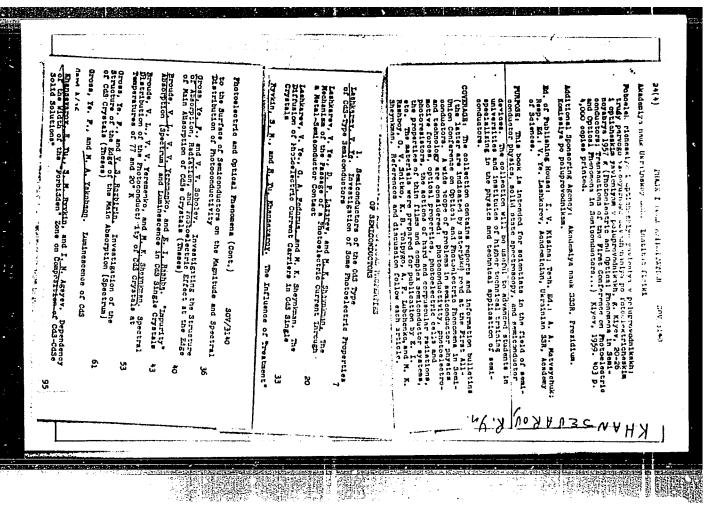
"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721730009-2



9.4160 (1137, 1395) 9.4177 S/181/61/003/001/036/042 B102/B204

AUTHORS:

Ryvkin, S. M., Paritskiy, L. G., Khansevarov, R. Yu., and

Yaroshetskiy, I. D.

TITLE:

Investigation of the kinetics of impurity photoconductivity

for the purpose of determining the parameters of local

levels

PERIODICAL:

Card 1/8

Fizika tverdogo tela, v. 3, no. 1, 1961, 252-266

TEXT: An investigation of impurity photoconductivity is not only of interest in principle, but is also of practical importance for studying the local electron states in the forbidden band and especially of its interaction with exciting radiation. Apart from an earlier paper by the authors, relaxation processes of impurity photoconductivity have hitherto not been investigated in detail; this was, however, the aim of the present voluminous paper. The authors set themselves the task of investigating theoretically the most important cases of photocurrent relaxation during excitation in the impurity region. The rules governing the kinetics of impurity photoconductivity have certain peculiar features as is shown

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APPROVED FOR RELEASE: 09/17/2001

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CIA-RDP86-00513R000721730009-2

Investigation of the kinetics of ...

S/181/61/003/001/036/042 B102/B204

here, due to which impurity photoconductivity relaxation differs essentially from that of intrinsic photoconductivity. An exact analysis of these rules shows that an experimental investigation of the kinetics of impurity photoconductivity may serve the purpose of determining various parameters of impurity centers as, e.g., the photon capture cross section, the trapping cross section for free carriers, as well as the energy position of the impurity level in the forbidden band, the concentration of centers and the degree of their completion. In part 1 of this paper, the most important rules of the kinetics of impurity photoconductivity in the excitation of carriers for one type of local centers are dealt with. This is done on the basis of an example of a semicondustor, in whose forbidden band there is a sort of local level with concentration M; these levels are assumed to be in the upper half of the band, so that they are in heat exchange with the conduction band. This semiconductor is irradiated with monochromatic light of such a wavelength that only electrons pass from the local levels onto the conduction band, and that monopolar impurity photoconductivity occurs. The equation of motion (13) $d \Delta n/dt = (m_0 - \Delta n)qJ - \gamma \Delta n(N_{cM} + M - m_0 + n_0 + \Delta n)$

Card 2/8

Investigation of the kinetics of ...

S/181/61/003/001/036/042 B102/B204

is set up, where q is the capture cross section of an electron on the M-level for a photon; $m=m_0-\Delta m$ is the electron concentration on the level M; γ is the recombination coefficient; J is the light intensity; $n=n_0+\Delta n$ is the electron concentration in the conduction band; n_0 is the dark concentration of the electrons; N_{CM} is the effective state density in the conduction band; and $\Delta m = \Delta n$. The solution in the case of excitation by square light pulses is, for the case of growth (switching on of light), given by

 $\Delta n_{n} = A \operatorname{th} (\gamma A t + B) - C, \qquad (1.6)$ $A = \sqrt{C^2 + m_0 \frac{qf}{1}}; \quad B = \frac{1}{2} \ln \left(1 + \frac{2C}{\Delta n_{eq}} \right); \qquad C = \frac{1}{2} \left(N_{eN} + M - m_0 + n_0 + \frac{qf}{1} \right),$

and for switching off

Card 3/8

Investigation of the kinetics of ...

S/181/61/003/001/036/042 B102/B204

$$n_{e_{i}} = \frac{\Delta n_{e_{i}} \exp\left(-\frac{f'}{S_{e_{i}}}\right)}{1}$$

$$1 + \gamma \Delta n_{\rm ev} \tau_{\rm e.} \left[1 - \exp\left(-\frac{\gamma}{\tau_{\rm e.}}\right) \right]^{-\gamma} \tag{1.7}$$

$$\tau_{o.} = \frac{1}{\gamma \left(N_{cM} + M - m_0 + n_0\right)}$$

and the steady concentration of non-equilibrium carriers is given by

$$\Delta n_{\rm st} = \Delta n_{\rm ex} = \frac{N_{\rm eff} + M - m_0 + n_0 + \frac{qf}{\gamma}}{2} \times \left[\sqrt{1 + \frac{4m_0qf}{\gamma} - 1} - 1 \right]. \tag{1.8}$$

For low light intensities, $\Delta n_{st} = m_0 q J/\gamma (N_{st} + M + m_0 + n_5)$, and for high intensities, $\Delta n_{st} \simeq m_0$. The equation of motion is solved also under Card 4/8

Investigation of the kinetics of ...

S/181/61/003/001/036/042 B102/B204

different conditions and for different special cases, and expressions are derived for the relaxation times. The dependence of relaxation times on light intensity is investigated, and explicit formulas are derived for q. In part 2 of this paper, the effect of a constant exposure in the impurity region upon the kinetics of impurity photoconductivity is investigated.

(1.3) acquires the form

$$\frac{d\Delta n}{dt} = (m_0 - n_{J_0}) q\Delta J - \gamma \Delta n \times \times \left(N_{eM} + M - m_0 + n_0 + 2n_{J_0} + \Delta n + \frac{qJ_0}{\gamma} + \frac{q\Delta J}{\gamma}\right), \tag{2.1}$$

where J_0 is the intensity of constant exposure, ΔJ the amplitude of the square light pulse, and n_{J_0} the steady carrier concentration in the conduction band. The solutions (growth, drop, steady) have the form

$$\Delta n_{H} = \Delta n_{st} [1 - \exp(-t/\tau_{H})]; \Delta n_{c} = \Delta n_{st} \exp(-t/\tau_{c});$$
 and

Card 5/8

Investigation of the kinetics of ...

S/181/61/003/001/036/042 B102/B204

 $\Delta n_{st} = (m_o - n_{J_o}) q \Delta J \tau_{H}$. For γ

 $\frac{T = \frac{q_{J0}}{M \frac{n_0 + n_{J_0}}{m_0 - n_{J_0}} - n_0 - n_{J_0} - N_{sN}}$

(2.13)

is obtained. In part 3 of this paper, the effect of constant exposure within the region of intrinsic absorption upon the relaxation of impurity photoconductivity is investigated. This is done on the basis of a simple example of "absolute adhesion levels" (levels for which the trapping cross intensity I, which conveys electrons from the valence band into the conduction band; electron-hole recombination was carried out over the level S. Here, the most simple case of monopolar electronic intrinsic investigated. The kinetics of the electron transitions is described by

$$\frac{dn}{dt} = \beta k J - \gamma n (M - m) \rightarrow \gamma m N_{ex} \rightarrow q m J - \frac{n}{s}, \qquad (3.1)$$

