

DRURI, Ivan Vasil'yevich, kand. sel'khoz. nauk; ~~MITYUSHEV, Pavel~~
~~Vasil'yevich~~, kand. biol. nauk; MAGON, L.E., red.;
~~BRANOVA, L.G.~~, tekhn. red.

[Deer raising] Olenevodstvo. Moskva, Sel'khozizdat, 1963.
242 p. (MIRA 16:8)
(Deer) (Antlers)

SVALOV, S.I.; MITYUSHEV, S.I.

Additional channels with the V-3 equipment. Avtom. telem. i svyaz'
(MIRA 11:6)
2 no.7:24-25 JI '58.

1. Zamestitel' nachal'nika 4-y distantsii svyazi Sverdlovskoy dorogi
(for Svalov). 2. Starshiy inzhener 4-y distantsii svyazi Sverdlovskoy
dorogi (for Mityushev).
(Railroads--Telephone)

127
SSV/197-59-4-477

6(4)

I

AUTHOR: Mityushev, S. (OVERVIEW)

TITLE: A Regenerative Receiver with Two Transistors

PERIODICAL: Radio, 1959, No. 4, pp. 15-17 (USSR)

ABSTRACT: A regenerative receiver composed of one 11D and one 11D transistor is described. The circuit diagram is shown in Figure 1. The receiver will have a sensitivity of 400 microvolts in the long and medium wave ranges. A 3-volt power source is required. There is 1 circuit diagram.

Card 1/1

MITYUSHEV, S.I., prepodavatel'

Use of ST-35 apparatus in remote control. Avtom., telem. i svyaz'
4 no.4:31-33 Ap '60. (MIRA 13:6)

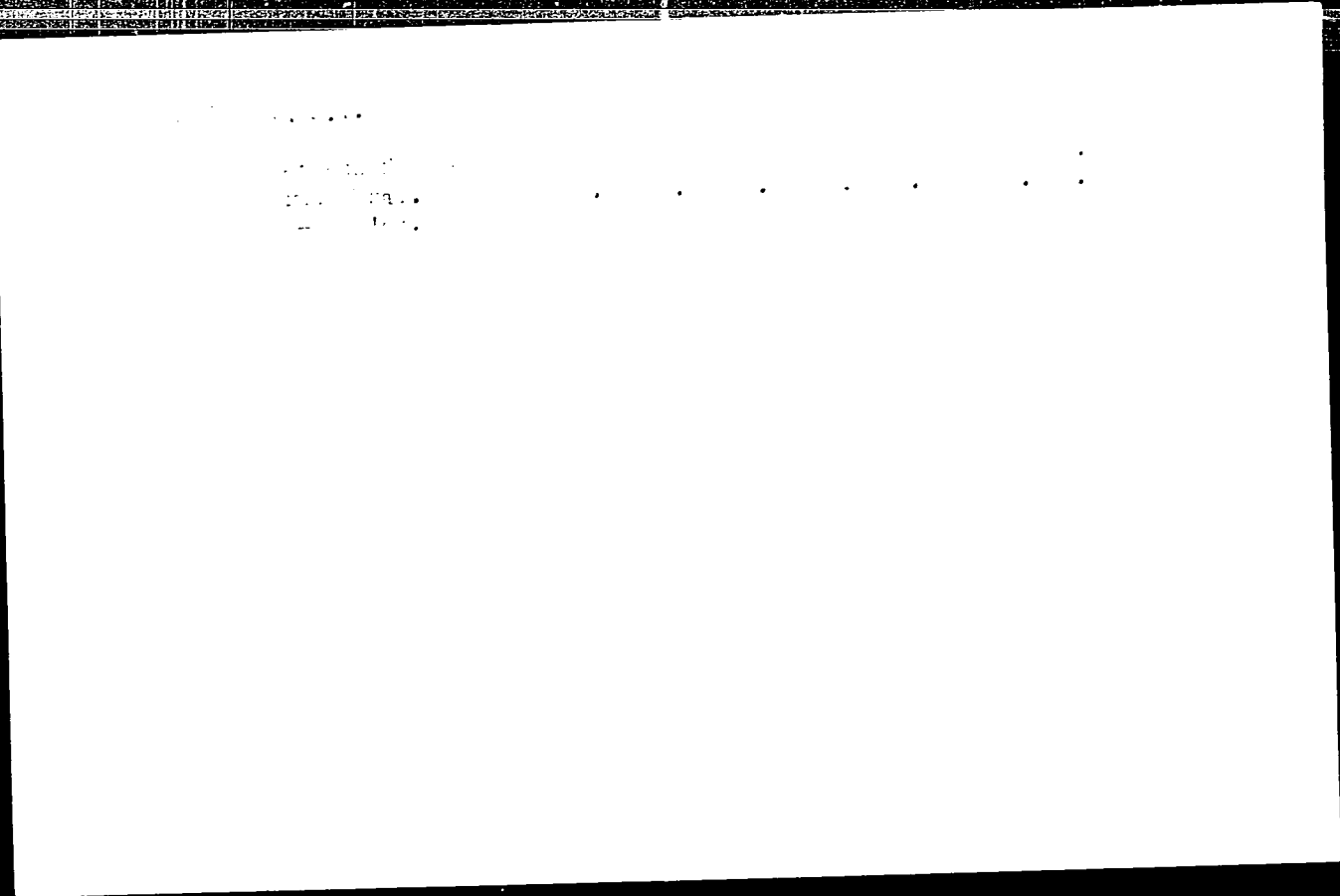
1. Kafedra elektrosvyazi UEMIT'a.
(Remote control)

FEDENEV, G.S., kand.tekhn.nauk; ROL'SHCHIKOV, Ye.P., inzh.; MITYUSHEV, S.I., dotsent; OL'KHOVOY, A.I., inzh.; TITOVA, LA., inzh.; KUTYYEV, G.M., inzh.; TREGUBOV, G.G., inzh.; ASHUKIN, D.D., kand.tekhn.nauk, retsentsent; MAKSIMOVICH, B.M., kand.tekhn.nauk, retsentsent; PETROVA, V.L., inzh., red.; VASIL'YEVA, N.N., tekhn.red.

[Mechanization and automation of information and accounting work in railroad sections] Mekhanizatsiia i avtomatizatsiia informatsionno-uchetnoi raboty na otdeleniakh zheleznnykh dorog. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va soobshcheniia, 1962. 159 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.240).

(MIFA 16:2)

(Railroads-- Management)
(Electronic Computers)



L 8328-66 EWT(d)/FSS-2

ACC NR: AT5028039

SOURCE CODE: UR/3173/63/000/008/0058/0067

AUTHOR: Mityushev, S. I. (Docent)

ORG: Ural Electromechanical Institute of Railroad Transportation Engineers (Ural'skiy elektromekhanicheskiy institut inzhenerov zheleznodorozhnogo transporta) 44,55

51
B+1

TITLE: The methods for error reduction in data transmission systems 8,44,55

SOURCE: Sverdlovsk. Ural'skiy elektromekhanicheskiy institut inzhenerov zheleznodorozhnogo transporta. Trudy. no. 8, 1963. Voprosy avtomatiki, telemekhaniki i svyazi na zheleznodorozhnom transporte (Problems in automation, remote control, and communication in railroad transportation), 58-67

TOPIC TAGS: telegraph signal, data transmission, error prediction, error minimization, data processing equipment

ABSTRACT: The reliability standards for various data transmissions systems depend on the type of service rendered. For instance, the department of computer technology of the TsNII MPS recommends, as standard unobserved error appearance probability 10^{-6} per decimal digit or $3 \cdot 10^{-7}$ per bit. In ordinary telegraphic service the corresponding standards are $5 \cdot 10^{-4}$ per telegraph sign or 10^{-4} per bit. The author developed at the Ural department of the TsNII MPS in 1961 a data transfer system using telegraphic devices. From 1963 on, the personnel of the same department developed devices for the discovery of errors, and this paper reports in detail on investigations leading to the reduction in the probabilities of unobserved errors. Results of the tests and analyses show that since the data transmitting

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L 9328-66

ACC NR: AT5028039

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circuit contains specific devices in addition to the communication channels, interference stability improvement should include all of these elements. The reduction in unobserved error probability along the entire transmission circuit can be easily solved by group protection application (using, e.g., "even" method). Consequently, in the design of transmission systems provisions should be made for group protection encompassing the entire circuit. If the communication section exhibits an error appearance probability representing a significant portion of the total error probability, the group protection should be supplemented with interference-stable codes. Orig. art. has: 20 formulas, 2 figures, and 3 tables.

SUB CODE: DP, EC / SUBM DATE: none

jw

Card 2/2

ACC NR: AR6029501

SOURCE CODE: UR/0137/66/000/006/I026/I026

AUTHOR: Mishin, D. D.; Dunayev, G. N.; Shmel'kov, A. P.; Rodnevskiy, L. A.; Mityushev, V. A.; Kuranov, A. A.; Yevdokimova, L. A.

