

GORODYSKIY, A.V.; DELIMARSKIY, Yu.K.; PANOV, E.V.; BALEZIN, E.A.

Method of low-frequency polaroscopy and a universal device  
for recording polarization curves. Zav. lab. 29 no.9:1035-  
1041 '63. (MIRA 17:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

GORODYSKIY, A.V. [Horodys'kyi, O.V.]; PANCV, E.V.; GRISHCHENKO, V.F. [Hryshchenko, V.F.]

Method of reproducing stationary polarography in melts. Dop. AN URSSR  
no.3:377-380 '63. (MER 17:10)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. Predstavleno  
akademikom AN UkrSSR Yu.K. Delimarskim [Delimars'kyi, Iu.K.].

GORODYSKIY, A.V.; DELIMARSKIY, Yu.K., akademik; PANOV, E.V.

Impedance of a double electric layer in melts. Dokl. AN SSSR  
146 no.1:129-130 S '62. (MIRA 15:9)

1. Institut obshchey in neorganicheskoy khimii AN USSR.
2. AN USSR (for Delimarskiy).  
(Fused salts—Electric properties)

GORODYSKIY, A.V.; PANCY, B.V.

Oscillographic study of the interelectrode capacity in KClO<sub>4</sub> salts for cells with a small phase shift. Ukr. Khim. Zhur. 30 no.10:1060-1064 '64. (MIRA 17:11)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

26.2520  
26.2500

33754  
S/021/62/000/002/009/010  
D299/D304

AUTHORS: Horodys'kyy, O. V. and Panov, E. V.

TITLE: Measurement of impedance of electrolytic cells by means of effective current

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi. no. 2, 1962, 205-206

TEXT: A simple method is proposed for measuring the impedance of electrolytic cells. Among earlier methods, the most important is the a.c.-impedance bridge method. This method, however, becomes impracticable if the sinusoidal character of the current is disturbed. Hence, instead of compensation by 2 variables - amplitude and phase -, it is more convenient to measure one variable, with 2 parameters of the circuit. Fig. 3 shows a simple measuring circuit. The voltage at the resistor R and cell Z is measured ( $r = 0$ ). The ratio of these voltages equals the ratio of R to the impedance of the electrolytic cell. Then the value of r is varied ( $r \neq 0$ ), and the total impedance is measured. The relationships obtained yield formulas

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S/021/62/000/002/009/010  
D299/D304

Measurement of impedance ...

for the capacitance component  $x$  and resistance component  $p$  of the impedance of the electrolytic cell. This simple method is a modification of the method of comparison (Ref. 9: V. L. Kheyfets et al., Praktikum po teoreticheskoy elektrokhemii, Uzd-vo LGU, 1951); the method of comparison has the disadvantage that the measurements can be carried out only if  $p = 0$ . The method proposed in the present article was tested on liquid and solid electrodes, in melts of chlorides (cadmium, lead, tin) and potassium nitrate; it gave satisfactory results. Instead of measuring the standard and investigated impedance, the accuracy of the method can be considerably increased by using a compensation bridge. Two types of compensation circuits are described. There are 3 figures and 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: D. C. Graham, J. Amer. Chem. Soc., 68, 301, 1946.

ASSOCIATION: Instytut zahal'noyi ta neorhanichnoyi khimiyi AN  
UkrRSR (Institute of General and Inorganic Chemistry  
of the AS UkrRSR)

Card 2/3

33754

Measurement of impedance ...

S/021/62/000/002/009/010  
D299/D304

PRESENTED: by Academician Yu. K. Delimars'kyy of the AS UkrRSR

SUBMITTED: July 11, 1961

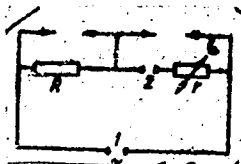


Fig. 3

Card 3/3

X

GORODYSKIY, A.V.; PANOV, E.V.

Use of mechanically split pulses in electrochemical investigations.  
Ukr.khim.zhur. 30 no.11:1158-1161 '64. (MIRA 18:2)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR,



DELIMARSKIY, Yt.K.; GORODYSKIY, A.V.; PANOV, E.V.

Measurement of silver exchange currents in fused salts. Ukr. khim.  
zhur. 31 no.8:782-785 '65. (MIRA 18:9)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

PETROVSKIY, K., gvardii general-mayor tankovykh voysk; PANOV, F., inzh.-polkovnik;  
MIGACHEV, G., polkovnik

Automotive training of officers. Voen. vest. 38 no. 8:55-58

Ag '58.

(MIRA 11:7)

(Motorization, Military)  
(Russia--Army--Officers)

PANOV, F., inzhener-polkovnik; YAVORSKIY, A., mayor tekhnicheskoy sluzhby;  
SHCHUKIN, M., inzhener-podpolkovnik

For traffic safety. Tekh. i vorozh. no. 6871-74 Je'64  
(MIRA 178.)

PANOV, F.S., aspirant

Using the method of geometrical interpretation of kinematic regularities in investigating three-dimensional and flat gear engagements. Izv. vys. ucheb. zav.; mashinostr. no.9: 16-28 '64. (HIRA 17:12)

1. Leningradskiy politekhnicheskiy institut.

YUDOVICH, V.G.; KHLEBORODOV, A.D.; SOLONEVICH, Ye.A.; VEYTS, V.L.;  
PANOV, F.S.; BELYAYEV, A.N.; ALAD'IN, O.I.; OSIPOV, V.F.;  
VOROB'YEV, A.I.; PROKOF'YEV, Yu.V.; SOLOV'YEV, Yu.A.;  
KUZ'MIN, A.V.; ZHIDONIS, V.Yu.; ZOLIN, A.V.; YATSUK, Ye.I.  
DOBROSLAVSKIY, V.L.; TRÓFIMOV, Ye.N.; DRYAGIN, Ye.R.;  
KROLEV, V.F.; KERIMOV, N.B.; KRAVCHENKO, A.S.; RYVLIN, V.A.;  
GURCHENKO, A.P.; KRUGLIKOV, T.P.; CHERNYAKOV, F.A.; ARKHIPOV,  
N.K.

Authors' certificates and patents. Mashinostroenie no. 1:101-  
103 Ja-F '65. (MIRA 18:4)

PANOV, G., inzh.