 $\frac{dm}{dt} = \gamma n (M - m) - \gamma m N_{\sigma N} - q m J, \qquad (3.2)$

Card 6/8

Investigation of the kinetics of ... S/181/61/003/001/036/042

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where β is the quantum yield of the intrinsic effect, k the absorption coefficient in the intrinsic region, whose solution for switching in long-wave light is given by

$$\Delta n = \frac{qm_0\Delta f\left(\frac{1}{\tau_N} + q\Delta f + r_1\right)\left(\frac{1}{\tau_N} + q\Delta f + r_2\right)}{\frac{1}{\tau_N}\left(\frac{1}{\tau_N} + q\Delta f\right)(r_1 - r_2)} \left[\exp\left(r_2t\right) - \exp\left(r_2t\right)\right],$$
(3.9)

r Ac

$$r_{1;\,\mathbf{z}} = -\frac{1}{2} \left(\frac{1}{\tau} - \mathbf{i} - \frac{1}{\tau_N} - \mathbf{i} - \frac{1}{\tau_N} - \mathbf{i} - q\Delta J \right) = \frac{1}{\tau_N}$$

$$= \sqrt{\frac{1}{4} \left(\frac{1}{\tau} - \mathbf{i} - \frac{1}{\tau_N} - \mathbf{i} - \frac{1}{\tau_N} + q\Delta J \right)^2 - \left(\frac{1}{\tau \tau_N} - \frac{q\Delta J}{\tau_N} \right)}$$

and for switching off long-wave light by

Card 7/8

80202

Investigation of the kinetics of ...

S/181/61/003/001/036/042 B102/B204

$$\Delta n = \frac{q m_0 \Delta f \left(r_1 + \frac{1}{\tau_N}\right) \left(r_2 + \frac{1}{\tau_N}\right)}{(r_1 - r_2) \left(\frac{1}{\tau_N} + q \Delta f\right)} \left[\exp\left(r_1 t\right) - \exp\left(r_2 t\right)\right], \quad (3.10)$$

$$r_{1,\,2} = -\frac{1}{2} \left(\frac{1}{\tau} + \frac{1}{\tau_N} + \frac{1}{\tau_N} \right) \pm \sqrt{\frac{1}{4} \left(\frac{1}{\tau} + \frac{1}{\tau_N} + \frac{1}{\tau_N} \right)^2 - \frac{1}{\tau_N}}$$

The course of the relaxation curves is discussed in detail. The authors thank Yu. A. Zibuts for help in calculations. There are 11 figures and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc.

ASSOCIATION: Leningradskiy fizimo-tekhnicheskiy institut AN SSSR imeni akad. A. F. Ioffe (Leningrad Institute of Physics and Technology of the AS USSR imeni Academician A. F. Ioffe)

July 16, 1960

Card 8/8

RYVKIN, S.M.; KHANSEVAROV, R.Yu.; YAROSHETSKIY, I.D.

Impurity photoconductivity in germanium irradiated by gammaquanta. Fiz.tver.tela 3 no.10:3211-3219 0 :61. (MIRA 14:10)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad. (Semiconductors, Effect of radiation on)

L 19568-63 EWP(q)/EWT(m)/EWP(B)/BDS AFFTC/ASD JD AP3007517 S/0181/63/005/009/2704/2706

AUTHOR: Khansevarov, R. Yu.

TITLE: Investigation of impurity conductivity in germanium irradiated with fast electrons

SOURCE: Fizika tverdogo tela, v. 5, no, 9, 1963, 2704-2706

TOPIC TAGS: irradiation, radiation effect, radiation damage, impurity photoconductivity, fast electron irradiation, irradiated germanium radiation defect, n type germanium

ABSTRACT: An experimental study was conducted of impurity photoconductivity in n-type Ge with an initial concentration $n_0=2\times10^{15}$ cm⁻³, bombarded with 2-Mev electrons. The degree of irradiation was such that the Fermi level was located sufficiently high above the $F_{\rm p}=0.2\,{\rm ev}$ level so that at the temperature at which measurements were made (80K), the $E_{\rm c}=0.2$ ev level was practically filled with electrons. It was determined that when the Fermi level lies between the $E_{\rm c}$ and $E_{\rm c}=0.2$ ev levels, the impurity photoconductivity of Ge bombarded with 2-Mev electrons is of the same type as that of Ge irradiated

· Card 1/2 ·

L 19568-69 ACCESSION NR: AP3007517

with 2-Mev y-rays. The kinetics of impurity photoconductivity is in qualitative agreement with previously developed theory (YTT, v. 3, 252, 1961). The results of the paper cited were used to determine the cross section for capture of a photon (q) by an electron and the coefficient of recombination (yn) of electrons for the Ec - 0.2 ev level. It was found that for 0.3-ev photons q = 4-8x10-16 cm⁻³ and yn = 0.025-1x10⁻¹² cm³sec⁻¹. A decrease in photoconductivity was observed in all of the specimens. "The author thanks S. M. Ry*vkin for a discussion of results and Y. D. Yaroshetskiy for providing the specimens of irradiated Ge." Orig. art. has: 2 figures and 1 table.

ASSOCIATION: <u>Fiziko-tekhnicheskiy institut im. A. F. Ioffe, AN SSSR,</u> Leningrad (Physicotechnical Institute, AN SSSR)

SUBMITTED: 20Mar63

DATE ACQ: 140ct63

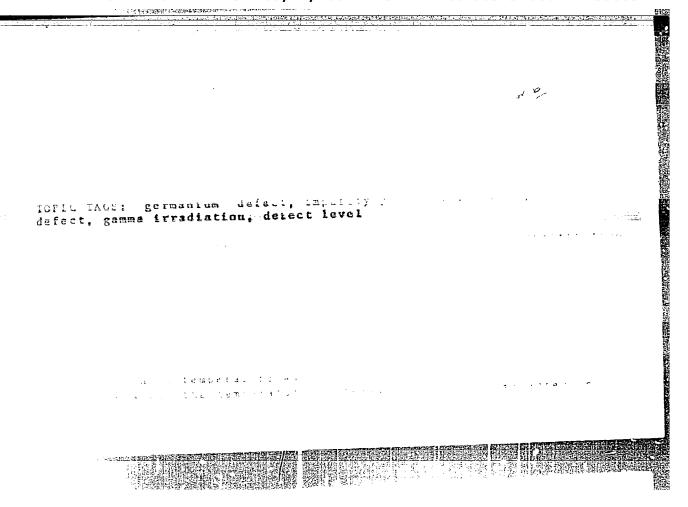
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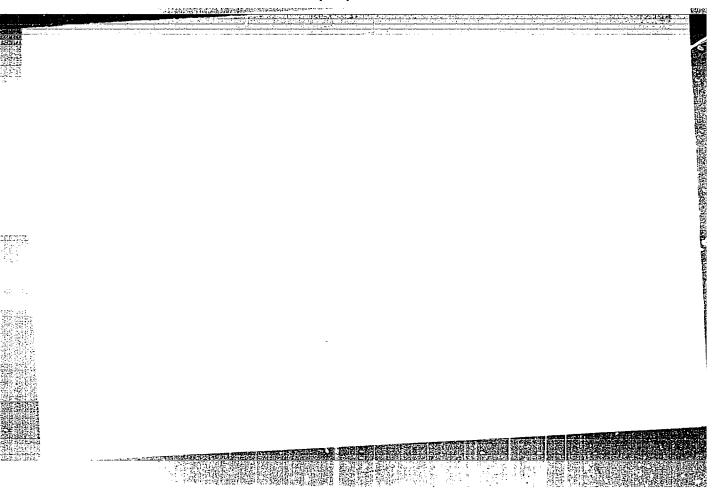
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NO REF SOV: 005