TITLE: Effect of plastic deformation and heat treatment on the magnetic anisotropy of a cobalt-platinum alloy

SOURCE: Ref. zh. Metallurgiya, Abs. 6I176

REF SOURCE: Uch. zap. Ural'skogo un-ta Ser. fiz., vyp. 1, 1965, 60-63

TOPIC TAGS: plastic deformation, magnetic anisotropy, cobalt containing alloy, platinum containing alloy, ordered alloy

TRANSLATION: A study was made of the effect of plastic deformation and heat treatment on the magnetic anisotropy of a Co-Pt alloy, having a nearly equiatomic composition. From the curves of mechanical moments presented for samples with different deformations, it followed that with an increase in the amount of deformation a more pronounced magnetic biaxiality occurred, and an asymmetry of the potential energy diagrams was found relative to the axis of the angles. After an optimum heat treatment (heating to 1000°C and holding 3 hr and ordering at 600°C for 1.5 hr) the magnetic anisotropy almost disappeared. However, as evident in the described magnetization and magnetic energy diagrams, magnetic anisotropy was present after the ordering of cold rolled samples. (From RZh. Fiz.).

SUB CODE: 11

UDC: 669.255'231:538.22

Card 1/1

MITYUSHOV, S.I., dotsent

Device for detecting errors in telegraph transmission.
Avtom., telem. i svyaz' 9 no.3:9-13 Mr '65.

(MIKA 18:11)

1. Ural'skiy elektromekhanicheskiy institut inzhenerov
zheleznodorozhnogo transporta.

MITYUHEV, V. A.

8(2) PAGE 1 BOOK EVALUATION 26/12/66

...elektricheskoye kontaktirovaniye. Moscow, 1966.
Elektricheskiye kontaktirovaniye, (Elektricheskiye kontaktirovaniye)
... (Conference) Moscow, Gosizdat, 1965. 501 p. 4,100 copies printed.

...Priblizheniya k fizicheskim osnovam. Moscow, 1966.
... (Conference) Moscow, Gosizdat, 1965. 501 p. 4,100 copies printed.

...III. PRODUCTION OF CONTACTS AND CONTACT MATERIALS.
... (Conference) Moscow, Gosizdat, 1965. 501 p. 4,100 copies printed.

...Usov, V. V. and Ponomarev, M. D. (Moscow Institute of Physics and Chemistry)
... (Conference) Moscow, Gosizdat, 1965. 501 p. 4,100 copies printed.

...Rudnik, A. A. (Institute of Metallurgy, Academy of Sciences, USSR)
... (Conference) Moscow, Gosizdat, 1965. 501 p. 4,100 copies printed.

...Kozlov, V. I. (State of the Production and Standardization of Contacts and
... (Conference) Moscow, Gosizdat, 1965. 501 p. 4,100 copies printed.

...Discussion
... (Conference) Moscow, Gosizdat, 1965. 501 p. 4,100 copies printed.

MITYUSHEV, V. V.

"State Farm for Stag Breeding and Its Antler Production."
Sub 28 May 51, Moscow Fur and Pelt Inst.

Dissertations presented for science and engineering degrees
in Moscow during 1951.

SC: Sum. No. 480, 9 May 55

MITYUSHEVA, N.

I-4

USSR/Physiology of Plants. Mineral Nutrition.

Abs Jour: Ref. Zhur-Biol., No 1, 1958, 1164.

Author : Mityusheva, N.M., Golubovskaya, E.K., Voronova, I.K.

Inst : Leningrad State University.

Title : On the Nitrogen Content in the Juice Leguminous Plants with Nodules and Without Nodules.

Orig Pub: Uch. zap. LGU, 1956, No 216, 180-187.

Abstract: During three vegetation periods the content of soluble N was determined in the juice of lupine, kidney beans (*Phaseolus*) and chick-peas with and without nodules. Before sowing, the seeds were infected with the nodular bacteria of the corresponding plant. The juice was extracted from the roots, stalks, and leaves by Ye. I. Bazyrina's method (1951). The total N content of the juice was arrived at by Kyel'dal's micromethod. Simultaneously with the analysis of the juice, the N content in the dry material of those same parts of the lupine and kidney bean plants was deter-

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Card : 1/2

GULIN, V.S.; MITYUSHIN, A.A.

Ways to eliminate the sticking of wood shavings in the
measuring hopper. Der.prom. 9 no.1:19 Ja '60. (MIRA 13:4)

1. Moskovskiy mebel'no-sborochnyy kombinat No.2.
(Wood, Compressed)

GULIN, V.S.; MITYUSHIN, V.A.; NIKITIN, V.K.; MISSALOV, V.I.

Modernization of the rotary polishing machine. Der. prom.
10 no.8:22-23 Ag '61. (MIRA 14:8)

1. Moskovskiy mebel'no-sbornochnyy kombinat No.2.
(Grinding machines)

MITYUSHIN, F.F., kand.tekhn.nauk

Relay-contact systems with a lag and a nonlinear derivative
action. Trudy MAI no.120:30-35 '60. (MIRA 13:9)
(Electric relays)
(Automatic control)

KUCHERSKAYA, F.R.; BORISOVA, T.I.; MITYUSHIN, I.I.; IVANCHENKO, P.M., red.;
ZAITSEVA, T.M., red.; KOGAN, V.V., tekhn.red.

[Efficient methods of manufacturing blown stemware] Ratsional'nye
sposoby vyrabotki stekliannykh vydovnykh izdelii na noshke. Moskva,
Gos. nauchno-tekhn.izd-vo M-va tekstil'noi promyshl. SSSR, 1957.
51 p. (MIRA 12:3)

1. Russia (1923- U.S.S.R.) Ministerstvo legkoy promyshlennosti.
Tekhnicheskoye upravleniye. Byuro tekhnicheskoy informatsii.
2. Sotrudnik Vsesoyuznogo nauchno-issledovatel'skogo instituta
steklovolokna Ministerstva legkoy promyshlennosti SSSR (for
Kucherskaya, Borisova, Mityushin).
(Glass blowing and working)

1. IYUSHIN, Mikhail Ivanovich; S.E. Akhmedov, Ye.N., civ. eng.

(Information of the Special Intelligence and Security
of the Ministry of Defense of the USSR is classified as
Secret and is not to be disseminated outside the Ministry,
USSR, or to any other person.)

2. Information provided by M.I. K. (for Special Agents)

MITYUSHIN, N.A., kand.tekhn.nauk; KOTOV, N.F., kand.tekhn.nauk

Improving the design of bearing wooden roof elements and
prolonging their life. Stroi.prom. 27 no.6:6-9 Je '49.
(MIRA 13:2)

1. BTP Tsentral'nogo nauchno-issledovatel'skogo instituta promy-
shlennykh sooruzheniy.
(Roofs) (Building, Wooden)

MITYUSHEV, N. A.

20007 Mitjushev, N.A. i Kotov, S.I. Stat. o razvoshchivani i razvoshchivani v
govednosti berevyannykh nesushchikh konstruktsiy v krytiakh. Izv. Vuzov, 1949,
1949, No. 6, s. 6-9

CC: STATISTICAL SECTION - 20007, Moscow, 1949

PLONGYANSKAYA, M.H., laureat Stalinskoy premii, kandidat tekhnicheskikh nauk; MITYUSHIN, N.A., kandidat tekhnicheskikh nauk.

Nonshrinking glue-paste for strengthening wooden supporting members. *Biul.stroi.tekh.* 9 no.2:24-26 Ja '52. (MLBA 9:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut promyshlennykh sooruzheniy. (Glue)

S/134/62/002/006/060/232
0235/0308

AUTHORS: Nityushin, N.G., Kuz'min, I.I., and Yakovlev, Yu.A.

TITLE: Automatic temperature controllers with a semiconductor pick-up

PERIODICAL: Referativnyy zhurnal, Seriya fiziko-tekhnicheskie nauki, no. 6, 1966, p. 1000, 10 figs. Tekstil'naya prom-st', no. 3, 1961, 20-22

TEXT: The Tekstil'mashpribor factory manufactures the ADRT-3 (ADRT) two-position and the ADRT-3ADRT three-position automatic temperature controllers. These are intended for the remote control of the temperature of a gaseous or liquid medium whether or not corrosive. The engineering characteristics of the controllers are the following: temperature-control range 20-1200°C, control error 1.5%, nominal valve lift 2 mm, nominal pressure of heat carrier up to 4 kg/cm², feed voltage 220 V, 50 Hz, power consumption 100 W. The controllers consist of an electronic control device, a control valve, and semiconductor pickups. Advantages of the system are: high sensitivity, possibility of varying the width of the dead zone, Card 1/2

Automatic temperature controller ...

3/104/82/010/006/06/010
000/0308

Simple design, small linear, no gain, light of the elements, small power consumption. 4 figures. Astronaut's note: Complete translation.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134810006-7

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134810006-7

MITCHELL, M. I.

Dyes and Dyeing

Supersonic waves in dyeing textiles and cotton wool. Tekst. prom. 1, no. 1, 1961.

Monthly List of Russian Accessions, Library of Congress, November, 1961. UNCLASSIFIED

MITCHELL, M. L.

Flax

Supersonic waves in dyeing textiles and retting flax. *Text. Ind.* 12 no. 1, 1959

Monthly List of Russian Accessions. Library of Congress, November 195 . UNCLASSIFIED.