At an altitude of 1,642 meters. Mast. ugl. 8 no.5:15 My '59.  
(MIRA 12:8)

(Gissar range--Coal mines and mining)

DRIZHD, N.; PANOV, G., gornyy inzh.

Let's purify mine air. Sov. shakht. 11 no.3:20-21 Mr '62.

(MIRA 15:5)

1. Upravlyayushchiy trestom Saran'ugol' kombinata Karagandaugol'  
(for Drizhd).

(Karaganda Basin--Mine dusts--Prevention)

PANOV, G.

GEORGIEVSKI, N., Dr. PANOV, G.; MANEVSKI, T.

Effect of housing conditions on health. Higijena, Beogr. 7 no.1-4:  
450-457 1955.

1. Centralni higijenski zavod, Skoplje.

(HOUSING

eff. of housing cond. on health (Ser))

(HEALTH,

same)



PANOV, G.A.

Investigating a two-element system for converting one-phase into three-phase current. Izv. AN Uz. SSR. Ser. tekhn. nauk no.5:3-20 '59. (MIRA 13:3)

1. Institut energetiki i avtomatiki AN UzSSR.  
(Phase converters)

86990

S/019/60/000/018/116/170  
A152/A029

9.7300

AUTHOR: Panov, G.I.

TITLE: An Angle of Rotation - to - Code Converter

PERIODICAL: Byulleten' izobreteniy, 1960, No. 18, p. 55

TEXT: Class 42m, 14. No. 131978 (653156/26 of February 2, 1960). 1. This converter contains a pulse pickup and magnetic heads for reading of pulses, and a movable magnetic head, from whose position in relation to the fixed head the magnitude of a coded angle is determined. It has the following special feature: in order to simplify the mechanical constituent of this converter and increase the working gaps between the magnetic head and the pulse pickup, a gear made from a magnetic material is used as the pickup. 2. A variant of 1, distinguished by the following special feature: in order to eliminate the heterogeneity of codes in two neighboring reading cycles, it is fitted with a counting circuit, each digit of which is linked with corresponding logic "and" circuits, the second inputs of which are connected up to the movable reading head. 3. This variant of 1 - 2 is distinguished by the following special feature: its counting circuit has the form of a ring shift register having a logic feedback. J

Card 1/1

89884

S/019/61/000/002/076/111  
A156/A027

9.7400

AUTHOR: Panov, G.I.

TITLE: A "Code-Shaft" Converter

PERIODICAL: Byulleten' izobreteniy, 1961, No. 2, p. 51

TEXT: Class 42m, 14. No. 135288 (668217/26 of May 27, 1960). A "code-shaft" converter which uses a servo-mechanism of the relay type and latitudinal pulse modulation for proportional control of the motor. The novel feature of this converter is that, in order to increase the dynamic rating of the mechanism while at the same time simplifying it, the following are used: a "shaft-code" converter on the principle of a periodic calculation of the pulses in the register, by means of a logical feedback; a code-comparing circuit which emits a pulse at the moment when all the codes coincide in all digits; an angle-comparing system which emits a pulse when the angle of rotation of the pickup coincides with the angle of rotation of the servo

Card 1/2

89884

S/019/61/000/002/076/111

A156/A027

A "Code-Shaft" Converter

drum. The outputs of the code- and angle-comparing systems are connected  
up to the system controlling the motor reverser. ✓

Card 2/2

DANILYUK, V.A.; ZHUKOV, V.N.; PANOV, G.I.; KUTSENKO, G.L.; LUGOWETS,  
V.A.; NEKHONOV, N.A.; PORTNYAGIN, A.I.; RECHKIN, L.A.;  
SEREGIN, V.F.; SIVTSOV, V.P.; KHOLODNOV, Yu.I.; MEL'NIKOV,  
V.V., kand.tekhn.nauk, red.; KOZULIN, B., red.; CHERNIKHOV, Ya.,  
tekhn. red.

[Radio amateur's handbook] Spravochnik radioliubitelia. Sverd-  
lovsk, Sverdlovskoe knizhnoe izd-vo, 1962. 838 p.  
(MIRA 15:8)

(Radio--Handbooks, manuals, etc.)

S/103/62/023/002/010/015  
D230/D3019.7300  
AUTHOR:Panov, G.I. (Sverdlovsk)

TITLE:

On the effect of 'catch' of code rings

PERIODICAL:

Avtomatika i telemekhanika, v. 23, no. 2, 1962,  
196 - 202

TEXT: The code ring represents a closed succession of N symbols divided into n terms containing all codes of the set represented, each code appearing only once. The A-type code ring represents closed succession of symbols containing codes of complete coded sets. It is shown that by means of separate code rings of arbitrary length it is possible to obtain new non-repetitive codes, whose number considerably exceeds the code number of separate rings and those of the A-type rings. In the code representation of angle magnitudes, the angle error can be found using systems analogous to those digital computers designed for algebraic summations. The proposed method can be used not only for angle coding, but also for other magnitudes; the decoding can also be accomplished in an open

Card 1/2

On the effect of 'catch' of code rings

S/103/62/023/002/010/015  
D230/D301

circuit. The code-follow system can be used to advantage when its requirements in respect of accuracy do not exceed those of similar systems, however, the input information must be presented in discrete form; moreover, the system can be realized, almost entirely, using ferrite-diode elements. The accuracy of the system in respect of angle conversion can be improved by altering its structure and by using the two-pulse coincidence method. A number of examples are given to illustrate the method of the 'shaft-code' converter with its servo system employing the principle of the dynamic code compensation. There are 5 figures and 6 Soviet-bloc references. VB

SUBMITTED: June 26, 1961

Card 2/2

"Determination of Boron in Rocks by Neutron Analysis," by V. K. Khristianov and G. I. Panov, Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, Academy of Sciences USSR, Zhurnal Analiticheskoy Khimii, Vol 12, No 3, May June 57, pp 362-366

A method has been developed for the determination of boron in minerals and ores without a preliminary chemical treatment of the sample. The accuracy of individual determinations was found to be  $\pm 3\%$ . It was established that changes in the elemental composition of samples do not influence significantly the results of the determination of boron. In order to avoid the harmful effect of hydrogen on the accuracy of determinations, the hydrogen content in the control sample and in the sample being analyzed must



the harmful effect of hydrogen on the accuracy of determinations, the hydrogen content in the control sample and in the sample being analyzed must be equal. (U)

*Sum N 1481*

*Lenov, S. J.*

ACCESSION NR: AP4030336

S/0049/64/000/003/0349/0353

AUTHORS: Baranov, V. I.; Khristianov, V. K.; Karasev, B. V.; Panov, G. I.