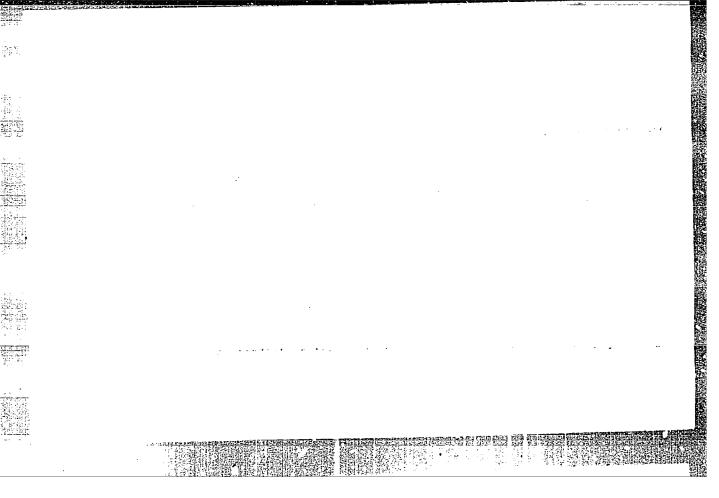
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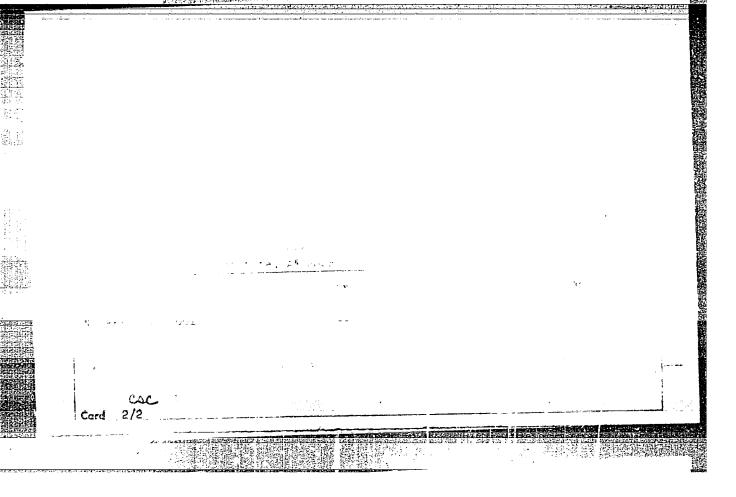
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"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721730009-2

L 32636-6. EWT(m)/EWP(t)/ETI IJF(c) __MD/GG SOURCE CODE: UR/O181/66/063/06/1690/1697 ACC NR: AF6018527 SOURCE CODE: UR/O181/66/063/06/1690/1697 AUTHOR: Mashovets, T. V.; Khansevarov, R. Yu.

ONG: The sicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fizikoteknateheskiy institute AN SSSR) [9]

THEM: Low-temperature gamma irradiation and annealing of indium antimonide

SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1690-1697 [17]

TOPIC TAGS: indium compound, indium antimonide. irradiation, annealing, resistivity, mall constant, photoconductivity, radiation damage, crystal defect

ABSTRACT: In view of the scarcity of published data on the effect of gamma irradiation on InSD, the authors irradiated n-type InSD at 77% (dose rate 2.4x10¹⁰ photoms/cm² sec) with initial electron

ABSTRACT: In view of the scarcity of published data 2.4x10¹⁰ photom/cm² sec) with initial electror Inso, the authors irradiated n-type Inso at 77% (dose rate 2.4x10¹⁰ photom/cm² sec) with initial electror density 2.9 x 10¹³ = 1.6 x 10¹⁴ cm² and p-type Inso with initial hole density 5.3 x 10¹³ cm² and p-type Inso with initial hole density 5.3 x 10¹³ density 2.9 x 10¹⁴ cm². The resistivity, Hall constant, and the spectral distribution of 2.3.3 x 10¹⁴ cm². The resistivity, Hall constant, and the spectral distribution of the photoconductivity were measured before and during irradiation, and during the subsequent annealing. The test results are used to determine the rate of defect subsequent annealing. The test results are used to determine the rate of the irradiation act as tion dose. The results indicate that the defects produced by irradiation act as tion dose. The results indicate that the rate of defect formation is a rather cominized scattering centers, and that the rate of defect formation is a rather complicated function of the irradiation dose. Some hypotheses are advanced concerning plicated function of the irradiated indium antimonide. It is concluded that

Card 1/2

L 32636-66

ACAPPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2

there are several simultaneously acting mechanisms affecting the course of annealing of the radiation defects, and that the rate of this annealing depends on the initial carrier density in the semiconductor. Investigation of the isochronous annealing of defects in the interval 77-300K yielded results that agree with published data, thus indicating that these processes are governed by the main defects always produced after irradiation. Two levels, $E_{\rm C}$ - 0.083 and $E_{\rm V}$ + 0.048 eV, are credited to radiation defects and are classified as donor and acceptor levels, respectively. The authors thank S. M. Ryvkin for interest, V. V. Galavanov for supplying many samples, and L. V. likina for help with the measurements. Orig. art. has: 7 figures and 4 tables.

SUB CODE: 20/ SUBM DATE: 160ct65/ ORIG REF: 007 OTH REF: 003/ATD PRESS: 502 H

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CC NR: AP7005205	
systems of solid solutions, the initial components of which have different zo structures, it was concluded that the zonal structure of solid solutions of the system changes with alloy composition of 2CdTe 3CuInTe2 and that the zona structures of CdTe and CuInTe2 are different. Orig. art. has: 2 figures. [Authors' abstract]	e grocu
SUB CODE: 11, 20/SUBM DATE: none/ORIG REF: 005/OTH REF: 002/	
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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

Card 2/2

ACC NR: AP7013140

SOURCE CODE: UR/0449/67/001/001/0141/0143

AUTHOR: Goryunova, N. A.; Tychina, I. I.; Khansevarov, R. Yu.

ORG: Physico-technical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR); Kiev State Pedagogical Institute im. A. M. Gor'kiy (Kiyevskiy gosudarstvennyy pedagogicheskiy institut)

TITLE: Some photoelectric properties of monocrystals of n-CdGeP sub 2 and p-ZnGeP sub 2

SOURCE: Fizika i tekhnika poluprovodnikov, v. 1, no. 1, 1967, 141-143

TOPIC TAGS: vapor pressure, photoelectric property, germanium single crystal, single crystal growing, IR photoconductor

SUB CODE: 20

application. Orig. art. has: 1 figure.

ABSTRACT: The vapor pressures of all three components in the compounds tested in this article differ sharply. This makes the technology of production of monocrystals extremely complex, which explains the complete absence of information on the physical properties of these compounds in the literature. Using dual temperature systhesis, the authors developed a technique for synthesizing these compounds in consideration of the pressure kinetics of the vapors in

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an ampule. The CdGeP₂ monocrystals were produced by directed crystallization from a stoichiometric melt at constant temperature gradient. This same method was used to produce crystals alloyed with tin, germanium, gallium, arsenic, bismuth and indium. The ZnGeP₂ monocrystals were produced by crystallization from a melt-solution. The first measurments of photoconductivity of these monocrystals showed that they have maximum photosensitivity in the visible and near infrared areas, which will possibly determine the area of their practical

Card 2/2

VILLAKO, K.; EHANGE, L. [Hange, L.]; KHANSON, Kh.[Hanson, H.]; LEYEPER, M. [Looper, M.]

Blood changes in diphyllebothriasis. Med. paraz. i paraz. bol. 27 no.4:494 J1-Ag '58. (MIRA 12:2)

1. Iz kafedry biokhimii (zav. kafedroy - prof. E. Martinson) i iz kafedry propedevtiki vnutrennikh bolezney (zav. kafedroy - dots. E. Raudam) Tartuskogo gosudarstvennogo universiteta.

(TAPEWORM INTECTIONS, blood in, diphyllobothrias is (Rus))

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Effect of soporifies on adrenal cortex function. Probl.
endok. i gorm. 5 no.3:39-42 My-Je '59. (HIRA 12:9)

1. Iz kafedry fakul'tetskoy terapii Tartuskogo gosuklarstvennogo universiteta (zav. - dotsent K.Kyrge).

(THIOPENTAL, eff.

on 17-katosteroids & hydroxycorticosteroids in urine (Rus))

(17-KNTOSTEROIDS, in urine
eff. of thiopental (Rus))

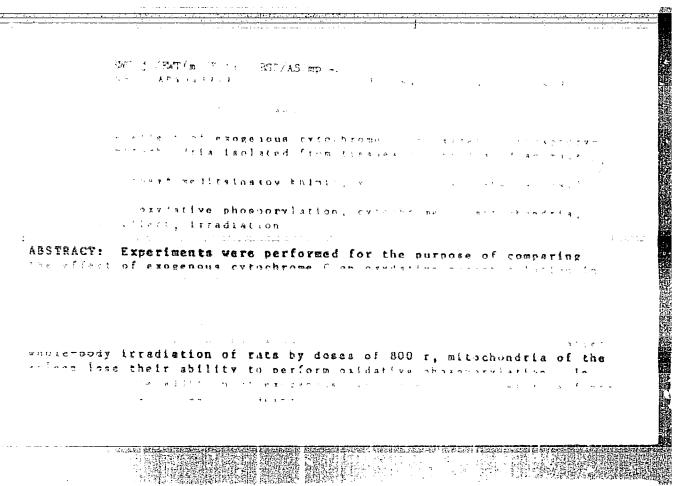
(ADRENAL CORTEX HORMONES, in urine
17-hydroxycorticosteroids, eff. of thiopental
(Rus))
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RIYV, Ya.Ya., kand.med.nauk; KHANSON, Kh.M.