MITYUSHIN, I.I.

Sir Higher Education U.S.S.R. Moscow Institute.

MITYUSHIN, I.I. "The history of development of the principles and method of evaluating the quality of raw flax." Sir Higher Education U.S.S.R. Moscow Textile Inst. Moscow, 1956.
(Dissertation for the degree of Candidate in Technical Sciences.)

See: Knizhnaya Letopis, No. 71, 1956

MITYUSHIN, N.L., kandidat tekhnicheskikh nauk.

Nonwoven textile fabrics (from data in American journals). Tekst.
prom. 16 no.10:66-67 O '56. (MLBA 10:1)
(United States--Textile fabrics)

MITYUSHIN, N.L., kandidat tekhnicheskikh nauk.

Preparatory processes in the flax industry abroad. Tekst.prom. 16
no.11:63-66 N '56. (MIRA 9:12)
(Flax) (Retting)

MITYUSHIN, N.L., kandidat tekhnicheskikh nauk.

New foreign techniques. Tekst. prom. 17 no.5:69 My '57.
(United States--Textile industry) (MLBA 10:6)
(Germany, West--Textile industry)

MITYUSHIN, N.L., kandidat tekhnicheskikh nauk.

New foreign techniques. Tekst. prom. 17 no.5:69 My '57.
(United States--Textile industry) (MLBA 10:6)
(Germany, West--Textile industry)

MITYUSHIN, Nikolay Leont'yevich; STEPANOVA, A.A., red.; KOPELEVICH, Ye.I.,
red.; SHAPENKOVA, T.A., tekhn.red.

[Handling and sorting raw materials and finished products at
flax mills] Priemka i sortirovka syr'ia i gotovoi produktsei
na l'nozavodakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po
legkoi promyshl.. 1958. 43 p. (MIRA 12:3)
(Flax)

MITYUSHIN, N.L., kand.tekhn.nauk

Trends in the development of spinning techniques in foreign countries.
Tekst.prom. 21 no.3:74-75 Mr '61. (MIRA 14:3)
(Spinning machinery)

MERKUR'YEVA, T.K., MITYUSHIN, V.M.

Fish Culture: Trout

Heterospermial fertilization of rainbow trout. *Appl. Ichthyol.* 1957, 3:1-4.
Kandidat S.-Kh. Nauk Vsesoyuznogo Nauchno-Issledovatskogo Tsentra
Lomonosova

SO: Monthly List of Russian Accessions, Library of Congress, June 1957², Uncl.

MITYUSHIN, V.M.

Intranuclear inclusions. *Biofizika* 7 no.3:368-370 '62. (MIRA 15:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(CELL NUCLEI)

L 11/67-65 AEDC(a)/AFETR/AMD/ESD(t)
ACCESSION NR: AP4042479

s/0217/64/009/004/0503/0506 B

AUTHOR: Verevkina, I. V.; Gorkin, V. Z.; Mityushin, V. M.; El'piner, I. Ye.

TITLE: Effect of ultrasonic waves on monoaminoxidase bound to submicroscopic mitochondrion structures

SOURCE: Biofizika, v. 9, no. 4, 1964, 503-506

TOPIC TAGS: white rat, ultrasonic effect, liver mitochondrion, submicroscopic mitochondrion structure, monoaminoxidase activity, bound monoaminoxidase, piezoelectric generator, ultracentrifuge, electron microscope/ Spinko ultracentrifuge, UEM-100 electron microscope

ABSTRACT: Mitochondrion suspensions prepared from white rat livers were exposed to ultrasonic waves to demonstrate that submicroscopic membrane structures containing monoaminoxidase pass from the vibrated liver mitochondrions into the surrounding medium. The suspensions were vibrated up to 60 min by a piezoelectric generator (600 kc frequency, 10 to 12 watt/cm² intensity) and then centrifuged with a

Card 1/3

L 11167-65
ACCESSION NR: APL4042479

TsLP-1 condenser centrifuge ($t=10$) at 2,000 g (10 min) and 12,000 g (10 min). The mitochondrion sediment, partially free of ballast protein, was suspended in a 0.01 M phosphate buffer (pH 7.4). Concentration consisted of 3 to 4 mg dry mitochondrions/ml. Monoaminoxidase activity was determined by a spectrophotometric method using benzylamine as a substrate. Turbidity was measured with a FEKN-57 photoelectrocolorimeter. In additional investigations the mitochondrion suspensions were centrifuged at 105,000 g (1 hr) with a "Spinco" ultracentrifuge, and ultrathin mitochondrion sections were examined with a UEM-100 electron microscope. Findings show that the monoaminoxidase activity of mitochondrion suspensions exposed to ultrasonic waves does not differ from that of control mitochondrion suspensions. With centrifuging of vibrated suspensions at 12,000 g, monoaminoxidase activity was found mostly in the supernatant fluid. However, with ultracentrifuging of the same suspension at 105,000 g, monoaminoxidase was found in the sediment, that is, in a bound state with the submicroscopic structures. Electron microscope investigations show that the liver submicroscopic particles containing the monoaminoxidase enzyme are only 50 to 200 Angstroms. Orig. art. has: 4 figures.

Card 2/3

L 11167-65
ACCESSION NR: AP4042478

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Biological Physics Institute AN SSSR); Institut meditsinskoy i biologicheskoy khimii Akademii meditsinskikh nauk, Moscow (Institute of Medicine and Biological Chemistry Academy of Medical Sciences)

SUBMITTED: 05Mar63

ENCL: 00

SUB CODE: LS

NR FEF SOV: 004

OTHER: 004

Card 3/3

MITYUSHIN, V.M.

Biological basis of malignant growth. Vest.AN SSSR 32 no.7:118-
120 JI '62. (MIRA 19:7)
(CANCER RESEARCH—CONGRESSES)

MITYUSHIN, Vladimir Mikhaylovich; FRANK, G.M., otv. red.; KOLPANOVA, Ye.A., red. izd-va; MAKOGONOVA, I.A., tekhn. red.; KHENOKH, F.M., tekhn. red.

[Ultrastructure of the cancer cell; based on the example of the cells of Ehrlich's ascites carcinoma. An atlas] Ul'tra-struktura rakovoi kletki; na primere kletok astsitnoi kar-tisionomy Erlikha. Atlas. Moskva, Izd-vo "Nauka," 1964. 71 p. (MIRA 17:4)

1. Chlen-korrespondent AN SSSR (for Frank).

*

MITYUSHIN, M.

Electron micrographs of the ultrastructure of Ehrlich ascites carcinoma cells. "Nauka" 1964. 71 p. (MIRA 18:5)

1. Laboratoriya elektronnoy struktury Instituta fiziki AN SSSR, Moskva.

L 52372-65 EWT(1)/EWP(m)/EWA(d)/RFR/PCS(k)/EWA(z)/EWA(c)/EWA(i) Pd-1/Pi-h

WW

ACCESSION NR: AR5013465

UR/0285/65/000/004/0013/0013

SCURCE: Ref. zh. Turbostroyeniye, Otd. vyp., Abs. 4,49,80

36
B

AUTHOR: Mityushin, Yu. I.

TITLE: Compression waves in a twisted axially symmetrical flow /

CITED SOURCE: Tr. Leningr. korablestroit. in-ta, vyp. 43, 1964, 119-123

TOPIC TAGS: shock wave angle, axial symmetry, axial flow, shock tube

TRANSLATION: Certain ratios for oblique shock waves are applied to an axially symmetrical stream of gas ($M > 1$) in a cylindrical tube. V. Vakhomchik.

SUB CODE: ME

ENCL: 00

gsk
Card 1/1

MITYUSHINA, V.V.

ISTRATOV, V.N., kand. tekhn. nauk; MITYUSHINA, V.V., inzh.

Calculating short-circuit currents in airplane three-phase electric
circuits. Trudy MAI no.85:84-88 '57. (MLRA 10:9)
(Short circuits)

MITYUSHKIN, A.M.

Geological operations in the Tsentral'niy Mine. Razved.i okh.nedr
28 no.4:30-34 Ap '62. (MIRA 15:4)

1. Gosudarstvennyy vsesoyuznyy Zapadno-Sibirskiy zolotopromyshlennyy trest.
(Kuznetsk Ala-Tau--Gold mines and mining)
(Mining geology)

MILOVZOROV, Vladimir Petrovich; SOTSKOV, A.S., retsenzent;
MITYUSHIN, F.F., dots., retsenzent; BAKHMANOV, S.I.,
dots., retsenzent; BERNEVITSKIY, M.M., dots.,
retsenzent; KOROL'KOV, N.V., kand. tekhn.nauk, ret.

[Electromagnetic techniques] Elektromagnitnaya tekhnika.
Moskva, Energiia, 1962. 511 p. (MIRA 7312)

1. Chlen-korrespondent AN SSSR (for Sotskov, A.). Nauchna
vychislitel'noy tekhniki i elementov vychislitel'noy
tekhniki Moskovskogo aviatsionnogo instituta im. S. Ordho-
nikidze (for Mityushin, Bakhmanov). 2. Moskovskiy energet-
ticheskiy institut (for Bernevitskiy).

MITYUSHKIN, I.S.