TITLE: Measuring boron by the neutron method in outcrops and mine workings

SOURCE: AN SSSR. Izv. Ser. geofiz., no. 3, 1964, 349-353

TOPIC TAGS: boron, neutron sonde, neutron logging, SNMD 5 counter

ABSTRACT: The authors describe a portable instrument used for boron detection and measurement by neutron bombardment and furnish results of field tests. To make the instrument portable it was necessary to reduce the weight of current devices and, consequently, to reduce the power of the neutron source. The neutron counter was combined in a single block. Sonde: near the inversion

the instrument... and, consequently, to reduce the power of the neutron source. The neutron retarder and reflector were combined in a single block. Sondes near the inversion value were employed, and this required a minimal length of 40 cm. Shorter sondes were too insensitive. The first instrument constructed weighed 16.5 kg and was tested in the field in 1960. A later model, tested for the present study, weighs but 8 kg. The instrument has three parts: 1) a retarder-reflector of 5-liter capacity, immersed in water; 2) a cassette with two SNM-5 counters in a P-shaped boron-cadmium shield; and 3) a panel with amplifier, discriminator, transmitter,

Cord 1/2

ACCESSION NR: AP4030336

actuator, generator, and rate counter. Sensitivity was found to be 0.01% B<sub>2</sub>O<sub>3</sub> for a 10% decline in counter rate. Results on surface rocks and in mine workings show the instrument to be satisfactory for rapid determination of boron mineralization without selection of rock samples. Results of profiling and of laboratory tests on the areas investigated are in good agreement. The instrument is suitable for exposed or slightly covered rocks. Either continuous or isolated readings may be made, and work may be carried out rapidly, permitting large areas to be covered quickly. Orig. art. has: 4 figures.

ASSOCIATION: Akademiya nauk SSSR Institute geokhimi i analiticheskoy khimii im. V. I. Vernadskogo (Academy of Sciences SSSR, Institute of Geochemistry and Analytical Chemistry)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

SUBMITTED: 17 Jul 62

DATE ACQ: 29 Apr 64

ENCL: 00

SUB CODE: ES

NO REF SOV: 002

OTHER: 000

Cord 2/2

ACC NR: APT006291

(14)

SOURCE CODE: UR/0437/06/0100/010/0020/0020

AUTHOR: Krykh, B. V.; Panov, G. L.; Pereyaslov, A. N.; Yefimov, N. M.

ORG: UkrNIGRI

TITLE: An autoclave for setting cement at high temperatures and pressures

SOURCE: Bureniye, no. 10, 1966, 26-28

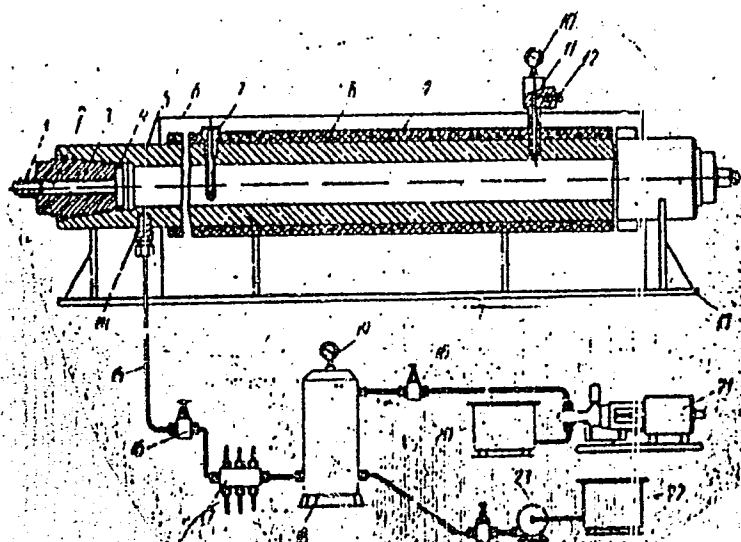
TOPIC TAGS: cement, petroleum engineering, test facility, pressure effect, high temperature *effect research*

ABSTRACT: The authors describe a large autoclave designed for studying the physical and chemical properties of cement after setting under the conditions which exist in deep gas and oil wells. A diagram of the autoclave and its hydraulic system is shown in the figure. The unit consists of casing 5 which is 1800 mm long with an outside diameter of 178 mm and an inside diameter of 90 mm. Plugs 3 with tapered threads are screwed into both ends of the casing. Inside each plug is a rod 2 with support plates. An elastic sealing ring 4 is located between the support plate and the face of the plug. Tension on nut 1 compresses the seal sufficiently for holding the starting pressure. As the pressure increases, the plate compresses the ring further to provide reliable sealing. A thermometer bulb 7 and manometer tube 11 are threaded into the top of the casing. Installed in the manometer tube is a needle valve 12 for releasing air from the autoclave as it is filled with water. Pump 23 is used for filling and pump

UDC: 622.245

Card 1/3

ACC NR: AP7006291



Card 2/3

ACC NR: AP7006291

21 is used for pressurizing. The heater consists of two nichrome coils 8 wound around the casing of the autoclave in asbestos liner 9. The casing of the autoclave is enclosed in jacket 6. The space between the jacket and the casing is filled with a heat insulating material. The electrical circuit of the autoclave is described. The unit accommodates three girder specimens measuring 40x40x160 mm or three cubic specimens measuring 50x50x50 mm. A pressure of 1300 atm may be set up at a temperature of 20°C. Orig. art. has: 2 figures.

SUB CODE: 13, 11/ SUBM DATA: None

Card 3/3

25(2)

SOV/117-59-5-3/30

AUTHOR: Panov, G.S.