Use of dihydrochlorothiazide (hypothiazide). Vrach. delo no.1: 51-54 Ja '62. (MIRA 15:2)

l. Kafedra fakul'tetskoy terapii i patologicheskoy fiziologii (zav. - dotsent K.Kh.Kyrge) Tartuskogo universiteta i Tartuskaya gorodskaya klinicheskaya bol'nitsa.

(THIADIAZINE) (EDIMA)



"APPROVED FOR RELEASE: 09/17/2001 CIA-RD

CIA-RDP86-00513R000721730009-2

KHARSON, K.P.

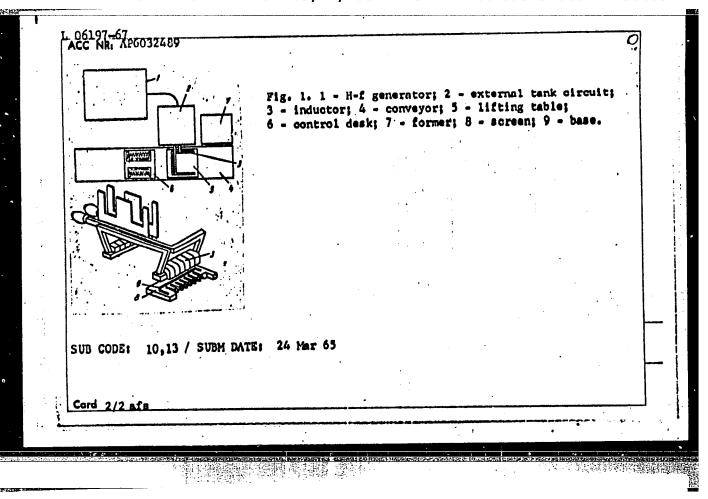
Effect of whole-body X-ray irradiation on the processes of conjugate oxidative phosphorylation and som- mechanisms of their regulation in liver mitochondria of rats. Radiobiologiia 5 no.1:44-48 165.

(MIRA 18:3)

1 TSentral'nyy nauchno-issledovatel'skiy rentgeno-radiologicheskiy institut Ministerstva zdravookhraneniya SSSR, Leningrad.

1	YNANSUV.	AROV, A.A.
	USSR/Engine	ering - Induction heating
	Mard 1/1	Pub. 128 - 17/34
	Authors	Donskoy, A. V., and Khansuvarov, A. A.
	Title	The induction heating with radio-frequency currents of blanks for the forging and stamping industry
	Periodical	Vest. mash. 12, 60-62, Dec 1954
	Abstract	The editorial gives some information concerning the experiment conducted by M. I. Kalinin's Polytechnical Institute in Leningrad, in the field of induction heating of billets and blanks with radio frequencies. A short description of tube generators, induction heating and the change in range of heating temperatures is given. Five USSR references (1949-1953). Diagram; graphs.
	Institution	1
	Submitted	* •••••
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:	L 06197-67 FSS-2/FMT(1)/FMP(v)/FMP(t)/FTI/FdP(k) QS/JD/HM ACC NR: AP6032489 SOURCE CODE: UR/0413/66/000/017/0030/0030 INVENTOR: Alekseyev, F. A.; Balashov, V. A.; Gershonok, M. I.; Grachev, I. M.; Yegorov, B. A.; Kobyl'nitskaya, M. I.; Kozlov, D. A.; Lifshits, A. I.; Mondrus, D. B.; Yegorov, B. A.; Kobyl'nitskaya, M. I.; Kozlov, D. A.; Lifshits, A. I.; Mondrus, D. B.;	
	ORG: none TITLE: Device for high frequency soldering of lead-acid storage batteries. Class 21, No. 185368	
	SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 30 TOPIC TAGS: metal soldering, storage battery ABSTRACT: An Author Certificate has been issued for a device for high-frequency soldering of lead-acid storage batteries. The device contains in h-f generator with an external tank circuit, a multiloop inductor with open ferrite magnetic circuits, a conveyor with a lifting table, a control desk, and an assembling-soldering former equipped with a magnetic screen fastened on a non-magnetic base. Orig. art. has:	
	UDC: 621.352.2:621. 791.357:621.3. 029.5	_
11055E31542		有需要



BRSUVAROV

110-4-14/25

Donskey, A.V., Doctor of Technical Sciences, Professor, AUTHORS:

Borok, A.M., Ivenskiy, G.V., and Khansuvarov, A.A., Engineers.

A High-frequency Electro-thermal Installation of a New TITIE:

Series (Vysokochastotnaya elektrotermicheskaya ustanovka

novoy serii)

Vestnik Elektropromyshlennosti, 1958 No. 4, pp. 42 - 47 (USSR). PERIODICAL:

High-frequency electro-thermal installations with valve ABSTRACT: generators for induction-heating are widely used. A massproduced equipment has lacked anode voltage stabilisation and needs careful screening to reduce radio interference. A new series of equipment has been developed that operates at a frequency of 70 kc/s, so that both the fundamental and the second harmonic are outside the standard frequency range for radio interference. This new equipment, type 3173-67, employs a stabilised anode-controller rectifier. The main technical data are given with a full-circuit diagram in Fig. 1 and the main components of the circuit are described: the rated output is 60 kW. The principles of the grid control system are described. A change of the grid voltage varies the firing angle of The main advantage of the circuit is its simplicity the valve. and although the accuracy of stabilisation is less than that Cardl/2 of existing circuits, it is nevertheless adequate. The equipment

CIA-RDP86-00513R000721730009-2" **APPROVED FOR RELEASE: 09/17/2001** 110-4-14/25

A High-frequency Electro-thermal Installation of a New Series

includes protection against short-circuit, overload and undervoltage. A general view of the equipment is given in Fig.2. It is housed in a number of separate cubicles, whose contents are described.

A wide range of tests was made on the equipment; its characteristics are given in rig.3. These curves show that the generator can easily be adjusted to give the best operating conditions on the most varied loads. The oscillatory power ranges from 40 - 60 kW and the efficiency of the generator valve is 72 - 78%. The power-factor depends on the ignition angles of the thyratron and ranges from 0.72 - 0.93. During the tests careful measurements were made of radio-interference with the results plotted in Fig. 4, which shows that interference is worst at light-loads but is still within the specified limits even when the cubicle doors are open.

There are 4 figures, and 3 Russian references.

ASSOCIATION: The Leningrad Works for High-frequency Installations

(Leningradskiy zavod vysokochastotnykh ustanovok)

SUBMITTED: October 18, 1957

Library of Congress AVAILABLE:

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The Frequency Range for High-Frequency Heating Installations

it would be advisable to allocate frequency bands to such equipment and to permit some relaxation of interference levels in these bands. It is recommended that surface-hardening equipment should use the range 65 - 74 kc/s. The third harmonic of this frequency range is 195 - 220 kc/s, which is already common in industry and should continue to be used. The frequency range of 6.5 ± 10% M/c/s is recommended for valve-generator installations for melting semiconductors. For other applications frequencies ranging from 13 ± 5% to 39 ± 2.5% Mc/s are suggested. The frequencies recommended are all harmonics of the basic frequency 6.5 Mc/s. The use of high-frequency equipment is extending. Unless frequency bands are allocated to such equipment and higher interference levels are permitted in these bands, the situation will soon become impossible.

