

KARPOV, Ya.

Along the lines of technical progress. Sov. profectuzy 7 no.13:24-27 Jl '59. (MIRA 12:10)

(Podol'sk--Machinery injustry)

AUTHORS:

Arnautov, L., and Karpov, Ya.

SOV/4-59-1-7/42

TITLE:

The Giant in the Steppe (Velikan v stepi)

PERIODICAL:

Znaniye - sila, 1959, Nr 1, pp 10 - 11 (USSR)

ABSTRACT:

One of the first structures to be completed within the 7-year plan of 1959 - 1965 will be the Karagandinskiy metallurgicheskiy kombinat (Karaganda Metallurgical Combine) which is being built in Temir-Tau, Central Kazakhstan. On the huge space from Temir-Tau to Ata-Su, the combine and its auxiliary plants are now being erected. Economists have calculated that Karaganda metal will be the cheapest in the country because of the favorable geographical location of the plant. It will be one of the best-equipped enterprises of great capacity. Its construction has been designed so as to satisfy the requirements of the future. Its iron deposits are just below the surface 370 km south-west of Temir-Tau within the Karaganda Oblast in the Atasuyskiy Iron Ore Basin. The fuel - coking coal - is available 70 km from Temir-Tau at the recently-discovered deposits of Tentekskoye and Shakhanskoye of the Karaganda Coal Basin. The large quantities of water required by the plant

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The Giant in the Steppe

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come from the great lake near Temir-Tau. Quite close to the plant, lime-stone, needed for both ore and coke, can be found. The air temperature in the blast-furnace can be raised to 1,200 degrees instead of the 900 degrees in present furnaces. The author gives a description of what the Karagande Metallurgical Plant will look like when ready in 1965, and mentions in this connection the famous Russian metallurgist, Academician M.A. Pavlov. The smelting of steel will be carried out in 2 shops - the open-hearth and the converter shops. The open-hearth furnaces will no longer be lined up in one rank but situated like small islands or blocks each holding 2 units. Every block has its own RR line and loading device. Loading and refuelling, and all other work will be done by machines. The steel founder will operate from the control desk. Competing with the open-hearth shop will be the Bessemer shop. This process attracted the metallurgists mainly because of the quickness and inexpensiveness of steel production. A reliable index for the productivity of labor in a metallurgical plant is the quantity of cast iron and steel smelted

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by one laborer. In the USA, the highest rate of smelting cast iron per laborer is at the Cary Plant (United Steel Corporation) - 6,680 tons per year. At the Karaganda Combine, production will be considerably higher. This also refers to the smelting of steel. There are 3 drawings.

Card 3/3

Marvelous shells. Nauka i zhizn' 77 no.3:62-63 Mr '60.

(MIRA13:6)
(Bridges--Foundations and piers)

ARNAUTOV, L.; KARPOV, Ya.

"North supply" project. Mauka i shizn' 27 no.8:44-48 Ag '60.

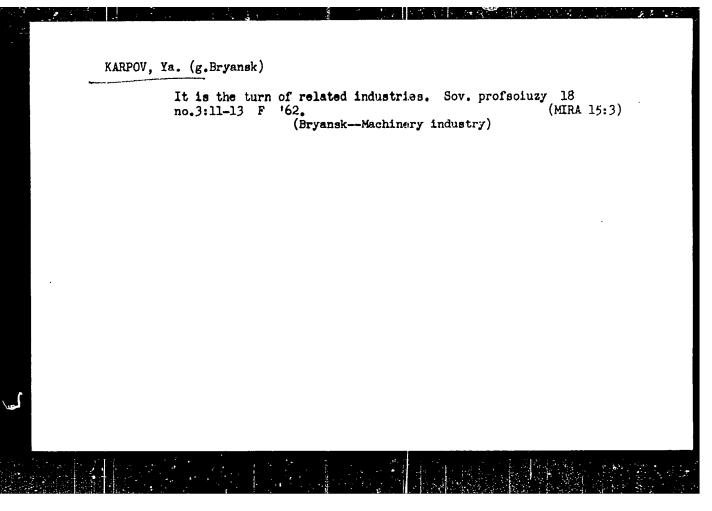
(NIRA 13:9)

(Russia, Northern --Hydroelectric power)

ARNAUTOV, L.; KARPOV, Ya.

Igor Sharov's three vocations. Znan.sila 35 no.3:10-12 Mr '60.
(MIRA 13:6)

(Technological innovarions)

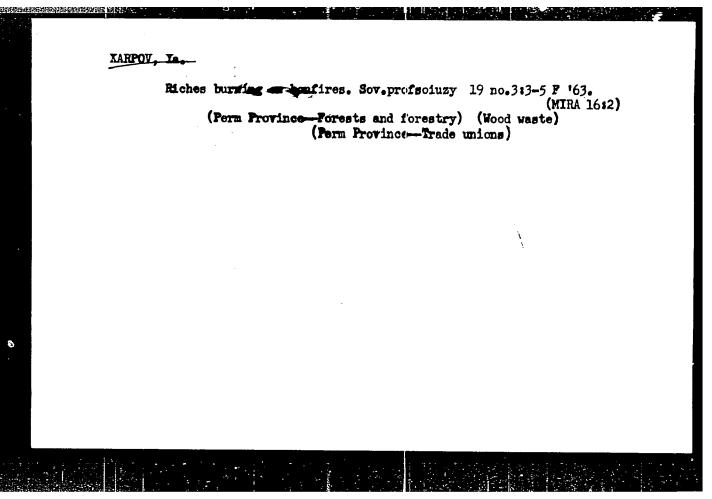


KARPOV, Ya.

Why do the seconds and low quality survive. Sov.
profsoiuzy 18 no.21:10-13 N'62. (MIRA 15:11)

1. Spetsial'nyy korrespondent zhwnala "Sovetskiye profsoyuzy". (Kreenholm—Textile industry)

union. Sov. pr	Norms, wage schedules and the central committee of the trade union. Sov.profsoiuzy 18 no.23:13-15 D *62. (MIRE (Food industry—Production standards) (Trade unions)				



KARPOV, Ya. (Grodno)

Place the delivery of equipment under public centrol. Sov. profsoiuzy 19 no.17:7-9 S '63. (MIRA 16:11)

1. Spetsial'nyy korrespondent zhumala "Sovetskiye profsoyuzy."

[Trade unions in the effort to develop large-scale chemistry]
Profsoluzy v bor'be za bel'shulu khimilu. Hoskva, Profiziant,
1964. 189 p. (MIRA 18:2)

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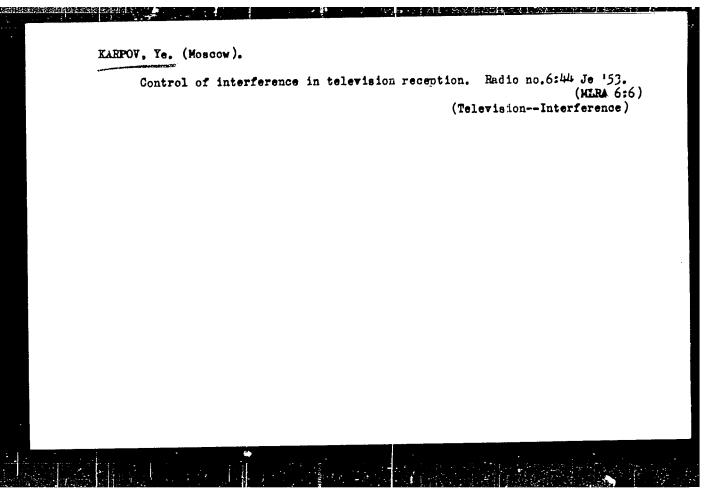
PAVIOVA, Mariya Ivanovna; ZHUPIKOVA, Dar'ya Maksimovna; KARPOV. Yakov Aleksevevich; BYKOV, A.P., retsenzent; ZAYTSEVA, T.M., red.; KOGAN, V.V., tekhn.red.

[Four-shuttle British-Northrop loom] Chetyrekhchelnochnyi tkatskii stanok British-Nortrop. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1957. 182 p. (MIMA 11:3) (Looms)

ARNAUTOV, Leonid Ippolitovich; TARPOV, Yekov Kerpovich; MESHKOVSKAYA, M., red.; KUZMETSOVA, A., čekhn.red.

[Secret of the Golden Fleece] Taina zolotogo runa. Moskva, Mosk, rebochii, 1961. 62 p.

(Leather, Artificial) (Fur, Artificial)



KARPOV, Ye.

Sports give strength and health. Mast.ugl. 8 no.6:22 Je '59.
(kIRA 12:10)

1. Instruktor Shakhtianskogo gorodskogo soveta dobrovol'nogo
sportivnogo obahchestva "Trud."

(Physical education and training) (Coal siners)

FSS=2/EWT(1)/FS(v)=3SOURCE CODE: UR/2865/65/004/000/0010/0016 ACC NR: AT6003835 AUTHOR: Gurovskiy, N. N.; Yemel'yanov, M. D.; Karpov, Ye. ORG: none TITLE: Basic principles of special cosmonaut training SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 10-16 TOPIC TAGS: cosmonaut training, vestibular training, manned space flight, centrifuge training, space physiology, space psychology, space flight simulation, spacecraft capsule, flight disorientation, physical fitness ABSTRACT: The individual characteristics of healthy humans are not stable; external and internal stimuli may produce drastic nonpathological deviations from physiological norms. Resistance to external stress, however, may be greatly increased by training. 2,55,47 Special cosmonaut training is based on analysis of those factors which most substantially affect the cosmonaut and his activities in flight. Flight factors fall into four groups: 1) extremal environmental factors (vacuum, Card 1/5

ACC NR: AT6003835

ionizing radiation, low temperatures); 2) dynamic flight factors (noise, vibration, acceleration, weightlessness, prolonged vestibular stimulation); 3) ship environmental factors (cabin microclimate, restricted movement, special foods and clothing, time-deficit working conditions, emotional tension); and 4) factors associated with landing (especially when the ejection-parachute descent method is used). Since protection against extremal factors (group 1) is provided by the ship, it is with factors of the last three groups (2, 3, and 4) that the special cosmonaut training program is concerned.