TITLE: Local Exhaust Ventilation

PERIODICAL: Mashinostroitel', 1959, Nr 5, p 6 (USSR)

ABSTRACT: The short note contains a detailed illustrated description of a ventilating installation designed by the author for use in welding operations, for the exhaust of gas from electric furnaces, and so forth. The installation consists of a pipeline with attached swivel air-receiver pipes. It includes a centrifugal "Sirokko Nr 8" fan of 23,000 cu m capacity per hour. Using the installation at a welding plate, the operator can turn the intake to any position to exhaust the gas from all spots of the area. There is 1 diagram.

Card 1/1

PANOV, G.S.; KOZHEL, K.Yu.

Setting up a second brake on telephone. Mashinostroitel'  
no. 8:44-45 Ag '59. (MIRA 12:11)  
(Foundry machinery and supplies)



KCZELL, K.Yu.; PANOV, G.S.

Attaching electric drives to manual hand-driven hoists.  
Mashinostroitel' no. 8:42 Ag '58. (MIRA 11:8)  
(Hoisting machinery)

AUTHOR: Panov, G.S.

TITLE: Air-Cleaning Filter (Fil'tr dlya oshistki yozdukh)

PERIODICAL: Mashinostroitel', 1958, Nr 7, p 43 (USSR)

ABSTRACT: The described air filter, consisting of felt and activated carbon layers was designed by the author. It cleans the air in sand blasting and painting chambers and has normalized the working conditions of operators. A 300 watt light bulb placed on the top of the filter provides light in the chamber and warms the filtered air conveyed from the filter top by a hose to the operator's mask. There is a diagram.

ASSOCIATION: Zavod "Ekonomayzer" (Plant "Ekonomayzer")

1. Air intake filters---Characteristics

Card 1/1

PANOV, G.S.

Air filter, Mashinostroitel' no. 7:43 01 '59. (MIRA 12:10)

1. Zavod "Ekonomayzer."  
(Air filters)

PANOV, G.S.

Local exhaust ventilation. Mashinostroitel' no.5:6 My '59.  
(MIRA 12:8)  
(Factories--Heating and ventilation)

25(2)

BCV/117-55-2-33/44

AUTHORS: Panov, G.S., and Kozell, K.Yu.

TITLE: The Installation of the Second Brake on Telfers

PERIODICAL: Mashinostroitel', 1959, Nr 8, pp 44-45 (USSR)

ABSTRACT: The "Koblonadzor" rules require two electromagnetic brakes on electrotelfers handling foundry ladles. At present, the plants producing electrotelfers supply them with two brakes, but one of the brakes is placed in the middle of the gear reducer, and handicaps control. Telfers with only one brake are still in use at many plants. At the plant "Ekonomayzer", the second electromagnetic brake on the telfers is placed not in the gear reducer but on the same side as the lifting motor. The article tells in detail how the second brake is mounted on the telfer with the use of a special clutch (shown in drawing). The brake is simple and dependable. There is 1 drawing.

Card 1/1

25(3)

NOV/197-32-1-1979

AUTHOR: Panov, G.S.

TITLE: Remote Switching of Inflow-Heating Ventilation Installations.

PERIODICAL: Mashinostroytel 1979, Nr 4, p 33 (U.S.S.R.)

ABSTRACT: The described automatic switching system is installed at the Zavod "Ekonomayzer" ("Ekonomayzer" plant). Placed in the central boiler room, it includes an air duct, a fan, an air heater, and a special valve (figure 2) in the air pipelines to every shop of the plant. When the system is being started, steam from the steam collector is let into the air line to the shop to be supplied. The steam lifts the rod of the special valve in the pipeline, air starts flowing into it, and the top of the valve rod presses a pushbutton switch and switches in the electric motor driving the fan. When the air flow stops, springs return the

Card 1/2

007/117-50-1-11/73

Remote Switching of Inflow-Heating Ventilation Installation.

valve rod into the bottom position. the piston closes the pipeline and the motor switches-out. The system is illustrated by a diagram. There are 2 diagrams.

Card 2/2

PAIKV, G.S.

Remote switching of inlet-heating and ventilation units.  
Mashinostroitel' no.4:33 Ap '59. (MIRA 12:6)  
(Factories--Heating and ventilation)



PANOV, G.S., inzh.; KOZELL, K.Yu.

Fastening trolley wires for electric tower cranes on wooden brackets.  
Mashinostroitel' no.9:18 S '59. (MIRA 13:2)  
(Cranes, derricks, etc.) (Electric wiring)

AUTHORS: Kozell, K.Yu., Panov, G.S. SOV-117-58-8-24/28

TITLE: Electrification of a Manual Worm-Type Block and Tackle (Elektrifikatsiya ruchnoy chervyachnoy tali)

PERIODICAL: Mashinostroitel', 1958, Nr 8, p 42 (USSR)

ABSTRACT: Cantilever swing cranes are used with a manual block and tackle in metallurgical plants and forging workshops. This block and tackle has been modernized in the Leningradskiy zavod "Ekonomayzer" (Leningrad Plant "Ekonomayzer"). It is now driven by an electromotor. The block and tackle is now suspended from the cantilever of the swing crane. The lifting capacity is 0.5 tons; the lifting height 3 m; the lifting speed 4.5 m/min. The electromotor operates at 900 rpm. The device has shown good results. There is 1 diagram.

**1. Cranes - Equipment**

Card 1/1

PANOV, G.S.

Promote beauty in factories. Mashinostrel' no.8:26-27  
Ag '65. (MIRA 18:11)

PANOVA, G.V.

POTTER, Kh.I.; PANOVA, G.V.; KARFELYUK, A.A.

Determining the aberration constant according to a three-year  
observation series on the Pulkovo polar telescope. Astron. tsirk.  
no.174:12 N '56. (MIRA 10<sup>5</sup>3)

(Aberration)

PANOV, G.V. (Moskva)

Using multichannel noncontact inductive slip ring in  
measuring on rotating parts of high-speed machines.  
Mashinovedenie no.6:104-108 '65.

(MIRA 18:11)

L 10220-66 EWP(w)/T-2/ETC(m) WIV/EM

ACC NR: AP5028500

SOURCE CODE: UR/0286/65/000/020/0079/0080

AUTHOR: Pancov, G. V.