BLACOVESHCHENSKIY, Gleb Vladimirovich; KHANSUVAROV, A.A., red.

[Use of ferrite magnetic circuits in induction heating]

Primenenie ferritovykh magnitoprovodov v praktike induktsionnogo nagreva. Leningrad, 1964. 12 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Elektrotekhnologicheskie protsessy i ustanovki, no.1)

(MIRA 17:9)

GRAMENITSKIY, V.N.; KHANSUVAROV, K.I.

Standard two-piston vacuum manometer. Trudy inst. Kom. stand. mer i izm. prib. no.66:14-26 '62. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Komiteta standartov, mer i immeritel'nykh priborov pri Sovete Ministrov SSSR.

(Vacuum gauges)

SOV/115-59-2-13/38

AUTHOR:

Khansuvarov, K.I.

TITLE:

Model Spring Pressure Piston Barometer (Obraztsovyy

gruzopruzhinnyy porshnevoy barometr)

PERIODICAL:

Izmeritel'naya tekhnika, 1959,

Nr 2, pp £4-£8

(USSR)

ABSTRACT:

There is a great need for a first class barometer in the meteorological service of the Soviet Union. Currently the most accurate barometers are designed on two principles: 1) Mercury system; 2) Various types of spring systems. The author, in stressing this, cites the following types: Mendeleyev Plant VNIIM mercury barometer: National Standards Buro (USA) automatic mercury barometer: Two Asconia Plant (Western Germany) types - spring microbarometer and spring microbarograph. The ideal barometer must not only be highly accurate, but also easily portable. Mercury barometers are unweildy and require considerable adjustment after being transported. Spring barometers are more compact, but

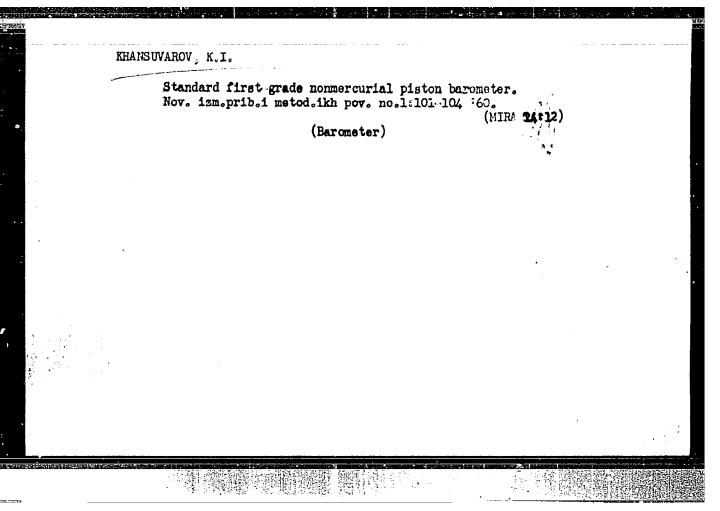
Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

Model Spring Pressure Piston Barometer S0V/115-59-2-13/38

but give unstable readings, which makes them suitable only for approximate measurements. Consequently, a model mercury piston barometer was developed by the author and V.N.Gramenitskiy in 1956. However, the presence of mercury in the barometer and the complicated measuring process entailed further research. The results were two versions of spring pressure piston barometer, one most suitable as a barograph, the other as a barometer. These are described together with their dimensions. The author then states that in view of the tendency to develop accurate automatically recording barometers, a self-regulating piston barograph has been designed. Tests carried out so far indicate that this barograph will be as accurate as the above-mentioned spring pressure piston barometer. There are 7 formulae, & diagrams, 1 photograph and 3 Soviet references.

Card 2/2



GRAMENITSKIY, V.N.; FROLOV, Yu.A.; KHANSUVAROV, K.I.

Grade 0,02 standard manometer with measurement limits from 0 to 2,5 kgf/cm2. Izm.tekh. %0.1%:19-20 N '61.

(MIRA 14:11)

(Manometer)

5/115/62/000/011/003/008 E194/E155

AUTHOR:

Khansuvarov, K.I.

TITLE:

Hydrodynamic forces in the piston systems of

instruments with seal-less pistons

PERIODICAL: Izmeritel'naya tekhnika, no.11, 1962, 23-26

TEXT: The theory of rotating piston instruments is often based on the hydrodynamic theory of lubrication of a plain bearing, despite the difference that the loading is mainly axial. In practical piston instruments, inaccuracies of fit and centering give rise to some radial forces, so it is necessary to consider the case in which both axial load and torque are applied to the cylinder. Taking the Sommerfeld formula as a basis, with the usual simplifying assumptions (no end leakage, no distortion, constant lubricant viscosity), formulae are derived for forces acting when the piston and cylinder are not coaxial. It is first shown that the relative eccentricities of the piston lines in the planes of the top and bottom ends of the cylinder depend only on the nature of the external load. Two extreme cases are considered.

1) The piston is loaded with a force F and there is no internal Card 1/3

Hydrodynamic forces in the piston... 5/115/62/000/011/003/008

torque; in this case the loading factors are given by the expressions

$$\psi = \frac{\alpha}{(2 + \alpha^2) \sqrt{1 - \alpha^2}} \qquad \varphi = 0$$

where a is the eccentricity. The solution reduces to the Sommerfeld formula.

2) The piston is loaded with pure torque and the loading factors then are:

$$\psi = 0$$
, $\varphi = \frac{1}{2\alpha_1^2} \left[\arcsin \alpha_1 - \sqrt{\frac{2}{3}} \arctan \left(\sqrt{\frac{3}{2}} \frac{\alpha_1}{\sqrt{1 - \alpha_1^2}} \right) \right]$

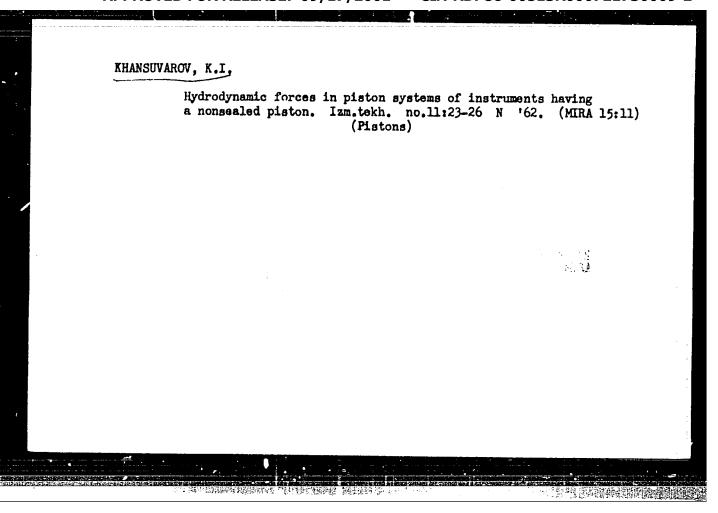
where α_1 and α_2 are the relative eccentricities of the piston at the top and bottom of the piston, respectively. An experimental rig, constructed to check the formulae, consisted of an outer loaded cylinder fitted closely over an intermediate rotating driven cylinder, which fits over a stationary piston. The dimensions and clearances used were typical of practical Card 2/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

Hydrodynamic forces in the piston... \$\frac{\$5/113/62/000/011/003/008}{\text{E194/E155}}\$

The system was filled with lubricant. Measurements were made of torque on the external cylinder when loaded horizontally. Its displacement, observed through a microscope, was found to describe a steady double-loop motion around the central position. The test results agree qualitatively with those obtained from theoretical formulae. Test results obtained under different conditions (speed, piston conditions, liquid viscosity) agree reasonably well if the load characteristics are constant. facilitates preliminary design calculations (not allowing for strain) for piston instruments. Such calculations are particularly useful in developing new piston dynamometers and balances for heavy loadings (thousands of tons) for which experience with existing instruments is insufficient; when measuring masses of 1 - 2 tons with barometric pressure instruments, the permissible error is of the order of 0.001%. There are 5 figures.

Card 3/3



L_10722-63 EWT(1)/BDS/ES(w)-2 AEDC/AFFTC/ASD/SSD Pab-4 ACCESSION NR: AT3002050 S/2585/62/0000/066/0014/0026

AUTHOR: Gramenitskiy, V. N.; Khansuvarov, K. I.