The aims of special cosmonaut training, which simulates on the ground the conditions of flight, are twofold: 1) to provide a basis for the selection or elimination of cosmonaut candidates, and 2) to increase the resistance of the candidates selected to the unavoidable stresses of actual flight.

Since certain factors (prolonged weightlessness, the unique psycholog-

Since certain factors (prolonged weightessiess, the danger project of flight) cannot be reproduced on Earth, the training program must include a number of nonspecific exercises designed to increase the general resistance of the organism. Special methods are used to increase tolerance to psychological stresses and predict behavior of candidates in flight.

Card 2/5

ACC NR: AT6003835

In addition, the training program includes exercises designed to develop motor habits and skills needed in flight and to train the cosmonaut in the

The methods discussed are: 1) parabolic sirplane flights, 2) isolation performance of actual flight operations. in an echoless chamber, 3) cabin mockup flight simulation, 4) thermochamber training, 5) centrifuge training, and 6) special physical and

The brief duration of the weightlessness created by parabolic flights vestibular training. . limits their usefulness for training, since adaptation to brief periods of weightlessness does not necessarily help an individual withstand the prolonged weightlessness of spaceflight.

Prolonged isolation in an echoless chamber with deprivation of external information is a useful tool for neuropsychiatric studies of individual ability to perform assigned tasks under novel conditions, circadian physiological rhythms, the ability (with sudden stimuli) to rass quickly from the sleeping to the waking state and back, and memory, attention, and so forth.

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ACC NR: AT6003835

Even though space cabins are air-conditioned, thermochamber training is useful in discovering hidden pathologies and studying individual stress reactions.

Centrifuge training is especially important, both for familiarization and for increasing resistance to spaceflight accelerations. The most careful monitoring is required during this training, since existing information on the cumulative effects of acceleration is contradictory and uncertain. The cosmonauts themselves are emphatic about the usefulness and importance of this type of training.

Mockup training is all the more important in view of the fact that training flights with an experienced instructor, such as are used in training drivers or pilots, cannot be conducted for space crews. All training must thus be accomplished on the ground.

A program of special vestibular training was instituted after the flight of G. S. Titov, who experienced some autonomic maladjustments as the result of vestibular stimulation in flight. This training is directed at 1) increasing vestibular resistance to a wide variety of external factors and 2) reinforcing the functional interaction of the vestibular, visual, and

Card 4/5

"APPROVED FOR RELEASE: 06/13/2000

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ACC NR: AT6003835

kinesthetic analyzers in order to eliminate postural-spatial illusions under conditions of altered gravity and to increase inhibition of the vestibular function. This program must be custom-tailored to compersate the individual vestibular weaknesses of each cosmonaut, which are identified beforehand by determining semicircular canal and otolith thresholds for adequate and inadequate stimulation.

All special training must be supplemented by general physical training designed to improve the cosmonaut's physical condition and perfect the visual-motor coordination required by spaceflight.

The total program must be adjusted to the needs of the individual cosmonaut. The sequence, alternation, and spacing of the various kinds of special training are important here. [ATD PRESS: 4091.-F]

SUB CODE: 05, 06 / SUBM DATE: none

Card 5/5

VOLYNKIN, Yu.M.; ARUTYUNOV, G.A.; ANTIPOV, V.V.; ALTUKHOV, G.V.;

BAYEVSKIY, R.M.; BELAY, V.Ye.; HUYANOV, P.V.; BRYANOV, I.I.;

VASIL'YEV, P.V.; VOLOVICH, V.G.; GAGARIN, YU.A.; GENIN, A.M.;

GORBOV, F.D.; GORSHKOV, A.I.; GUROVSKIY, N.N.; YESHANOV, N.Kh.;

YEGOROV, A.D.; KARPOV, Ye.A.; KOVALEV, V.V.; KOLOSOV. I.A.;

KORESHKOV, A.A.; KAS'YAN, I.I.; KOTCVSKAYA, A.R.; FALIBERDIN,

G.V.; KOPANEV, V.I.; KUZ'MINOV, A.P.; KAKURIN, L.I; KUDROVA,

R.V.; LEBEDEV, V.I.; LEBEDEV, A.A.; LOBZIN, P.P.; MAKSIMOV,

D.G.; MYASNIKOV, V.I.; MAIYSHKIN, Ye.G.; NEUMYVAKIN, I.P.;

ONISHCHENKO, V.F.; POPOV, I.G.; PORUCHIKOV, Ye.P.; SIL'VESTROV,

M.M.; SERYAPIN, A.D.; SAKSONOV, P.P.; TERENT'YEV, V.G.; USHAKOV,

A.S.; UDALOV, Yu.F.; FOMIN, V.S.; FOMIN, A.G.; KHLEBNIKOV, G.F.;

YUGANOV, Ye.M.; YAZDOVSKIY, V.I.; KRICHAGIN, V.I.; AKULINICHEV,

I.T.; SAVINICH, F.K.: SIMPURA, S.F.; VOSKRESENSKIY, O.G.;

GAZENKO, O.G., SISAKYAN, N.M., akadəmik, red.

[Second group space flight and some results of the Soviet astronauts' flights on "Vostok" ships; scientific results of medical and biological research conducted during the second group space flight] Vtoroi gruppovci kosmicheskii polet i nekotorye itogi poletov sovetskikh kosmonavtov na korabliakh "Vostok"; nauchnye rezul'taty medikobiologicheskikh issledovanii, provedennykh vo vremia vtorogo gruppovogo kosmicheskogo poleta. Moskva, Nauka, 1965. 277 p. (MIRA 18:6)

FSS=2/EWT(1)/FS(v)=3DD/RD ACC NR: AT6003835 SOURCE CODE: TR/2865/65/004/000/0010/0016 AUTHOR: Gurovskiy, N. N.; Temel'yanov, M. D.; Karpov, ORG: none TITLE: Basic principles of special cosmonaut, training SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 10-16 TOPIC TAGS: cosmonaut training, vestibular training, manned space flight, centrifuge training, space physiology, space psychology, space flight simulation, spacecraft capsule, flight disorientation, physical fitness ABSTRACT: The individual characteristics of healthy humans are not stable; external and internal stimuli may produce drastic nonpathological deviations from physiological norms. Resistance to external stress, however, may be greatly increased by training. 2,55,41 Special cosmonaut training is based on analysis of those factors which most substantially affect the cosmonaut and his activities in flight. Flight factors fall into four groups: 1) extremal environmental factors (vacuum, Card 1/5

ACC NR: AT6003835

ionizing radiation, low temperatures); 2) dynamic flight factors (noise, vibration, acceleration, weightlessness, prolonged vestibular stimulation); 3) ship environmental factors (cabin microclimate, restricted movement, special foods and clothing, time-deficit working conditions, emotional tension); and 4) factors associated with landing (especially when the ejection-parachute descent method is used). Since protection against extremal factors (group 1) is provided by the ship, it is with factors of the last three groups (2, 3, and 4) that the special cosmonaut training program is concerned.

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Card 2/5_

ACC NR: AT6003835

In addition, the training program includes exercises designed to develop motor habits and skills needed in flight and to train the cosmonaut in the performance of actual flight operations.

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ACC NR: AT6003835

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SUB CODE: 05, 06 / SUBM DATE: none

Card 5/5

FSS-2/EWT(1)/EEC(k)-2TT/DD/GW L 38218-66 Un/0293/66/004/003/0469/0481 SOURCE CODE: ACC NR. AP6019601 AUTHOR: Karpov, Ye. A. ORG: none Psychophysiological analysis of activities as criteria for special medical TITLE: preparation of Voskhod-2 spacecraft craw Koemicheskiye issledovaniya, v. 4, no. 3, 1966, 469-481 TOPIC TAGS: manned orbital flight, space physiology, extravehicular activity, astronaut, space medicine, ground crew training ABSTRACT: A psychophysiological analysis is made of the Voskhod-2 astronauts' activities as future criteria for the selection of a space crew. The highlights of the Voskhod-2 flight are reviewed with a special stress on the two-chamber method of initiating the extravehicular activity by A. A. Leonov. A detailed presentation is made of ground crew training with a special stress on simulated extravehicular activities. These were performed by Leonov during several parabolic aircraft flights simulating brief periods of weightlessness in a mock-up space capsule. The steps are reviewed of other ground tests for training Leonov for the space walk. These consist of gymnastics followed by detailed orientation tests on a "supportless" chair capable of multiaxis rotation and the generation of unstable positions. Records are shown of the pulse and breathing rates of Leonov and Belyayev during the 15-minute space walk, 629-108-61 IDC: Card_ 1/2

l indicating a	substantial in	ncrease in both	breathing and n	ulse rates for	hoth astronaute
		pace walk. This			
volved in per	forming "pione	eering" tasks.	The extensive g	round training	is claimed to
		menial tasks (d			
		ervations. It i udies followed b			
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35382 S /108/62/017/003/008/009 D299/D303

9,2540 (1139,1159,1482)

AUTHOR: Karpov. Ye.

