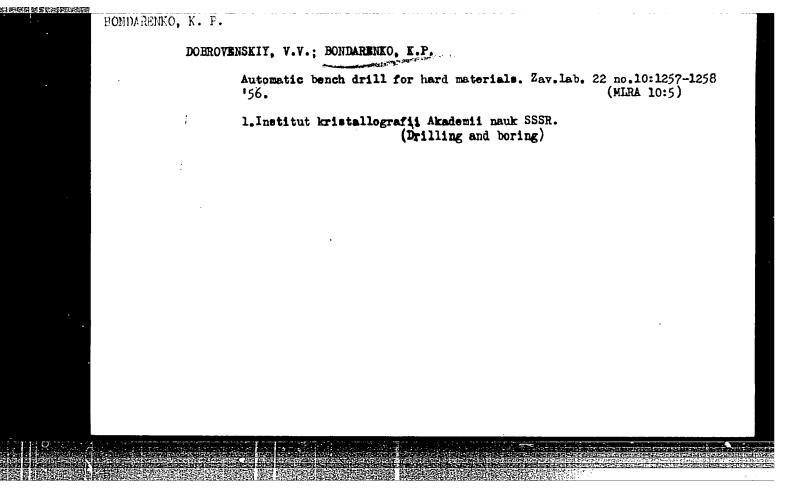
BONDARENKO, K. F., inzh.; VIKHOREV, G.A., inzh. Determining the height of coil spiral fins on the basis of

the condition of the volume of metals. Trudy OTIPiKhP 12: 117-120 '62.

1. Kafedra kholodil'nykh ustanovok i kafedra kholodil'nykh mashin Odesskogo tekhnologicheskogo instituta pishchevoy i kholodil'noy promyshlennosti.







BONDARENKO, 120-6-28/36 Distler, G.I., Bondarenko, K.P., and Dobrzhanskiy, G.F.

AUTHORS:

A Polarizing Attachment to the MKC-11 Infra-red Spectro-TITIE:

meter (Polyarizatsionnoye prisposobleniye k infrakrasnomu

spektrometru IKS-11)

建筑 医自由性动物 经收益

Pribory i Tekhnika Eksperimenta, 1957, No.6, PERIODICAL: pp. 106 - 108 (USSR)

ABSTRACT: The WKC-11 infra-red spectrometer is widely used in the USSR. A simple polarising attachment to this spectrometer was developed at the Institute of Crystallography of the Ac.Sc. USSR (Institut Kristallografii, AN SSSR). The polarising element consists of 8 polished plates of silver chloride 0.2 - 0.25 mm thick. The set of plates is at about 26 to the beam and is isolated from metal parts since silver chloride reacts strongly with metals. Provision is made for the rotation of the specimens and the device as a whole. The instrument has an average transmission of 30 to 40% and the degree of polarisation is 99 to 100%. The instrument can be used in the region $1-20~\mu$. Fig.1 shows a sectional drawing of the device; Fig.2 its general appearance and Fig.3 a typical spectrum obtained. There are 3 figures,

Institute of Crystallography of the Academy of Sciences ASSOCIATION: of the USSR Card 1/2

. Folarizing Attachment to the MKC-11 Infra-red Spectrometer.

(Institut Kristallografii AN SSSR)

SUBMITTED: April 16, 1957.

AVAILABLE: Library of Congress.

Card 2/2

SOV/120-58-5-21/32

AUTHORS: Grum-Grzhimaylo, S. V., Bondarenko, K. P., Klimusheva, G. V.

TITLE: An Attachment to the SF-4 for Studying Absorption in Crystals (Prisposobleniya k SF-4 dlya issledovaniya pogloshcheniya kristallov)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 5, pp 83-36 (USSR)

ABSTRACT: A description is given of an attachment to the SF-4 quartz photoelectric spectrophotometer which may be used to measure the absorption of polarised light in crystals in the temperature interval -170 to 500°C, as well as the absorption of crystalline powders on reflection. A photograph of the attachment is shown in Fig.1. A schematic drawing of the attachment is shown in Fig.2. It consists of a cylindrical box, 5, which contains a hole which lets in the beam of light from the instrument. The box contains a front coated aluminium mirror, 6, 70 mm in diameter. Below this mirror there is a plane mirror, 8, (7 x 15 mm²). This is kept in position by means of the clamp, 9, 10, and directs the beam of light onto the specimen which is placed in the ebonite cap, 11, whose diameter is 12 mm. This cap may be rotated in the horizontal plane by means of the handle 13. The same handle controls

SOV/120-58-5-21/32

An Attachment to the SF-4 for Studying Absorption in Crystals

turned into the light beam when necessary. By means of the handle 13 the specimen and the standard are in turn placed under the mirror, 8. The light which is scattered by the powder in 11 is intercepted by the spherical mirror, 6, which directs it onto the photocell immediately below (Fig.2). 200 mg of the material are required in each experiment. In order to measure absorption of polarised light in crystals the system is modified to include a polarising prism. Provision is made for carrying out experiments at high and low temperatures. There are 3 figures and 4 references, of which 3 are Soviet and 1 is English.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of Crystallography of the Academy of Sciences of the USSR)

SUBMITTED: October 9, 1957.

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34057

S/123/62/000/003/012/018 A004/A101

1.1800

AUTHOR:

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Bondarenko, K. S.

TITLE:

Increasing the resistance to wear of components by sulfidization

and sulfocyaniding of their surface layer

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 3, 1962, 46, abstract

3B239 ("Mashinostr. i energ. Kazakhstana. Nauchno-tekhn. sb." 1961,

no. 1(II), 16-19)

It was found by investigations carried out that, to increase the resistance to wear by sulfidization, it is necessary that under the sulfide TEXT: layer performing the role of a solid lubricant, should be a metal layer with a high N and C-content. This is attained by sulfocyaniding. A layer of sulfurcontaining compounds on the surface accelerates the running in of the friction couple, improves the oil adsorption and prevents galling and seizing. The solid sublayer of the carbonitride phases and nitrides ensures a durable preservation of a high resistance to wear of well run-in surfaces. At the Chimkentskiy zavod pressov-avtomatov (Chimkent Automatic Press Plant) sulfidization is carried out in a liquid medium and with a paste, while sulfocyaniding is effected in a

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34057

Increasing the resistance to wear of components ...