Basic results of comparative tests of the Gr B-1 and B-3
hydraulic percussion machinery. Izved. 1 okn. near. 30 no.
6:23-32 de 194. (IRA 17110)

1. Zapadno-Sibirskoye geologicheskoye upravleniye.

MITYUSHKIN, I.S.; CHAYKO, Ya.M.

Drilling with submerged hydraulic percussion mechanisms.
Razved. i okh. nōdr 27 no.5:21-25 My '61. (MIRA 14:9)

1. Zapadno-Sibirskoye geologicheskoye upravleniye.
(Core drilling--Equipment and supplies)

MITYUSHKIN, K. G.

Dissertation: "Development and Investigation of Contactless Magnetic Elements for Remote Control Systems." Grad Tech Sci, Inst of Automation and Remote Control, Acad Sci USSR, Moscow, 1964. (Mechernyyaya Mekhva, Moscow, 1964, No. 2).

1: 1964, 1 Oct 1964

MITYUSHKIN, K. G.; Zhozhikashvili, V. ..

"Use of Hysteretic Magnetic Elements for the Production and Reception of Remote Control Signals" (Primeneniye gisterichesnykh magnitnykh elementov dlya obrazovaniya i priyema signalov telemekhanizatsii) from the book Telemechanization in National Economy, no. 159-162, Iz. AN SSSR, Moscow, 1956

(Given at meeting held in Moscow, 1961 by the Acad Sci USSR Inst. of Automatics and Telemechanics AS USSR)

USSR/Electronics -- Telecontrol

FD-2031

Card 1/1 : Pub. 41-17/21

Author : Zhozhikashvili, V. A. and Mityushkin, K. G., Moscow

Title : Magnetic elements with a rectangular hysteresis loop in telecontrol installations

Periodical : Izv. AN SSSR, Otd. Tekh. Nauk 4, 147-148, Apr. 1977

Abstract : Considers the need for dependable, high speed contactless impulse distributors in telecontrol engineering. Proposes magnetic elements with rectangular hysteresis loops be used. Discusses differences between telecontrol rectangular hysteresis loop distributors and computers. Defines various impulses. Schematic diagram.

Institution :

Submitted : February 19, 1977

Mityushkin, K.G.

FD-267

USSR/Automatics and telemechanics

Card 1/2

Pub. 10-4/15

Author : Khoshnashvili, V. A., and Mityushkin, K. G.

Title : Operation of counter circuits with triangular hysteresis loops in remote control devices using magnetic elements of a certain type

Periodical : AVTONOMNAYA TELEMEKHANIKA, Jan. 1968, No. 1, p. 15

Abstract : The authors consider the peculiarities of the operation of counter switching circuits using magnetic elements with rectangular hysteresis loops in remote control devices. They describe the requirements posed by remote-control devices upon those circuits which are used as pulse distributors. They describe the negative influence of parasitic pulses upon the operation of the circuit and propose a method for their elimination. They consider variants of the distributor circuits based on elements with rectangular hysteresis loops, which create the possibility of contactless rapid action distribution. Four references. USSR

FD-267

Card 1/2

(V. M. Tutevich and V. A. Zhovhikashvili. Commutator executed on the basis of magnetic elements with rectangular hysteresis loop. Radiotekhnika, No. 1, 1957, and West (e.g. A. Wang, "Magnetic storage and delay line," J. Appl. Phys. 19.0; J. Rajshman, "Magnetic core matrix memory," Proc. IRE, 1953; E. Sands, "Behavior of rectangular hysteresis loop magnetic materials under current pulse conditions," Proc. IRE, 1952).

Institution :

Submitted : April 5, 1955

SOV/112-57-5-10844

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5, p 181 (USSR)

AUTHOR: Zhovhikashvili, V. A., Mityushkin, K. G.

TITLE: Application of Hysteretic Magnetic Elements for Formation and Reception of Remote-Control Signals (Primeneniye gisterezisnykh magnitnykh elementov dlya obrazovaniya i priyema signalov teleupravleniya)

PERIODICAL: V sb.: Telemekhaniz v nar. kh-ve. M., AS USSR, 1956, pp 159-162

ABSTRACT: Methods are considered for formation of remote-control signals of amplitude and time pulse types. A method is described for forming longer intervals by counting a definite number of pulses; a corresponding circuit diagram and an operation oscillogram are presented. Signal reception by controlling input or output circuits of a distributor is examined. A circuit for controlling a distributor in case of a time-pulse code and an oscillogram are presented. Possibilities of practical realization of contactless remote-control systems using rectangular hysteretic loop distributors operating at a rate up

Card 1/2

MITYUSHKIN, K.G.

5
1-4E4

311 ON THE DESIGN OF ELECTRIC MAGNETIC RELAYS IN
CIRCUITS WITH CAPACITORS *M.M. and K.G. Mityushkin*
Elektrichestvo, 1957, No. 4, 35-8 In Russian.

A procedure is developed for the optimum design of protection relays operated by the discharge of a capacitor through the relay winding. The relationships between the magnetizing force of the relay due to the discharge current and the basic parameters of the circuit, the applied voltage, the capacitance and the number of turns, is found for both periodic and aperiodic working. The initial formulas are obtained from cited works. An example is calculated.



MITYUSHKIN, K.G.

109-8-11/20

AUTHOR
TITLE
SUBJECT
ABSTRACT

MITYUSHKIN, K.G., *conn. techn.*
Magnetic Frequency Divider
(Magnitnyy delitel' chastoty. Russian)
Elektrichestvo, 1957, No. 2, pp 13-14 (U.S.S.R.)

No analytic investigation of the differential equation of the magnetic divider is given, but only the qualitative part of the problem is investigated here. The correctness of the statement concerning the parametric character of one oscillation in the magnetic frequency divider is illustrated. A qualitative construction of the working-point trajectory is given, in order to obtain approximate conditions for the self-excitation of paramagnetic oscillation. Paramagnetic oscillations can only exist, if the energy supplied by the feed source into the circuit is greater than the loss of energy during that time. The greatest current intensity I_{max} is obtained, if the capacity quantity of the oscillatory circuit is equal to the average autooscillation frequency of the circuit, which equals about half of that of the feed source. A stabilized frequency division is conserved in sufficiently wide limits of the variation of the capacity. The quantity of the magnetic divider current under otherwise equal conditions, depends on the quantity of the magnetizing current. If the loading resistance is smaller than the critical one and if there exists a small current intensity of the magnetic

AUTHORS: Zhozhikashvili, V. A., Mityushkin, K. G., SOV 70-2-15-11
Candidates of Technical Sciences

TITLE: Contactless Devices for Remote-Control Telecommunication (Beskon-
taktnyye ustroystva teleupravleniya-telesignalizatsii)

PERIODICAL: Vestnik Akademii nauk SSSR, 1950, Nr 6,
pp. 74 - 76 (USSR)

ABSTRACT: The Laboratory for Remote-Control of the Institute for Auto-
matics and Telemechanics, AS USSR (Laboratoriya teleupravleniya
Instituta avtomatiki i telemekhaniki Akademii nauk SSSR), in
collaboration with the Laboratory for Telemechanics of the Central
Electrotechnical Scientific Research Laboratory of the Ministry
of Electric Power Plants (Laboratoriya telemekhaniki Tsentral'noy
nauchno-issledovatel'skoy laboratorii Ministerstva elektrostaniy,
developed contactless remote control systems for sporadic and
continuous operation, the main appliance of which consists of
magnetic impulse elements with rectangular hysteresis loop. Power
is supplied from the a.c. mains with industrial frequency. These
devices are able to operate without any substantial modifications
with frequencies of 25, 150, and 450 cycles per second, in which
case voltage fluctuations of the supply current up to ± 15 to 20%

Card 1/2

Contactless Devices for Remote-Control Telecommunication-307,35-58-6-11,45
tion

are permissible. The block diagram of a telecommunication device for sporadic operation is shown in figure 1 and it is subsequently fully described. A similar device was put into operation in the Mosenergo-system. The diagram of a remote-control telecommunication system for continuous operation is shown in figure 2 and followed by a description. A complex remote-control system which carries out the control, signalization and telemetering of a series of parameters by means of a cable pair can be obtained by using the described device together with the impulse-frequency telemetering device developed by the Institute for Automatization and Remote Control. It is judged advisable to work out also more complicated systems of such devices. There are 2 figures.

1. Communications systems--USCR
2. Remote control systems--design.

Card 2/2

80442

30V/112-60-2-4.1029

13.4000

Translation from: Referativnyy zhurnal Elektrotehnika, 1960, Nr 2, p 216
(USSR)

AUTHORS: Zhozhikashvili, V.A., Mityushkin, K.G.

TITLE: Noncontact Telecontrol and Remote Signal System Devices on Magnetic Elements

PERIODICAL: Tr. Vses. n.-i. in-ta elektroenerg., 1958, Nr 7, pp 56 - 77

ABSTRACT: The problems of raising the technical and operational characteristics of telecontrol (TC) - telesignal (TS) devices are discussed. It is pointed out that from this viewpoint the use of the noncontact equipment is very rational in tele-mechanical installations, because this equipment makes it possible to solve the problems of higher reliability, speed of operation and liquidation of attendance. TC-TS devices constructed by TsNIEL with the use of magnetic amplifiers and magnetic elements with a square hysteresis loop are briefly described. Two TC-TS devices of sporadic action built according to the distributive principle with a time selection are described.