34  
B

ORG: none

TITLE: A device for contactless multipoint strain-gauging on rotating parts.  
Class 42, No. 175695

SOURCE: By. Izv. n. 10: stroy. i. o. v. arny. sh. snakov, no. 20, 1965, 79-80

TOPIC TAGS: strain gage, resistance bridge, electric transformer, electronic amplifier, data recording

ABSTRACT: This Author Certificate presents a device for contactless multipoint strain-gauging on rotating parts. The device contains a contactless current collector (transformer type), strain-gauge bridges, generator, amplifier, and recording units (see Fig. 1). In order to widen the measurement range and to simplify the design, the current collector is made in the form of a multisection r-f transformer without a core. The transformer is designed to supply the strain-gauge bridges and the a-f transformers for transmitting the signal from the

Card 1/2

UDC: 620.172.216

L 10220-66

ACC NR: AF5028500

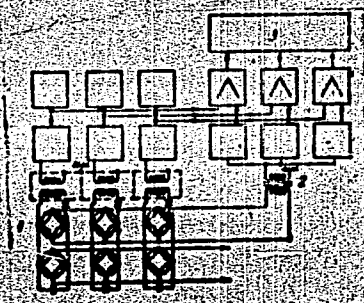


Fig. 1. 1 - Strain-gauge  
bridges; 2 - transformer;  
3 - recording unit.

diagonals of the bridges to the recording unit. Orig. art. has: 1 figure.

SUB CODE: 09/

SUBM DATE: 29Feb64

SAGINOV, A.S.; PANOV, G.Ye., kand. tekhn. nauk

Controlled change of the technological properties of mountain  
massifs. Vest. AN Kazakh. SSR 21 no.11:46-50 N '65.

(MIRA 18:12)

1. Chlen-korrespondent AN Kazakhskoy SSR (for Saginov).



КОНДИЦИОНЕРЫ, А.И., проф.; НИКОЛАЕВ, А.И., канд. техн. наук;  
ПАНОУ, С.Я., инж.

Устройство кондиционирования воздуха с водой, injected into the  
cooling water, irrigation and ventilation. "Izol' 36 no.6:52-56  
Jan 1967. (CIPA 14:7)

И. Кондратьевский институт им. И.В. Сталина.  
(Иркутск)

PANOV, G.Ye., gornyy inzh.; YUNUSOV, S.A., gornyy inzh.

Effect of preliminary wetting of the #12 Verkhnyaya Marianna seam  
on the quality of mined coal. Ugol' 37 no.3:47-48 Mr '62.  
(MIRA 15:2)

1. Moskovskiy gornyy institut i Shakhta No.120 Karagandinskogo  
basseyna.

(Karaganda Basin--Coal mines and mining) (Mine dusts)

PANOV, G.Ye., insh.

Evaluation of water pumps in relation to the water-absorbing capacity of coal seams. Bezop. truda v prom. 8 no.11:9-10  
N '64. (MIRA 18:2)

1. Karagandinskiy politekhnicheskiy institut.

KSENOFONTOVA, A.I., prof.; BURCHAKOV, A.S., kand. tekhn. nauk; PANOV, G.Ye., inzh.; SAMOKHVALOV, G.K., inzh.

[Guide for reducing dust formation by preventive wetting of coal seams through holes in the walls, for workers in dust control in coal mines and planning organizations] Rukovodstvo dlia rabotnikov pyleventiliatsionnoi sluzhby na ugol'nykh shakhtakh i proektnykh organizatsii po predvaritel'nomu uvlazhneniiu ugol'nykh plastov cherez shpury v lavakh s tsel'iu snizhenia pyleobrazovaniia. Moskva, Mosk. gornyi in-t, 1961. 22 p. (MIRA 16:1)  
(Mine dust)

PANOV, G.Ye., gornyy inzh.

Increasing the efficiency of preventive water infusion in coal seams in mines. Ugol' 37 no.11:48-51 N '62. (MIRA 15:10)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.  
(Mine dusts) (Hydraulic machinery)

SAGINOV, A.S.; PAKOV, G. Ye., kand. tekhn. nauk; OMIKHOV, Yu.D.

Effect of stoping on the state and moisture of the Karaganda  
coal beds. Vest. AN Kazakh. SSR 20 no.12:56-60 D '64  
(MIRA 18:2)

1. ~~Gen~~-correspondent AN KazSSR (for Saginov).

BURCHAKOV, A.S., kand. tekhn. nauk; PANOV, G.Ye., inzh.; SAMOKHVALOV,  
G.K., inzh.; MEDVEDEV, V.P., inzh.

Use of the method of electric hydrodynamic analogies for  
analyzing the flow of water in wetting of a coal bed. Izv. vys.  
ucheb. zav.; gor. zhur. no.5:67-72 '61. (MIRA 16:7)

1. Moskovskiy gornyy institut imeni Stalina. Rekomendovana  
kafedroy ventilyatsii i tekhniki bezopasnosti.  
(Coal mines and mining)  
(Electromechanical analogies)

KSENOFONTOVA, A. I., prof.; BURCHAKOV, A. S., kand.tekhn.nauk; PANOV,  
G. Ye., inzh.

Reducing air dustiness by means of water injection into the coal seam,  
irrigation and ventilation. Ugol' 36 no.6:52-56 Je '61.  
(MIRA 14:7)

1. Moskovskiy gornyy institut im. I. V. Stalina.  
(Mine dusts)



PANOV, G.Ye., kand. tekhn. nauk; GORBATOV, A.T., gornyy inzh.;  
SHIPITSYN, A.K., gornyy inzh.

Using water and air stemming for loosening the massif in a  
longwall in the operation of the CMK complex. Ugol' 40 no.11:  
62-63 '65. (MIRA 18:11)

1. Karagandinskiy politekhnicheskiy institut (for Panov,  
Gorbatov). 2. Shakhta No.70 kombinata Karagandaugol' (for  
Shipitsyn).

GRASHCHENKOV, N.F.; PANOV, G.Ye.; AMANBAYEV, D.A.

