POZAR, Hrvoje, prof. dr. inz.; BUTARA, Slavko, inz. (Kraljevec)

Productivity of the Hydroelectric-Power Plant Kraljevac and its role in the development of electrification of Dalmatia. Energija Hrv 11 no.1/2:19-25 '62.

1. Elektrotehnicki fakultet i suradnik Instituta ze elektroprivredu, Zagreb, Proleterskih brigada 37 (for Pozar). 2. Hidroelektrana Kraljevac (for Butara).

PLETNEY, B.D.; BUTAREYA, T.A.

Modified postepilatory treatment in fungus diseases. Vest. ven. i derm. 30 no.4:53 Jl-Ag '56. (MLRA 9:10)

1. Iz Chebaksarskogo respublikanskogo kozhno-venerologicheskogo dispansera.

(SCALP--DISEASES) (HAIR, REMOVAL OF)

BUTAREWICZ, Localia (NEWISKI, Januaz

matrices of female industrial workers in Lodz in 1961. Zdrow. publication no.6:195-203 Je 165.

1. Z Zakladu Organizacji Ochrony Zdrowia Akademii Medycznej w Lodzi (Kierownik: dr. med. J. Indulski).

BUTARIN, N. S.

37436. Kratkiye itogi raboty po sozdaniyu novoy porody ovets drkharomerinos. Izvestiya Akad. Nauk. Kazakh. SSR, No. 71, seriya biol., vyp. 5, 1949, s. 10-57.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

BUTARIN, N. S.

37437. BUTARIN, N. S., ES'KOV, P. A. i DZHTMBEYZV, L. TS. Sravnitel'naya produktivnost' ovets apkharomerinos i drugikh tonkorunnykh porod. Izvestiya Akad. Hauk. Kazakh. SSR, No. 71, seriya biol., vyp. 5, 1949, S. 58-64--Bibliogr: 8 nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

BUTARIN, N.S., kandidat biologicheskikh nauk.

Significance of remote interspecific hybridization of animals in Kazakhstan. Vest. AN Kazakh. SSR 10 no.6:55-60 Je '53. (MIRA 6:8) (Kazakhstan-Hybridization) (Hybridization-Kazakhstan)

USSR/Agriculture - Stock reising

Card 1/1

* Pub. 123 - 7/13

Authors

Butarin, N. S.; Yes'kov; Miletskiy, D. M.; and Bagrovskaya, N. N.

Title

Experiments in fattening medium-type hybrids from wild boars and domestic sows on a non-concentrated type of feed

Periodical

* Vest. AN Kaz. SSR, 11/2, 61-66, Feb 1954

Abstract

The belief in the use of concentrated feed in fattening hogs is held to be erroneous and extensive data are collected from experimentation with different kinds of hybrids and different kinds of feed. An analysis of these data shows that even more pork is produced with the less concentrated feed at a great saving of outlay. Ten Russian references (1943-1951). Tables.

Institution:

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Submitted

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BUTARIN, H. S.

Authors

USSR/ Agriculture - Stock breeding

Card 1/1 : Pub. 123 - 12/17

Butarin, N. S.; Yes'kov, P. A.; Miletskiy, D. M.; and Bagrovskaya, N.

N .

Title : Increasing the productivity of sows of large white-stock by means of

double mating with different boars.

Periodical : Vest. AN Kaz. SSR 11/1, 105-109, Jan 1954

Abstract : An account is given of controlled experimentation with the crossing of sows with a single boar and with several boars, with comparative

figures of the number of offspring and individual weights at various

periods. Eleven Russian references (1940-1953). Table.

Institution : ...

Submitted : ...

BUTARIN, N.S.; YES'KOV, P.A.: MILETSKIY, D.M.; LI, V.A.

Some results of experiments in feeding modified lard-making rations to hybrid swine. Vest. AN Kagakh. SSR 13 no.3:95=99 Mr 157.

(Swine-Feeding and feeding atuffs) (MIRA 10:6)

BUTARIN, N. S., LOGINOVA, N. V., LOPYRIN, A. I., GIGINEYSHVILI, N. S., RANKHIMOV, A. A.

"An attempt making creative use of the Mitshurin method of remote hybridization for the purpose of the selection of agricultural animals."

reported at Conference on Problem of Heredity and Variability, held at Institute of Genetics, AS USSR, 8-14 Oct 1957 Vestnik AN SSSR, 1958, Vol. 28, No. 1, pp. 127-129 (author Kushmer, Kh. F.)

BUTARIN, Nikolay Savvich [deceased]; ISENZHULOV, A.I., kand. biol. nauk, otv. red.; ALEKSANDRIYSKIY, V.V., red.; SHEVCHUK, T.I., red.

[Remote hybridization in animal husbandry; argali Merino sheep and hybrid swine] Otdalennaia gibridizatsiia v zhivotnovodstve; arkharomerinos i ginridnaia svin'ia. Alma-Ata, Nauka, 1964. 209 p. (MIRA 18:3)

BUTARIN, N.S. [deceased] BOL'SHAKOVA, Ye.V.

Change in the wool cover of crossbreds in developing the argali Merino sheep variety of Kazakhstan. Izv. AN Kazakh. SSR. Ser. biol. nauk no.2:60-65 '63. (MIRA 17:10)

BUTAROV, I. N.

25921

K. P. D. statsionarnov chasti pri utilizatsii tepla, vykhlopnogo para pakovozon, izvestiay Tomskago. politekh. in-ta Kirova. T. LXVI, vyp. 2, 1948. s. 51-56.

SO: Letopis' No. 34

BUTAYEV, B. M.

"Pharmacological Investigation of 'Paramion,' a New Synthetic Preparation With an Action Similar to That of Gurare." Cand Med Sci, Inst of Experimental Medicine, Acad Med Sci USSR, Leningrad, 1953. (RZhBiol, No 2, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

BUTAYEV, B. M.

USSR/Pharmacology. Pharmacognosy. Toxicology - Analgesics.

T-3

Abs Jour

: Referat Zhur - Biologiya, No 16, 1957, 71675

Author

: Butayev, B.M.

Inst

Title

: The Effect of Paramion on Decerebrate Rigidity and Morphi-

ne Spasms of the Tail.

Orig Pub

: Byul. Eksperim. Biol. i Meditsiny, 1956, 42, No 8, 55-57

Abstract

: Tests were done on 19 cats. The animals were decerebrated above the vestibular nucleus, than tied to the table in a way that the fore-extremities remained free; they stretched upwards due to arising rigidity. Intravenous administration of paramione (I), in 30-250 $\%/\mbox{kg}$ doses (not affecting the breathing) produced relaxation of rigidity, the forelimbs bent in the joints and fell towards the body. In 1-32 hours the rigidity was gradually reestablished. In mouse tests the abdominal introduction of I in 0.1-0.2 f/kg abolished the morphine induced tail

Card 1/2

- 23 -

USSR/Pharmacology. Pharmacognosy. Toxicology - Analgesics.

T-3

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 71675

spasm (in 21 out of 24 mice). An analogous effect is observed in pyrolaxone administration (in doses 20 times the I doses).

Iz laboratorii obshchey farmakologii (zav.-chlen-korrespondent AMS SSBR prof. V. M. Karasik) otedela farmakologii Instituta eksperimental'noy meditsiny (dir.-chlen-korrespondent AMN SSSR prof. D. A. Biryukov) AMN SSSR, Leningrad. Predstavlena chelenom AMN SSSR V. N. Chernigovskim.

Card 2/2

- 24 -

COUNTRY

: USSR

CATEGORY

: Pharmacology and Toxciology. Cholinergics

ABS. JOUR. : RZhBiol., No. 1 1959, No. 4502

AUTHOR

: Butayev, B. M.

INST.

TITLE

: On the Antagonism Between Proserine /Neostig-

mine and Paramion /meso-3,4-dipheny Thexane-bis-trimethyl-ammonium Todide

ORIG. PUB. : Farmakol. 1 toksikologiya, 1957, 20, No 6, 60-61

ABSTRACT

: Subcutaneous introduction of proserine (I) into frogs in a dose of 2 mcg/g prevents the depression of the dorsal reversion reflex caused by paramion (II) administered in a dose of mcg/g, or accelerates its restoration by ten times. Under the influence of the previous subcutaneous injection of I (0.05 mcg/g), poisoning by II develops more slowly in mice, and the number of

CARD:

1/2

18

Locion NR: APSONS775

ALTHER: Butayev, B. M.

TITLE: Cholinomimetic effects of certain Soviet drags with Interest and South South Byulleten' eksperimental ney biologic imeditary, v. Tofic TAB: animal: Typiology, drag treatment, drug

Abstract: Tests with paramion and pyrolsxon — curare-like computed demonstrated that these compounds can cause contraction of an tofic meacle of a frog stomach. Orig. art. has 2 figures are

ASSOCIATION: Kafedra farmaky logic, Leningradskiy podiatrioneskiy meditainskiy institut (Department of Pharmacology, Beningrad Institute of Pediatrio Medicine)

SUBMITTED: OLFeb63

ENCL: 00

SUB CODE: IS

NO REF SOV: 003

OTHER: OOL

JFRS.

Card 1/1

BUTAYEV, D. A.

"Investigation of the Straight-Axial Intake Fipes of Water Turbines," Thesis for degree of Cand Technical Sci. Sub 9 Oct 50, Moscow Order of Labor Red Banner Higher Technical School imeni N. E. Bauman.