Karpov, Ye.A., Member of the Society (see Association)

TITLE:

Design and investigation of voltage-doubler rectifier

circuits

APPROVED FOR RELEASE: 06/13/2000

PERIODICAL: Radiotekhnika, v. 17, no. 3, 1962, 71 - 77

TEXT: A design method is proposed for complicated circuits incorporating rectifier elements. Relationships are obtained between the parameters of the circuit and the harmonics of the current flowing through the rectifier. The operation of symmetrical—and nonsymmetrical voltage-coubler circuits is considered. The method was initially set forth by the author (Ref. 5: Raschet elektricheskikh tsepey s ventil'nymi elementami. Sbornik dokladov Vsesoyuznoy mezhvuzovskoy konferentsii no. 4, Tashkent, 1960). The application of the method to symmetrical voltage-doublers is considered; it is necessary to find the first approximation to the emf-values of one of the rectifiers, while the other rectifier is short-circuited. This amounts to finding the first approximation of the initial pacard 1/3

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Design and investigation of voltage-...

rameters. Expressions for the emf of the zeroth- and first harmonic are obtained. Analogous expressions are obtained for the second rectifier. Assuming the obtained first-approximations to be correct one obtains the distribution of the currents in the circuit, and then the second approximation of the initial parameters is found. Hence the mean value of the rectified voltage $\rm U_{\rm O}$ is obtained. Expressing R in terms of $\rm U_{\rm O}$, one obtains an analytical expression for the external characteristic of symmetrical voltage-doubler circuits

$$U_{o} = V K_{1}^{2} - 1_{1}^{2} I_{\theta_{o}}^{2}.$$
 (18)

A figure shows the external characteristics of a rectifier for various capacitance-values. Formula (18) was obtained after considerable simplifications; yet it permits a general analysis of the operation of rectifiers. Other figures show the external characteristics for an actual circuit $(\mathbf{r}_1 = \mathbf{r}_2 = 3 \text{ ohm}, \mathbf{C}_1 = \mathbf{C}_2 = 100 \text{ micconfarad}, \mathbf{U} = 20 \text{ volt})$. For comparison, the characteristics were also calculated by another method. It was found that the method used in the present article yields more accurate results. The obtaicard 2/3

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Design and investigation of voltage-... S/108/62/017/103/008/009 D299/D303

ned characteristics show that the rectifier operates most efficiently if the capacitances are large. In this case the rectified voltage is almost independent of the magnitude of the load current. For a nonsymmetrical circuit, it is not possible to obtain an analytic expression for the external characteristic. By using the method of Ref. 5 (Op.cit.) it was possible however, to determine the external characteristic for an actual circuit having parameters, analogous to the above circuit. A comparison of both circuits shows that the symmetrical circuit has a smoother external characteristic, that the pulsation coefficient of the symmetrical circuit is smaller, and that the voltage at the capacitors (of the symmetrical circuit) cannot exceed the maximum value of the applied voltage, whereas it can in nonsymmetrical circuits. The obtaind calculated values were confirmed by experiment. There are 7 figures and 5 Soviet-bloc references.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications im. A.S. Popov) [Abstractor's note: Name of

Association taken from first page of journal]
SUBMITTED: June 30, 1961 Card 3/3

26467

S/177/60/000/011/001/003

D219/D302

AUTHORS:

21,2100

Buyanov, P. V., Galkin, A. V., Karpov, Ye. A., Samukhin, N.V., Terent yev, V. G., Shevchenko,

TITLE:

Contra-indications to the breathing of oxygen at

increased pressure

PERIODICAL: Voyenno-meditsinskiy zhurnal, no. 11, 1960, 64 - 68

TEXT: The authors wished to study the effect of systematic breathing of oxygen under pressure and discover medical containdications to its use, especially with regard to personnel suffering from physical defects which do not render them unfit for flying duty. 125 persons, 20 - 40 years old, underwent pressure chamber tests and prolonged clinical observation. All were well and fit for flying duty. 43 had various defects such as pleural synechia and adhesions, hypertensive neurocirculatory dystonia (5), 1st degree thyroid enlargement without malfunction (4) and so on. Normal clinical records were taken and analyses done

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plus X-Ray, neurological, electrophysiological and ENT examination. Subjects took part in 1 - 97 experiments at 7 - 14 day intervals. Physiological effects were noted immediately; rise in heat and respiration rate, arterial pressure, bioelectric respiratory muscle activity; ECG variation; fall of oxyhemoglobin level to 60 - 80% (slowing of circulatory rate; chan ges in latent period of conditioned motor reflexes; occasional subcutaneous emphysema. Subjects usually felt well after tests complaining rarely of fatigue or headache. Clinical examination generally revealed slowing of pulse (by 6 - 18 beats), increase in venous pressure, moderate increase in arterial pressure, slight of cases heart murmurs - usually pulmonary and aortic-appeared: No pathological ECG changes save extrasystoles in 4 cases. Changes were often recorded in capillary formation, phethysmo-graph curves and in vasomotor reflexes. Aftereffects: Lung vital capacity decreased by 200 - 400 ml. A third of the subjects had scattered dry rales. Lung X-Fay showed occasional

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shadowing and local disciform atelacteses. There was an increase in neutrophil leucocytes in the peripheral blood and a relative lymphocyte fall. Tendon reflexes became more and more sensitive, finger tremor increased, touch discrimination and co-ordination deteriorated and signs of general fatigue appeared. All changes were reversible, usually in a few hours. As regards personnel suffering from minor defects, the effect of the edeficiencies was varies. In some cases e.g., chronic gastritis, they suffered no adverse effect either initially or after prolonged experimentation, but it was clear that systematic participation in such high altitude tests was contra-indicated in all cases of pulmonary tuberculosis, neurocirculatory dystonia, leucopenia, pronounced emotional instability, endocrine deficancy, chronic ENT conditions, or for persons, who became rapidly anoxic, had undergone brain trauma or who were suffering from upper respiratory tract disease.

SUBMITTED: August 1960

Card 3/3

KLIMASHEVSKIY, E.L.; KARPOV, Ye.A.

New types of combined treatment of seeds before sowing. Izv.
SO AN SSSR no.12. Ser. biol.-med. nauk no.3:60-65 '63.

(MIRA 17:4)

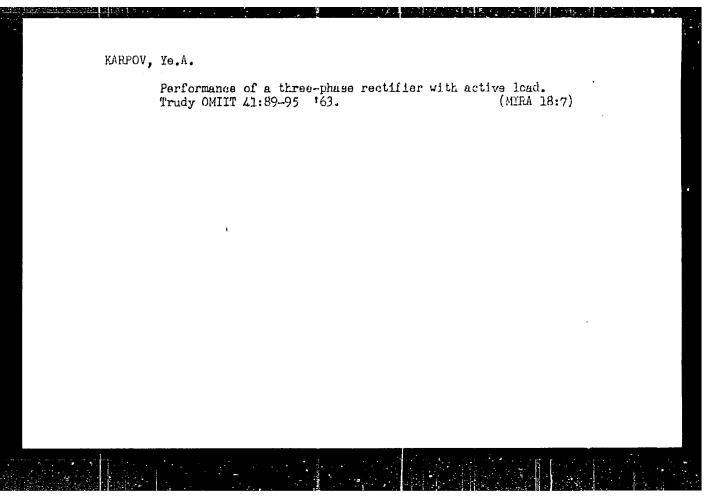
1. Dal'nevostochnyy filial Sibirskogo otdoleniya AN SSSR,
Vladivostok.

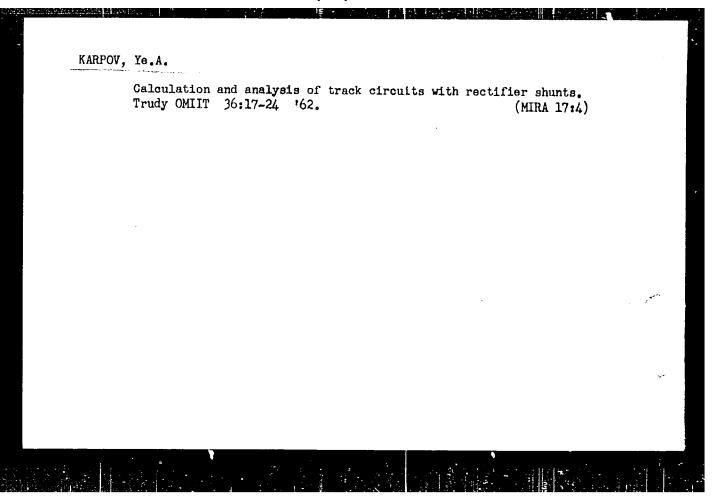
KARPOV, Ye. A., Cand Tech Sci -- "Jomputation and analysis of electric chains containing valve elements." Tomsk,

Pub House of Tomsk U, 1961. (Min of Higher and Sec Spec
Ed RSFSR. Tomsk Order of Labor Red Barner Polytech Inst im

S. M. Kirov) (KL, 8-61, 244)

- 239 **-**





KARPOV, Yevgeniy Fedorovich; KRAVCHENKO, Vladimir Sergeyevich, doktor tekhn.
nauk; LEYBOV, Ruvim Moiseyevich, doktor tekhn.nauk; SHZYNBERG,
Samuil Davydovich; MIRSKAYA, V.V., red.izd-va; KOROVENKOVA, Z.A.,
tekhn.red.; BERESLAVSKAYA, L.Sh., tekhn.red.

[Automatic protective devices in mines] Avtomaticheskie shakhtnye zashchitnye ustroistva. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1960. 111 p.

(MIRA 13:7)

(Electricity in mining--Safety measures)

KRAVCHENKO, V.S., doktor tekhn.nauk; KARPOV, Ye.F., inzh.; BIRENBERG,
I.E., inzh.

Continuous methane-detection relay. Bezop.truda v prom. 4
no.2:22-24 F '60. (MIRA 13:5)

1. Institut gornogo dela AN SSSR (for Kravchenko, Karpov).
2. Giprougle-avtomatizatsiya (for Birenberg).

(Mine gases-Safety measures)

KARPOV, Ye. F. Cand Tech Sci -- "Study of the thermocatalytic (on carriers) principle of detection methane in an ore atmosphere." Mos, 1961 (Min of Higher and Secondary Specialized Education RSFSR. Mos Mining Inst im I. V. Stalin).