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bath of the composition: 75% K_4F (CN)6, 13% NaOH and 12% Na₂S₂O₃. Sulfocyanided nuts were tested on the ΦA 127 (FA127) friction press No. 662, sulfidized in the experimental shop according to a 100-hour cycle, in idle run, and for 1 hour with impacts on a rigid backing on the ΦA -122 (FA-122) friction press. The test results were satisfactory. Replacing 30 bronze nuts by sulfidized cast iron nuts resulted in savings for the plant of some 6,000 rubles. The manufacture of sulfocyanided nuts is by 10 - 20 rubles more expensive, but their resistance to wear is considerably higher.

N. Il'ina

[Abstracter's note: Complete translation]

Card 2/2

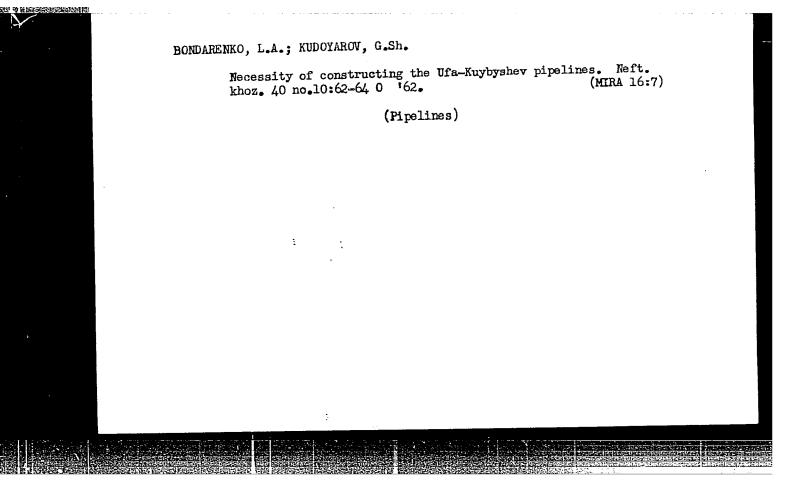
CHUKLIN, S., doktor tekhn.nauk; BOMDARENKO, L., inzh.

Aspects of heat transmission and utilization of the "Kaskad" apparatus. Mias. ind. SSSR 29 no.5:20-22 "58. (MIRA 11:10)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyehlennosti.

(Heat industry—Equipment and supplies)

(Refrigeration and refrigerating machinery)



BONDARENKO, L.A.; KUDOYAROV, G.Sh.

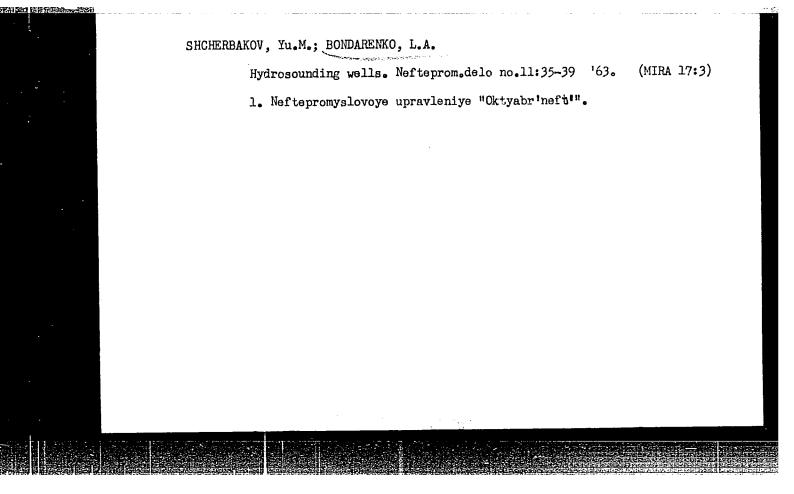
Centralized base for Ufa petreleum refineries. Transp. i khran.
nefti no.1:30-32 '63. (NIRA 16:9)

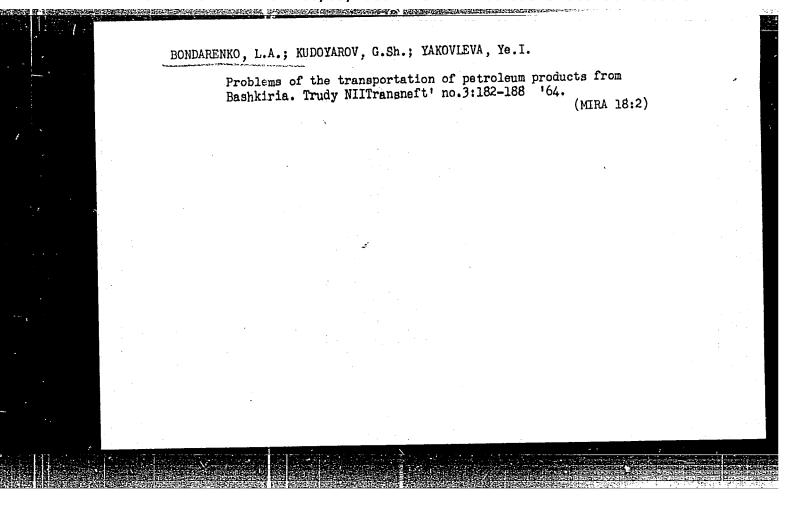
1. Nauchno-issledovatel'skiy institut po transportu i khraneniyu
nefti i nefteproduktov.

BONDARIENKO, L.A.; KUDOYAROV, G.Sh.

Methods for the determination of the level of mechanization in the transport and storage of petroleum and petroleum products. Transp. i khran. nefti pt. c no.2:34-37 163. (NERA 17:1

1. Nauchno-issledovatel'skiy institut po transportu i khraneniya nefti i nefteproduktov.





BESSALOV, V.S.; PANASOVSKIY, V.A.; KOROL', A.G.; TEREMENKO, L.A.; BONDARENKO,
L.F.; TIMOFEYEV, M.A.; SHIRYAYEV, D.T.

Outbrenk of tularemia on Biryuchiy Island. Zhur.mikrobiol.,epid.
i immun. 41 no.5154-57 My '64. (MIRA 18:2)

1. Khersonskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya
i Rostovski, protivochumnyy institut.

\$/128/60/000/002/002/002 A133/A133

AUTHORS:

Shkol'nikov, E. M., Bondarenko, L. G., Zakharov, V. A.,

Chichagova, N. P.