Dissertations Fresented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

BUTAYEV, Davlet Aslanbekovich; KAIMYKOVA, Zinaida Alekseyevna, PODVIDZ, Iev Grigor'yevich; POPOV, Kirill Nikolayevich; ROZHDESTVENSKIY, Sergey Nikolayevich; YAN'SHIN, Boris Ivanovich; KUKOLEVSKIY, I.I., professor, redaktor; NEKRASOV, B.B., redaktor; FRIDKIN, A.M., tekhnicheskiy redaktor

[Book of problems in hydraulics for mechanical engineering schools]
Zadachnik po gidravlike dlia mashinostroitel'nykh vuzov. Pod red.
I.I.Kukolevskogo. Moskva, Gos. energ. izd-vo, 1956. 343 p. (MIRA 10:1)
(Hydraulics-Problems, exercises, etc.)

SOV/124-58-7-7653

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 45 (USSR)

AUTHORS: Podvidz, L.G., Butayev, D.A.

TITLE: The Effect of the Shape of a Curved Draft Tube on its (Hydraulic)

Efficiency (Vliyaniye formy izognutoy otsasyvayushchey truby

na yeye koeffitsiyent poleznogo deystviya)

PERIODICAL: V sb.: Gidromashinostroyeniye (MVTU, Vol 71). Moscow,

Mashgiz, 1957, pp 25-36

ABSTRACT: Set forth briefly are the results of an investigation of curved

draft tubes of axial-flow variable-pitch-blade water turbines conducted for the purpose of improving their efficiency characteristics without the necessity of changing the height of the draft tube. The investigation, in various modified forms, was made with a model of the hydraulically effective section of the turbine on an air-turbine stand. To evaluate the characteristics of the draft tubes, their efficiency was determined by measuring the flow through them with spherical pressure-measuring heads placed in their inlet sections. Two experimental units were constructed: one to investigate the draft tubes in an untwisted

Card 1/2 axial flow, the other to study them under the real flow

SOV/124-58-7-7653

The Effect of the Shape of a Curved Draft Tube (cont.)

conditions existing behind a turbine rotor. Of all the various types of draft tube examined, most efficient was found to be one with an elongated horizontal diffuser and an enlarged outlet area.

R.P. Vorontsov

- 1. Axial flow tubines--Efficiency 2. Axial flow turbines--Test results
- 3. Pipes--Applications

Card 2/2

BUTAYEV, Devlet Aslanbekovich; KALMYKOVA, Zinsida Alekseyevna; PODVIDZ,
Lev Grigor'yevich, dotsent; POPOV, Kirill Nikolayevich;
ROZHDESTVENSKIY, Sergey Nikolayevich; YAN'SHIN, Boris Ivanovich;
KUKOLEVSKIY, I.I., prof., red. [deceased]; VORONIN, K.P., tekhn.
red.

[Problems in hydraulics for mechanical-engineering institutes]
Zadachnik po gidravlike dlia mashinostroitel'nykh vuzov. Pod red.
I.I.Kukolevskogo i L.G.Podvidza. Izd.2., perer. i dop. Moskva,
Gos.energ.izd-vo, 1960. 440 p. (MIRA 13:11)
(Hydraulics--Problems, exercises, etc.)

BUTAYEV, D.A., kand.tekhn.nauk; OBOLENTSEV, Yu.P., inzh.

New power for testing hydraulic turbines at the hydraulic laboratory of the Moscow Technical College. [Trudy] MVTU no.100:148-154 '60. (MIRA 14:4)

(Moscow-Engineering laboratories)

KRUTOV, Vitaliy Ivanovich; KALISH, G.G., doktor tekhn. nauk, prof., retsenzent; BUTAYEV, D.A., kand. tekhn. nauk, red.; YELISEYEV, M.S., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

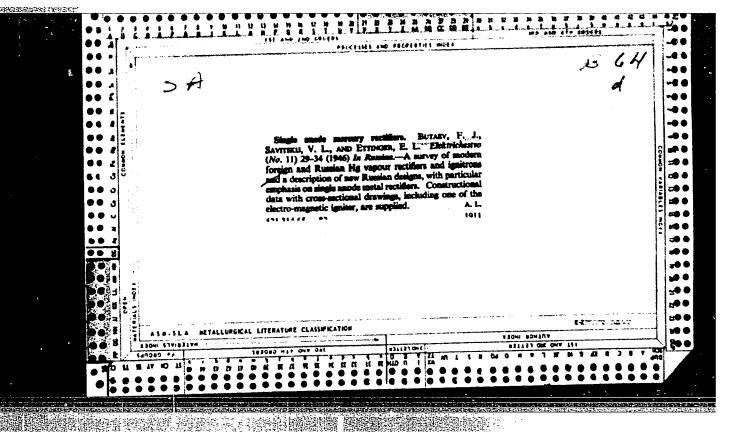
[Analysis of the operation of automatic control systems] Analiz raboty sistem avtomaticheskogo regulirovaniia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 178 p. (MIRA 14:10)

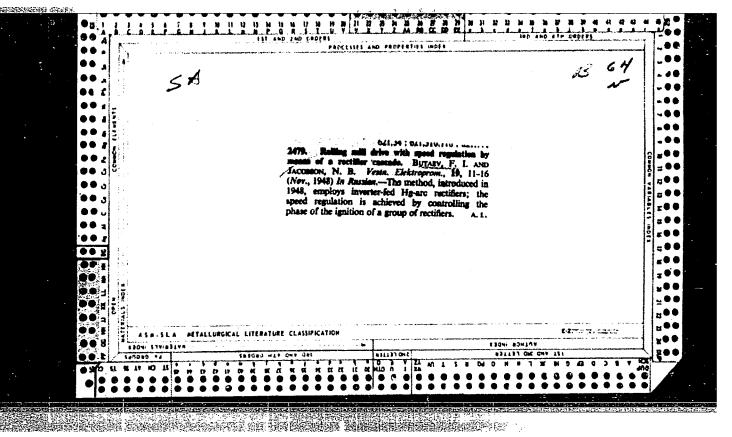
(Automatic control)

BAYBAKOV, O.V.; BUTAYEV, D.A.; KALMYKOVA, Z.A.; PODVIDZ, L.G.; MAR'YANSKIY, L.P., red.; BORUNOV, N.I., tekhm. red.

[Laboratory course in hydraulics and pumping machinery] Laboratornyi kurs gidravliki i nasosov. [By] 0.V.Baibakov i dr. Moskva, Gos. energ. izd-vo, 1961. 248 p. (MIRA 15:2) (Hydraulics) (Pumping machinery)







FUTAYEV, F. I.		USSR/Elect (pit head AM inducti factorily.	We 1, 1945 We 11, 1945 control pury encountered rectifiers 1	"Grid Control Rectifier," F. Rectifier," F. Union Elec Eng "Yest Elektro-	user/el
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2/50 <u>17</u> 1		Aug 49 col (Contd) and rolling mill with are working satis- grams.	to fit a grid fir [culties Subject two projects 2/5017]1	l Tech Sti, All- Lenin, 1 3/4 pp produced RMNV-200	230 1

BUTAYEV, F. I.

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USSR/Engineering - Rectifier, Mercury-Arc

Sep 49

"The Influence of Ionic Currents on the Stability of Excitation Arcs of a Mercury-Arc Rectifier," I. Butayev, Cand Tech Sci, All-Union Elec Eng Inst imeni Lenin, 2 pp
"Elektrichestvo" No 9
One reason for extinction of excitation arcs of

mercury-arc rectifiers is ionic current flowing during nonconducting period from plasma of main arc to excitation anode. Studies were made of dependency of ionic current on various factors. Points out that shielding excitation anodes

Sep 49

USSR/Engineering - Rectifier, Mercury-Arc (Contd)

cylinder, and diagrams.

current. Includes illustration of rectifier

(with AC excitation) results in decreased ionic

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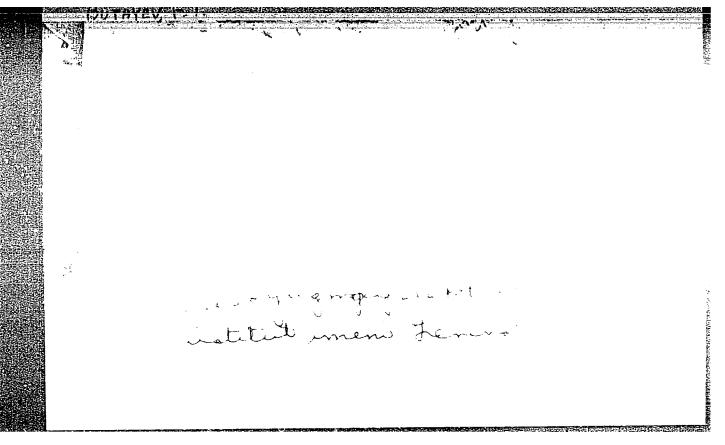
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APPROVED FOR RELEASE: 06/09/2000

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- 1. BUTAYEV, F. I.
- 2. USSR (600)
- 4. Technology
- 7. Valve electric drive. Moskva, Gosenergoizdat, 1951.

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



But h yev. F.I.
YUDITSKIY, S.B., kandidat tekhnicheskikh nauk.; BUTAYEV, F.I., kandidat tekhnicheskikh nauk.

> Single-anode pumpless mercury-arc rectifiers with uninsulated cathodes. Vest. elektroprom. 28 no.1:38-42 Ja '57. (MIRA 10:4)

1. Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina. (Mercury-arc rectifiers)

BUTAVEV F.I.

110-9-3/23

AUTHOR: Butayev, F.I., Klimov, N.S., Sakovich, A.A. and Stepanov, N.P., Candidates of Technical Sciences.