(KL, 4-61, 196)

KRAWCHENKO, V. S., doktor tekhn. nauk; KARPOV Ye. F., kand. tekhn. nauk; BIRENBERG, I. E., inzh.; ERENBURG, I. I., inzh. nauk; BIRENBERG, I. T. no.4:

AMT-2 thermocatalytic methane analyzer. Ugol' Ukr. 7 no.4: 38-39 Ap '63.

1. Institut gornogo dela im. A. A. Skochinskogo (for Kravchenko, Karpov). 2. Gosudarstvennyy proyektno-konstruktorskiy institut avtomatizatsii rabot v ugol'noy promyshlennosti (for Birenberg). 3. Konotopskiy zavod "Krasnyy metallist" (for Erenburg).

(Mine gases—Measurement) (Transducers)

KARPOV, Ye.F., kand.tekhn.nauk

Thermocatalytic principle as a basis in constructing methane detectors for an automatic system of protection from gas. Mekh. i avtom. v gor. prom. no.3:252-267 '63. (MIRA 16:10)

L 8447-66

ACC NR: AP5025732

SOURCE CODE: UR/0286/65/000/018/0084/0084

AUTHORS: Birenberg, I. E.; Chubukov, M. P.; Karpov, Ye. F.; Svet, I. S.; Dovedov, A. N.; Gavril'chenko, L. I.; Rasgulyayev, Ye. P.

ORG: none

M

TITLE: An instrument for measuring methane concentration, the resistance of the detonation circuit, and the ignition of electrodetonators. Class 42, No. 174819

SOURCE: Byulleten' isobreteniy i tovarnykh znakov, no. 18, 1965, 84

TOPIC TAGS: methane, resistance bridge, electric resistance, electric transformer, transistor, detonation, electric detonator

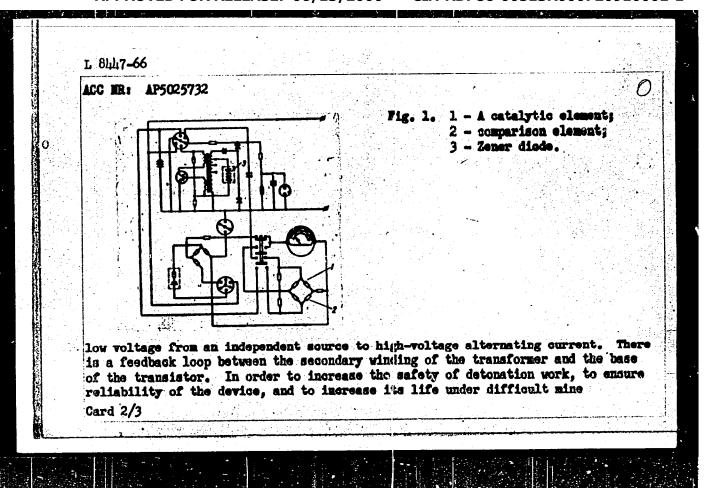
ABSTRACT: This Author Certificate presents an instrument for measuring the methane concentration, resistance of detonation circuit, and the ignition of electrodetonators. It contains a methane meter (see Fig. 1) in the form of a bridge circuit, one arm of which is the methane-combustion element. The second arm is a cuit, one arm of which is the methane-combustion element. The second arm is a balancing element. The other two arms have constant resistances. This device also contains a resistance meter for the detonation circuit and a detonation device in the form of a contactless transistor-transformer converter. The latter converts

Cand 1/3

UDC: 622.817.9.002.56

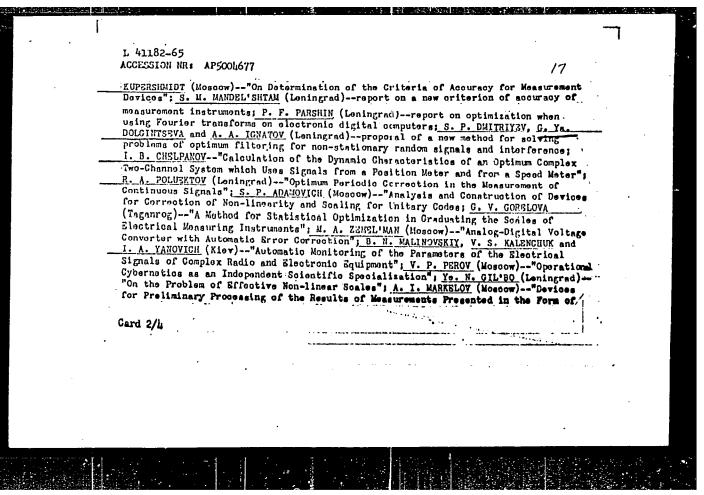
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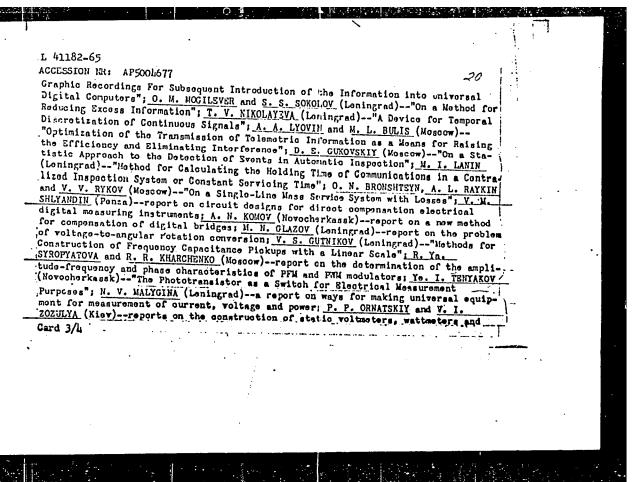
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conditions, a working t	, the ca temperat r has on a Zener	talytic : ure of u	p to 450C) tural admi	are insta ssion of t	lled in a he analyze	single read d gas. The	tor (which tion chambe detonation op. Orig.	r.	
SUB CODE:	09/ 81	IBH DATE:	12Mar64		•				
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L 41182-65 EWT(d)/EWP(c)	/EWP(*)/T/EWP(k)/EWP(l) 5/0115/6W	/000/009/0058/0059	70
ACCESSION NR: AP5004677	0,022,704		70 18 8
AUTHOR: none	•	•	8
TITLE: Fourth scientific an improvement of measurement a	d technical conference on the inspection methodo."	Cybernetics for the	
SOURCE: Izmeritel'naya tekh	nika, no. 9, 1964, 58-59		
TOPIC TAGS: cybernatics, el digital computer, electronic	ectric measurement, electric engin	Set Hig ()IE C silve	
ABSTRACT: The conference was Institute of Metrology by the	as hold 1-4 July at the All ne Section of Electrical Me Instrument Naking" of the S	-Unic Scientific Resensation of the Country of the	dination
of Scientific Research Work Research Institute of Elect	rical Monaurement instrument	on of the Instrument Ma	king
Research Institute of Elect Administration of the Scien Industry. More than 400 de	tific and Technical Division logates from 29 cities of	on of the Instrument Ma	kingd.
Research Institute of Election Administration of the Scient Industry. Noro than 400 de Fifty-seven reports were he	tific and Technical Division legates from 29 cities of and discussed. Report	on of the Instrument Ma the country participate a wire given by: P. V.	king d. Noasure=
Research Institute of Election Administration of the Scient Industry. Noro than 400 de Fifty-seven reports were he HOVITSKIY (Leningrad) "Dof	tific and Technical Division legates from 29 cities of ard and discussed. Report in the Concept of the Concept	on of the Instrument Ma the country participate were given by: P. V. Informational Error in Problem of the Average	king d. d. Kossure- Informs-
Research Institute of Electric Administration of the Scient Industry. More than 400 de Fifty-seven reports were he NOVITSKIY (Leningrad)"Dof ment and its Importance in tional Criterion of Accurat	tific and Technical Division legates from 29 cities of ard and discussed. Report in the Concept of the Concept	on of the Instrument Ma the country participate were given by: P. V. Informational Error in Problem of the Average	king d. d. Kossure- Informs-
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	ACCESSION NR: APSOOL677	HANOV, I. G. SHYSHLYAYEV, H	. I. SABLIN. V. M.	RAZIN and V.	A	
	CODDIDION (Tomale) report	on a device for sutometic	processing of the m	GKBM.amanra	OL 1	
	report on the developme	neumatic hammers; L. K. FUK ent of a digital compensato	L LOL WOFFILING bia	Bema, rotos	•	
	ato . N. R. DADUKINA (Las	ningrad)report on a metho	d for constructing	reduction :	1	
	(Vimburhay) reports on	; Ye. M. KARPOV, V. A. BILAZ analysis and recording of b	oring speeds; Iu. V	· ; ·		
	PCHENICHMIKOV (Kuybyahaw	·)"A High Speed Voltage - to	-Digital Code Conve	LEGE FOR AND		
	to-Peak Voltmoter"; and	and V. K. ISAYEV (Vilna) " S. M. PERSIN (Loningrad) "	A Low Level Analog.	Digital ,Volt	- إما	
	age Converter."		And the second second		1	
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L 62093-65 DMT(d)/BMT(l) Pg-lt/Po-lt/Pq-lt/Ph-lt/P1-lt_IJP(e) BO UR/0286/65/000/010/0046/0046 ACCESSION NR: AF5016733 AU HORS: Karpov, Ye. M.; Barkovskiy, Yu. M. TIME: Syndhronous servosystem. Class 21, No. 171038 SOURCE: Brulletent isob etenir i tovarnyki anakov, no. 10, 1965, 46 10 10 TAIS : servoeystem, servomechaniam ABI TRACT: This Author Certificate presents a synchronous serviews tem with two degrass of freed a. The transmitter and requiver contain a stator, plakup loop, and central magnetic circuit. For the transmission of large solid angles, the pickup loop is fastened on the central magnetic circuit with a universal joint and is placed in the gap formed by the two spherical surfaces of the stator and central magnetic circuit. To decrease the error, to increase the reliability, and to exclude galvanic coupling between pickup loops, the central magnetic circuit is clused. The coupling coils placed on it are interconnected to form a compensation circuit. The coils of the movable pickup loops are short-circuited. To increase the sensitivity and the possibility of connecting several receivers to one transmiliter, an amplifier whose output is connected to the receiver pickup loop is connected in the compensation circuit. Care 1/2

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	ACCESSION ER: AP5016733			ø
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KARPOV, Ye.M.; BARKOVSKIY, Yu.M.