TITLE:

The practice of modifying cast iron with cerium alloys

PERIODICAL: Liteynoye proizvodstvo, no. 2, 1960, 36-37

Reporting on a work carried out by Giredmet, NAMI and the Gor'kovskiy avtozavod (Gor'kiy Automobile Plant) to study the effect of cerium as a modifier of cast iron, the authors point out that misch metal was the first cerium-type modifier used to obtain nodular cast iron. Since cerium is no more in such short supply and the production will be considerably increased under the present Seven-Year Plan, the cost of cerium modifiers will be cut and, according to the author, will amount to 20-25 rubles/kg. Laboratory tests were carried out to study the modification effect of misch metal, ferrocerium and ferrocerium alloys with up to 70% magnesium additions on cast iron whose composition was similar to that used at the Gor'kiy Automobile Plant for the fabrication of Card 1/4

The practice of ...

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crankshafts, viz. 3.2-3.5% C, 2-2.5% Si, 0.8% Mn, 0.1-0.2% P, 0.007-0.010% S (cast iron previously desulfurized by magnesium), 0.025-0.030% S (cast iron obtained from a heat of foundry blast-furnace pig iron and steel), 0.09-0.10% S (cupola iron). The laboratory tests proved that the modifying effects of misch metal and ferrocerium were practically equal, so that ferrocerium is given preference since it is cheaper. The authors emphasize that it is expedient to add a certain amount of Mg to the ferrocerium, and Giredmet has developed ferrocerium alloys with 70% Mg. If up to 5% Mg is added, there is no pyroeffect during the addition of foundry alloy; up to 15% Mg results in ar insignificant pyroeffect. If the Mg content is increased, all those difficulties will arise which are typical for the modification with pure Mg. The ferrocerium consumption is considerably reduced if 10-12% Mg are added; therefore, all the following laboratory tests were carried out with ferrocerium alloys containing 12-15% Mg - \$\frac{1}{2} \mathbf{M} \mathbf{C} \mathbf{T} \mathbf{S} \mathbf{M} \mathbf{T} \mathbf{S} \mathbf{M} \mathbf{T} \mathbf{S} \mathbf{M} \mathbf{M} \mathbf{T} \mathbf{S} \mathbf{M} \mathbf{M} \mathbf{M} \mathbf{M} \mathbf{M} \mathbf{M} \mathb

Card 2/4

The practice of ...

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is always higher than in magnesium cast iron. Of an initial S content of 0.2 and 0.4%, some 50% is eliminated. With an FTsM consumption of 0.95% the S content of cupola iron decreases from 0.10 to 0.06%. In contrast to the laboratory tests, the first experimental modification of crankshaft cast iron with ferrocerium of 15% Mg at the Gor'kiy Automobile Plant showed a perceptible pyroeffect and intensive bubbling of the cast iron in the ladle. To investigate this phenomenon a series of FTsM alloy melts with different Mg contents was produced, and it was found that, under industrial conditions, only cerium alloys with up to 7% Mg addition rendered satisfactory results. For subsequent tests some 200kg FTsM-6 with 6-7% Mg were produced, of which about 1,000 crankshafts for "Volga" and "Chayka" cars were cast. During the whole test period not a single crankshaft was rejected because of "black spots", and since 1957 the Plant has not received complaints because of defects of the magnesium and cerium cast iron crankshafts. The main technological features of the FTsM-6 cast iron modification are the following: The FTsM-6 and CM75 (Si75)

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The practice of ...

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modifiers are added to the cast iron successively; 0.3% FTsM-6 in lumps weighing 150-250 kg are put into the ladle when the cast iron is tapped from the electric furnace, and 0.4% Si75 are added to the cast iron in the pouring ladle. Soda is used as slagging additive, the addition of cryolite is not necessary. The S content of the cast iron prior to modification should not exceed 0.02%. The actual tapping temperature of the metal should be in the range of 1,420-1,450°C. The advantages of the FTsM-6 alloy over metallic magnesium as modifier are: absence of the pyroeffect, insensitiveness towards a temperature increase of cast iron prior to modification, a practically non-existing temperature drop of the metal during modification (20°C), the possibility of reducing the cast iron superheating temperature in the electric furnace prior to tapping by 120-150°C, which will increase the furnace productivity by 12-15%, and the insensitiveness towards demodifiers (Ti, Pb, Sn). A disadvantage of the FTsM-6 alloys is that it increases the tendency of cast iron to form cementite on the surface. There are 4 figures

Card 4/4

NAME OF THE PERSON OF THE PERS

S/137/61/000/011/087/123 A060/A101

AUTHORS: Ioffe, V. M., Burov, V. M., Shkol'nikov, E. M., Bondarenko, L. G.,

Zakharov, V. A., Chichagova, N. P.

TIPLE: Cerium modifiers for obtaining cast iron with spherical graphite

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 3, abstract 1119

(V sb. "Polucheniye izdeliy iz zhidk. met. s uskoren. kristalli-

zatsiyey". Moscow - Kiyev, Mashgiz, 1961, 147-149)

TEXT: The conditions were clarified under which it is possible to use for modifying a Ce alloy instead of Mg. In using the Ce alloy, it can be fed into the ladle directly while filling it with the crude iron. The necessity for the high-temperature heating up of the crude iron and of using an autoclave and cryolite drops out. It was established that Fe-Ce alloy with 5-8% Mg is suitable for use under steel-plant conditions. 25 experiments were carried out in modifying crude iron with Ce. An alloy of Zr (Φ IIM 6 [FTSM6]) was introduced into the ladle in the quantity of 0.27-0.28% of the weight of the crude iron. It was established that alloys of Fe-Ce with 5-8% Mg make it possible to modify the crude iron directly in the ladle without any protective devices, and the

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Cerium modifiers for obtaining ...