TITIE: High-voltage Rectifiers/Inverters for Direct Current Power Transmission. (Vysokovol'tnyye preobrazovateli dlya pere-

dachi energii postoyannym tokom)

PERIODICAL: Vestnik Elektropromyshlennösti, 1957; Vol. 28, No.9, pp. 8 - 14 (USSR)

ABSTRACT: Brief reviews of the main stages of development of highpower, high-voltage mercury valves at the All-Union Thermotechnical Institute. The first stage concerns the KashiraMoscow experimental transmission line. The second stage includes
high-voltage valves of intermediate power and the production of
single experimental installations. The third stage concerns
high-power, high-voltage valves suitable for practical highvoltage d.c. transmission systems. High-voltage rectifiers
have been under development at the All-Union Thermo-technical
Institute since 1935. A number of the principles then evolved,
including single-anode construction, a sectionalised anode system,
and oil-cooling, are still used. German experience with d.c.
transmission was notable for the fruitful work, directed by
G. Dobke, on the development of mercury-arc rectifiers for 150 A
Cardl/5 max. and 120 kV max. Joint work with the Scientific Research

High-voltage Rectifiers/Inverters for Direct Current Power Transmission.

Institute for Direct Current (NIIPT) using the Kashira-Moscow experimental transmission line, showed that equipment for d.c. power transmission should be considered as a complex whole. In this experimental system, great difficulties were encountered as a result of instability of valve characteristics and a number of specific properties of high-power, high-voltage, rectifier circuits. The valves are subject to back-fire, break-down, loss of control action of the grids, los of excitation, flashover of anode insulators, and over-voltages on the auxiliary electrodes. There were also difficulties arising from system disturbances such as over-voltages, high-frequency oscillations and current surges. For example on the Stalingrad-Donbas line, where the normal voltage on a valve should be 65 kV, calculations show that during over-voltages it may reach 250 kV. Considerable difficulties arose as a result of free oscillations which appeared in the circuit during ignition and extinction of a valve. Highfrequency oscillations, which caused severe radio-interference and damage to the anodes were suppressed by special reactors. Lowfrequency oscillations were more difficult to suppress, and damper circuits consisting of capacitance and resistance are being used for this purpose. At first, the Kashira-Moscow line operated with one bridge having three series valves in each arm

Card2/5

High-voltage Rectifiers/Inverters for Direct Current Power Transmission.

and later with two bridge circuits connected in series, one having one valve per arm and the other two. In designing the Stalingrad-Donbas line, it is proposed to use a sub-station circuit consisting of eight bridge circuits in series, each for a voltage of 100 kV and a current of 900 A. In all, there will be 192 valves working as converters and 32 "shunting" valves. At full load, each alve will handle a power of 7.5 MW. A serious problem was the control of individual circuits from the auxiliary supply panel which was solved under the guidance of Candidate of Technical Sciences I.L. Rubinshteyn. Control is effected by means of a light ray acting on photo-resistance cells which operate relays. For development work, the All-Union Electro-technical Institute (VEI) has constructed equipment for making static tests at up to 200 kV r.m.s., surge generators and a high-power equivalent for testing valves under rated conditions. A large test installation with a transformer group of 120 MW has been constructed at one sub-station. Questions of valve design are then discussed. A sectional drawing of a high-voltage valve is shown in Fig.1. The distinctive feature of high-voltage valves is the anode system and different methods of sectionalising the anodes are shown in Fig. 2. It is usually advisable to extend anode sectionalisation Card3/5 to the discharge space, and different types of screens are shown

High-voltage Rectifiers/Inverters for Direct Current Power Transmission.

in Fig. 3. Other anode constructions are shown in Fig. 4; Fig. 4zh shows an anode design developed by V.D. Andreyev. Several types of valves developed in the All-Union Electro-technical Institute are illustrated in Fig. 5 (photos). The main relationships of voltage division between the intermediate electrodes of the anode assembly were established during the investigations of high-voltage valves. When the valve works as a rectifier, the negative voltage drop occurs mainly in the gap between the anode and the first anode insert. When working as an inverter the positive blocking voltage lies very largely in the space between the insert furthest from the anode and the upper grid. Development of rectifiers proceeded alongside theoretical and physical investigations, of valve strength, current distribution in the anode, and voltage distribution in the anode assembly, ignition effects, effects during failure of operation and during heavy In the investigation of physical effects, mobe overloads. methods of vapour density measurement were very useful. Graphs of the probability of back-fire for the valves BP-1 and BP-3 as functions of cooling temperature are shown in Fig. 6. Laboratory results have been confirmed by data of 12 000 hours tests on valve type BP-3 in the experimental transmission line.

Card4/5 Valves type BP-4/2 and BP-9/3 are intended for the Stalingrad-

110-9-3/23

High-Voltage Rectifiers/Inverters for Direct Current Power Transmission.

Donbas transmission line and have passed a wide variety of laboratory tests and the results of the first high-power tests confirm the satisfactory operation of the valves in approximately their normal working conditions. In the light of the experience gained, development is likely to compaise: valves of greater power for higher voltages and currents, which will be combined with improvement in manufacture to improve reliability; valve designs which will ensure great vacuum-tightness, enabling the manufacture of pumpless valves or, if necessary, to provide internal devices to maintain and restore vacuum. Two new types of pumpless valve are shown in Fig.7, one for 150 A max. and the other for 900 A max. with reverse voltages of the oder of 100 - 120 kV max. There are 7 figures and 5 Slavic references.

ASSOCIATION: All-Union Electrotechnical Institute (VEI)

SUBMITTED: April 23, 1957.

AVAILABLE: Library of Congress.

Card 5/5

BETRYEV, E.Z.

BUTAYEV F.I. kand.tekhn.nauk; KLIMOV, N.S., kand.tekhn.nauk; SAKOVICH, A.A., kand.tekhn.nauk; STEPANOV, N.P., kand.tekhn.nauk.

High voltage transformers for transmitting d.c. current. Vest. elektroprom. 28 no.9:8-14 S '57. (MIRA 10:11)

1. Vsesoyuznyy elektrotekhnicheskiy institut. (Electric transformers)

NEYMAN, L.R.; TOLSTOV, Yu.G., doktor tekhn. nauk; PIMENOV, V.P., kand. tekhn. nauk; POSSE, A.V., kand. tekhn. nauk; SAKOVICH, A.A., kand. tekhn. nauk; BUTAYEV, F.I., kand. tekhn. nauk; MEL'GUNOV, N.M., inzh.; SONIN, H.R., inzh.

[Long-distance high-voltage direct-current transmission] Peredacha energii postoiannogo toka vysokogo napriazheniia na dal'nie rasstoianiia. Pod red. L.R. Neimana. Moskva, 1958. 64 p. (MIRA 11:10)

1. Russia (1923- U.S.S.R.) Sovet Ministrov. Gosudarstvennyy nauchno-tekhnicheskiy komitet. 2. Chlen-korrespondent Akademii nauk SSSR (for Neyman).

(Electric power distribution)

AUTHORS:

Butayev, F. I., Candidate of Technical 105-58-5-1/28 Sciences, Klimov, N. S., Candidate of Technical Sciences,

Kostrov, M. F., Candidate of Technical Sciences, Sakovich, A. A., Candidate of Technical Sciences

TITLE:

A High-Power High-Voltage Valve (Moshchnyy vysokovol tnyy

ventil')

PERIODICAL:

Elektrichestvo, 1958, Nr 5, pp. 1-7 (USSR)

ABSTRACT:

At first a survey of the development of the high-voltage valves abroad and at home is given. In the USSR such works were carried out in the laboratories of the VEI

(A. N. Larienov, S. V. Krauz 1937, N. S. Klimov 1938 - 1939,

M. I. Gal'din 1940). After the war high-voltage valves

and control boxes for the first test-d.-c.-trunk line from the hydroelectric plant Kashira to Moscow were elaborated

These works were mainly performed in the Scientific

Engineering Office of the former Ministry for Electrical Industry under participation of important German specialists,

as G. Dobke, R. Kheliters, and others. 30 valves of the type VR I were produced by this office and partly by the

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A High-Power High-Voltage Valve

105-58-5-1/28

test works of the VEI during the second half of 1950 1950 - 1951 12 valves of the type VR 3 for a maximum of 300 A and 130 kV were produced in the VEI. Since 1952 works were started on a valve for a maximum of 900 a and 130 kV. These works are shortly described here. 1) The problem whether the valve is to be constructed as single-anode- or multi-anode-valve, was solved in favor of the single-anode type. It was shown that the difficulties in connection with the discharge concentration on a small cross section can be overcome. 2) The number of the insets was selected in a way that the advantages are relatively great and the disadvantages are as small as possible. The tests were carried out with 15 (valve by Kesayev), 5, 4, 3, 2 and 1 insets (construction by Andreyev). 3) The problem of size and density of these insets is finally to be cleared in the plant. 4) The materials were investigated, 1951 - 1952 a special vacuum--technological equipment was put into operation, solitary test stands were established (up to 1000 A and 160 kV, pulse circuit up to 350 kV). The construction of the valve essentially differs from those used in industry. Then

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A High-Power High-Voltage Valve

105-58-5-1/28

follows a description of such a valve of the type VR 9/3 for 900 A and 130 kV. In 1952 25 samples of different power and different types were produced. The electric strength of the valve is high. In static tests it stands 140 - 160 kV without an exterior divider. The investigations of the mercury vapor took place according to the probe methods, which had been elaborated in the Laboratory for gas discharge devices at the VEI. The electrical tests at full amperage and voltage were carried out with the equivalent scheme constructed in the VEI for maximally 1000 A and 160 kV, and valuable data were obtained. An extraordinary phenomenon was determined: At positive anode-voltage and normal operation of all excitation anodes and nets no lighting of the principal anode took place at high voltage. At low voltage this phenomenon was not observed. This fact is explained by the occurrence of negative potentials. In investigating the overload capacity it was found that also at 15 000 A within the range of working temperatures an interruption of the current does not occur. Then the voltage in the

Card 3/5

A High-Power High-Voltage Valve

105-58-5-1/28

arc drops to 700 - 800 V. For the purpose of energy investigations a test stand for 120 MVA was built at the Moscow Institute for D. C. The results of the first test series showed that 900 A and a countervoltage jump cf 50 kV no disturbances occurred at the valves. At 900 A and 90 kV countervoltage jump the valves do not lead to an extinction of the excitation arc. For the transmission line from the Stalingrad hydroelectric plant to Donbass (the voltage between the poles amounts to 800 kV and the amperage in the line to 900 A) the VEI proposed an eight-bridge-scheme. The voltage of each bridge amounts to 100 kV. The scheme was accepted by the expert commission. Here two valves are connected in series into the bridge arm: maximum countervoltage 61 kV, countervoltage jump 34 kV, maximum amperage 900 A. - The work for the valve was performed at the Laboratory for High-Voltage Rectifiers at the VEI under participation of the Laboratory for Gas Discharge Devices, and of the Laboratory for Physical Investigations at the institute. The samples of the valves were produced by the electromechanical test plant of the VEI. The porcelain- and ceramic products were produced by the

Card 4/5

A High-Power High-Voltage Valve

105-58-5-1/28

"Izolyator" porcelain plant and by the Institute of the GIEKI. N. P. Stepanov, N. P. Savin, N. M. Maslennikov, I. D. Shkolin, A. A. Pertsev, V. S. Grigor yev, A. A. Timofeyev, R. I. Grigor yeva, V. V. Bazhenov, I. V. Blond, A. A. Ivanov, Ye. P. Shmarina and others directly and actively participated in the work. There are 12 figures.