Card 1/2

4

80442

30V/112-60-2-4.1029

Noncontact Telecontrol and Remote Signal System Devices on Magnetic Elements

In the first device magnetic amplifiers³⁵ operating by the relay principle are used as output elements, and telephone selectors are used as distributors. In the second device distributors are built on magnetic elements with a square hysteresis loop. The device is fed with an alternating voltage of 25 cycles from a frequency divider. Starting devices are of a transformer type. The selection interval is created by stopping for the desired time the transmission of the distributors pulses from the controlled point into the line. A TC-TS device of a continuous, cyclic action with a possibility of a two-way transmission, command and information series in one cycle of switching over the distributor is described. The distributor is built on magnetic elements with a square hysteresis loop and magnetic amplifiers are used as output elements. The selection is performed by transmitting a command pulse on the desired step of the distributor. To secure the synchronization of distributors a common alternating current network is used for both the control and controlled points. The pulses from these points are shifted in the line through 180° on account of using different AC halfwaves for the movement of distributors. 12 illustrations, 2 references.

Card 2/2

V. Ye Kh.

4

ZHOZHAKASHVILI, V.A., kand.tekhn.nauk; MITYUSHKIN, K.G., kand.tekhn.nauk

Single-cycle pulse distributor using elements with a rectangular
hysteresis loop. Trudy VNIIE no.7:131-149 '88. (MIRA 1c:12)

MITYUSHKIN, K.G., kand.tekhn.nauk

Magnetic frequency divider. Trudy VNIIE no.7:157-172 '52.
(MIRA 16:12)

1111 1111

AUTHORS: (b) (7) (C) [Name obscured] 163-1-6/10

TITLE : Relay phenomena in circuits including magnetic cores with a square hysteresis loop. (Russian title: skhemakh, sudershatykh s magnitnyimi yadryami s pryamougol'nymi kharakteristikami)

PERIODICAL: Avtomatizatsiya Telemekhaniki, 1963, Vol. 11, No. 1, pp. 44-74 (USSR)

ABSTRACT: In this paper relay phenomena are considered, which occur in schemes with magnetic cores (with a square hysteresis loop) and a positive feedback. The static characteristics and the character of transition processes caused by a variable widely repeated exist in the effects of these schemes are subjected to analysis. It is shown that in relayschemes with magnetic cores and with stable states, generally speaking, and that the transition from one stable state to another takes place at a definite value of the control current by the variation of the current. This effect is caused by the amplifying effect of the cores and the existence of a positive feedback. It is shown, that the stable states, which correspond to the states II and III...

Card 1,3

Relay Phenomena in Circuits Including Magnetic Cores With a Square Hysteresis Loop 163-1-6/10

the initial voltage) and $I_{detention} (U_{detention} < U_{V1} < U_{V2})$ ($U_{detention}$ denoting the voltage, at which the scheme passes from the excited to the not excited state, U_{V1} and U_{V2} denoting the voltages in the feeding circuit corresponding to the transition into the first and the second excited state respectively) may be used in the case, when it is desired to obtain commutating computing appliances which operate with a foreign excitation (domain I) and with self-excitation (domain II).- It is shown, that a relay-scheme consisting of ideal cores ($H_{core} = 0$) is incapable from principal considerations to remain in a not excited state on the condition $k > 1$, because an arbitrarily small excitation will conduct the scheme into an excited state. k denotes the coefficient of transmission, (amplification) of the flux. If this value is greater than one, the quantity of flux modification and the value of pick-up time lag in every subsequent half-period increase, if it is less than one, these two values decrease. It is further shown, that a scheme consisting of real cores ($H_{core} \neq 0$) can be drawn from the

Card 2/3

Relay Phenomena in Circuits With Square Hysteresis Loops in Magnetic Cores With a Square Hysteresis Loop 105-1-10

not excited state on the condition, that the exciting effect of the signal or of the disturbance causes a magnetisation, which exceeds a certain threshold value B_{min} denoting the minimum magnetisation of the induction on a response of the core. There are 11 figures, and 1 reference, 1 of which is Slavic.

SUBMITTED: March 11, 1957

AVAILABLE: Library of Congress

1. Electric relays-Analysis
2. Electrical equipment-USSR

Card 3/3

MIYUSHKIN, K. G. and ZHOZHNEKSPVIII, V. A.

"The Application of Contactless Magnetic Elements in Remote Control Devices," pp 29-48, ill, 2 ref

Abst: The properties of contactless magnetic elements are considered and the advantages of their application in remote control devices are noted. The results of the experimental operation of the first unit (TCH-TS) have shown that the use of such elements has significantly improved the basic technical and operational characteristics of TCH-TS devices (reliability of operation, transmission speed, and the elimination of maintenance equipment). Wide introduction of contactless elements in telemechanics practice is recommended.

SOURCE: Materialy Nauchno-Tekhnicheskoy Konferentsii po Obmenu Opytom Eksploatatsii Ustroystv Telemekhaniki i Svyazi Nauchn-Tekhn. O-va Energet. Prom-sti. (Material From the Scientific and Technical Conference on Exchange of Experience in the Operation of Telemechanics and Communications Devices of the Scientific and Technical Society of the Power Engineering Industry), Rostov, 1957.

Sum 1854

TABLE I BOOK EXPLOITATION 807/3781

Материалы науч. ISSN. Институт автоматич. и телемеханики
 Программирование телемеханики (Industrial Telemechanics) Moscow, 1960.
 284 p. Extract slip inserted. 4,000 copies printed.

Resp. Ed.: M.A. Gavrilov; Ed. of Publishing House: Ye. N. Orizgor'eva;
 Tech. Ed.: M.O. Shevchenko.

PURPOSE: This collection of articles is intended for scientific
 workers and engineers in the field of telemechanics.

COVERAGE: The book contains studies completed in 1957 by the
 workers of the Institut avtomatich. i telemechaniki AN SSSR
 (Institute of Automation and Telemechanics, particularly con-
 USSR). It includes telemechanics equipment, particularly con-
 trol systems and systems for distributed equipment; the
 systems of telemechanics signal systems; problems of bridge
 testing in relay circuitry; test methods of synthesizing
 relay circuitry using control theory components. No particularities
 are mentioned. Most of the articles are accompanied by references.

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Milk, R.V. Remote Signal System Using Polarized Relays 260

Andulayev, D.A. Remote Signaling in Telemechanics Systems
 With Distributed Control Points 277

AVAILABLE: Library of Congress (TF 233.A325)

Card 4/4

Mityushkin, K.G.

20103



Contactless switches with

with a single-way element... of the pulse distributor with... (one core... phase). In Fig. 4, a single-way... parameters of one specific magnetic element... technically with the assembly... resulting hysteresis... tions are in satisfactory agreement with... single magnetic element with... calculating magnetic... therefore also be used... with EMI cores. The... between distributor and the output... omitted if pulse distributor with... control systems with time-separated... network of 50 cps is used as... tables and 4 Soviet... references

SUBMITTED. May 1964

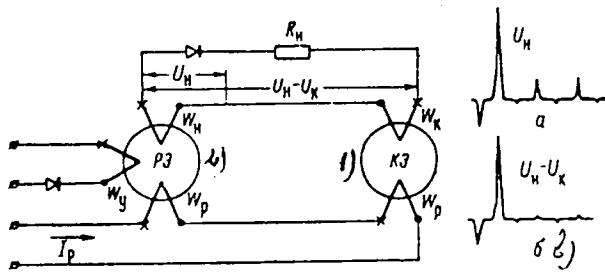
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E110/B200

Contactless switches with ...

Legend to Fig. 2:
 W_p - power windings,
 W_y - control winding,
 W_H, W_K - load- and
compensation winding,
respectively,
 R_H - load resistor.



Card 3/11

20753

S/103/61/022/003/008/008
B116/B209

Contactless switches with ...

Legend to Fig. 3:
5) Compensating element, 6) to the odd elements, 7) to the even elements, 8) from pulse generator.

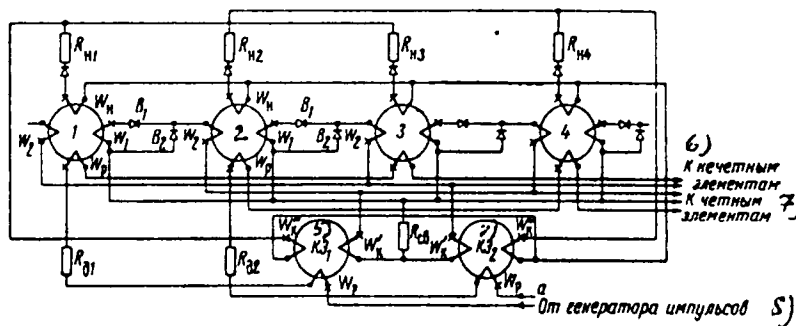


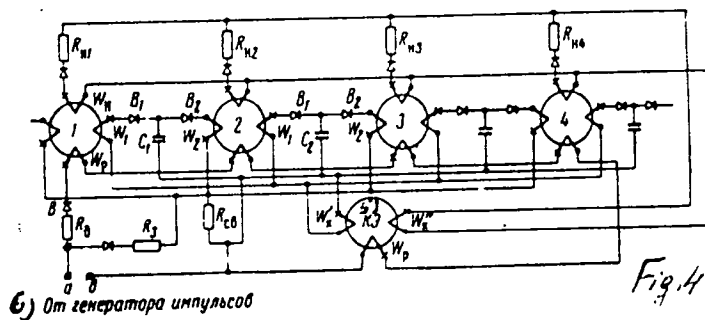
Рис. 3

Card 4/11

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B1-6/3209

Contactless switches with ...