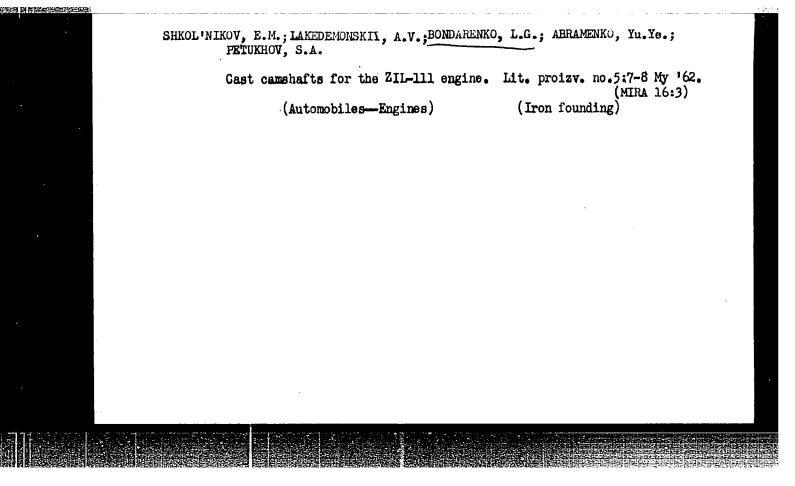
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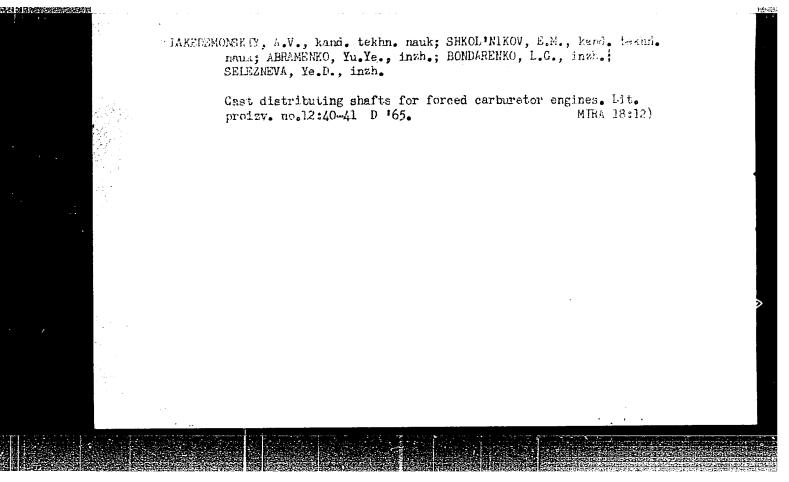
crude iron undergoing modification by a Ce alloy should not contain >0.03% S, so that the casting be pure and have no nonmetallic impurities - modification products. The microstructure and the characteristics of Mg- and Ce-crude irons are practically the same.

A. Savel'yeva

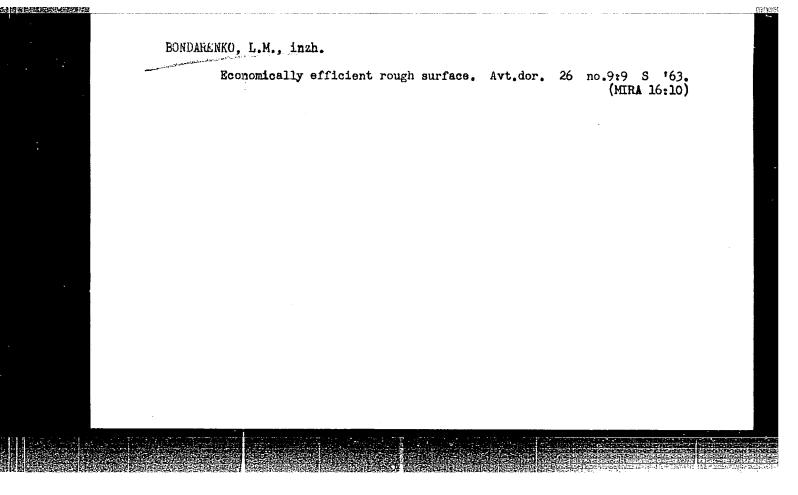
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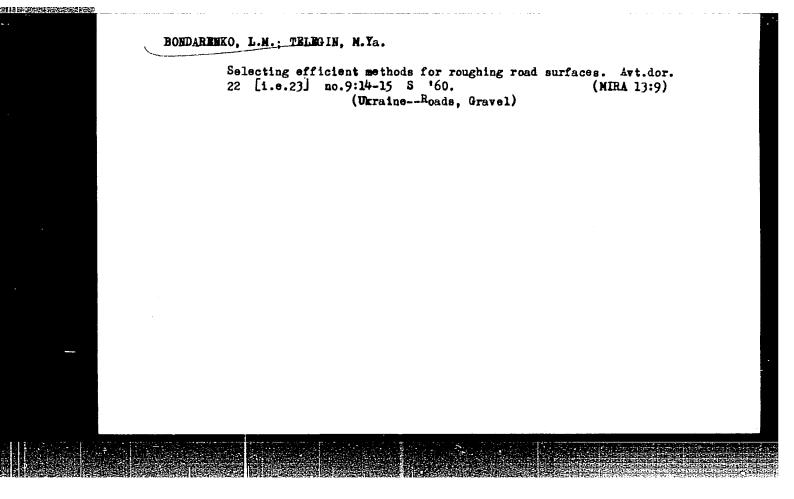
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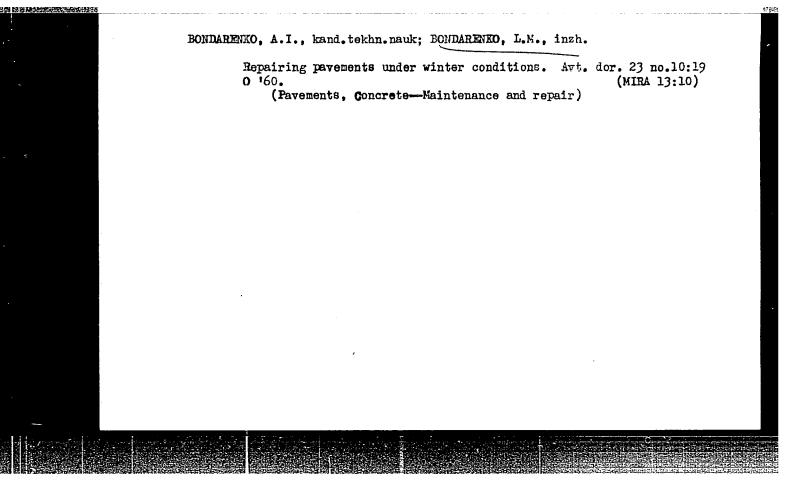




Echinococcal cysts of rare locations. Kh	irurgiia, no.11:75-76 (MIRA 9:6)
1. Iz onkologicheskogo otdeleniya Voroshi bol'nitsy. (HYDATIDS)	ilovgradskoy oblastnoy
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LIPSKIY, Yu.N.; BONDARENKO, L.N.; LEPIKHIN, R.S.; LYASHCHENKO, V.P.;
POSPERGELIS, M.M.; SUGROBOV, N.K.