Water injection as a means of dust suppression in drifts.  
Ugol' 39 no.8:67-69 Ag '64. (MIRA 17:10)

1. Karagandinskiy politekhnicheskiy institut.

SAGINOV, A.S.; PANOV, G.Ye., kand. tekhn. nauk

Effect of the preliminary wetting on the climatic conditions  
of coal mine workings. Izv. vys. ucheb. zav.; gor. zhur. 8  
no.7:82-86 '65. (MIRA 18:9)

1. Karagandinskiy politehnicheskii institut. Rekomendovana  
kafedroy razrabotki mestorozhdeniy poleznykh iskopayemykh.
2. Chlen-korrespondent AN Kazakhskoy SSR (for Saginov).

PANOV, I. (g. Sevliyovo, Bolgariya)

Observing harmonic oscillations. Fiz.v shkole 20 no.4:77 J1-Ag  
'60. (MIRA 13:8)

(Oscillations)

PANOV, I., kapitan 3 ranga

"Officer and petty officer" by [inzh. kapitan 3 ranga] J.  
Chuprynin. Reviewed by I. Panov. Starsh.-serzh. no. 2:20 F  
'62. (MIRA 15:4)  
(Russia--Navy--Officers) (Russia--Navy--Petty officers)

PANOV, I.

Asbestos-cement plates. p.59.

(TRANSPORTNO DELO, Vol. 9, no. 4, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

FANOV. I.

Sudan Grass

Highly productive variety of sudan grass. Kolkhn. proizv. 12 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952 ~~1953~~, Uncl.

PANOV, I., kapitan-leytelant

Radar operators. Voen. znan. 35 no.10:24-25 0 '59.

(MIRA 12:12)

(Radar in navigation)



PANOV, I. A.

"Methods of Measuring Distances With the Aid of Radar Apparatus Used Abroad for Geodesic Work," by I. A. Panov, Candidate of Technical Sciences, Geodeziya i Kartografiya, No 1, Jan 57, pp 64-72

A footnote to this article concerning radionavigation work conducted outside the USSR identified L. I. Mandel'shtam and N. D. Papaleksi as developers of the Soviet radionavigation system. According to the footnote the Soviet radionavigation system was developed before World War II and is similar to the English Decca system. (U)

SUM. 1345

PANOV, I.A., kandidat tekhnicheskikh nauk.

Survey of literature on radiogeodetic measurements abroad. Geod.  
i kart. no. 4:51-62 Kp. '57. (MLBA 10:8)

(Geodesy)

PANOV, I.F., inzhener.

Movable plug-in box for electric tools. Pat' i put.khoz. no. 2157-57  
(MIRA 16:16)

(Railroads--Electric equipment)

PANOV, I.F., inzhener.

Asbestos cement spacer. Put' i put. khoz. no.1:34 Ja '57.

(MLRA 10:4)

1. Starshiy dorozhnyy master Moskovsko-Smolenskoj distantzii puti  
Kalininskoy dorogi.  
(Railroads--Track)

IVANOV, Ya.F., inzhener; PANOV, I.F., inzhener.

Simplified self-wedging rail anchors. Put' i put. khez. no.2:25 F '57.  
(Railroads--Rails) (MLRA 10:4)



PAKOV, I.M.

Wheeled tractor for slopes. Trakt. i sel'khozmasb. 30 no.9:4 S 160.  
(MIRA 13:9)

(Great Britain -- Tractors)

PANOV, I .M., inzh.

Use of insulation on synchronous compensators. *Elek.sta.* 31 no.7:  
90-93 J1 60. (MIRA 13:8)

(Electric machinery, Synchronous--Windings)  
(Electric insulators and insulation)



1. PANOY, I. V.
2. USSR (600)
4. steam turbines
7. Preventing the lower of vacuum in turbines, Rab. energ., 3, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

PANOV, I.M., inzh.

Protecting devices for working parts of plows and cultivators.  
Trakt. i sel'khoz mash. no.9:45-48 S '58. (MIRA 11:10)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystven-  
nogo mashinostroyeniya.  
(Plows) (Cultivators)

PANDV, I.M., kand. tekhn. nauk, prof. (1947), ...

Rotary plows. Trakt. i sel'khozmashtin, no. 10, 1948, C. 140.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii  
zyayotvennogo razlinostrouyeniya.

PANOV, I.M., inzh.

Repair of synchronous compensators. Blok. sta. 33 no.4:32-34  
Ap '62. (MIRA 15:7)

(Electric machinery--Maintenance and repair)

PANOV, I.M.; ZHIGAREV, L.F.

Machines for soil cultivation in orchards and vineyards. Biol.  
tekh.-ekon.inform. no. 5:55-59 '61. (MIRA 14:6)  
(Fruit culture)

PANOV, I.M., inzh.

Evaluating various protecting devices of tillage implements.  
Trakt.i sel'khoz mash. 30 no.2:25-27 F '60.  
(MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyayst-  
vennogo mashinostroyeniya.  
(Agricultural implements)

NOVIKOV, Yu. F., kandidat fiziko-matematicheskikh nauk, P. N. P. ...

Some present-day trends in the development of glow discharge  
machina no. 6 26-27 1979

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskoy  
stvennogo mashinostroyeniya

(Moscow)

MITTEL'MAN, D.M., inzh.; PANOV, I.M., inzh.; TAGUROV, I.E., teknik

Synchronous compensator with oxygen cooling for open installations.

Elek.sta. 28 no.10:51-53 '57.

(MIRA 10:11)

(Electric substations)



PANOV, L.M.

3

621313.325  
HYDROGEN CHLORIDE SYNTHESIS CONDENSER FOR  
OUTDOOR INSTALLATION  
D.M. Miller, L.M. Panov and I.K. Tashirov  
Elektr. Stantsii, 1957, No. 10, p. 913. In Russian.

PANOV, I.M., machinist turbiny.

Training the personnel of an electric power plant. *Energetik* 1  
no.7:16 D '53. (MLRA 6:12)

(Electric power plants)

PANOV, I. M.

Cand Tech Sci - (diss) "Study of the performance of spring guards in cultivators, and the development of methods of designing them." Moscow, 1961. 24 pp with diagrams; (Ministry of Higher Education USSR, Rostov-na-Don Inst of Agricultural Machinery-Building); 150 copies; price not given; (KL, 7-61 sup, 243)

SHTEYNBUK, Sh.Ya., PANOV, I.N., inzhener, retsenzent; RUSANOVA, T.Y.,  
inzhener, nauchnyy redaktor; FRUMKIN, P., tekhnicheskyy redaktor.