Some problems in the theory of a synchronous servesystem with two degrees of freedom. Izv. vys. ucheb. zav.; prib. 8 no.3:49-53 165. (MIRA 18:11)

1. Kuybyshevskiy polltekhnicheskiy institut imeni Kuybysheva. Rekomendovana kafedrcy elektroizmeritel'noy tekhniki.

KULIKOVSKIY, L.F.; KARPOV, Ye.M.; PÓPOVA, G.V.; BRAZHNIKOV, V.A.

Drilling footage recorder. Izv. vys. ucheb. zav.; neft' i gaz. 8
no.4191-94 '65. (MIRA 18:5)

1. Kuybyshevskiy politekhnicheskiy inutitut im. V.V.Kuybyshevs.

KARPOV, Ye.M.

Motion stability of the moving part of the receiver of a synchronous servosystem with two degrees of freedom. Izv. vys. ucheb. zav.; prib. 8 no.5:62-67 '65. (MIRA 18:10)

1. Kuybyshevskiy politekhnicheskiy institut imeni Kuybysheva. Rekomendovana kafedroy elektroizmeritel'noy tekhniki.

ACC NR: AP6028701	SOURCE CODE: UR/0410/66/000/00	ĺ
AUTHOR: Karpov, Ye. M. (Kuyby	shev); Kulikovskiy, L. F. (Kuybyshev)	29
ORG: none		· B
TITLE: The accuracy of the solid a system with two degrees of freedom	angle reading by the receiver of the synchro	nized servo 9
SOURCE: Avtometriya, no. 3, 196	6, 125-128	
TOPIC TAGS: angle measurement	instrument, servomechanism system, ເເເ	Il drilling
1	ation is of special importance during the mea	asurement of
angles of petroleum or gas bore hol	es during the drilling of wells. For this pur	rpose, the
of freedom (L. F. Kulikovskiy, Aut	sensors and synchronized servosystems with hor's certificate No 104141, Byulleten' izob	n two degrees
No 9; Ye. M. Karpov, Yu. M. Barko	vskiy, Author's certificate No 171038, Byull	eten' izo-
bretenly, 1965, No 10). In this pap the sensitivity of the system. Orig	er they present appropriate theoretical expr . art. has: 7 formulas and 2 tables.	ressions giving
SUB CODE: 13,14/ SUBM DATE:	21Jan65/ ORIG REF: 003	
1 1/1 egh	UDC: 62-503.53	

L 7985-66 ENT(1)/EPA(s)-2/ENT(m)/EPF(c)/EPF(n)-2/T/ETC(m) WW/DJ

ACC NR: AP5026519 SOURCE CODE: UR/0286/65/000/019/0050/0050

AUTHORS: "Gusev, V. I.; Mironov, S. G.; Piskalov, L. M.; Karpov, Ye. N.

ORG: none

TITLE: A device for <u>lubricating vacuum pumps</u>. Class 27, No. 175165 announced by Enterprise of the State Committee for <u>Pefense Technology</u>, SSSR (Predpriyative gosudarstvennogo komiteta po oboronnoy tekhnike SSSR)

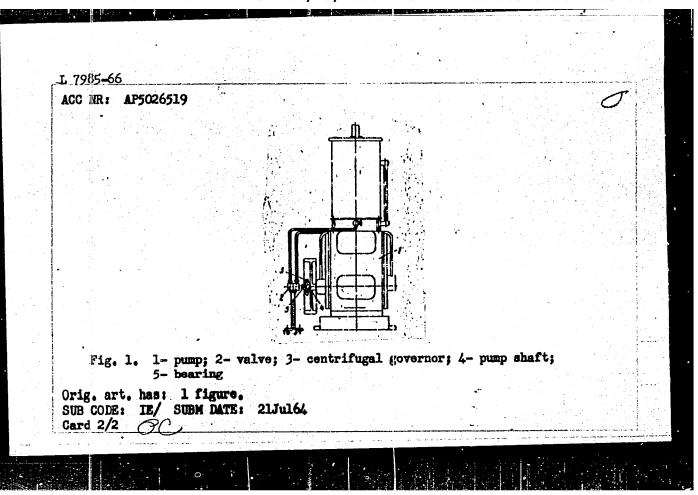
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 50

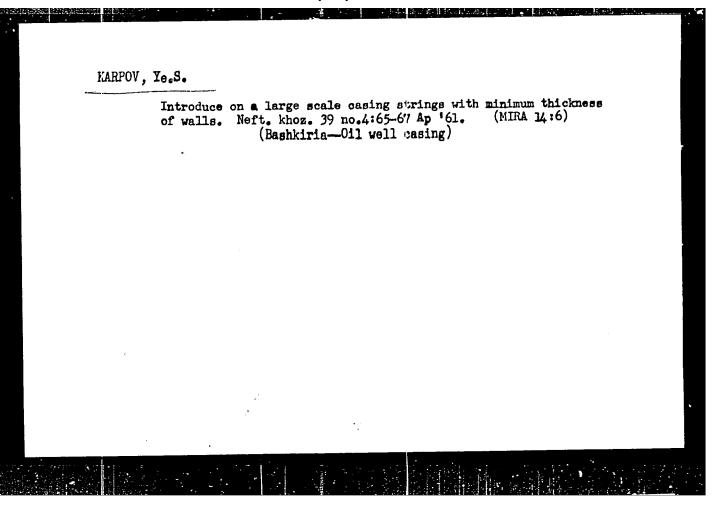
TOPIC TAGS: pump, vacuum pump, mechanical engineering

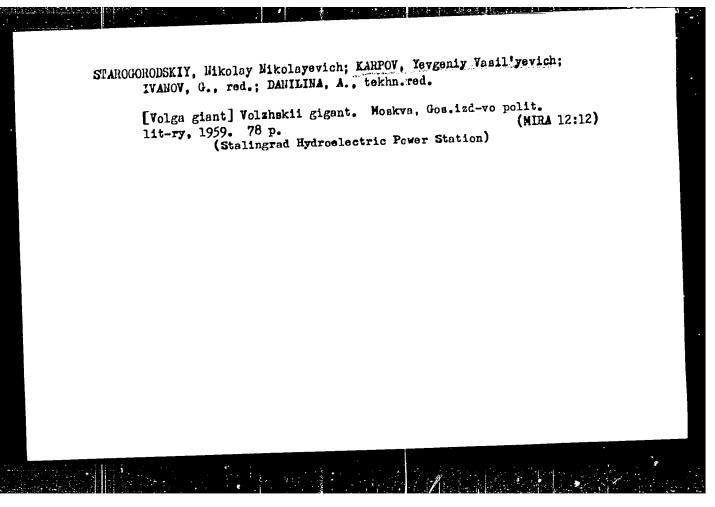
ABSTRACT: This Author Certificate presents a device for lubricating vacuum pumps. The device contains a cutoff valve operated by a centrifugal governor kinematically connected to the shaft of the pump (see Fig. 1). To simplify the construction, the governor is mounted on the shaft bracket, and the movable clutch of the governor is provided with a bearing which opens or closes the valve when the pump is being stopped or started.

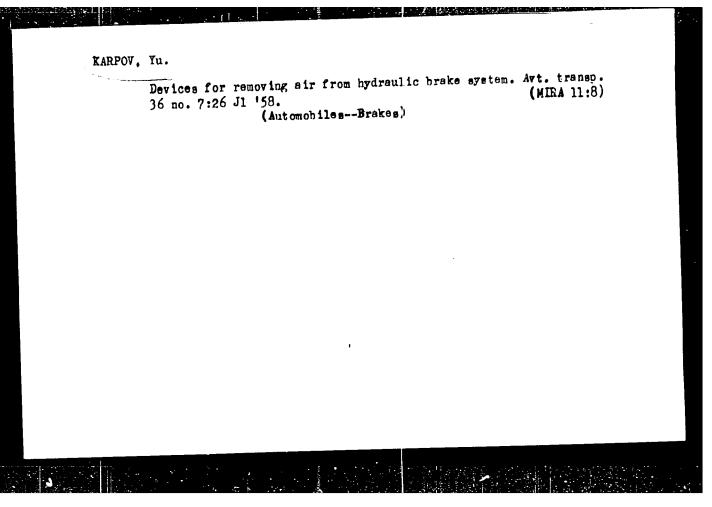
Card 1/2

UDC: 621.521--72









THE RESIDENCE OF THE PARTY OF T

507/29-58-9-26/30 Karpov, Yu., Engineer, Krasnoperov, V., AUTHORS:

Engineer, Okunev, Yu., Engineer

An Unusual Motor (Neobychnyy dvigatel') TITLE:

Tekhnika molodezhi, 1958, Nr 9, pp 37 - 37 (USSR) PERIODICAL:

In the course of their studies at the Leningradskiy ABSTRACT:

elektrotekhnicheskiy institut imeni V.I.Ul'yanova (Lenina) (Leningrad Institute of Electrical Engineering imeni V.I.Ul'yanov (Lenin)) the authors of this paper invented

an electrical motor which they called "dielectric

motor". This is a description of its principle of operation.

This motor has neither a conventional steel stator with a copper winding nor a massive rotor. It operates by

using the principles of static electricity - the interaction of stationary electric charges. The disk does 6000 revs/min.