New means of astronomic observations; study of celestial bodies
by means of television. Priroda 52 no.7196-99 Jl '63.

(MIRA 16:8)

1. Astronomicheskiy institut im. P.K.Shternberga, Moskva.

(Television in astronomy)

PHASE I BOOK EXPLOITATION SOV/5410

Tachkentckaya konferentelya po mirnomu impol'zovaniyu atomnoy conergii. Tachkent, 1959.

Toly (Tamacations of the Tachkent Conference on the Peaceful Seco of Atomic Energy) v. 2. Tachkent, 120-vo AN FESSA, 1960.

449 p. Errata slip inserted. 1,500 copies printed.

Spensoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayov, Condidate of Physics and Mathematics; D. H. Abdurgsulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Gandidate of Biological Sciences; V. N. Ivashey; G. S. Hyrmova; A. Ve. Kly; Yo. H. Lobenov, Candidate of Physics and Mathematics; A. Hiskolayov, Candidate of Hadical Sciences; D. Hishanov, C. A. Likolayov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Momber, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Riological Sciences. Ed.: R. I. Khemidov; Tech. Ed.: A. G. Babakhaneva.

PURICSE: The publication is intended for scientific workers and specialists employed in enterprises where radicative isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peareful Uses of Atomic Phorpy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including production and chemical analysis of radicative isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radicactive preparations; radicative methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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	instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.	•	
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BONDARENKO, RIV. s/169/61/000/011/027/065

D228/D304

Alekseyev, F.A., Yerozolimskiy, B.G., Bespalov, D.F., AUTHORS:

Bondarenko, L.N., Boytsik, L.P., Popov, N.V., Khaustov, A.I., Romanovskiy, V.F., Shimelevich, Yu.S. Shkol'nikov, A.S., and Yudin, L.I.

The result of applying neutron impulse methods and

apparatus for investigating borehole logs TITLE:

Referativnyy zhurnal, Geofizika, no. 11, 1961, 34, PERIODICAL:

abstract 11A304 (V sb. Yadern. geofiz. pri poiskakh polezn. iskopayemykh, M., Gostoptekhizdat, 1960, 3-20)

TEXT: A borehole impulse generator of neutrons is described together with the method of impulse-neutron neutron-logging (INNL). A description is given for the electronic layout of the borehole generator of neutrons and the surface appratus for impulse neutron nerator of neutrons and the surface appratus for impulse neutron logging. During laboratory tests of the generator a stable mean neulogging. During laboratory tests of the generator a stable mean neuloging yield of ~2 x 107 neutr./sec. was obtained at 100 kv. of accepton yield of ~2 x 107 neutr./sec. was obtained at 100 kv. lerating voltage in the tube. The impulse duration amounted to 100

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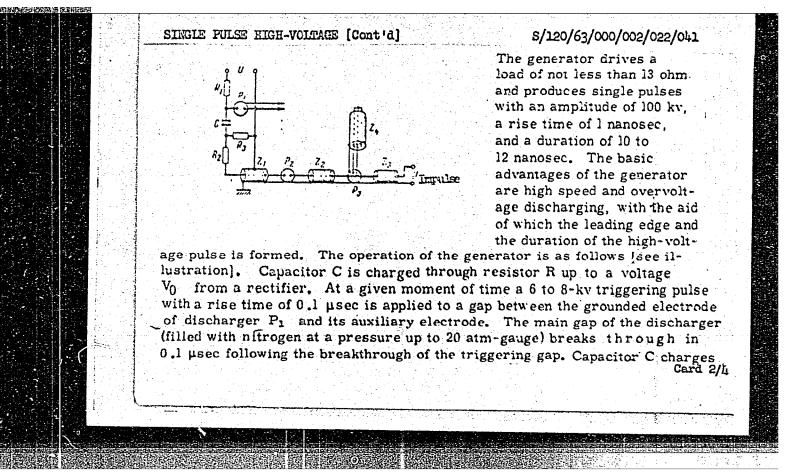
The result of applying neutron ...

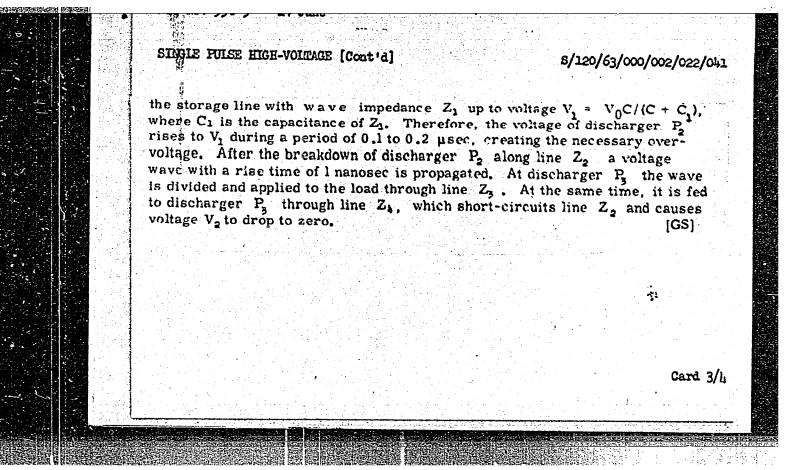
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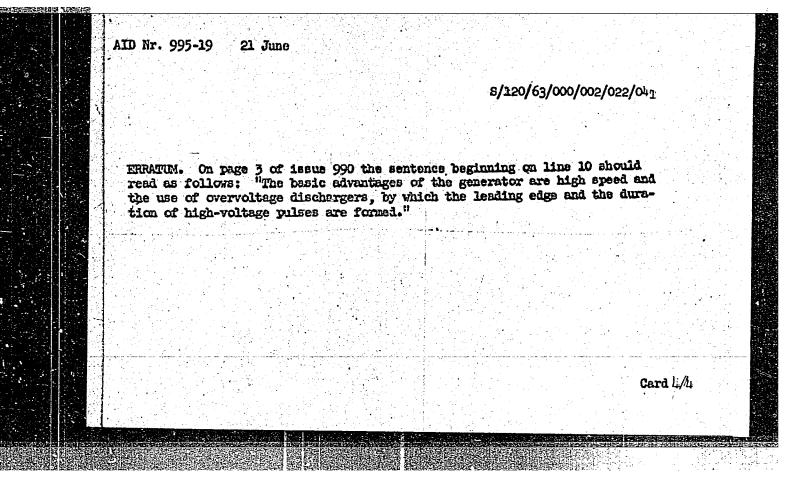
µsec, the transmission frequency being 400 c/s. The neutron generator was used in the commercial testing of INNL. INNL readings against oil-bearing beds exceed by 10 times those for aquiferous beds containing mineralized water, at a delay time of 1000 μsec. Certain impediments and limitations of thermal impulse neutron-logging in different oil- and water-saturated beds are indicated, and the requirements for the apparatus are stated. Further prospects are indicated for the application of impulse neutron generators. [Abstractor's note: Complete translation].