ASSOCIATION:

Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina (All-Union Institute for Electrical Engineering imeni Lenin)

SUBMITTED:

November 5, 1957

AVAILABLE:

Library of Congress

1. Electron tubes--Development

2. Electron tubes--USSR 3. Electron tubes--Test results 4. Electron tubes--Applications

Card 5/5

5. Transmission lines--Equipment

BUTAYEN, F.I.

AUTHORS:

Shekhtman, M.G., Candidate of Technical Sciences, 105-58-5-20/28

Aksel'rod, M.M., Engineer, Butavev, F.L., Candidate of Technical Sciences, Klimov, N.S., Candidate of Technical Sciences, Levitskiy, K.K., Engineer

TITLE:

On the Prospects of Employing D.C. Transmission in the USSR (O perspektivakh primeneniya elektroperedach postoyannogo toka

v Sovetskom Sovuze)

PERIODICAL:

Elektrichestvo, 1958, Nr 5, pp. 81-83 (USSR)

ABSTRACT:

Comments on the article by N.M.Mel'gunov, Elektrichestvo, 1957,

Nr 2:

1.) This is a comment on the article by I.F.Polovoy in

Elektrichestvo, 1957, Nr 5. A number of errors is criticized. The ratio between the costs of an A.C. substation and a D.C. substation are assumed by Polovoy as amounting to 0.5. According to data published by Teploelektroproyekt it is 0.557-0.580 and according to those given by the Institute for Direct Current it is 0.76 (taking account of the fact that valves are produced in the

Card 1/3

factory). Doubts expressed with respect to the possibility of

On the Prospects of Employing D.C. Transmission in the USSR

105-58-5-20/28

covering reactive (idle) power are unfounded because the rectifier plant has a $\cos \varphi = 0.90 - 0.95$. Polovoy does not take power losses in compensation devices into account. He assumes the specific costs of the transformer plant of D.C. substations to amount to 36% of the substation costs. According to Teploelektroproyekt they amount to 26%, and according to the Institute for Direct Current and the All-Union Institute for Electrical Engineering - 17%. According to experience gathered in connection with the line Kashira hydraulic station - Moscow, and according to technical conditions the life of valves between two repairs amounts to 15 000 hours or two years and not one year. 2.) Criticism of the article by Lel'gunov. It is wrong to declare that the costs of D.C. - and A.C. substations including devices for the increase of stability are the same already at the present stage of transformer-engineering, that in the case of long-distance transmission no intermediate output is necessary, that by means of the mercury valve grids the intermediate substations can be reliably disconnected from the long distance line. Advantages and disadvantages of a D.C. line are enumerated.

Card 2/3

On the Prospects of Employing D.C. Transmission in the USSR

105-58-5-20/28

The atomic electric power plants will only supplement existing power systems, and hydraulic power still remains the most inexpensive type of energy. The large valves for 130 kV and 300 A developed at the All-Union Institute for Electric Engineering will render D.C. transmission more economical. For high power transmissions of from 0.75 to 6 million kW over distances of 900 km and more direct current offers great advantages.

There is 1 table.

ASSOCIATION: Nauchno-issledovatel'skiy institut postoyannogo toka (Scientific

Research Institute for Direct Current)

Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina (All-Union

Institute for Electric Engineering imeni Lenin)

Teploelektroproyekt

AVAILABLE: Library of Congress

> 1. Direct currents--Transmission--USSR 2. Electric power plants --Substations--Effectiveness 3. Atomic power plants--Applications

Card 3/3

4. Power plants--Economic aspects

BUTAYEV, F.I., kand.tekhn.nauk; KLIMOV, N.S., kand.tekhn.nauk; PERTSEV, A.A., inzh.; STEPANOV, N.P., kand.tekhn.nauk

Developments in the field of high-voltage power rectifiers. Elektrotekhnika 36 no.11:22-24 N 165.

(MIRA 18:11)

L 23770-66 EWA(h)/EWT(1) ACC NR: AP6015276 SOURCE CODE: UR/0292/65/000/011/0022/0024 AUTHOR: Butayev, F. I. (Candidate of technical sciences); Klimov, N. S. (Candidate of technical sciences); Pertsev, A. A. (Engineer); Stepanov, N. P. (Candidate of technical sciences) ORG: none TITLE: Developments in high-voltage power rectifiers 25 SOURCE: Elektrotekhnika, no. 11, 1965, 22-24 TOPIC TACS: direct current, electric power transmission, mercury rectifier ABSTRACT: The Leningrad-Donbass transmission line is presently being put into operation. This will be the most powerful d-c transmission line in the world, sending 750 Mw of power at 800 kw over a distance of roughly 500 km. The transmission system uses a three-phase eight-bridge network with power rectifiers which operate at a maximum voltage of 130 kV and a maximum current of 900 amps. The eight-bridge system, proposed by the All-Union "Order of Lenin" Electrical Engineering Institute imeni V. I. Lenin, has the following advantages over the four-bridge circuit: 1) when individual bridges in the system fail, the transmitted power is maintained by current overload on the bridges remaining in operation; 2) the work load on the equipment is lighter in emergency conditions, and two rectifiers can be series-connected in each arm of the bridge to reduce the work load by increasing the number of rectifiers from

Card 1/2

UDC: 621.314.65.001.8

L 23770-66_

ACC NR: AP6015276

72 to 96; 3) when separate rectifiers fail, the voltage applied to the elements remaining in operation does not exceed the nominal value, while in the four-bridge system the voltage is twice the rated value in this type of emergency. Various foreign high-voltage d-c transmission lines now in operation and being planned are mentioned and their parameters are given. Some of the advances made in high-voltage power rectifiers since 1940 are discussed. Work was begun on the rectifier being used in the Volgograd-Donbass system in 1952 at the All-Union Electrical Engineering Institute. The various problems involved in the development and construction of this device are discussed. This single-anode pool unit, called the VR-9 Excitron, is now being mass-produced at a specially built factory in Moscow. The overall dimensions of the rectifier are 1.9 x 1.2 x 3.4 m. A comparison of the VR-9 Excitron with the Swedish-made rectifiers used in the English Chammel d-c Transmission line shows that the Soviet high-power mercury rectifier is up to modern requirements with respect to electrical characteristics and construction. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 10, 09 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 002

Card 2/2

S/103/63/024/001/008/012 D201/D308

9.8380

Butayev, G. M. (Kiev)

TITLE:

AUTHOR:

The effectiveness of optimum coding of primary meter scale in pulse-code telemetering

PERIODICAL: Avtomatika i telemekhanika, v. 24, no. 1, 1963, 92-96

TEXT: If the primary meter has a linear scale, the optimum scale coding of this meter in pulse-code telemetering of the output may result in a considerable reduction of the overall telemetering error. The optimum distribution of coding combination is derived as a function of the distribution of probability of occurrence of the primary meter indications. An expression is given for the minimum telemetering error for a given probability distribution. The error reduction depends on the form of statistical characteristics of the measured variable and has to be determined individually for every measured variable. A circuit diagram for coding combination distribution is given for the case when the primary meter produces the output signal as a sequence of pulses, the number of which varies

Card 1/2

The effectiveness of .

S/103/63/024/001/008/012 D201/D308

as the measured variable. If the output is either a long pulse or a phase difference it may be transformed into a number of pulses by slicing to a time scale and hence into the code of the required combination distribution as shown. There are 3 figures and 1 table.

SUBMITTED: April 10, 1962

Card 2/2

L 11387-65 EWT(d)/EED-2/EWP(1) Pg-Li/Pk-Li/Po-Li/Pq-Li IJP(c) GG/BB

5/0302/64/000/003/0026/0028 ACCESSION NR: AP4046110

AUTHOR: Butayev, G. M. (Candidate of technical sciences); Romashkan, V. S.

TITLE: Digital square-root extractors

SOURCE: Avtomatikai priborostroyeniye, no. 3, 1964, 26-28

TOPIC TAGS: root extractor, square root extractor 160

ABSTRACT: Two experimental models of digital devices for extracting square roots, a parallel and a series, are briefly described. A squaring unit compares the squares of 1, 2, 3, etc., numbers with X in the equation Y = $C\sqrt{X}$. The root extractor is designed for a binary code. The parallel version is recommended for a functioning time of not over a few tenths of a second; for a longer time, the series version is more suitable. Block diagrams of both models are given Orig. art. has: 2 figures, 8 formulas, and 2 tables.