Legend to Fig. 4:
5) Compensating
element, 6) from
pulse generator.



Card 5/11

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S/103/61/022/003/008/008
B116/3209

Contactless switches with ...

Legend to Table 2: Parameters of the pulse distributors with cores of E310-type steel. 1) Type of pulse distributor, 2) data of the windings, 3) parameters of the circuit, 4) type of current supply, 5) parameters of the pulse, 6) output pulses, 7) double-way connection (Fig. 3), 8) single-way connection, 9) PELShO, 10) multivibrator with amplifier, 11) net with technical frequency of 50 cps, 12) ferroresonance pulse source (Fig. 9), 13) current in the power winding after remagnetization, 14) length of the working pulse, 15) idling current, 16) see Fig. 10, 17) see Fig. 11 a, b, c, 18) see Fig. 12. * - the lowest and highest resistances given. ... - the winding W_H is combined with winding W_1 .
... - the output of the pulse source is connected to the terminals c, b of the pulse distributor (Fig. 4). The bridge ac is taken off.

Card 6/11

20753
 S/103/61/022/003/008/008
 B116/B209

Contactless switches with ...

№ п/п	4) Тип РИ	5) Обмоточные данные				
		W _р	W ₁	W ₂	W _н	W _к
1	7) Двухходовая схема (рис. 3)	100	200	50	250	200
		250	250	250	250	250
8) 0,41 мм ПЭЛШО						
2	8) Одноходовая схема (рис. 4)	250	700	450	700**	—
		50	0,25 мм	0,14 мм	—	0,14 мм
9) ПЭЛШО						
3	•	50	500	500	500**	500
		10) 0,19 мм ПЭЛШО				



Card 7/11

Contactless switches with ...

3) R _{св.} ом	4) Параметры схемы				5) Тип источника питания
	R _{св.} ом	R _{л.} ом	R _{г.} ом	R _{н.} ом	
20+50	—	10	—	4	10) Мультипликатор с усилителем
2000+ +4000	2	100	2400	>300	11) Сеть промышленной частоты 50 гц
1000+ +4500	1	7	0	>300	12) Феррорезонансный источник импульсов (рис. 9) ***

Card 8/11

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B116/B209

5) Параметры импульса движения	6) Выходные импульсы
13) I _{рп} = 2,5 а 14) t _н = 6 мсек	16) см. рис. 10
13) I _{рп} = 1,2 а 15) I _{рсп} 0,4 а	17) см. рис. 11, а, б, в, г, д, е
U _~ = 100 в 13) I _{рп} = 3 а 14) t _н = 1,5 мсек	18) см. рис. 12

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3/103/61 122 003 109 009
B*16,2209

Contactless switches with ...

Legend to Fig. 9: Pulse source.
E310-steel core, $d_H = 60$ mm,
 $d_{BH} = 40$ mm, $W_H = 1200$ turns,
conduction wire of a diameter of
0.35 mm, $C = 6 \mu F$, $R' = 0.7$ ohm.

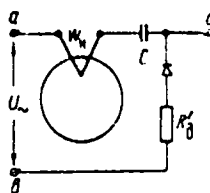


Fig. 9

Legend to Fig. 10: Output pulse in the double-way connection of the pulse distributor according to Fig. 3 (load current $R_H = 40$ ohm).

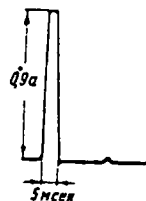


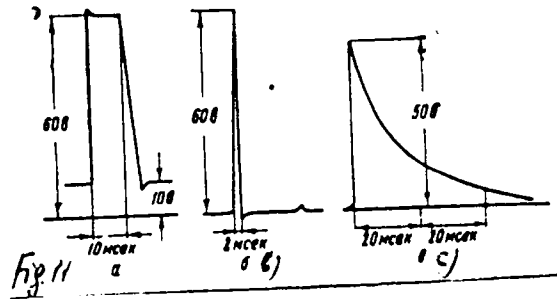
Fig. 10

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B116/B209

Contactless switches with ...

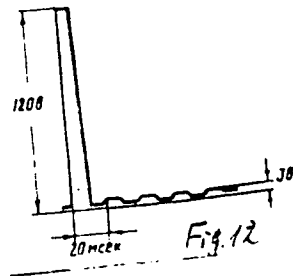
Legend to Fig. 11:
Pulse oscillograms
from single-way connection
of the pulse distributor
(Fig. 4). a) Voltage
across the capacitor C_{CB} ,
b) voltage across the load
 $R_H = 2300$ ohm, c) voltage
across the load $R_H =$
 $= 6000$ ohm and across the
capacitance $C_H = 2 \mu F$
which is connected in
parallel.



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S/03/61/222/003, 08/008
B116/2209

Contactless switches with ...

Legend to Fig. 12: Output pulse for single-way connection of the pulse distributor according to Fig. 4 (voltage across the capacitor C_{CB} for $R_H = \infty$).



X

Card 11/11

GORSHKOV, S.V., inzh.; MITVUSIKIN, S.V., inzh. 1963. 10.11.

Pulse-type control device for regulation of the ...
TITLE no. 17:06-02-113.

SILIK, N.V.; ZHYZHIKASHVILI, V.A.; MITUSHENIK, K.G.;
KANGICHVILI, I.I.; GILSOV, B.S., otv. red.

Contactless elements and remote control systems with
time division of signals, desk starting elements in si-
gnal transmission systems and remote control systems.
(MIRA 1974)

... (MIRA 1974)

MITYUSHKIN, K.G., kand. tekhn. nauk

Principal characteristic and networks of remote control systems
developed by the All-Union Scientific Research Institute of Electronic
Systems. Trudy VNIIE no. 17:5-33 1963. (USSR 1963)

GORSHKOV, S.V., inzh.; MITYUSHKIN, K.I., kand. tekhn. nauk

Distance-type contactless remote control devices for power system
dispatcher control stations. Trudy VNIIE, n. 19:33-40, 1974.

L 41843-65 EWT(1)/EEC(k)-2/T/EEC(b)-2/EMA(h) Pm-4/Pz-6/Feb IJP(c)

ACCESSION NR AM5004024

BOOK EXPLOITATION

Bilik, R. V.; Zhozhiakashvili, V. A.; Mityushkin, K. G.; Prangishvili, I. V.

Contactless elements and systems of telemechanics with time divisions of signals (Beskontaktnyye elementy i sistemy telemekhaniki s vremennym razdeleniyem signalov), Moscow, Izd-vo "Nauka", 1964, 415 p. illus., biblio. Errata slip inserted. 4,000 copies printed.

TOPIC TAGS: automation, telemechanics, magnetic hysteresis element, semiconductor element, pulse generator, contactless magnetic relay

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- Ch. XIV. Reliability of the TU-TS contactless systems -- 398
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NO REF SOV: 0714

OTHER: 0114

APPROVED FOR RELEASE: 06/14/2000

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L 23901-66 EMT(d)/EWP(1) IJP(c) BC

ACC NR: AP6009847

SOURCE CODE: UR/0413/66/000/004/0038/0038

AUTHOR: Mityushkin, K. G.; Ambrosovich, V. D.; Klemin, V. A.; Gorshkov, S. V. 48
B

ORG: none

TITLE: A cyclic device for remote control and signalling. Class 21, No. 178882 [announced by the "Elektropul't" Plant (Zavod "elektropul't") and the All-Union Scientific Research Institute of Power Engineering (Vsesoyuznyy nauchno-issledovatel'skiy institut energetiki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 38

TOPIC TAGS: remote control, telemetry, cyclic coding, electronic circuit

ABSTRACT: This Author's Certificate introduces: 1. A cyclic unilateral (simplex) action device for remote control and signalling with pulsed time marks. The unit consists of two subassemblies for remote control and signalling. On the transmission side of each of these sets is a pulse generator, distributor, coder, time code shaper, linear unit and a unit for frequency-division channel multiplex. On the receiving side are a unit for frequency-division multiplex, amplifier, shaper, decoder, distributor, pulse duration selectors, a unit for authorizing actuation and individual output control relay units. On the transmission side of the cyclic unilateral (simplex) action remote signalling device are a distributor, an automatic triggering device, a coder,