Card 2/2

DUNDAN-LINY 3 - 5 - W.
ATD Nr. 990-5 14 June
SINGLE PULSE HIGH-VOLTAGE NANOSECOND GENERATOR (USSR)
Yerozolimskiy, B. G., <u>L. N. Bondarenko</u> , V. P. Prikhod'ko, Yu. A. Mostovoy, A. K. Shevchanko, and Yu. G. Matveyev. Pribory i tekhnika eksperimenta, no. 2, Mar-Apr 1963, 93-97. S/120/63/000/002/022/041
A generator has been developed by the Institute of Nuclear Physics in Novosibirsk for the control of a 100 Mev electron beam in a synchrotron with a diameter of 1 mm.
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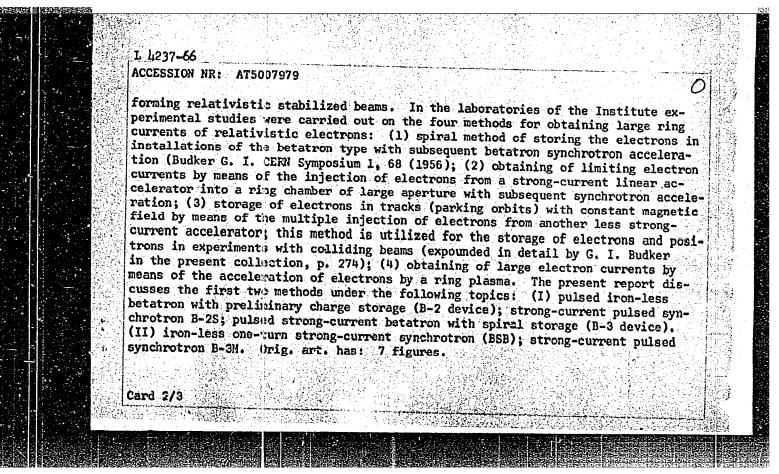




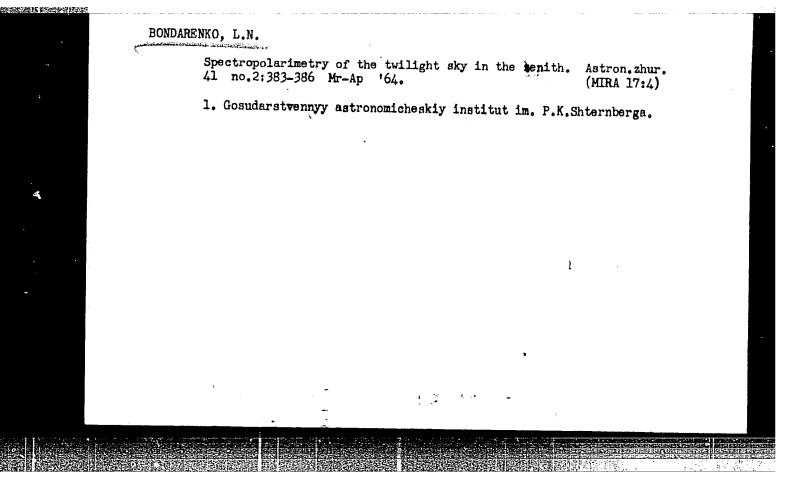


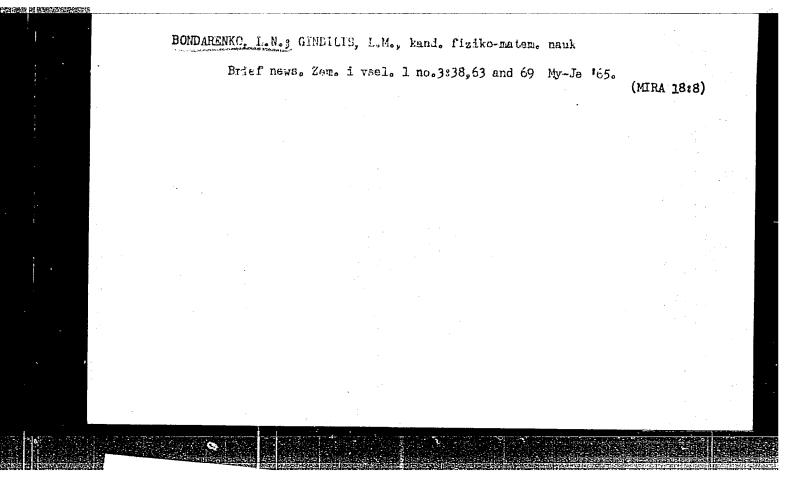
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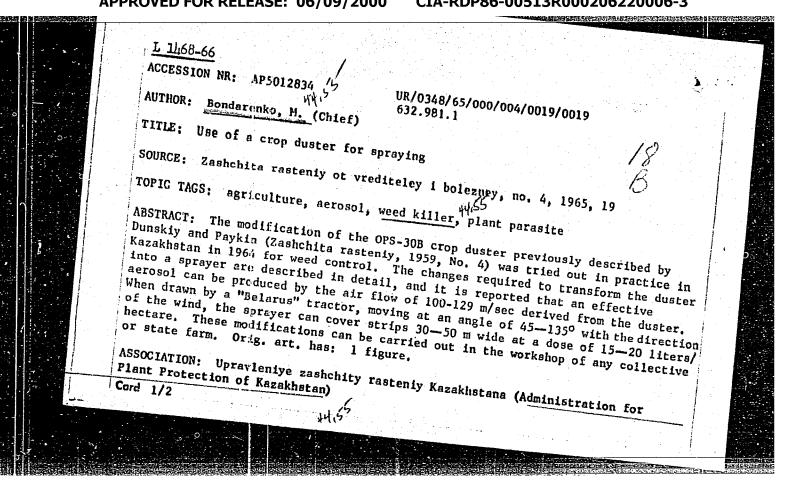
EWT(m)/EPA(w)-2/EWA(m)-2 IJP(c) OS S/0000/64/000/000/1065/1072 ACCESSION NR: AT5007979 AUTHOR: Abramyan, Ye. A.; Bender, I. Ye.; Bondarenko, L. N.; Budker, G. I.; Glagolev, G. B.; Kadynov, A. Kh.; Neshkov, I. N.; Naumov, A. A.; Pal'chikov, V. Ye.; Panasyuk, V. S.; Popov, S. G.; Protopopov, I. Ya.; Rodionov, Yu. I.; Samoylov, I. H.: Skrinskiy, A. N.; Yudin, L. I.; Kon'kov, N. G.; Mostoyoy, Yu. A. Nezhevenko, O. A.; Ostreyko, G. N.; Petrov, V. V.; Sokolov, A. A.; Timoshin, I. Ya. TITLE: Work on the strong-current accelerators of the Nuclear Physics Institute, SO AN SSSR. (I) Strong-current pulse accelerators with spiral storage of the electrons. (II) Strong-current accelerators with one-revolution capture of the injected electrons SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 1065-1072 TOPIC TAGS: high energy accelerator, electron accelerator, electron beam, betatron plasma ABSTRACT: The work on developing strong-current electron ring accelerators was begun in 1965 by the authors at the Nuclear Physics Institute, Siberian Department, Academy of Sciences SSSR, with the object of studying the possibility of Card 1/3