ENCL

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: DP

NO REF SOV: 002

Coro 1/1

BUTAYEV, G.M., kand. tekhn. nauk; ROMASHKAN, V.S.

Improved unit for the solution of the equation of consumption. Avt. i prib. no.4242-45 O-D '64 (MIRA 18:2)

L 00080-66 EWT(1)/EWA(h)

ACCESSION NR: AR5013615

UR/0271/65/000/004/B014/B014 681.142.644.6

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitelinaya tekhnika. Svodnyy tom, Abs. 4B110

AUTHOR: Butayev, G. M.; Romashkan, V. S.

TITLE: A method of functional discrete conversion

CITED SOURCE: Sb. Ustroystva i elementy prom. telemekhan. Kiyev, 1964, 79-83

TOPIC TAGS: function generator

TRANSLATION: A digital-analog-type function generator operating by the method of piecewise-linear approximation is described. A circuit diagram of such a generator yielding Y=KlnX, where K = 21.8, is presented. Increments in the coupling factor between the argument and function variations are programed by a matrix which is controlled by a function-value counter. The generator is intended for data correction in a coded telemetering system and is built with semiconductor devices. Figs. 2, tab. 1.

SUB CODE: DP, EC.

ENCL: 00

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307720018-3

L 6437-66 EWT(1)/EWA(h)

ACC NR: AR5014354

SOURCE CODE: UR/0271/65/000/005/A047/A048

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika. Svodnyy tom, Abs. 5A329

AUTHOR: Butayev, G. M.; Romashkan, V. S.

TITLE: Pulsed converter of code into instrument reading

CITED SOURCE: Sb. Ustroystva i elementy prom. telemekhan. Kiyev, 1964, 83-87

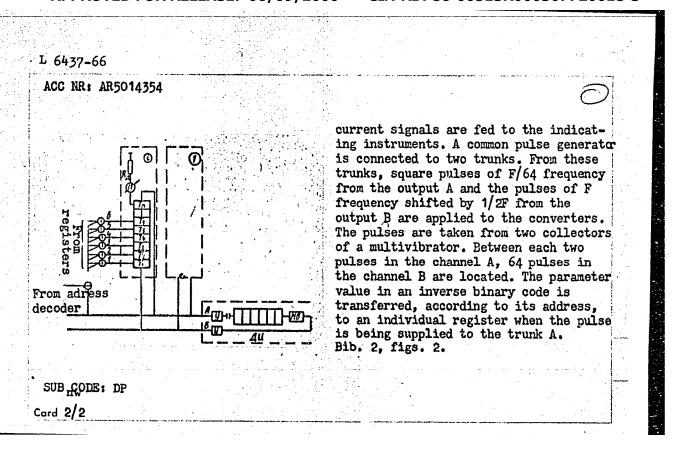
TOPIC TAGS: pulsed converter, pulsed reading converter

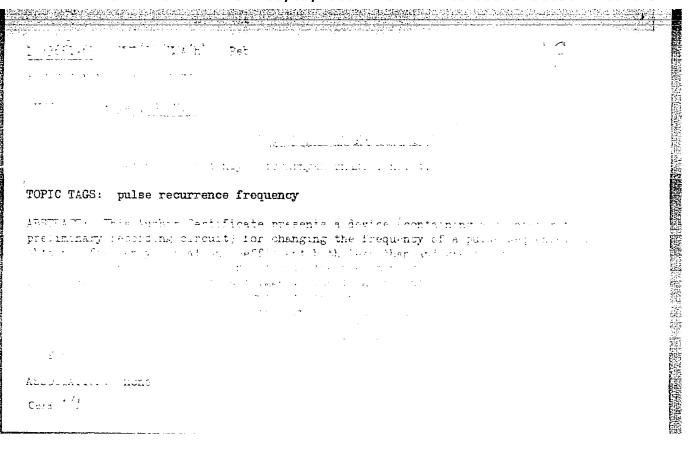
TRANSLATION: A converter of code into average current is described, in which the code of a parameter is converted into square pulses that have a constant height and a duration proportional to the code. A continuous train of such pulses arriving with a definite periodicity is applied to the coil of a moving-coil permanent-magnet instrument; this pulse train results in an averaged instrument reading which is proportional to the relative pulse duration. The figure shows a functional diagram of the device with i converters of a 6-digit binary code into the average current. Code telemeter signals, according to their addresses, are successively distributed from a central register to individual output registers whence the

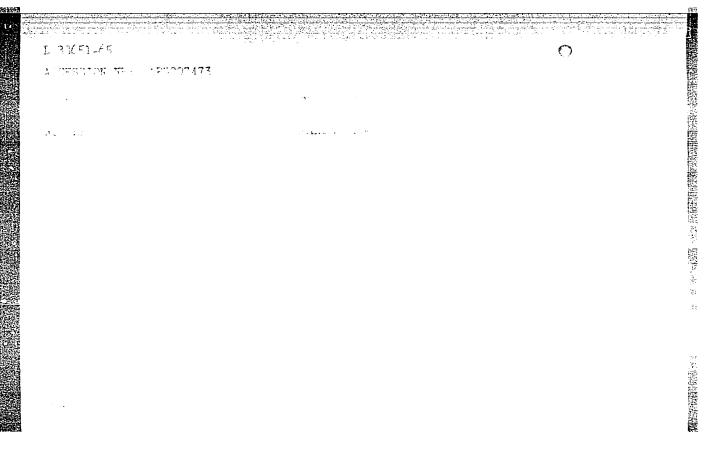
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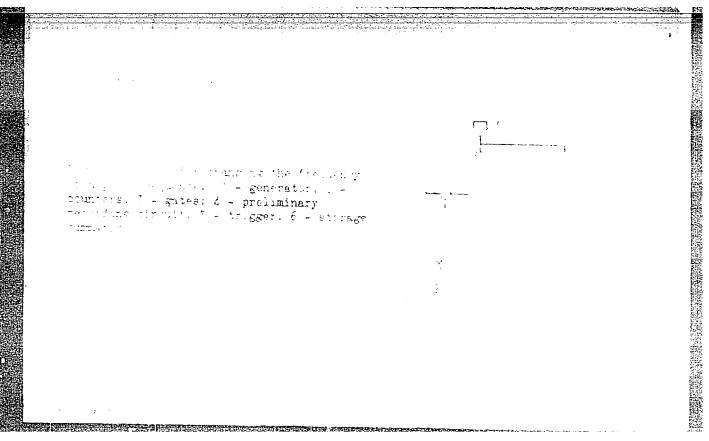
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"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307720018-3

L 20991-66 EMT(d)/EWT(1)/EWP(1)/EWA(h) IJP(c) BB/GG

ACCESSION NR: AP5014006

UR/0119/65/000/005/0027/0028 621.3.042.15:621.314

AUTHOR: Butayev, G. M. (Candidate of technical sciences); Shonedrov, N. I. (Engineer)

TITLE: Angle-to-code contactless converter with ferrite sensing elements

SOURCE: Priborostroyeniye, no. 5, 1965, 27-28

TOPIC TAGS: angle to code converter, contactless converter

ABSTRACT: The development is reported of a new angle-to-fray-code converter in which the on-off switching is effected by copper-foil segments passing through the gap of a very sensitive ferrite core. The sensing element comprises a transistor and a 3-winding ferrite-core transformer connected to form a nonsinusoidal-wave oscillator. Insertion and withdrawal of the copper segment result in starting and stopping the oscillations, with the oscillator functioning as a low-resistance switch. One sensing element is required for every digit of the converter. A wire-saving time-sequence 50-cps-supplied circuit is envisaged for transmitting many-digit signals to a receiver. An experimental model of the converter was

Card 1/2

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		al operation at the I			Plant.
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<u>I. 3635-66</u> EWT(d)/EWP(l) IJP(c) BB/GG

ACCESSION NR: AP5021440

UR/0146/65/008/004/0063/0066 681.142.9

AUTHOR: Butayev, G. M.

TITLE: General digital unit for squaring and for extracting square roots

SOURCE: IVUZ. Priborostroyeniye, v. 8, no. 4, 1965, 63-66

TOPIC TAGS: computer arithmetic unit (60,47)

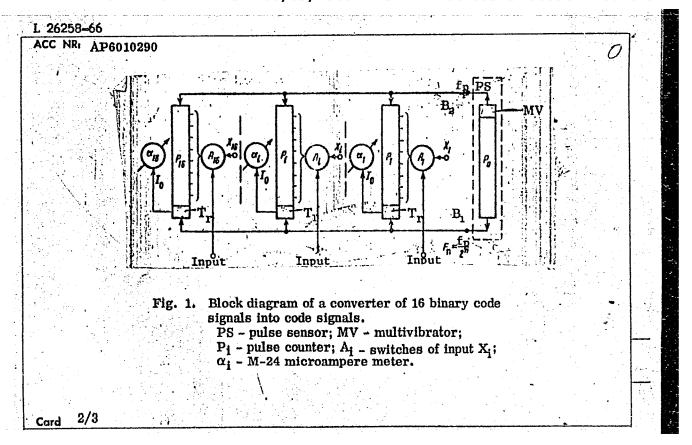
ABSTRACT: A digital unit which performs the functions of squaring and extracting square roots and which contains a binary code summator and a delay multivibrator is presented. Squaring is accomplished according to the algorithm $(K + 1)^2 = K^2 + (2K + 1)$. The number K to be squared is supplied to a counter register as a sequence of K pulses. At the i-th pulse the number 2(i-1) + 1 is formed in a storage register and is added to the sum of the results of the previous i-1 steps. Thus, at the conclusion the counter register contains the number K, and the summator placed in the storage register, and the above procedure is followed until the vacant