1

TITLE: Calibrating double-piston pressure-vacuum gauge

SOURCE: USSR. Komitet standartov, mer, i izmeritel'ny kh priborov. Trudy* institutov Komiteta, no. 66 (126), 1962. Issledovaniya v oblasti izmereniy davleniya, raskhoda i vakuuma, 14-26

TOPIC TACS: MVP-2.5 vacuum pressure gauge, double pistons, pressure, measuring error, standard spring pressure gauges, standard spring vacuum meters

ABSTRACT: A description and schematic diagram of the MVP-2. I vacuum pressure gauge is given. The double-piston devices are used to measure excess, absolute, and atmospheric pressure, as well as vacuum and pressure differentials. Measurement limits were found to be from 0 to 2.5 kg/cm sup 2 for excess pressure and from 0 to 7.50 mm of mercury for vacuum. Measuring error limit was found to be less than 0.05%, if the measured size is more than 0.1 kg/cm sup 2, and less than 0.5 mm of water for values less than 0.1 kg/cm sup 2. These instruments can be used to verify standard spring pressure gauges and standard spring vacuum meters. Orig. art. has: 32 equations and 5 figures.

Card 1/2, Gas. VNITX

1. 10711-63 ACCESSION NR: AT5002058

8/2589/62/000/066/0075/0089

AUTHOR: Khansuvarov, K. I.

TITLE: Investigation of calibration piston barometer

49-

SOURCE: USSR. Komitet standartov, mer, i izmeritel'ny*kh priborov. Trudy* institutov Komiteta, no. 66 (126), 1962. Issledovaniya v oblasti izmereniy davleniya raskhoda i vakuuma. 75-89

TOPIC TAGS: piston barometer, microbarometer Gb5, equilibrated piston, dynamics of measuring process

ABSTRACT: The mean quadratic error of the piston barometer, depending on measurement conditions, is found to be 0.005 to 0.02 nm of mercury column, generally exceeding the sensitivity of the best spring barometers, (e.g. microbarometer Go5 of Askania Werke, German Federal Republic, with an elastic element, made in the form of a hollow helicoid spring, provides an accurate reading of the order of 0.01 mm of mercury column). A mercury piston barometer with equilibrated piston was developed in 1955-56 at VNIIK by the author and V. N. Gramenitskiy. The piston barometer (with inverted piston) has two basic units: an incompressible piston pair and a device which assures even equilibration of part of the weight of the piston. The dynamics of the measuring process are discussed in terms of Card 1/2

L 10714-63

ACCESSION NR: AT3002058

discrepancy between the readings of any instrument and the measured variables (inertia of the instrument). Orig. art. has: 6 figures, 5 tables, and 6 formulas.

ASSOCIATION: VNIK

SUEMITTED: 05Apr60

DATE ACQ: 20Apr63

ENCL: 00

SUB CODE: 00

NO REF SOV: 003

OTHER: 002

card 2/2

KHANSUVAROV, K.I.

Investigation of the standard first-class weight and piston barometer. Trudy inst. Kem. stand mer 1 izm. prib. no.66: 75-89 '62. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Komiteta standartov, mer i ismeritel'nykh priborov pri Sovete Ministrov SSSR.

(Barometer-Testing)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

UL'TANOV, G. (g.Gorodets, Gor'Kovskoy oblasti); LIPNER, S. (Kherson);
BARANOVA, M.; KHANSUVAROVA, F.; BARANOVA, M.; KRUGLOVA, O.
(Murmansk); KUPTSOV, F. (Moskva); TISHCHENKO, A., Geroy
Sotsialisticheskogo Truda

Kindergartens and nurseries should be placed under the control of women's committees. Rabotnitsa 40 no.6:14-15 Je '62. (MIRA 16:3)

1. Predsedatel' zhenskogo soveta stroitel'stva Krasnoyarskoy gidroelekticheskoy stantsii (for Khansuvarova). 2. Predsedatel' zhenskogo soveta tralovogo flota, Murmansk (for Kruglova).
3. Predsedatel' pravleniya detskogo sada zhilishchno-ekspluatatsionno; kontory No.10 Kiyevskogo rayona Moskvy (for Kuptsov). 4. Predsedatel' zhenskogo soveta Novo-Kramatorskogo

mashinostroitel'nogo zavoda (for Tishchenko).
(Kindergartens) (Nurseries)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

KHANTADZE, A.G. Conditions for dynamically possible motions in magnetohydrodynamics. Soob. AN Gruz. SSR 30 no.4:409-416 Ap 163.

(MIRA 17:9)

1. Institut geofiziki AN GruzSSR, Tbilisi. Predstavleno akademikom V.I. Mamasakhlisovym.

CIA-RDP86-00513R000721730009-2" **APPROVED FOR RELEASE: 09/17/2001**

KHANTADZE, A.G.

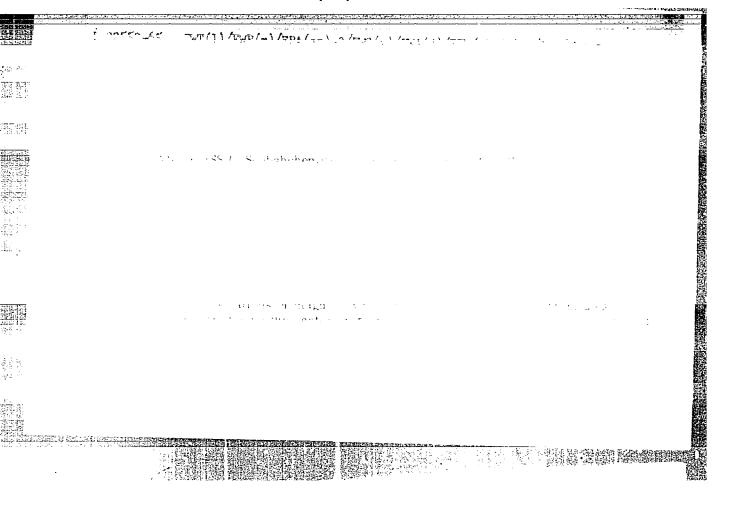
Rotation of a conducting fluid with shifting center. Soob. AN Gruz. SSR 31 no. 3:543-549 S '63. (MIRA 17:7)

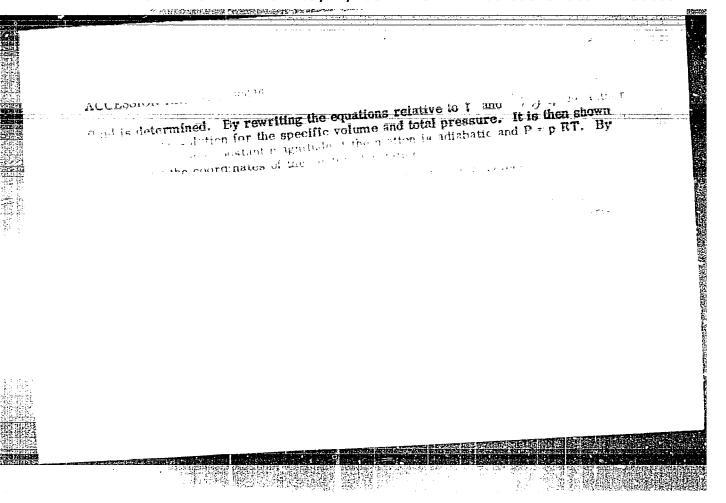
1. Institut geofiziki AN GruzSSR, Tbilisi. Predstavleno chlenom-korrespondentom AN GruzSSR M.M.Mirianashvili.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

Design of a magnetohydrodynamic model of a cyclone. Part 1. Geomag i aer. 4 no.6:1020-1025 N-D'64. (MIRA 18:1)

1. Institut geofiziki AN Gruzinskoy SSR.





KHANTARZE, A.G. A class of solutions of equations in magnetohydrodynamics. Geomag. i aer. 5 no.1:167-170 Ja-F '65. (MIRA 18:4) 1. Institut geofiziki AN GruzSSR.

KHANTADZE, A.G.