[Gas cutting in shipbuilding] Gazorazatel'nye raboty v sudostroenii.  
[Leningrad] Gos. soobshch. izd-vo sudostroit. promyshl., 1954. 111 p.  
[Microfilm] (MIRA 8:2)  
(Shipbuilding) (Oxyacetylene welding and cutting)

*Handwritten:* Panov, Ivan Nikolayevich

PHASE I BOOK EXPLOITATION

254

Gusyatskiy, Fedor L'vovich, and Panov, Ivan Nikolayevich

Gazorezatel'nyy avtomat MDFKS 1 rabota na nem (Automatic Gas Cutter Controlled by a Scaled Distance Photoelectric Copying System; Method of Operation) Leningrad, Sudpromgiz, 1957. 107 p. (Nauchno-proizvodstvennyy opyt) 2,000 copies printed.

Resp. Ed.: Sokolov, I. P.; Ed.: Mishkevich, G. I.; Tech. Ed.: Levochkina, L. I.

PURPOSE: This book is intended as a training aid for raising the qualifications of personnel operating cutters. It may also be useful to workers preparing tracing sketches, and to the engineering and technical staffs of hullworking shops in shipyards. Workers in enterprises producing boilers, tanks, and steel structures using oxygen-cutting machines will also find it useful.

COVERAGE: This book is a brief review of general problems encountered in oxygen cutting and it describes the latest automatic

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## Automatic Gas Center Controlled by a Scaled Distance (Cont.) 254

oxygen cutter employing a scaled, remotely controlled, photoelectric tracing system. The technical process of oxygen cutting with the above-mentioned cutter, along with maintenance rules and safety measures, are reviewed. A description is given of the process of preparing tracing prints. Mention is made of Engineer A. Ya. Rubin who assisted in describing the electric circuit of the automatic cutter. There are no references.

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4. Photoelectric guidance using scaled photonegatives	13

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Automatic Gas Cutter Controlled by a Scaled Distance (Cont.)		254
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5.	General description of the automatic cutter	18
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BONDARENKO, P.M., inzh.; MARISHCHUK, V.P., inzh.; FANOV, I.P., inzh.

Method of manufacturing reinforced concrete rings with a 3.5  
diameter. Transp.stroi. 13 no.9:65-66 S '63.

(MIRA 16:12)



PANOV, I.P., Cand Tech Sci -- (diss) "Study of  
*construction* of the *keep-alive* arc of a high-voltage  
mercury *rectifier* and *methods* of increasing its sta-  
bility." Len 1958, 19 pp with diagrams (Min of Higher  
Education USSR. Len Polytech Inst im M.I. & Kalinin)  
100 copies, (KL, 21-58, 90)

ИЗВЕСТИЯ, 1965, № 10, с. 100-101, ИЛЛ. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Shortening the steaming period for reinforced-concrete products.  
Transp. stroi. 15 no.2:32-34 p.165. (MIRA 18:3)

KULAKOV, Ye. V.; MERSHIN, A. P.; PANOV, I. P.; PODDUBNYI, N. N.; ZENIN, A. A.; KOPEVA,  
Z. F.

Fertility of virgin and waste lands. Zemledelie 4 no. 10:28-36 0 '56.  
(Soil fertility) (MLRA 9:11)

P.A.NO.V, I.P.

Dielectric firing of the cathode spot. Izv. NIIFT no.3:20-30  
'58. (MIRA 12:1)

(Mercury-arc rectifiers)

ПАНОВ, И.И.

8(3)

p.3

PHASE I BOOK EXPLOITATION

SOV/1386

Moscow. Nauchno-issledovatel'skiy institut postoyannogo toka

Peredacha energii postoyannym i peremennym tokom (Power Transmission by Direct and Alternating Current) Moscow, Gosenergoizdat, 1958. 334 p. (Series: Its: Izvestiya, sb. 3) 3,350 copies printed.

Ed.: Pintsov, A.M.; Tech. Ed.: Voronetskaya, L.V.; Editorial Board: Shchedrin, N.N., Doctor of Technical Sciences, Corresponding Member, Uzbek SSR Academy of Sciences, Professor (Chief Ed.); Gertsik, A.K., Engineer; Yemel'yanov, V.I., Candidate of Technical Sciences; Pimenov, V.P., Candidate of Technical Sciences; Pintsov, A.K., Candidate of Technical Sciences; Fosse, A.V., Candidate of Technical Sciences; Sena, L.A., Doctor of Physical and Mathematical Sciences, Professor; Sonin, M.R., Engineer; Shakhman, M.G., Candidate of Technical Sciences.

PURPOSE: This collection of articles, issued by the USSR Ministry of Electric Power Stations, is intended for scientists, engineers and designers of high-voltage overhead transmission lines.

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Power Transmission by Direct and Alternating (Cont.)

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COVERAGE: The collection covers various problems connected with d-c and a-c high-voltage transmission lines, gives theoretical fundamentals of these problems and describes experimental investigations and practical conclusions. References appear separately after each article.

TABLE OF CONTENTS:

SECTION I. DIRECT CURRENT

Aleksandrov, D.D., N.F. Olendzskaya, and S.V. Ptitsyn . Investigation of Electric Strength of High-voltage Mercury Rectifiers 5  
Experimental investigation of mercury rectifiers was extensively carried out recently by NIIPT of MES (Direct-Current Scientific Research Institute of USSR Ministry of Electric Power Stations) in substations of the Kashira-Moscow and Stalingrad-Donbass electric transmission systems. The "circulation manometer", recently developed by NIIPT, made it possible to investigate the effect of foreign gas admixtures in mercury vapor on the electric strength of a high-voltage rectifier. The results of this investigation have now been introduced in practice. There are 9 diagrams and drawings, and 13 references, of which 5 are Soviet, 5 English and 3 French.

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Power Transmission by Direct and Alternating (Cont.)

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Panov, I.P. Dielectric Ignitor for Cathode Spot Firing 20

Experimental investigation of cathode spot firing carried out in the laboratories of NIIPT has proved that dielectric ignitors are free of the many disadvantages characteristic of semiconductor ignitors. Dielectric ignitors are recommended for use not only in mercury rectifiers, but also in various gas-discharge devices where forced repetitive firing is required. There are 9 diagrams and drawings and 7 references, of which 4 are English and 3 Soviet.