Card 1/2

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ASSOCIATION: Kiyevskiy inzhenerno-stroitel'nyy institut (Kiev Civil Engineering								
SUBMITTED: 25Apr64		ENCL: 00	SIID	CODE				
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EWT(d)/TWP(c)/T/EWP(v)/EWP(k)/EWP(h)/EWP(1) 27814-66 ACC NR. AP6007594 SOURCE CODE: UR/0119/66/000/002/0012/0014 AUTHOR: Basov, V. I. (Engineer); Butayev, G. M. (Candidate of technical sciences); Melik-Askarov, A. G. (Engineer); Ponomarev, A. I. (Engineer); Romashkan, V. S. Engineer); Tupas, V. I. (Engineer) ORG: none TITLE: Coded telemetry system for concentrated plants SOURCE: Priborostroyeniye, no. 2, 1966, 12-14 TOPIC TAGS: telemetry system, telemetry technique ABSTRACT: Fifteen quantities are telemeasured and seven two-position-indication signals are transmitted; also, deviation of any quantity from its normal measuring span is signalled. In addition to indicating instruments and signal lamps, the dispatcher station has a digital printer and a specialized computer. Three frequency channels transmit 1, 0, and change-quantity signals. A number protection in the interrogation cycle of each parameter is provided, as well as a protection against missing or breaking up pulses. The system is designed with semiconductor devices only. These characteristics are claimed: frequencies, 4400, 4600, and 4800 cps; transmission time of one frequency signal, 10 millisec; interrogation time of one parameter, 130 millisec; basic error, ± 0.6% or less; line attenuation, 3 nep; tolerable supply-v. tage variation, +10 -15%. The system has been tentatively put in operation at the Dzerzhinskiy Metallurgical Plant, Dneprodzerzhinsk. Orig. art. has: 4 figures and 1 table. SUB CODE: 09 / SUBM DATE: none / ORIG REF: 005 Card 1/1 UDC: 621,398:654.931

EWT(d)/EWP(1) JJP(c) ACC NRI AP6010290 SOURCE CODE: UR/0103/66/000/003/0148/0152 AUTHOR: Butayev, G. M. (Ordzhonikidze) ORG: none TITLE: A circuit for the conversion of binary code signals into current signals SOURCE: Avtomatika i telemekhanika, no. 3, 1966, 148-152 TOPIC TAGS: circuit design, digital analog converter, coupling circuit, binary code, computer technology ABSTRACT: Pulse code-time-current converters are being rapidly developed and may be considered among the most promising means of coupling discrete and analog data processing devices. The converter described by A. K. Zavolokin (Preobrazovatel' chislovykh velichin v elektricheskiye. Avtomatika i telemekhanika, vol. XXI, no. 2, 1960), in particular, possesses the important feature of correcting its own reduction errors. However, when the requirement of time-parallel processing of several code signals is imposed, the Zavolokin converter becomes complicated. The present author introduces a circuit of a simple pulse code-timecurrent converter for the parallel processing of 16 code signals (see Fig. 1). The circuit is intended for the output of code outputs $X_1, \ldots, X_1, \ldots, X_{16}$ to the indicators $\alpha_1, \ldots, \alpha_1, \ldots, \alpha_n$ α_{18} of the control panel. Each channel of the converter contains a counter circuit of n+1UDC: 681.142.621 1/3



triggers, n of these triggers form the pulse counter P_1 , and the (n+1)th trigger T_r has separated inputs and is connected by these inputs to the busbar B_1 and to the cutput of P_1 . The second busbar B_2 regularly feeds the outputs of all counters P_1 the frequency pulses f_p from the multivibrator MV. A comparison of the Zavolokin circuit with the circuit described in the present article shows that the latter is more advantageous in time-parallel processing of several code signals. The Zavolokin circuit is most efficient in processing single code signals. The circuit described (Fig. 1) was constructed on the basis of semiconductor devices and, after passing tests, operated for more than 800 hrs. in accordance with technical specifications. Orig. art. has: 13 formulas and 3 figures. [08]

SHCHERBAN', A.N., akademik; BUTAYEV, O.A.; FURMAN, N.I.; TERENT'YEV, N.F.

Automatic methane indicator for gas reducer plants and compressor stations of main gas pipelines. Gas. prom. 4 no.4:42-45 Ap 159.

(MIRA: 12:6)

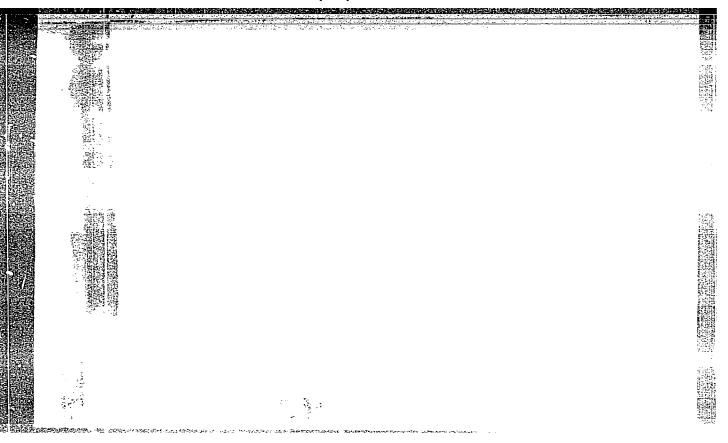
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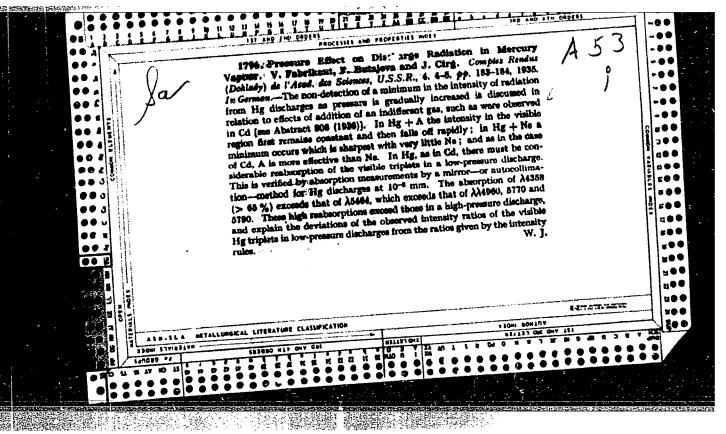
BUTAYEV, O.A.: IVANOV, S.K.; KROSHKO, A.N.; MASKFVICH, V.D.

Investigating gas pipelines as radio wave guides. Gaz. prom. 7 no.6:43-48 '62. (MIRA 17:6)

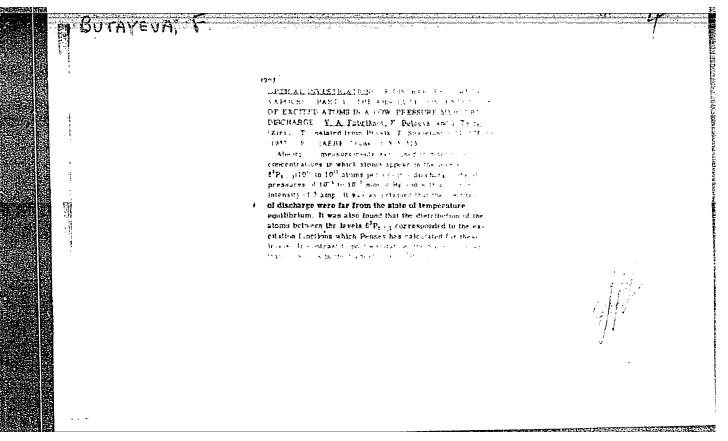
BUDKER, S.B.; BUTAYEV, O.A.; LEYDERMAN, M.I.; MELAMED, S.S.

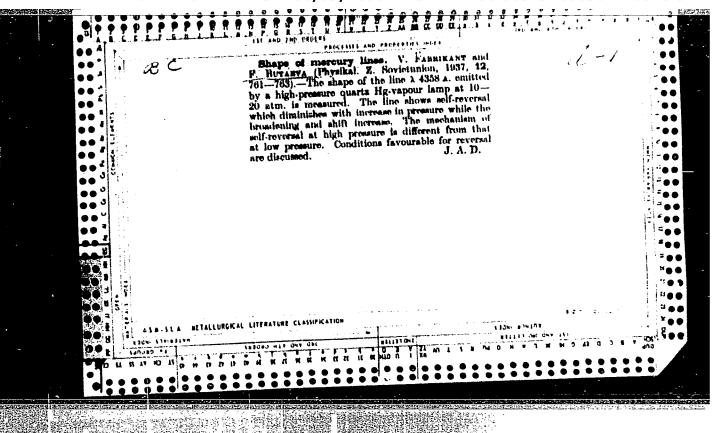
Using gear pumps for transporting liquefied petroleum gases.
Gaz. prom. 10 no.9:19-22 '65. (MJRA 18:11)