Card 1/3

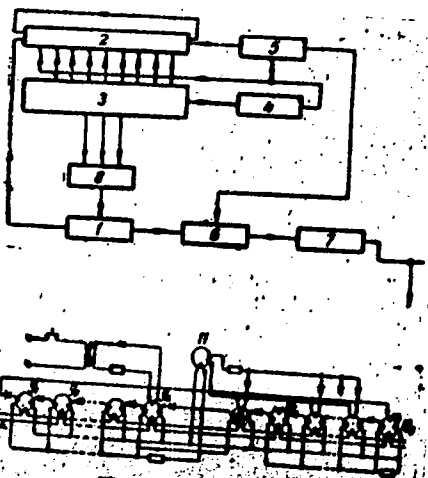
UDC: 621.398

654.04

L 23901-66
ACC NR: AP6009847

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001134810006-7



1--pulse generator; 2--pulse distributor; 3--control panel; 4--command acceleration unit; 5--discharge unit; 6--linear unit; 7--frequency-division multiplex unit; 8--time code shaper; 9-10 and 10₁-10₂--distributor elements; 11--blocking cell.

time code shaper, linear unit, frequency-division multiplex, and on the receiving side are a frequency-division multiplex unit, amplifier, shaper, distributor, decoder, pulse mark duration selectors, reception accuracy control unit and individual output signalling relay unit. In order to prevent indefinite delay during transmission of remote control commands due to the necessity for resetting the distributor to the initial state, a command acceleration unit is used in the remote control device. The input of this unit is connected to the output of the coding unit and the first output of the coding unit is connected to the input of the first cell of the distributor while the second output is connected through a discharge circuit to the input of the coupling circuit for the distributor. 2. A modification of this device in which false signals are eliminated

Card 2/3

ACC NR:

AT6022312

SOURCE CODE: UR/0000/66/000/000/0071/0075

AUTHOR: Mityushkin, K. G.; Prangishvili, I. V.

ORG: none

TITLE: Determining the reliability of remote control systems

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya telemekhaniki. Doklady. Moscow, 1966, 71-75

TOPIC TAGS: remote control, automatic control theory, system reliability

ABSTRACT: Most remote control systems, which operate without redundant control elements, have a sequential reliability structure. Each element in such a system can be described by some degree of importance or rank. If a failure of any of the given elements has no effect on the normal functioning of the system, then that element is characterized by a rank equal to zero; if, however, the failure of any given element causes the entire system to fail, then that element is characterized by a rank equal to 1. Intermediate values of ranks $0 < W_i < 1$ are determined for those elements whose failures only reduce, in the corresponding manner, the quality of operation of the entire system. Formulas are derived for determining the information weight, that is, rank of individual elements, and the probability of trouble-free operation of a central system. Orig. art. has: 11 formulas.

SUB CODE: 13/ SUBM DATE: 24Mar66

Card 1/1

MITYUSHKIN, T.S.; TATUR, S.K., doktor ekonom.nauk, red.; SULKOVSKAYA,
M.A., red.; ORLOVA, V.V., tekhn.red.

[Analysis of the economy of machine-tractor stations] Analiz
khoziaistvennoi deiatel'nosti MTS. Pod red. S.K.Tatura. Moskva,
Ios.izd-vo sel'khoz.lit-ry, 1947. 247 p. (MIRA 13:1)
(Machine-tractor stations)

MITYUSHKIN, T.

20032

USSR/Machine-Tractor Stations 4106.

Jan 1947

"Concerning the Method of Analyzing Financial Accounts,"
T. Mityushkin, Dir Cent Accounts, Ministry Agr USSR,
7 pp

"MIS" Vol VII, No 1

Analyzes monthly financial account of Petrovsk MTS,
Stavropol' Kray, for Jul 1946 with particular emphasis
on credit accounts opened for fuel and lubricants, re-
pairs, and salaries. Discusses quarterly accounts and
proper utilization of credits.

LC

MITYUSHKIN, T.

20633

USSR/Machine-Tractor Stations 4106.

Oct 1947

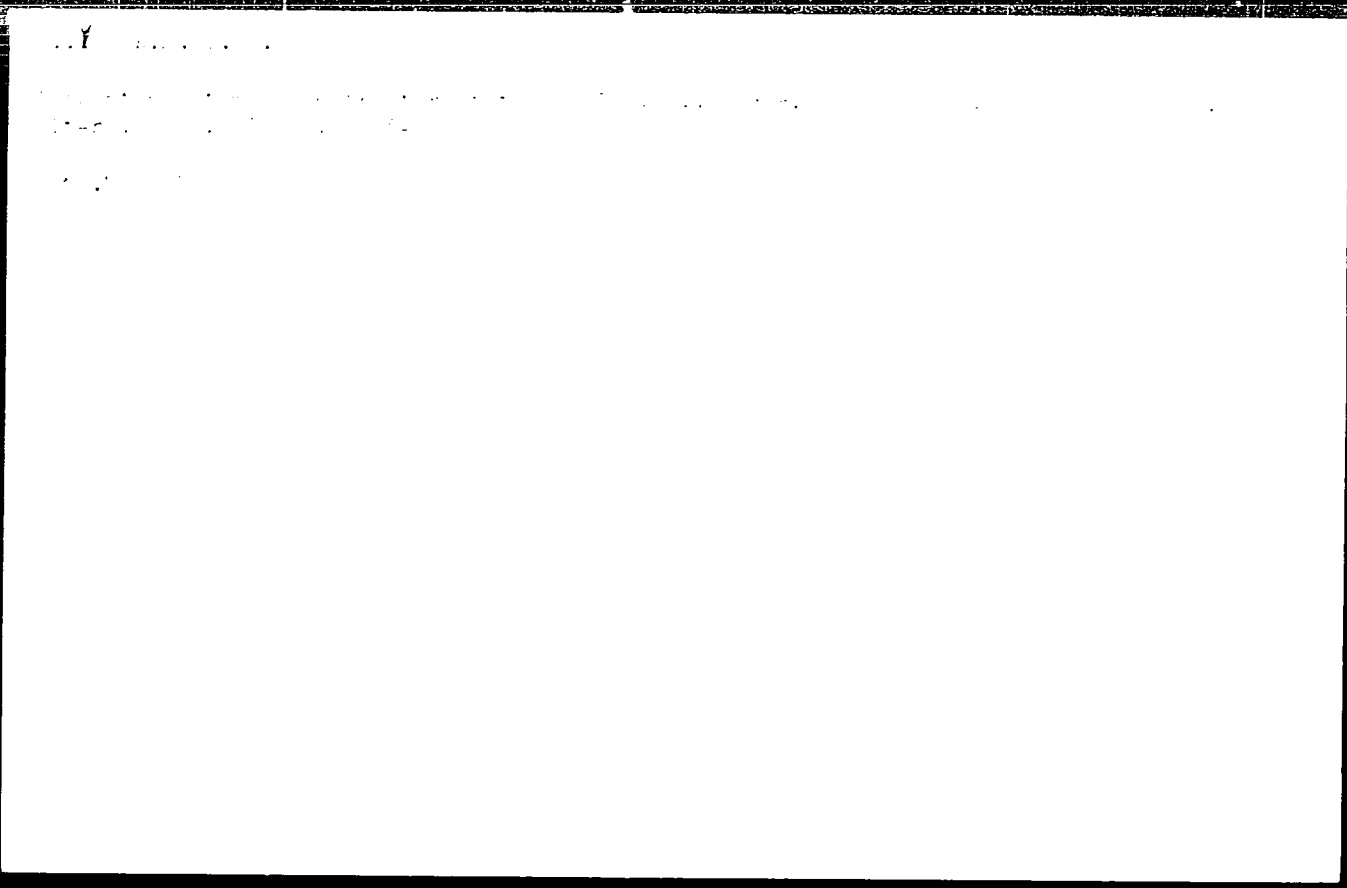
"Concerning the Plan for Payment in Money and Kind for Tractor Work," T. Mityushkin, 4 pp

"MTS" Vol VII, No 10

Decree of Soviet of Ministers of USSR, 10 May 1947, established rates for payment in kind based on yields and time for MTS to service collective farms. On 15 May 1947 Ministry of Agriculture of USSR issued decree establishing differential rates of payment in kind to MTS depending upon types of services rendered for grain cultures and sunflowers. Gives examples of decree in operation.

LC

20033



July 11, 1951.

Dear Mr.

When I was in the State Department, I was in charge of the

United States Information Agency, Library of Congress, and the

MITYUSHKIN, T.S.

[Accounting in machine-tractor stations] bukhgalterskii uchet v
MTS. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1955. 366 p.

(MIRA 15:6)

(Machine-tractor stations--Accounting)

MITYUSHKIN, Timofey Sergeyevich; KURINA, Ye.A., redaktor; FURMAN, G.V.,
tehnicheskii redaktor

[Analyzing the economic management of collective farms] Analiz
khoziaistvennoi delatel'nosti kolkhov. Moskva, Izd-vo "Znanie,"
1956. 39 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politiches-
skikh i nauchnykh znani. Ser. 8. Ekonomika sel'skogo khoziaistva,
ryp.2, no.4) (MLR 9:9)

1. Glavnyy bukhgalter Ministerstva sel'skogo khozyaystva SSSR
(for Mityushkin)
(Collective farms--Accounting)

TOLYPIN, Yuriy Mitrofanovich; ~~MITVUSHKIN, A.S.~~ nauchnyy redaktor;
BRWZANOVSKAYA, L.Ya, redaktor; YUSFINA, N.L., tekhnicheskiy redaktor

[Business accounting and net cost at machine-tractor stations and
on collective farms] Khozraschet i sebestoimost' v MTS i kolkhozakh.
Moskva, Gos. izd-vo kul'turno-prosvetit. lit-ry, 1956. 74 p.
(Bibliotechka v pomoshch' lektoru, no.22) (MIRA 9:12)
(Machine-tractor stations--Accounting)
(Collective farms--Accounting)

MITYUSHKIN, T.