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	ACCESSION NR: AT5007921 S/0000/64/000/000/0274/0287
	AUTHOR: Bayyer, V. N.; Blinov, G. A.; Bondarenko, I. W., Vangari, V. B.
	ENVIOLOD ANTROY OF UNILDUDATE ASSESSED INSTRUMENT AND THE PROPERTY OF THE PROP
	V. S.; Popev. 3. G.; Sidorov, V. A.; Sil'yestrov, G. I.; Skrinskiy, A. N.; Khabakhpashev, A. G.; Auslender, V. L.; Kiselev, A. V.; Kushnirenko, Ye. A.;
	Vasserman, S. J.; Vecheslavov, V. V.; Dimov, G. I.; Papadichev, V. A.; Protopopov, I. Ya.; Budker, G. I.
	TITLE: Colliding electron-electron, positron-electron, and proton-proton beams
	SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 274-287
	TOPIC TAGS: high energy interaction, high energy plasma, particle physics, particle beam, charged particle beam
•	ABSTRACT: In the Institute of Nuclear Physics, Siberian Department, Academy of Sciences SSSR, programs on high-energy particle physics are mainly concerned with work on colliding charged particle beams. The Institute considers it unsuitable
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for its purpose to install huge accelerators whose construction requires large resources outlaid and long time. For work on colliding electron-electron, positron-electron, and proton-proton beams, three installations are being built, which are in various stages of readiness. Work on colliding electron beams was conducted at the institute (then a laboratory of the Institute of Atomic Energy is eni I. V. Kurchatov) in the Fall of 1956, after Kerst's report on accelerators with colliding proton beams of the FFAG type. By that time Soviet scientists Had already acquired some experience in obtaining large electron currents; in particular, the mentioned laboratory had installed and then abandoned a device for the spiral storage of electrons (G. I. Budker and A. A. Naumov, CERN Symposium, 1, 76 (1956)), by which, subsequently, circulating currents of the order of 100 amperes were obtained. In 1957 two variants of this device were considered at the same time. The first one consisted of two accelerators with spiral storage and subsequent transition of the particles to synchrotron state in comparatively narrow paths. The second one had storage rings with constant magnetic field and frequent external injection because of the damping of the oscillations under the action of radiation. The first variant was more cumbersome; the second variant contained an element not developed at that time, namely a 100-kilovolt commutator of 10 kilo-amperes with nanosecond front. At the end of 1957, the first positive results were obtained

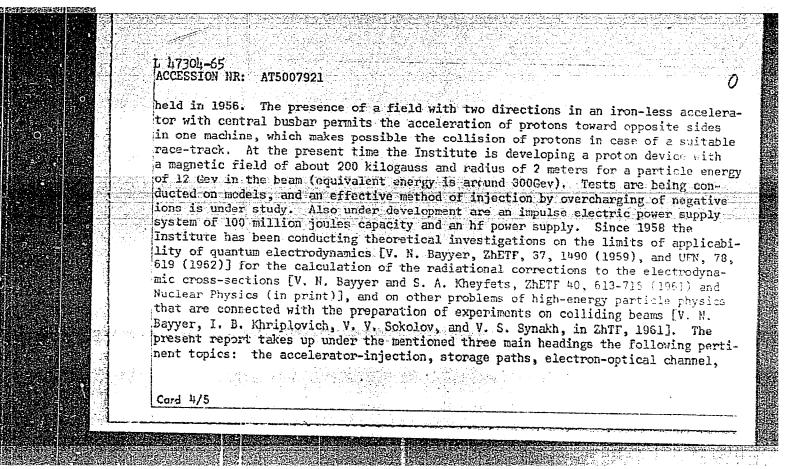
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with a packing discharger of 100 kilovolts, and work stopped on the variant with storage rings. Originally it was proposed to set up two devices: VEP-1 of 2 x 130 Mev energy, and VEP-2 of 2 x 500 Mev energy. The VEP-1 was considered as an actual model of an accelerator and as a device for conducting initial experiments at low energies. After the Panofsky report in 1958 on his work with colliding electron beams conducted in his laboratory at Stanford, construction ceased on 500-Mev storage paths and work was continued on the 2 × 130-Nev installation. Instead of work on colliding electron beams with energies of 500 Mev, work at the end of 1958 was conducted with colliding positron-electron beams and the planning of the VEPP-2 device was begun, whose main elements are a strong-current electron accelerator and a high-vacuum storage path of 700 Hev energy. At the present time the VEP-1 and VEPP-2 are installed in Novosibirsk. The VEP-1 is in a state of neglect, but at the end of 1964 experiments will be begun with it. Installation of the VEPP-2 has been completed. To obtain a marked effect from the application of colliding proton beams, an accelerator is needed with an energy of at least 10 Gev. Since the ordinary accelerator at such energies is a very bulky machine, it was decided to combine the idea of colliding proton beams with the creation of an iron-less impulse accelerator with very large fields and a neutralized central busbar. This latter work of creating such a machine was reported by the authors at a Moscow conference