Motion of a medium of finite conductivity in the presence of mass forces and a plane magnetic field. Geomag. i aer. 5 no.2:342-345 Mr-Ap '65.

N.E. Kochin's problem in magnetchydrodynamics. Ibid.:345-346 (MIRA 18:7)

KHANTADZE, A.G.

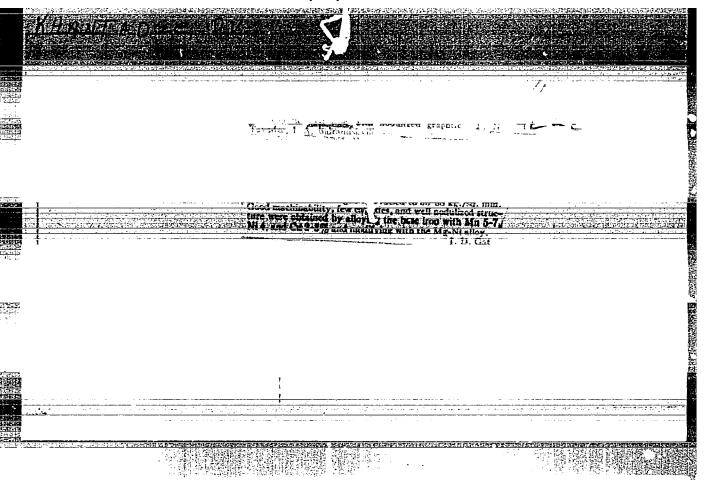
Constructing a magnetohydrodynamic model of a cyclone, Part 2. Geomag. 1 aer. 5 no.3:413-416 My-Je '65.

Two-dimensional motion of a conducting medium in the presence of mass forces and a plane magnetic field. Ibid.:417-422

(MIRA 18:5)

1. Institut geofiziki AN Gruzinskoy SSR.

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2



ACCESSION NR: AT4030796

8/0000/63/000/000/0110/0118

AUTHOR: Tavadze, F.N.; Bayramashvili, I.A.; Khantadze, B.V.; Grdzelishvili, V.A.

TITLE: The influence of boron on the surface tension of nickel

SOURCE: AN UkrSSR. Institut metallokeramiki i spetsial'ny*kh splavov. Poverkhnostny*ye yavleniya v rasplavakh i protsessakh poroshkovoy metallurgii (surface phenomena
in liquid metals and processes in powder metallurgy). Kiev, Izd-vo AN UkrSSR, 1963,
110-118

TOPIC TAGS: surface tension, boron, nickel, beryllium oxide, aluminum oxide, nickel based alloy, boron containing alloy, hydrogen, helium

ABSTRACT: The authors investigation was conducted by the lying-drop method on an instrument designed and constructed especially for this purpose. The fundamental diagram of the instrument is presented in a figure. The drop was magnified four times. The surface tension of the metal was determined on a flat support of aluminum oxide and beryllium oxide. Special experiments were performed to study the effect of the materials of the heater and the supports, as well as the medium (hydrogen, helium), on the surface tension of nickel and its alloys with boron. The

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

ACCESSION NR: AT4030796

results of the investigation were presented in micro-photographs, tables, and figures. The values of the surface tension of nickel in a hydrogen and helium atmosphere were pratically identical. Boron, an inactive element in relation to nickel, did not effect the value of its surface tension and the grain size. The calculation of the generalized moment and the static generalized moment of nickel and boron atoms confirmed the inactivity of boron in nickel-boron alloy systems. Orig. art. has: 10 figures and 2 tables.

ASSOCIATION: Institut metallurgii AN GruzSSR, Tiflis
AN (Georgian SSR)

' (Institute of Metallurgy

SUBMITTED: 23Nov63

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: ML

NO REF SOV: 006

OTHER: 003

Card 2/2

Calculating the volume of a lying drop. Fiz.met.i metalloved. 15 no.31470-472 Mr '63. (MIRA 1644) 1. Institut metallurgii AN Gruzinskoy SSR. (Surface tension) (Liquid metals)

L 10629-63 EWP(q)/EWT(m)/BDS--AFFTC/ASD--JD

ACCESSION NR: AP3000750

8/0020/63/150/003/0544/0546

57

AUTHOR: Tayadze, F. N. (Academician, An GruzSSR); Bayramashvili, I. A.;

Khantedze, D. V.; Tsagareyshvili, G. V.

TITLE: Density and surface tension of molten boron

SOURCE: AN SSSR. Doklady*, v. 150, no. 3, 1963, 544-546

TOPIC TAGS: liquid-boron density, liquid-boron surface tension, localized melting, electron-beam melting, drop-volume image, contact angle

ABSTRACT: The density and surface tension of molten boron (B) have been measured for the first time by the pendant-drop and sessile-drop methods. A procedure for zone melting without a crucible, reported previously by Tsagareyshvili (Tsagareyshvili, G. V., Peredovoy nauchno-tekhnicheskiy i proizvodstvenny opy*t, GOSINTI, tema 37, v. 7 (1962).), was adapted with modifications for the use of an electron beam of a cathode-ray tube for localized melting. Experiments with Ni drops have established that surface tension is not affected by electron beam heat. The volume of the drop was both determined from its photoimage in a calibrated optical system for precise measurements of expension coefficients and calculated from the function $V_0/V = f(1/H)$ for various contact

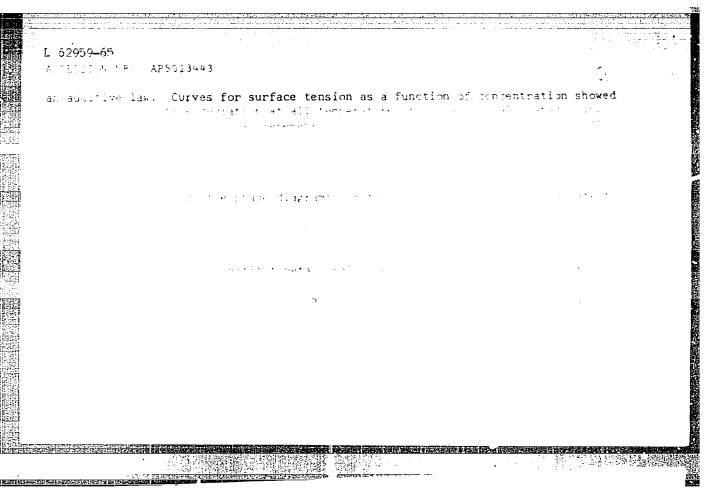
Card 1/32

L 10629-63 ACCESSION NR: AP3000750 angles θ , with 1 the radius of the equatorial cross section of the drop; H, the distance between the equatorial cross section and the top; V, the volume of the drop, determined from the Bashforth and Adams tables (Bashforth, F., Adams, J. An Attempt to Test the Theories of Capillary Action by Comparing the Theoretical and Measured Form of Fluid Drop, London, 1883) and calculated on the basis of parameters 1, H, 0; and Vo, the volume of a rotating ellipsoid with semimajor axis 1, semiminor axis H, and height Correction to actual drop volume was accomplished by means of the above function. The accuracy of this method, unlike that of the Bashforth tables, is not influenced by errors in the measurement of the contact angle. The degree of heating was determined by means of an OPPIR-17 pyrometer to be approximately 500 above the melting point. Surface tension was determined by melting crystalline B rods, 4, 6, and 9 mm in diameter with an electron beam removed after formation of a drop. Results obtained were similar for rods with different dismeters. Surface tension was determined to be 1030 dyn/cm by the sessile drop method and on the basis of previously reported data 1060 to 1070 dyn/cm by the pendant-weight-drop method depending on the data used and 1050 dyn/cm by the weight-drop method. At temperatures 500 above the melting point of B the density was 2.08 ± 0.05 gr/cm3 and the average surface tension was 1000 ± 50 dyn/cm. Orig. art. has: 3 figures.

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AUTHOR: Tavad	ize, F. H. (Acedemi	cian Ad Gruzs	SR); Bayrama	ashvili, I		36
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TOPIC TAGS: 8	urface tension.	Aug Iron con	spound, coba	it o mpour	d, nickel	
ABSTRACT: The the large drop	surface tension we method with an estic impurities and	O.02\$ owen	icy of 1.5	. The bor	on used contai	ned
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ACC NR: AR6035405

SOURCE CODE: UR/0137/66/COO/OO9/AOO7/AOC7

AUTHOR: Tavadze, F. N.; Bayramashvili, I. A.; Khantadze, D. Y.