Matyashevich, V.V. Formation of Mercury Condensate in an Operating Rectifier 31

Investigation has been carried out on the effect of mercury condensate droplets on the operating stability of mercury rectifiers. Experimental results made it possible to make recommendations on operating techniques and some design changes as well. There are 7 diagrams and drawings and 5 references, all Soviet.

Dolgikh, V.A., and N.I. Lavrov. Investigation of Voltage Distribution in the Plate Circuit of a High-voltage Mercury Rectifier 43

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Investigations carried out by V.D. Andreyev and B.G. Mendeleev in 1949-1950 at VBI on voltage distribution in the plate circuit of a type V-1 (VR-50/120) mercury rectifier showed considerable unevenness of distribution. The recommendation was to increase the power of the plate voltage divider. In 1953 at the Electrovacuum Laboratory of NIIPT a series of measurements was completed by V.A. Dolgikh, I.G. Goloshchekin and N.I. Lavrov (and in 1954 V.A. Ivanchenko) on the dependence of voltage distribution on operating conditions. The measurement method was developed by L.N. Volkov and D.D. Kayazev and was based on the use of an oscillograph and a capacitive voltage-divider. In conclusion, the authors recommend some changes in operating practice and in design. There are 3 tables of oscillograms, 4 diagrams and 5 Soviet references.

Gertsik, A.K. Ionization Characteristics of Paper-Oil Capacitor Insulation During Application of Voltage With a Distorted Wave Form  
The above characteristics were obtained as a result of experimental investigation carried out in NIIPT laboratories by the author and junior scientists V.P. Matveyev and D.S. Lavrov. There are 13 diagrams and drawings and 14 references, of which 7 are Soviet and 7

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- Power Transmission by Direct and Alternating (Cont.) 80V/1386
- Merkhalev, S.D. Wet Flashover Voltage Characteristics of Insulators in D-C Transmission Lines 89  
The investigation was carried out at NIIPT by the author on P-7, Sht-35, IShD-35, KO-400 and MT-220 type insulators. There are 6 diagrams and drawings and no references.
- Groys, Ye.S. Insulation Test Voltage Requirements in the Stalingrad GES-Donbass Transmission System 100  
This article is the result of the author's experience gained from his participation in designing the Stalingrad GES-Donbass transmission system. D-c transmission is planned for a distance of 470 km at 800 KV and transmitted power of 750 Mw. There are 3 tables, 3 drawings and 5 Soviet references.
- Fosse, A.V. and A.M. Reyder. Series Connection of Bridge Rectifiers and Rectifiers in a D-C Transmission System 115  
Mercury rectifiers produced today for d-c power transmission are designed for a voltage of about 100 kv. For transmission at 400 kv

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## Power Transmission by Direct and Alternating (Cont.)

SOV/1386

up to 600 kv, it is necessary to employ a cascade connection of bridge rectifiers, with one or several rectifiers in the arm of each bridge. The best combination of the number of bridges and the number of rectifiers in the arm of each bridge has not yet been definitely chosen. The difficult problems connected with this choice were investigated by NIIPT in the Kashira-Moscow h-v d-c transmission line. This article gives the results of investigation and makes recommendations. There are 2 tables, 7 oscillograms, 1 diagram and 3 references, of which 2 are Soviet and 1 German.

Shekhtman, M.G. and N.A. Shipulina. Parameters of Equipment of Conversion Substations in the Kashira-Moscow D-C Transmission Line 129  
Firing of mercury rectifiers causes current oscillations in tens and hundreds kc/sec frequency range. Study of this source of radio interference requires exact knowledge of equipment parameters for frequencies up to 1 Mc. The authors describe methods of measuring parameters and discuss the results obtained in the experimental Kashira-Moscow d-c transmission line. The three data tables are recommended for practical use for those working in radio interference sup-  
port. There are 6 diagrams and no references.

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## Power Transmission by Direct and Alternating (Cont.)

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Shekhtman, M.G. Damping of Plate Voltage Oscillations After Extinction of  
of Mercury Rectifiers in Conversion Substations 143

Experimental investigation was carried out by NIIPT in the Kashira-Moscow d-c transmission line on damping of voltage oscillations caused by extinction of one or more mercury rectifiers in substations. The author describes this investigation and discusses the results. He also explains Engineer V.A. Merzheyevskiy's method of calculating the parameters of damping circuits, especially of power transformers. There are 3 tables, 3 diagrams, 1 appendix and no references.

Leshukov, N.D. Damping of Voltage Oscillations in Overhead D-C Transmission  
Lines (as applied to the Stalingrad-Donbass transmission line) 161

Theoretical and experimental investigations were carried out by VEI and NIIPT in the experimental Kashira-Moscow d-c transmission line on damping of voltage oscillations. Technical data from the Sweden-Gotland d-c transmission line were used by the author. The results of these investigations were put into practice in the Stalingrad-Donbass transmission line, chiefly according to recommendations of M.G. Shekhtman, V.M. Kvyatkovskiy, V.N. Vyatkin, N.A. Kanashchenko and A.A. Akopyan. There are 11 oscillograms and diagrams and 5 references, of which 2 are Soviet, 1 English, 1 Swedish, and 1 German.

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Power Transmission by Direct and Alternating (Cont.)

SOV/1386

Shiryayev, V.I. Grid Control System in the Kashira-Moscow D-C Transmission Line 181

The author explains a grid control system for switching-on mercury rectifiers in substations according to a definite sequence. He also forms practical conclusions and makes recommendations. There are 10 diagrams and 4 Soviet references.

Tomasov, V.V. Application of Germanium Diodes and Triodes in the Primary Trigger Pulse Circuit of a Grid Control System 197

The replacement of peak transformers or vacuum tubes in the above type of circuit with semiconductor diodes and triodes produces many advantages, especially in reliability, service life, power consumption and overall reduction in size of apparatus. The control and protection laboratory of NIPT carried out research on various aspects of the problem and worked out the design of this circuit (IPIP -- istochnik pervichnykh impulsov na poluprovodnikakh). There are 4 diagrams and 1 Soviet reference.

Cont. of 2