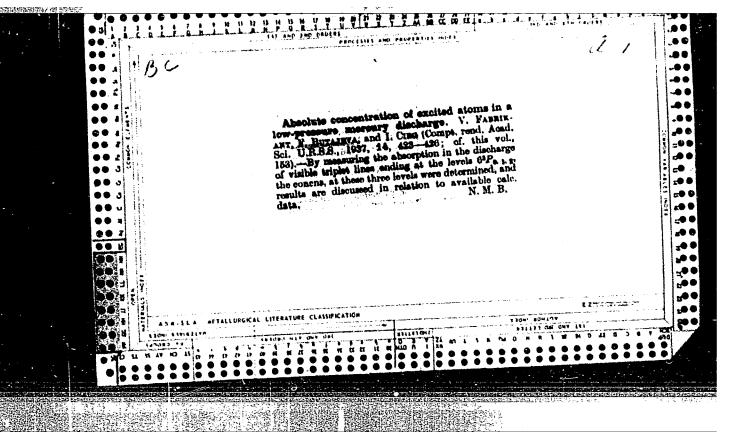


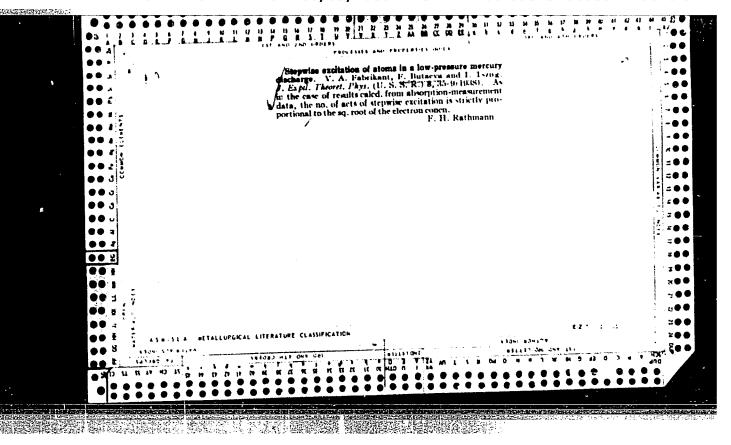


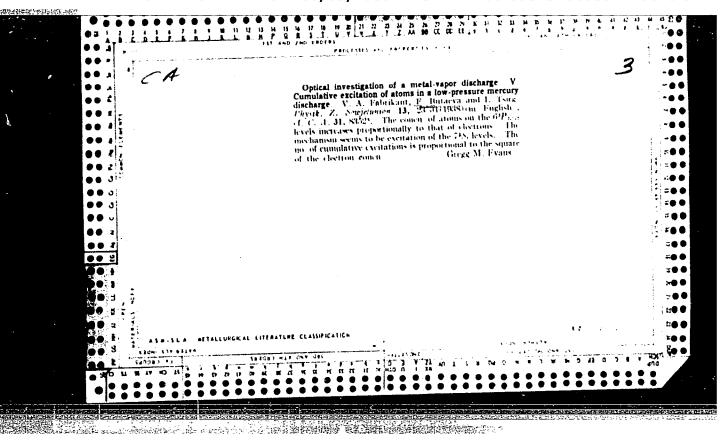
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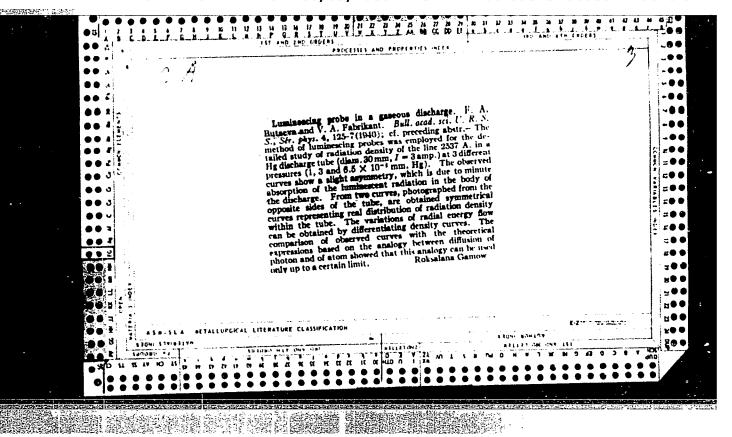


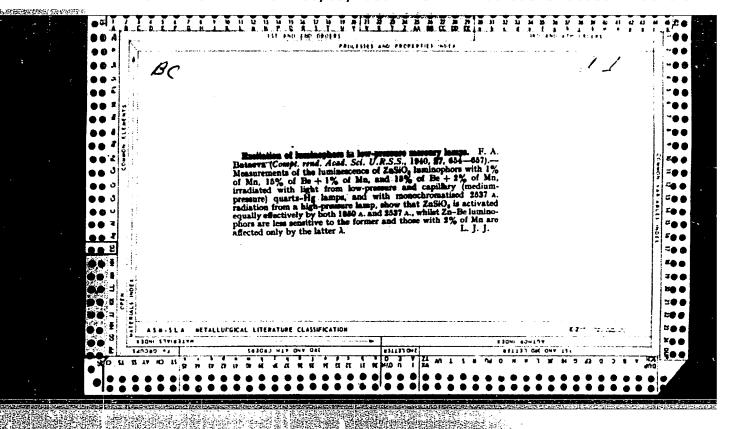


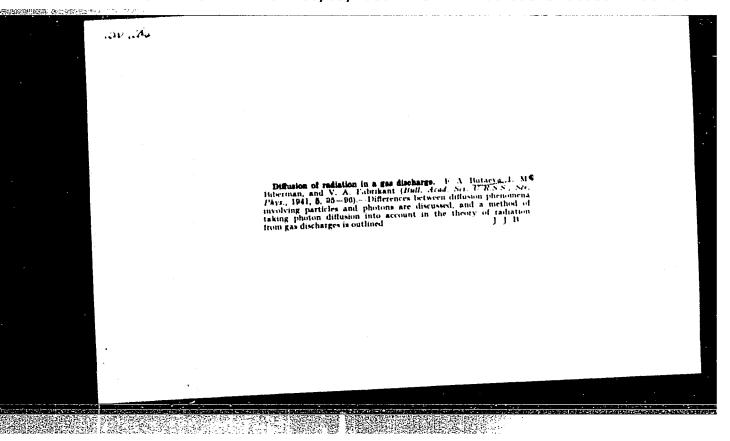


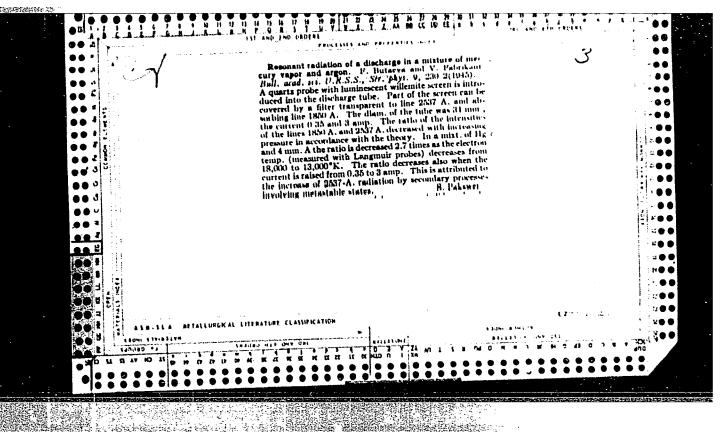


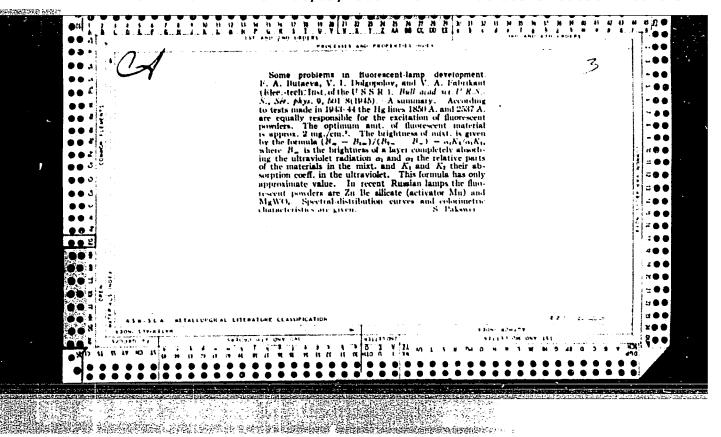










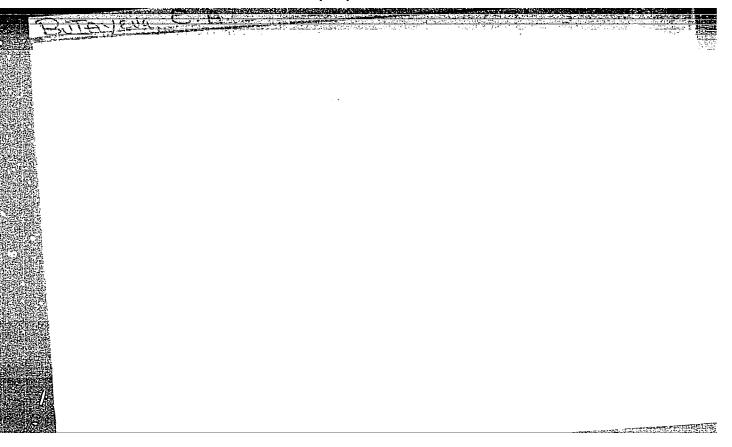


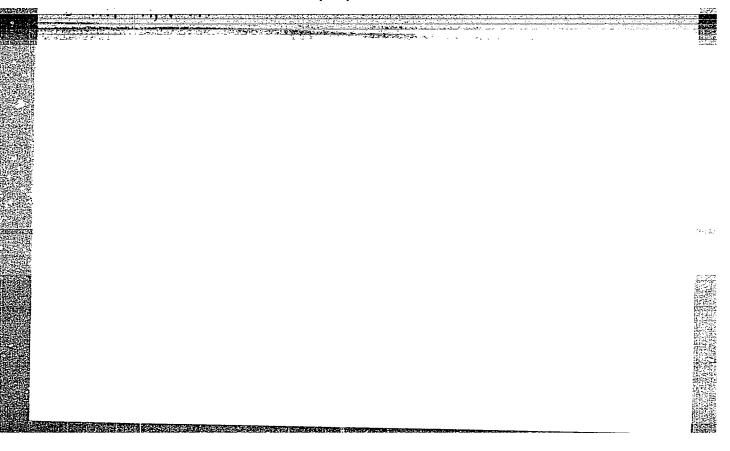
BUTAYEVA, F. A.			PA 26T89
	various apparatus with or without f sensitivity of a luminescent lamp t Submitted at the All-Union Electro- stitute, Laboratory of New Sources	g experime bution ou noticed there was the exciption the investig the exciption of the exci	USSR/Physics Luminescence Lamps "Excitation of Luminophore F. A. Butayeva, 6 pp
	thess of various luminophores in the lith or without filters, and the ninescent lamp to the 1849 Å line l-Union Electro-Technical Incorrects of New Sources of Light.	constructing the en luminophore compout in the spectral cut in the light source role of the 1849 Af luminophores in a coefficient in a (Contd)	in Luminescent
26189	hores in and the 49 A line.	energy- counds the curve form arge. The A line a tube, a tube by 26789	Dec 1946