Attempts were made to increase the speed of the motor by producing the rotor from different materials. The best results were obtained with plexiglass. The speed can also

be increased by placing the rotor in a vacuum, thus

reducing air friction. The power of the motor can be increased by Card 1/3

CIA-RDP86-00513R000720910001-1" APPROVED FOR RELEASE: 06/13/2000

An Unusual Motor

307/29-58-9-26/30

placing it in a high-pressure chamber . In a fluid dielectric the nominal voltage is reduced almost by a factor of 10. As a compensation the speed is considerably reduced owing to the increased friction of the rotor in the fluid. The dieelectric motor is still anything but perfect. Nevertheless it is capable of being used in practical work. If a vane is attached to it it may serve as a ventilator. If the shaft of the rotor is arrested by a spring this motor is transformed into an instrument measuring high d.c.tension. The angle of deflection of the rotor will be proportional to the potential applied to the electrodes. The high speed of such motors and the lacking of a commutator recommends such motors for use in gyroscopes. Although at present it may sound phantastically, there is no denying that in principle such a motor could be used in connection with a radioactive electrostatic generator. There are 3 figures.

Card 2/3

5/0120/64/000/002/0005/0016

AUTHOR: Karpov, Yu. A.; Kontor, Ye. I.; Talenskiy, O. N.

ACCESSION NR: AP4033096

TITLE: Magnetic-discharge cold-cathode pumps (A review)

SOURCE: Pribory* i tekhnika eksperimenta, no. 2, 1964, 5-16

TOPIC TAGS: magnetic discharge pump, vacuum pump, fine vacuum pump, magnetic discharge cold cathode pump, Vacion pump, Penning discharge pump, NEM Soviet make pump

ABSTRACT: A review of the exhaustion mechanism, designs, and applications of magnetic-discharge cold-cathode pumps, based on 1956-63 Soviet sources and 1937-61 Western sources, is presented. Both the advantages and disadvantages of these pumps are listed and characteristics of some Soviet-made pumps are supplied. "In the Soviet Union, pumps of this kind are built for a rate-of-exhaustion of 0.2, 8, 30, 100, 300, and 1,000 litr/sec; also, oilless exhaustion

Card 1/2

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weight, size, NEM-300-1 p	magnetic-dischar and some design o umps are given, a Orig. art. has:	details of Soviet as well as the w	: NEM-30-2, leight and size	NEM-100-2, a	nd S
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ACCESSION NO: APA 020044

s/0032/64/050/003/0306/0308

AUTHORS: Glavin, G. G.; Karpov, Yu. A.

TITLE: Determination of oxygen in rare earth metals and their fluorides

SOURCE: Zavodskaya laboratoriya, v. 30, no. 3, 1964, 306-308

TOPIC TAGS: oxygen, rare earth, rare earth metal, rare earth fluoride, yttrium oxide, gadolinium oxide, argon chamber, vacuum furnace, graphite liner, vacuum

ABSTRACT: The authors have worked out a method for determining oxygen in rareearth metals and their fluorides by vacuum fusion, using a platinum tank, graphite liners, and an argon chamber. They have undertaken this study because of the lack of sensitivity or precision in other methods: The vacuum-fusion method makes use of oxygen extraction from rare-earth metals and their fluorides by thermal dissociation of oxides. The authors used the method of Yu. A. Klyachko and Ye. M. Chistyakova (Zavodskaya laboratoriya, XXVI, 12, 1335, 1960) for reducing the oxides. Degassing of a set of graphite liners was carried out for an hour at 1900C in the vacuum furnace of an argon chamber. The samples were then placed in the graphite

Card 1/2

CIA-RDP86-00513R000720910001-1" **APPROVED FOR RELEASE: 06/13/2000**

ACCESSION NO: AP4020044

liners, which were set in a charging apparatus. The gas was extracted from the samples at a temperature of 1850C for a period of 15 minutes. Free F was not given off by the vacuum furnace, but formed fluorine-carbon compounds was formed. The additional fluorides did not affect the extraction of oxygen from yttrium and gadolinium oxides. The sensitivity of the method is 0.01% and the reproducibility in the concentration interval 0.1-0.6% is 20%. Orig. art. has: 2 figures and 3 tables.

ASSOCIATION: Gosudarstvenny*y nauchno-issledovatel'skiy i proyektny*y institut redkometallicheskoy promy*shlennosti (State Scientific Research and Planning Institute of the Rare-Metal Industry)

SUBMITTED: 00

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: PH

NO REF SOV: 003

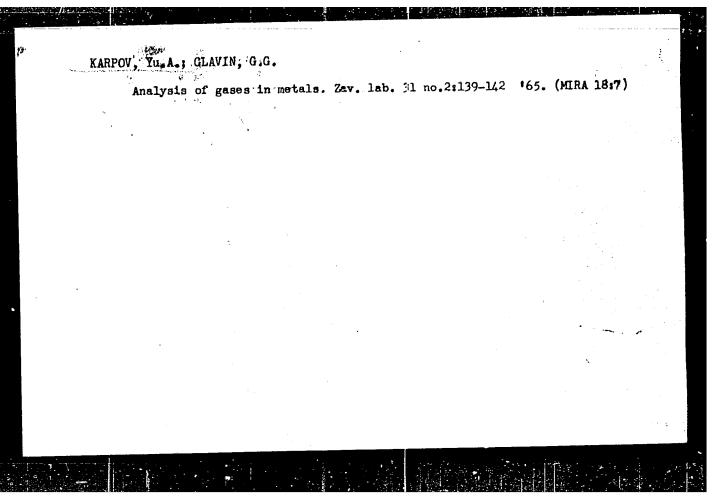
OTHER: 003

Card 2/2

CHUPARHIN, M.S., GLAVIN, G.G., KARLOV, Yu.A., KORMILITRYN, D.V.

Mars spectrum analys s of oxygen in titanium. Bokl. AN SSSR 158 no.33
689-691 S *64.

l. Institut geokhimii i ansiiticheskoy khimii im. V.I.Vernadskogo AN SCSR. Predstavlenc akademikom 4.P.Vinogradovym.



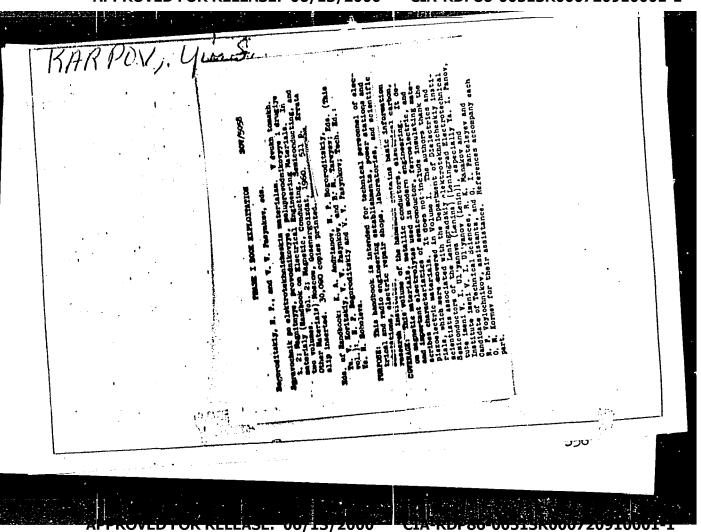
KARPOV, Yu.A.; GLAVIN, G.G.; ZAV'YALOV, O.V.; IVANOVA, R.V.

Evaluation of the sensitivity of oxygen detection in niobiwa

Evaluation of the sensitivity of oxygen detection in hiodina by the vacuum melting method. Zav.lab. 31 no.10:1190-1191 165.

(MIRA 19:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoy promyshlennosti.



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Deluder 1.3. and T.M. Exidely. Photoelectrets and the Electrophic receives [Lasthut Aris-valleged/11.3.55.53, Mosew (Institute of Cristallagesh); lademy of Sciences USER, Mosew); Cobide, A.B., and T.F., Sazgiranka On Charge Stability of Inorganic Slectrets (Parts Lastitute Inset P.M. Lobder, AS USER, Miscov)	Destrocheming, D.A., and T.A. Chareler. Use of Contial Resonators for bressuring Polymer Dislocities Cosses and Specific Industrys Copyritance in Relation to Temperature (Institute of Right Holermine Compounds, Academy of Sciences USSR, Leanagrad)	Loslovskiy T.To. Problems of the Dynamic Theory of Thermal Prements in 201101. Liver, [0.3], V.A. Krisnoperry, [3.7]. Okuney, and V.F. Papyker. On the Liver [0.3], V.A. Krisnoperry, [3.7]. Okuney, and V.F. Papyker. On the Proposition of the Control of C	ALL Deletti: Characteristis (E and tg) of Imprepared Cable Latton to the Properties of the Communication (Paper and City) of energy ticheskip institut (Moscow Power Englishering Institute))	<u>R</u>	Parmes, E.M., and E.I. <u>Labydova.</u> Plalactric Properties of Heterogueous Distorting at Superbigh Proquenties Placestra	arbhanglisti, I.V. Dislectic Parasters of Doble Liquid Systems in the Critical Agine [Forders Agricultural Institute] Toffmax. Al. Abrahims Dispertion Observed in Some Dislections at Audio Range [Formesth Agricultural Institute]	Distriction On the Problem of the Static Specific Inductive Capacitance of the Static Specific Inductive Capacitance of Selenganous Distortice (Torqueshaidy selesonbouggetrempy institut (Torquesh Agricultural Institute))	Planton 1.5. Specific Idductive Agestiacce and Delectric Losses of Some General Maintenant in Arrange Mir-Prepared Electric Plaids at Migh Temperature (Stherthy Plainto-Wahmledserkly Fil., Trans (Siberian Physics and Technical Scientific Basearch Institute, Trans)	corradit for Decond All-Chitch Codewnous on the Ryssic of Delectrics hold in Manny at the Fighthesity institute Leads 25 Lebeders (Physics Institute Leads 18 Lebeders) in November 1935 was attended by impresentative of the principal action contains and of the USE and of several other conference and summaries of the discounties which followed presented at the conference and summaries of the discounties which followed. The material in this collection describes the conference which followed the material compounds, and corration. Photosteletes, betweekeitzis crystals, obsaiced compounds, and corration. Photosteletes, betweekeitzis crystals, obsaiced compounds, and corration. Photosteletes, betweekeitzis crystals, obsaiced contains a little of other power presented at the conference shalling with polarizations and in the conference shalling with polarizations is little of other power presented at the conference shalling with polarization little of other breathy and the conference shalling with polarization and contains a little of other breathy and the conference with the conference of the contains a little of other breathy, and the conference of delectricity, which were publicated in the journal literative and the conference of the contains a little of other breathy and the conference of delectricity, which were publicated in the journal literative and the conference of the confe	Sponsoning Africa's Amendada and Committee Committee (1988). State Law Decisions (1988) Committee Committee (1989) Col. Changes, Dector of Physics and Mathematics (Decembed), and I.T. Filippers, Condidate of Physics and Mathematics (Decembed), and I.T. Filippers, Condidate of Physics and Mathematics. Finence: This collection of reports to intended for scientists investigating the physics of dishetrics.	Tempopulary kinferentity po fitter dielektritor. 2d. 1955 Finita dielektrikor; trudy wiczoy wpacyninoy kinferentsii. (Physics of Dielectric) Francetions of the 2d All-Maio Conference on the Physics of Dielectrics! Norce, labero AN SIGE, 1900, 532 p. Errats slip inserted. 5,000 copies printed.	X3.73
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S/194/61/000/009/036/053 D249/D302