Accounting in agriculture. Bukhg.uchet 14 no.11:23-31 N '57.
(MIRA 10:11)

(Agriculture--Accounting)

MITYUSHKIN, Timofey Sergeyevich; TATUR, S.K., doktor ekonom.nauk, red.;
LAPIDUS, M.A., red.; PEVZNER, V.I., tekhn.red.; TRUKHINA, O.N.,
tekhn.red.

[Analysis of the economic aspects of socialist agricultural
enterprises] Analiz khoziaistvennoi deiatel'nosti sotsialisti-
cheskikh sel'skokhoziaistvennykh predpriiatii. Pod red. S.K.
Tatura. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 279 p.
(MIRA 13:11)

(Agriculture--Accounting)

MITYUSHKIN, Timofey Sergeyevich; PANIN, N.S., red.; PONOMAREVA, A.A.,
tekh. red.

[Uniform accounting system in agricultural enterprises] Edinaya
sistema ucheta v sel'skokhoziaistvennykh predpriyatiyakh. Mo-
skva, Ekonomizdat, 1963. 295 p. (MIRA 16:5)
(Agriculture--Accounting)

MITYUSHKIN, T.S., kand. ekon. nauk; SUBBOTIN, V.I.; DVOYAKH, E.Ya.;
TUKHANOVA, A.N., red.; GRIZNEVSKAYA, K.M., red.

[Accounting on collective farms] Sakhgalterskii uchet v
kolkhozakh. Moskva, Statistika, 1964. 226 s.
(1) (A. P. 1)

VAR'YEV, V.I.; MITYUSHKIN, V.G.; KONONENKO, I.V.

Experience in the operation of power supply plants in a factory.
Koks i khim. no.11:59 '63. (MIRA 16:12)

1. Yasinovskiy koksokhimicheskiy zavod.

MIYUSHIN, T.M. (Norskva, D-7, K. rosnovskiy ...)

Some ...
No. 1. Voproski ...

1. Iz ...
korrespondent ...
AN ...

MITYUSHKIN, Yu.: DUYLOVSKIY, I.

Introduce progressive practices in winter operations. Stroitel'
no.10:9 0 '60. (MIRA 13:9)

1. Glavnyy mekhanik tresta Stalinshilstroy-1 (for Mityushkin).
2. Mariyskiy bumazhnyy kombinat (Volzhsk) (for Duylovskiy).
(Building--Cold weather conditions)

06/14/2000 11:14

4(6), 14(6)
AUTHOR:

Mityushkin, Yu.I., Engineer

TITLE:

The Problem of the Theory of a Turbine Stage without a Radial Static Pressure Gradient in the Gap Between the Rims

PERIODICAL:

Izvestiya vysshikh inzhenernykh uchebnykh zavedeniy. Energetika 1958, Nr 10, pp 36-44 (USSR)

ABSTRACT:

In this paper the author explains the theory of a turbine stage without a radial pressure gradient in the gap between the working rims. From the viewpoint of design a turbine stage having a cylindrical flow in the working rim [at $(grad P_r)_r = 0$] is more suitable than a stage with a practically constant degree of reactivity, achieved by profiling the limiting surfaces with constant-profile blades. A diagram of a cylindrical flow turbine stage is shown in figure 1. The author mentions in this connections experiments in this field performed at the Khar'kovskiy politekhnicheskii institut imeni V.I. Lenine - KhPI (Khar'kov Polytechnic Institute imeni V.I. Lenin). Further he explains

Card 1/4

06/14/2000 11:14

The Problem of the Theory of a Turbine Stage without a Radial Static Pressure Gradient in the Gap Between the Rims

the theory of a turbine stage having a constant dynamic reactivity degree according to the theory of a stage with a conical flow in the working rim. He considers the theory of a combined turbine stage with a cylindrical flow in the working rim and $\frac{dp_r}{dr} = 0$.

is shown in figure 1. Presently there are many different methods of profiling long blades for turbine stages with cylindrical flow. Some of the methods are based on certain physically correct assumptions of the rational flow structure in a stage. However, a considerable number of suggested methods is based on the al properties of the initial differential equations obtained by a combined solution of the equations of energy, state and radial equilibrium, assuming the final condition $\frac{dp_r}{dr} = 0$. In this case a great number of solutions is possible, satisfying the boundary condition. Only an insignificant number of them will meet the requirements for a rational design.

Card 2/4

26.2120

37504
31/10/1958
A44/A

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 12, p. 81, # 1000

AUTHOR: Mityushkin, Yu.I.

TITLE: On the Problem of Flow of an Inviscid Compressible Fluid in a Turbine Stage

PERIODICAL: Tr. Leningr. korablestroit. inst-a, 1958 (1959), No. 23, pp. 33-42

TEXT: The author considers a linear stationary axisymmetric stream, whose flow surfaces are one-sheet hyperboloids of revolution of the inviscid compressible fluid in the axial turbine stage. Its guide vanes are established in such a manner that their outlet edges coincide with the radial direction. Hereafter, the losses and mass forces are neglected. The fundamental kinematic correlations are derived, characterizing the hyperbolic stream, and it is pointed out that a stream is isentropic in the absence of the axial velocity. Moreover, the vectors of velocity and velocity curl are coplanar to it. Moreover, a method is

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8(6), 14(6)
AUTHOR:

Mityushkin, Yu.I., Engineer

SOV/143-59-6-12/21

TITLE:

A Constant Reaction Turbine Stage

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Energetika,
1959, Nr 6, pp 83-87 (USSR)

ABSTRACT:

In this paper the author explains the theory of a turbine stage with a constant degree of reactivity and with absence of a radial static pressure gradient. The development of a turbine stage with a constant thermodynamic degree of reactivity along the blade height in the absence of a radial static gradient is one of the methods of increasing the economy of steam and gas turbines. In this case, working medium leaks thru the radial gap are reduced and the conditions of the working blade root sections are improved and the passing capacity is increased. The calculation of a turbine stage with a constant degree of reactivity is very difficult using the method explained by the author. However, this method is more accurate than those explained in Refs 2 and 4, since it may be ✓

Card 1/2

A Constant Reaction Turbine Stage

SOV/143-59-6-12/21

recommended at ratios of $\frac{L_p}{D_{cp}} > 10$. However, the

practical recommendation for the utilization of stages with constant degrees of reactivity and absence of radial static pressure gradients in the practice of steam and gas turbine building may be made only after testing such a stage in an experimental turbine. There is 1 graph and 5 Soviet references.

ASSOCIATION: Leningradskiy korablestroitel'nyy institut (Leningrad Shipbuilding Institute)

PRESENTED: Kafedra sudovykh parovykh i gazovykh turbin (Chair of Marine Steam and Gas Turbines) ✓

SUBMITTED: April 21, 1959

Card 2/2

67128

10.3000

SOV/143-59-11-11/19

8(6)

AUTHOR: Mityushkin, Yu.I., Engineer

TITLE: Some Results of Experimental Research¹⁴ into the Turbine Stages of Ring-Shaped Blade Systems

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, 1959, Nr 11, pp 83-93 (USSR)

ABSTRACT: This is a report on some results achieved by the Leningrad Shipbuilding Institute which, since 1956, in cooperation with the aerodynamic laboratory of the Leningradskiy metallicheskiy zavod (Leningrad Metal Plant), is conducting theoretical and experimental research on methods of diminishing the radial gradient of the static pressure in the inter-ring clearance of a turbine stage. Also "TsIAM", "KhPI", and other institutions are engaged in the same research. The author describes in detail the experimental installation which was set up by his institute for the comparative research of different kinds of nozzle rings. An experimental

Card 1/4

67128

SOV/143-59-11-11/19

Some Results of Experimental Research into the Turbine Stages of Ring-Shaped Blade Systems

air turbine was used. Four types of nozzle rings were tested: 1) nozzle rings with cylindrical boundary surfaces and radial blade system; nozzle rings with especially profiled boundary surfaces [Ref 5] and radial blade system; 2) nozzle rings with cylindrical boundary surfaces and blades having their bent parts inclined toward the axis of the turbines; and 4) nozzle rings as per 3) but with blades having their back edges inclined toward the axis of the turbine. The results of the experiments are summed up as follows: a) If nozzle rings with specially profiled boundary surfaces [Ref 5] and radial system of blades (having an unchanging cross-section) are used, then, at certain exactly prerequired dimensions of the nozzle rings, there arises no radial gradient of the static pressure. b) If the bent parts of the blades are inclined toward the axis of the turbine and the boundary surfaces have a cylindrical form, then the drop of static pressure along the height of

Card 2/4