PA32/4**9**T105 BUTAYEVA, F. A. USSR/Physics (Contd) Working conditions of luminescent lamps correspond linearly with current, while noticeable deviations from linearity are observed for the 2,537 % line. to meximum intensities of the two resonance lines of mercury. Submitted 5 May 48. the Intensity of Resonance Mercury Lines of 1,850 A and 2,537 A," F. A. Butayeva, V. A. Fabrikant, All-Union Electrotech Inst imeni V. and argon pressure on intensity of 1,850 K and 2,537 K lines, using vacuum luminescence "Zhur Tekh Fiz" Vol XVIII, No 9 Lenin, 9 pp "The Influence of the Parameters of Discharge on USSR/Phyaics Investigates effect of current, vapor pressure, and argon pressure on intensity of 1,850 A Spectrometers Spectrum Analysis Intensity of 1,850 % line increases Sep 48 Sep 48 32/49T105

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VUL: FSON, K.S., prof.; GURRIVICH, M.M., prof.; MESHKOV, V.V., prof.; NILENDER, R.A., prof. YUROV, S.G., kand. tekhn. nauk; SOKOLOV, M.V., prof.; BIBERMAN, L.M., kand. tekhn. nauk; BUTAYEVA, F.A., kand. tekhn. nauk; IVANOVA, N.S., kand. tekhn. nauk; SUSHKIN, N.G., kand. tekhn. nauk.

Valertotal TIST XXX XXXXXXX

Valentin Aleksandrovich Fabrikant; on his 50th birthday. Svetotekhnika 3 no.12:24-25 D '57. (MIRA 11:1) (Fabrikant, Valentin Aleksandrovich, 1907-)

... But AyevA, F.A.

SUBJECT:

USSR/Luminescence

48-4-24/48

AUTHORS:

Butayeva F. A. and Fabrikant V.A.

TITLE:

Sensitivity of Luminophores for Luminescent Tubes to Ultraviolet Radiation of Short Wavelengths (Chuvstvitel'nost' lyuminestsentnykh lamp v korotkovolnovom ul'trafioletovom

izluchenii)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957,

Vol 21, # 4, pp 541-543 (USSR).

ABSTRACT:

The relative sensitivities of tube luminophores to mercury lines of 1,850 and 2,537 Å were directly measured.

A specially designed vacuum monochromator was used. The brightness of the luminophores at their excitation by the 1,850 and 2.537 Å lines was measured by a photomultiplier.

Table 1 in the article gives data for the ratio of sensitivities of these lines. Table 2 gives results of calculations of the quantum yield. These data indicate quantum yields exceeding 1 at the excitation by the 1,850 A line. The ratio of sensitivities depends on the type of a luminophore.

Card 1/2

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48-4-24/48

TITLE:

Sensitivity of Luminophores for Luminescent Tubes to Ultraviolet Radiation of Short Wavelengths (Chuvstvitel'nost' lyuminestsentnykh lamp v korotkovolnovom ul'trafioletovom

izluchenii)

The article contains 1 figure, 2 graphs and 2 tables.

The bibliography lists 3 references, all of which are Slavic

(Russian).

INSTITUTION: All-Union Scientific Research Optico-Engineering Institute

PRESENTED BY:

SUBMITTED:

No date indicated.

AVAILABLE:

At the Library of Congress.

Card 2/2

eskly institut eskly institut and 'inoy i teoreticheskoy füzike; [sbornir.] and 'inoy teoreticheskoy füzike; [sbornir.] An SSSR, 1959. 304 p. Errata slip rinted. inted. in of physical and Mathematical Sci- is use: A. L. Chernyak and V. Q. Berkgau!	Tech. Ed.: N. V. Rylina; Commission for Publishing the Collection of News Ed.: N. V. Rylina; Commission for Publishing the Collection of News Ed.: N. V. Townson, N. V. Leoutovich, Academician: (Chairman), Academician; W. A. Leoutovich, Academician: P. A. Bazhilin, Doctor of Physical and Mathematical Sciences; S. L. Mandel shiam, Doctor of Physical and Mathematical Sciences; T. L. Pabelinaky, Doctor of Physical and Mathematical Sciences; F. S. Lendberg-Baryanshayar, Candidate of Physical and Mathematical Sciences; Mysical and Mathematical Sciences.	r physicists and researched magnetic radiations and the and composition of materia, 30 articles which review	investigations in spectroscopy, source, sorter branches of conductor physics, nuclear physics, and other branches of conductor. The introductory of upper gives a bographical profile of G.S. Laddberg, Frofessor and Head of the Department of Optics of the Division of Physical Technology at Newsor University, and reviews his work in Raylaigh scattering, combat wareity, and reviews his work in Raylaigh scattering, combat manifels of Details of C. No Personalities are manifold.	Berniin, P. A., V. I. Malyshev, and N. M. Suehchinskiy. The Work of G. S. Landsberg in the Field of Molecular Spectroscory Abresson I. S. sand A. M. Mogliakkiy. Investigation of Transtormation Processes in an Activated Discharge Generator Operating Under Conditions of Low Arc Currents	Aleksanyan, V. T., Kh. Ye. Sterin, A. L. Liborman, I. H. Kurnet, 1967, J. T. Trynn Kinna, and B. A. Kazanata, T. The Positility of Establishing the Configuration of Sterieolsocetic Dislictle cyclohexane on the Besis of a Combined Scattering Spectrum	ending Sound Waves of Large Amplitude 1 A. I. Sokolnvakara. Investigation of the Width of Combined Scattering Lines to Ten-	N.	ins in Monapherical Muclei. es of Substances in the	F :	the Effectiveness	Scattering of Light Near Second Type and the	tic Wall Vibrating stributed Porces	Cloud	in Lkc	ilgation of the Hydro- Gontain Two Hydroxy)
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21(0),24(0) Akademiya nauk SSSR. Fizicheskiy Isaladovaniya po eksperimental'no (Studies on Kaperimental and T Articles) Moscow, Izd-vo As inserted. 2,300 coptes printe Ka.: I. L. Pabelinskiy, Doctor Ka.: I. T. Pabelinskiy, Doctor Ka.: Elebelinskiy, Doctor	Tech. Ed.: Nu. v. M. N. In Nemory of Grigori (Chalman), Academic (Chalman), Academic P. A. Bazbulin, Dod S. L. Mandel shtam, I. L. Pabelinskiy, P. S. Landaberg-Bary P. S. Landaberg-Bary Physical and Mathem	FURPOSE: This book is engaged in the study in the stigating the COVERAGE: The collect	investigations in a conductor physics, physics. The intro- 00 G. S. Landsberg, Optics of the Divis versity, and review gases, spectral sha	Vork of G. S. Lands Work of G. S. Lands Tornation Processes ting Under Condition	power X T. Xh. Bove , K. I. Tyun Kii of Establishing the	Bezhulin, P. A. and A. I. Rezhulin, P. A. and A. I. Rezhilon of the Width of	Buta yeva P. A., and V. A. Absorption coefficient	Viadimirskiy, V. V. Nuc Vol'kenshisyn, M. V. Op Vitreous State	Vul, B. M., V. S. Vavil	. <u>5</u>	Ginzburg, V. L., and A. Points of Phase Tran Critical Curis Point	sakovich, M. A. Irradiation Under the Action of Station	Levin, L. M. The Dimming	Paring H. A. S. L. Ph Broadening and Shift Discharge in Plasmo	gen Bond In Substances Groups

BUTAYEVA, F.A. kand.tekhn.nauk

Role of the 1850 A. line in the output of fluorescent lamps. Systotekhnika 5 no.7:17-20 J1 59. (MIRA 12:9)

1. Vsesoyuzmyy svetotekhnicheskiy institut. (Fluorescent lamps)

BUTAYEV, G.M., kand.tekhn.nauk; LUCHENITSER, I.A.

Digital computer for the solution gas-flow equation with automatic correction for pressure. Avtom. i prib. no.1:45-49 Ja-Mr 163.

(MIRA 16:3)

1. Institut avtomatiki Gosplana UkrSSR.
(Flowmeters) (Electronic digital computers)

BUTAYEV, G.M. (Kiyev)

1

Efficiency of optimal coding of the primary meter scale in pulse-code telemetering systems. Avtom.i telem. 24 no.1292-96 Ja '63. (MIRA 16:1)

EUTAYEVA, M.

Butayeva, M. "The use of bone and meat meal in feeding healthy and ill children," Trudy Azerbaydzh. nauch.-issled. in-ta okhrany materinstva i mladenchestva i pediatr. kafedr Azerbaydzh. med. in-ta, Baku, 1949, p. 155-59, (Resume in Azerbaijani).

SO: U-3736, 21 May 53, (Letopis 'Zhurmal 'nykh Statey, No. 17, 1949).

BUTAY	EVA. R.S.	
A STATE OF THE STA	Effect of the nutrition of	preganant mares on fetal development of morf. shiv. no.22:235-242 *57.
	1 Manhamaham mandakkana k	(MIRA 11:4)

1. Moskovskiy mostekhnicheskiy institut.
(Mares-Feeding and feeding stuffs) (Fetus)