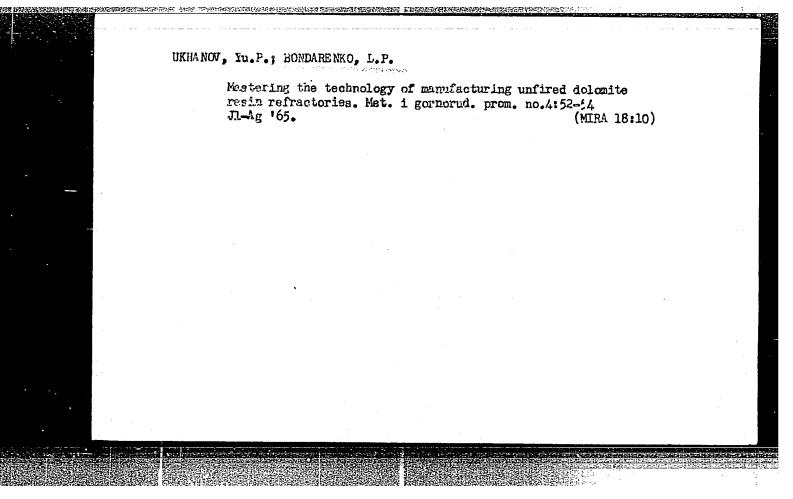
Card 3/5



ACCESSION NR: AT5007921 input and output system, experiments on storage, proposed work, experimental setup, physical layout of magnets, power supply, etc. Orig. art. has: 8 figures. ASSOCIATION: Institut yadernoy fiziki SO AN SSSR (Institute of Nuclear Physics,
SO AN SSSR)
SUBMITTED: 26May 64 ENCL: CO SUB CODE: EE, NP
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L 45454-65 E/T(1) IJP(0) ACCESSION NR: AP5007053 S/0120/65/000/001/0178/0181 /4	
AUTHOR: Abramyan, Ye. A.; Bondarenko, L. N.; Volosov, V. I.; Naumoy, A. A.; Chirikov, B. V.	
TITLE: Magnetic shields passing an eddy electric field	
SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1965, 178-181	
TOPIC TAGS: magnetic skield	
ABSTRACT: Construction and design methods of shields capable of segregating magnetic and electric fields are described. Such a shield consists of one or	ija.
more open turns of a metal sheet or strip around the magnetic flux being shielded. An eddy electric field passes easily through such a shield while a high air-gap	
reluctance stands in the way of the magnetic flux. One of the designs (the	
reluctance stands in the way of the magnetic flux. One of the designs (the "labyrinth") was intended for a betatron accelerator and had a shielding factor of 300 at 5 kc. As an exact calculation of emic-field distribution in a labyrinth is	
"labyrinth") was intended for a betatron accelerator and had a shielding factor of	

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y. P. J. edunin	lior developing	the methods an ulas, and I table	d building the	eiul discussion labyrinths."	orig.
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THE PURCHUALU, INT. 15-57-5-6113 Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5, pp 58-59 (USSR) AUTHOR: Bondarenko, L. P. TITLE: The Geological Position and Structure of the Puri Intrusive (Eastern Trans-Baikal Region) / Geologicheskoye polozheniye i stroyeniye Purinskogo intruziva (Vostochnoye Zabaykal'ye)_7 Tr. In-ta geol. rud. mestorozhd. petrogr. minera-PERIODICAL: logii i geokhimii, 1956, Nr 3, pp 302-339 The Puri intrusive represents a small part of the ABSTRACT: complex Kutomara batholith, which is situated on the divide between the Gazimur and Borzya Rivers. The batholith consists of a complex multiphase intrusive occurring in the axial part of a northeasterly trending anticlinorium. Structurally, the batholith involves pre-Jurassic granites and Card 1/5

The Geological Position and Structure of the Puri (Cont.)

granite gneisses, Jurassic granites of stage I (Alenuy complex) and Jurassic granites of stage II Tsagan-Oluyevskiy Borshchevochnyy kompleks (complex). The Puri intrusive is composed of biotite-hornblende, coarse- and medium-grained granites (Alenuy complex) and their mylonitized and gneissose varieties. In the endogene contact aureole of the intrusive mass, hybrid rocks are extensively developed (syenodiorite, quartz syenodiorite, diorite, and quartz diorite), having formed by assimilation of silicate-carbonate Paleozoic sedimentary rocks and grading into the biotite-horn-blende granites. In addition, metamory used sedimentary rocks occur in the Puri intrusive. They are preserved as xenoliths in the hybrid rocks and the biotite-hornblende granites. Injection gneisses and dike rocks of the Alenuy complex (Lamprophyres, granodiorite veins, etc.) are also present. Metallogenic rocks in the Alenuy complex are very rare and, in the Puri intrusive, consist of noneconomic skarns with scheelite and cassiterite. Poor molybdenite minerallization, marked in quartz-tourmaline Card 24.6

The Geological Position and Structure of the Furi (Cont.)

veins and skarns, is apparently associated genetically with the younger leucocratic granites of the Tsagan-Olayev Borshchevochnyy complex, which cuts and metamorphoses the granites of the Alenuy complex. The Puri intrusive transects and metamorphoses sandstones and conglomerates of the Aketuy and Bazanovo series and is overlain unconformably by the Bokhto series. The post-Aiddle Jurassic age of the intrusive is confirmed also by the determination of absolute age of these granitoidal rocks (120 million years) by the argon method. The chemical composition of the rocks of the Kutomarskiy batholith are given in the table (in percent).

Card 3/5

15-57-5-6113 The Geological Position and Structure of the Furi (Cont.)

Components	1	2	3	4	5	6	7
\$i0 ₂	71.44	66.29	70.77	68.37	64.58	59.96	68.92
T102	0.19	0.52	0.32	0.31	0.69	0.58	0.23 .
Al ₂ O ₃	13.89	16.23	14.99	14.64	16.44	18.17	17.69
Fe ₂ 0 ₃	1.24	1.74	1.12	0.8	1.14	1.13	0.65
FeO	1.45	1.86	0.75	1.71	1.60	2.62	0.58
MnO ·	0.05	0.03	0.01	0.05	0.04	0.07	0.14
MgO	0.62	1.74	0.85	1.73	2.51	3.64	0.32
CaO	0.92	2.6	2.25	2.6	3.96	4.66	1.88
Na ₂ O	3.61	2.79	3.66	4.85	3.85	4.34	4.91
K ₂ 0,	5.52	4.57	4.79	4.55	4.59	3.70	3.99

Card 4/5