9,4310

AUTHOR: Karpov, Yu.S.

TITLE: On the subject of fluctuating noise temperature

dependence in junction transistors

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,

no. 9, 1961, 22, abstract 9 D141 (Izv. Leningr. elektrotekhn. in ta, 1960, no. 43, 174-182)

TEXT: Results in the form of graphs are given of noise factor (F) measurements carried out at 1000 c/s and in the temperature range of 60 - 8500 on transistors types [1401 (P401), P402, P403 and P101 (n-p-n). In the above temperature range all samples exhibit a minimum value for F which, apparently, is explained by the surface noise in the case of the lower temperatures, and by the leakage noise in the case of the higher temperatures. The measurements show that for a given emitter current the fluctuation noise is independent of temperature while the thermal noise increases

Card 1/2

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On the subject of ...

monotonically with temperature. The experimental curves obtained for the two types of transistors, the n-p-n and p-n-p, correspond to each other. A description is given, including the block diagram, of the transistor noise-measurement set-up, whose voltage gain is of the order of a few millions. of the order of a few millions. It references. Abstracter's note: Complete translation

Card 2/2

CIA-RDP86-00513R000720910001-1" APPROVED FOR RELEASE: 06/13/2000

23127 8/181/61/003/005/032/042 B108/B209

9,4340 (1003, 1143)

Karpov, Yu.

TITLE:

Temperature dependence of low-frequency conductivity fluctuations in reversely biased germanium p-n junctions

PERIODICAL: Fizika tverdogo tela, v. 3, no. 5, 1961, 1571 - 1573

TEXT: The author presents the results of measurements of the temperature dependence of low-frequency conductivity fluctuations in p-n junctions in germanium with reverse bias. The junctions were obtained by introducing indium into n-type germanium (resistivity of about 1 ohm. cm) by fusion in a hydrogen atmosphere. The samples were etched electrolytically, rinsed, dried in a vacuum furnace, and sealed in dry air. The spectral density

of the noise current $\frac{i_n}{i_n}$ served as a measure of fluctuations, where $\frac{i_n^2}{i_n}$ is the mean square noise current of the short-circuited diode in the frequency band Δf . Measurements were made at 75 cps. The noise band Δf passing the measuring amplifier was 8 cps. The fluctuations at this Card 1/3

23127 S/181/61/003/005/032/042

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Temperature dependence of ...

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frequency are considerably higher than the shot effect and thermal noises. so that these may be neglected. Figs. 1 and 2 show the spectral density of the noise current as depending on temperature for various voltages. The rise in fluctuation intensity shown by some of the samples at higher temperatures is related to leakages. It is believed that the rise in fluctuation intensity at low temperatures observed in all samples is connected with a carrier avalanche in the junction layers. The most probable site where such a particle avalanche will arise is the boundary between a p-region and an n-region reaching the surface of the germanium sample. There are 2 figures and 3 references: 1 South t-bloc and 2 non-Soviet-bloc. The reference to an English-language; publication reads as follows: W. Fonger. Sb. "Transistors I", RCA Lab. Princeton, 239, 1956.

SUBMITTED: November 30, 1960

Card 2/3

24911

S/181/61/003/006/008/031 B102/B201

9,4340

AUTHOR:

Karpov, Yu. S.

TITLE:

Experimental verification of the existence of two

components of low-frequency fluctuations in devices with

p-n junctions

PERIODICAL: Fizika tverdogo tela, v. 3, no. 6, 1961, 1691-1693

TEXT: W. Fonger (Transistors I, RCA Lab., Princeton, 239,1956) introduced the notion of two chief components of low-frequency noises in studies of low-frequency noise in semiconductor diodes and triodes; the first component is caused by fluctuations of the rate of recombination surfaces, and the other is the leakage noise. With a view to checking this assumption the author of the present paper studied the noise properties of junction-type transistors at low frequencies. He succeeded in showing that there are at least two different sources of low-frequency fluctuations, each of which having a frequency spectrum which is about inversely proportional to the frequency. Fonger's theory was confirmed and completed. The author worked with germanium p-n-p transistors having Card 1/3

24911

Experimental verification of the ...

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the following parameters: resistivity: 1 ohn-cm, reverse current \triangleq $3\mu\text{a}$ (at 5v collector voltage), current amplification \geq 0.95. The noise coefficient was chosen as the noise characteristic to indicate by how many times the total level of the inner fluctuations in the transistor exceeds the thermal fluctuations of the generator impedance $R_{\mathbf{g}}(\mathbf{all}$ referred to the input). If the noise coefficient is denoted by F. the following relation will hold for the mean square of the noise voltage (referred to the transistor input): $\overline{u_1^2} = F4kTR_g\Delta f$ (k being the Boltzmann constant, T the absolute temperature, Δ f the narrow frequency band in which the noise is measured). The measurements were conducted at different frequencies in the frequency range from 20 cps to 16 kc/sec. Experiments showed that all specimens concerned could be divided into two groups. The transistors of the first group displayed a monotonic growth of the noise coefficients with growing emitter current (in the frequency range in which the low-frequency fluctuations prevailed); it was found typical of the specimens mentioned that practically no low-frequency fluctuations occurred at frequencies above 500 cps with any emitter currents (F was frequency-independent above 1 kc/sec). At 500 kc/sec the low-frequency Card 2/3

Experimental verification of the ...

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fluctuations were considerable with 0.2 ma emitter currents. At 175 and 75 kc/sec the low-frequency fluctuations prevailed upon the remaining noise components. Transistors of the first group displayed practically no dependence of F on the collector voltage. In transistors of the second group, F was considerably larger as compared with those of the first group. In those transistors, the low-frequency fluctuations were the chief noise component in the entire frequency range concerned. In specimens of the second group, F was little dependent on the emitter current; it grew, however, quickly with growing collector voltage. This difference between the two groups may be explained in that either one or the other component of low-frequency fluctuations prevailed. This could also be proved. The two sources of low-frequency fluctuations have a spectrum of the form $1/f^n$, where f is the frequency and $n \approx 1$. There are 2 figures and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The references to English-language publications read as follows W.Fonger. Transistors I, RCA Lab., Princeton. 239, 1956; A. Van der Ziel. Proc. IRE. 46. No.6, 1019,1958,

SUBMITTED:

December 23, 1960

Card 3/3

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3/181/62/004/003/022/045 B125/B108

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AUTHORS:

Mirlin, D. M., and Karpov, Yu. 3.

TITLE:

Recombination fluctuations of the photocurrent from

illumination of p-n transitions

PERIODICAL: Fizika tverdogo tela, v. 4, no. 3, 1962, 700-704

TEXT: The intensity spectrum $\ln^2_f = i^2 (\frac{1}{\sqrt{g}})^2 \Delta s_f^2$ (3) of the photocurrent fluctuations owing to fluctuations in the recombination rate s during the illumination of p-n junctions (germanium with fused-in indium) was studied in the frequency range of $10^2 - 5 \cdot 10^3$ cps. i=eIQ denotes the ideal net current of the photodiode; I is the number of light quanta absorbed per unit time, q the quantum yield of the photoceII. Twelve samples with distance: of d = 0.05 - 0.5 mm between the illuminated surface and the junction surface were investigated. Fig. 1 shows the typical curves for the spectrum of the intensities of photoc rent fluctuations for three samples with d = 0.09, 0.11, and 0.4 mm. With some kilocycles per second, the fluctuation intensity which is practically Card 1/8

S/181/62/004/003/022/045 B125/B108

Recombination fluctuations of the ...

equal for all samples lies near the shot noise level (25-35 $\mu a)$ of the vacuum photocell. At lower frequencies, an increase in d notably increases the fluctuation intensity, in the thickest samples to about an order above the shot noise. In the spectrum of thin samples, which is continuous in the frequency range investigated, a low-frequency component appears when these samples are illuminated with a broad light beam. In thin samples, the intensity of fluctuations is nearly proportional to the first power of the photocurrent, even at low frequencies. In thick samples, however,

on irradiation of the samples with small absorption coefficients, the intensity of low-frequency fluctuations decreases. On longwave irradiation, the pair production is rather uniformly distributed over the entire thickness of the sample, and the effect of surface recombination on the photocurrent is less. M. I. Kornfel'd and G. Ye. Pikus are thanked for discussions. There are 4 figures and 11 references: 5 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: M. I. Kornfeld, D. N. Mirlin. Proc. Intern. Conf. on Semicond. Phys., Prague, 262, 1960; U. F. Gianola. J. Appl. Phys., 27, 51, 1956; D. E. Sawyer, R. H. Rediker. Proc. IRE, No 6, 1122, 1958; Card 2/4

<u>L 25248_65</u> EWT(1)/EWG(k)/EEC(k)-2/T/EEC(b)-2/EWA(h) Pm-4/Pz-6/Ppb IJP⁽c) ACCESSION NR: AR4045038 S/0275/64/000/005/E021/E021

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Evodnyty tom, Ats. 58143

AUTHOR: Karpov, Yu. S.

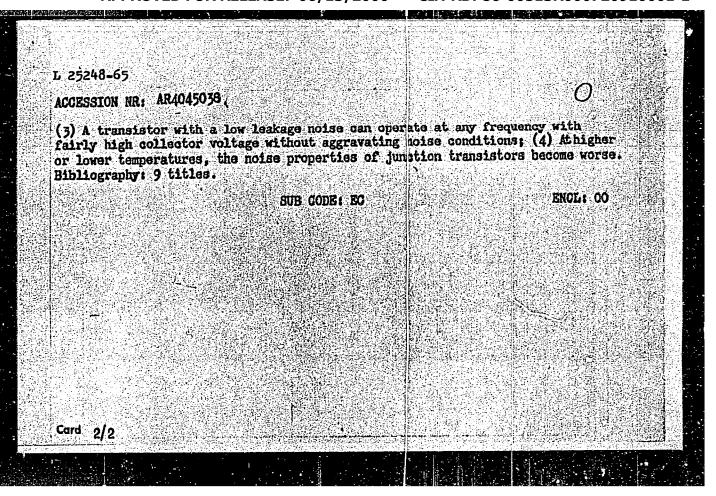
TITLE: Low-frequency noise in junction transistors

CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, 1y*p 51, 1963, 32-44

TOPIC TAGS: transistor, junction transistor, transistor noise

TRANSLATION: The noise of a common-emitter junction transistor was investigated in the AF range, with a master-oscillator resistance of 600 ohms. Effects of frequency, emitter current, collector voltage, and temperature on the noise factor were studied. These conclusions are reported: (1) The collector-junction leakage is largely responsible for noise characteristics; heavy leakage results in a much higher noise factor and aggravates the dependence of the noise factor on temperature and collector voltage; (2) For transistors with negligible leakage noise, used at frequencies under 1 kc, minimum possible emitter currents are recommended; this results in a considerable reduction in the noise factor;

Card 1/2



KARPOV, Yu.S.; POLYAKOV, Yu.A.

Errors in measuring the noise coefficient of transistors at low frequencies. Izv. vys. ucheb. zav.; prib. 8 no.2:7-10 '65. (MIRA 18:5)

l. Leningradskiy elektrotekhnicheskiy institut imeni Ul'yanova (Lenina). Rekomendovano kafedroy avtomatiki i telemekhaniki.

ACC NR. AP6034939

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SOURCE CODE: UR/0146/66/009/005/0020/0022

AUTHOR: Mertins, V.; Karpov, Yu. S.

ORG: Leningrad Electrotechnical Institute im. V. I. Ul'yanov -Lenin, Novgorod Branch (Novgorodskiy filial Leningradskogo elektrotekhnicheskogo instituta)

TITLE: Low frequency voltage fluctuations in film resistors

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 5, 1966, 20-22

TOPIC TAGS: fixed resistor, signal to noise ratio, low frequency

ABSTRACT: Low frequency noise in the 120-20,000 cps range of thin film and MT, VS, and ULM type commercial resistors was measured. The commercial resistors had nominal values from 12 to $180~\mathrm{k}\Omega$; the thin film resistors, made from vicuum-deposited Nichrome on a glass base, had nominal values from 2 to $70~\mathrm{k}\Omega$. The measurements were made by comparing noise voltages developed across samples to those developed across a standard, reactance free, wire-wound resistor. The measuring equipment included a low-noise tube-type preamplifier with a calibrated attenuator, and an RNS voltage analyzer. The noise for all of the samples decreased with frequency and was relatively independent of the applied voltage across resistors. Orig. art. has: 2 figures and 1 formula.

SUB CODE: 09/ SUBM DATE: 31Jan66/ ORIG REF: 003/ CTH REF: 008

Card 1/1

UDC: 621.391.822.3

KARPOVA, A.; NEZHEVENKO, G.

Machine Tools

Improve tools and technology Tekh. molod. no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

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Efficiency, Industrial

Attention to spare time. Tekh. molod. Nc. 3 (1952)

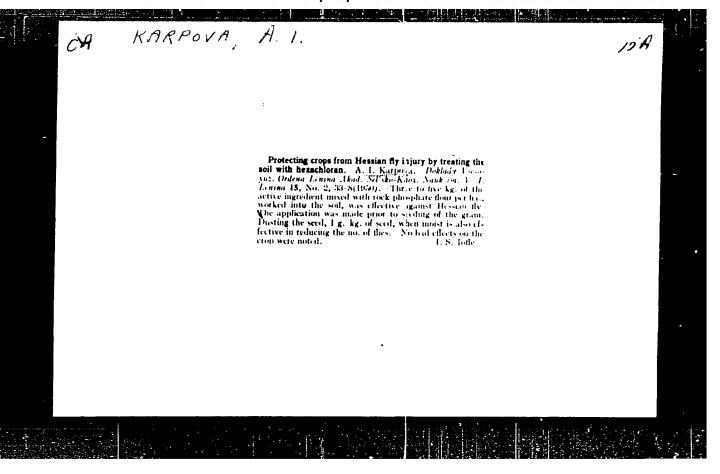
Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

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ARBUZOV, G.A., prof., doktor tekhn. nauk; AFANAS'YEV, A.A., dots., kand. tekhn. nauk; YEGOROVA, Ye.A.; KARZINKINA, K.D.; KARPOVA, A.A.; MURVANIDZE, E.M.; MIKHAYLOV', A.N., prof., doktor tekhn. nauk, red.; KACHKO, I.L., insh., red.; MRASNOBRODSKAYA; L.L., red.; YURCHENKO, D.I., red.; MIKHLIN, E.I., tekhn. red.

[English-Russian leather and footwear dictionary] Anglorusskii kozhevenno-obuvnoi slovari. Pod obshchei red. A.M.Mikhailova. Moskva, Fizmatgiz, 1963. 202 p. (MIRA 16:7)

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GRIGOR'YEVA, T.G.; KARPOVA, A.I.

Feeding specialization of the frit fly Oscinella pusilla Meig. in the trans-Volga region. Zool.zhur. 32 no.5:893-902 S-0 '53. (MLRA 6:10)

1. Vsesoyuznyy nauchno-issledovatel skiy institut zashchity rasteniy.
(Volga valley--Frit flies) (Frit flies--Volga valley)

Some data on the ecology and harmfulness of the frit fly. Zool zhur.
35 no.5:729-740 My '56. (MERA 9:9)

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MARPOVA, A.I. Development and harmfulness of the frit flies Oscinella pusilla Mg. and O. frit L. (Diptera, Chloropidae) occurring on corn in non-Chernozem regions [with summary in English]. Ent. oboz. 37 (MIRA 11:12)

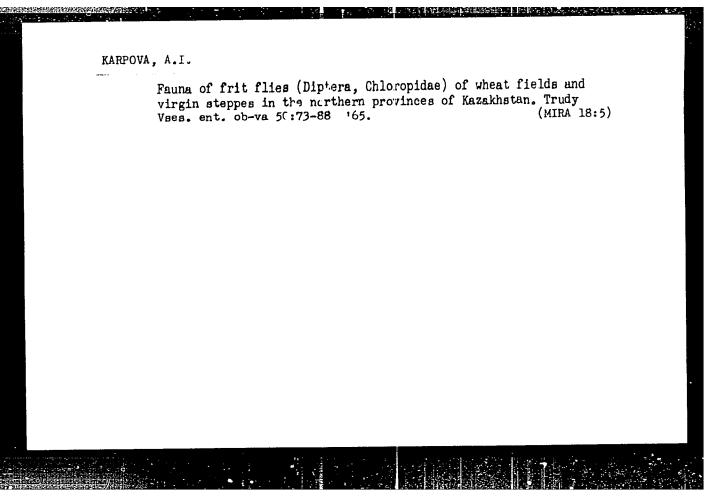
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no.4:812-819 '58.

CIA-RDP86-00513R000720910001-1" APPROVED FOR RELEASE: 06/13/2000

Development and food relations of the corn borer Pyrausta mubilalis
Hb. (Lepidoptera, Pyralidae) in new corn regions. Ent. oboz. 38
no.4:724-733 '59 (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy
(VIZR), Leningrad.
(Bryansk Province--European corn borer)



KARPOVA, A.I.

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Species and population dynamics of injurious insects in seedless corn fields. Ent. oboz. 44 no.3:495-502 65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel skiy institut zashchity rasteniy, Leningrad.

Chemical Abstracts Chemical Abstracts May 25, 1954 Fhotography Chemical abstracts Chemical Abstracts May 26, 1964 Fhotography Chemical Abstracts May 27, 1964 Component of gelatin, Yu. S.S.S.R. 91, 299–300 (1833)—Helect of 3 gelatins on the decolorization of 3.3-dischythilatricarbocyanine iodite (1) was detd. at 41.3 for mixts of 100 mt. 0 4% arq. below. sensitizer content of the gelatin same adetd. by reaction with Abstract of the gelatin same adetd. by reaction with Abstract of the gelatin same adetd. by reaction with Abstract of the gelatin same adetd. by reaction with Abstract of the gelatin same at the decolorization of 1, and the Gelatin same in the Abstract of 100 mt. of 4% and 14% arg. and 14%