TITLE: Surface tension and density of borides of iron, cobalt, and nickel

SOURCE: Ref. zh. Metallurgiya, Abs. 9A39

REF SOURCE: Sb. Poverkhnostr. yavleniya v rasplavakh i voznikayushchikh iz nikh tverd. fazakh. Nal'chik, 1965, 376-;82

TOPIC TAGS: boride, metal compound, surface tension, zone melting, metal surface ABSTRACT: The authors investigated the surface tension σ and the density γ of Fe-B, Co-B, and Ni-B alloys. These were determined with apparatus for crucible-less zone melting by an electron beam, using the lying and hanging drop method in the 1500 -1900° interval. The substrates were made of an alloy of boron nitride with graphite (BNC) and high-purity graphite. The value of σ of B was determined in a single experiment by two methods (by weighing the detached drop and by determining the shape of the hanging drop), while σ and γ of the alloys Me-B were determined by the "large drop" method in a helium atmosphere. The drops were produced in cups made of BeO. The following data were obtained: $\gamma_{\text{Fe}} = 8.325 - 0.862 \times 10^{-3} \, \text{T}^{\circ}\text{C}$, $\gamma_{\text{Co}} = 9.230 - 1.020 \times 10^{-3} \, \text{T}^{\circ}\text{C}$, and $\gamma_{\text{Ni}} = 9.338 - 1.036 \times 10^{-3} \, \text{T}^{\circ}\text{C}$. σ of B near the melting point is 1060 erg/cm2. The investigated systems belong to that class of systems in which the components with low melting temperatures have a higher value of s. The experimental isotherms of σ lie in all cases above the isotherms calculated from the equation for

Card 1/2

[669.781'1 + 669.781'24/25]:[532.14 + 532.61]

ACC NR APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

ideal solutions. This shows that the Me-B bonds are more favored from the energy point of view than the adsorption of B on the surface of the metal. That a strong interparticle interaction exists in the Me-B systems is also indicated by the appreciable negative deviation of the experimental values of the molar volumes from their additive values. The investigated alloys have apparently a quasimolecular structure with quasimolecular groupings close in composition to FeB, CoB, and Ni3B2. From among the investigated melts, the lowest stability to quasimolecular structure is possessed by melts of the Fe-B system. 2 illustrations. Bibliography, 24 titles. M. Krasheninnikov [Translation of abstract]

SUB CODE: 11

Card 2/2

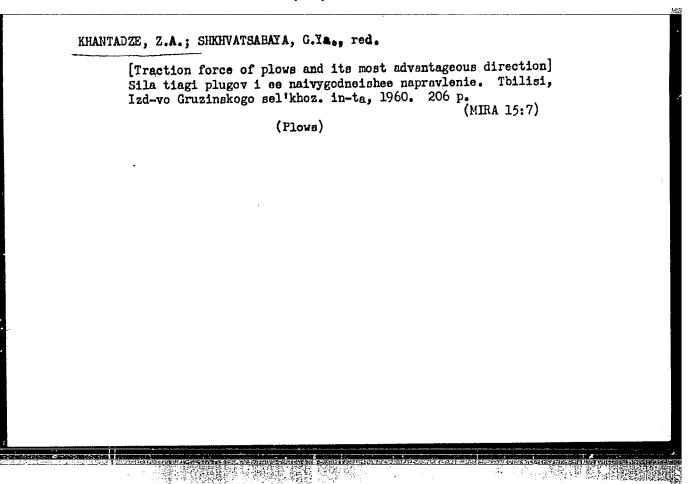
Calculating the rating of truck and tractor engines for normal atmospheric conditions. Soob. AN Grus.SSR 21 no.3:289-296 S '58. (MIRA 12:4) 1. Grusinskiy sel'skokhosyaystvennyy institut. Predstavleno akademikom V.V. Makhqldiani. (Gas and oil engines)

KHANTADZE, V.; BURSON, Ye.

Gross rates as a powerful dever for reducing the time spent

by vessels in ports. Mor. flot 25 no.8:8-10 Ag 165. (MIEA 18:8)

1. Nachal'nik Il'ichevskego porta (for Khantadse). 2. Glavnyy dispetcher Il'ichevskego porta (for Burson).



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	622.333(57.23)		
SO: Knizhraya Letopsis', Vol. 1, 195	15		
5			
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TUYSK, Aleksandr Gansovich; BAZAROV, B.M., spets. red.; KHANTA EV,
P.I., spets. red.; SUMAKHIN, A.N., red. izd-ve

[Development of the mining industry in the Buryat A.S.S.R.]
Razvitie gornoi promyshlennosti Buriatskoi ASSR. Ulan-Ude,
Buriatskii kompleksnyi nauchno-issledovatel'skii in-t, 1961.
86 p. (MIRA 16:6)

(Buryat A.S.S.R.—Mineral industries)

ACCESSION NR: AR4039236

8/0269/64/000/004/0020/0020

SOURCE: Ref. zh. Astronomiya, Abe. 4.51.155

AUTHOR: Khanter, V. R.

TITE: Investigation of hard ultraviolet radiation with a Bendix tubular photomultiplier

CITED SOURCE: Sb. Korotkovolnovoye izlucheniye nebesn. tel. M., Izd-vo in. lit., 1963, 68-77

TOPIC TAGS: tubular photomultiplier, ultraviolet radiation, hard ultraviolet radiation, astronomy

TRANSLATION: A report has been published on testing of a tubular photomultiplier with continuous acceleration of electrons as a detector of hard ultraviolet radiation. The investigated photomultiplier is a glass tube 10 mm long and with an internal diameter of 0.2 mm; resistivity is 108 ohms. The principal parameters of the photomultiplier are an

Card 1/2

. APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

ACCESSION NR: AR4039236

amplification factor of 104-105 and a quantum yield similar to that of pure tungsten; the dark current is 10-12-10-13a. Change of the amplification factor with time was studied. I. Zh.

DATE ACQ: 12May64

SUB CODE: AS

ENCL: 00

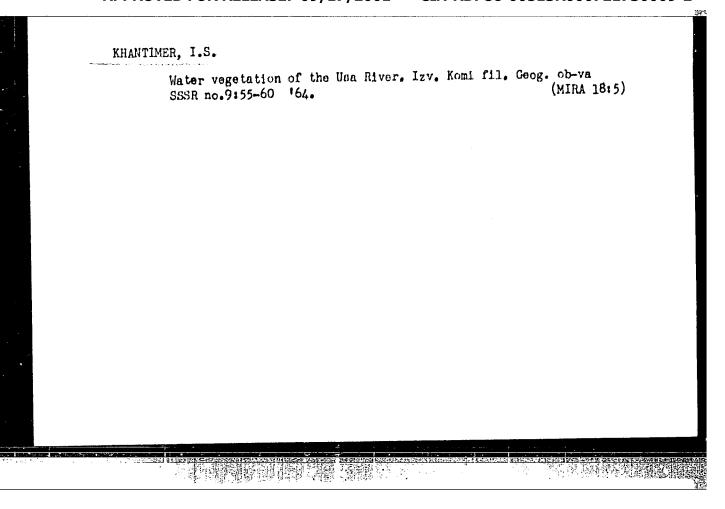
DEMINOVICH, Boris Monstantinovich; KHANTIL*, Veta fvancyna; BTO SYCKIY, Viktor II*ich; FONCMaRsV, M., red.; VANCHUK, L., r

[Improvement of the technology of lime production in rotary kilns] Severshenstvovanie tekhnologii proizvodstva izvesti vo vrashchsiushchikhsia pechakh. Minak, Izd-vo "Selarus", " 1964. 34 p. (MIRA 18:6)

istability of plants in the grazing lands of the extreme north of the Komi A.S.S.R. Bot. zhur. 49 no.5:731-735 My 164.

[MTRA 17:8]

1. Komi filial AN SESR, gored Syktywkar.



KOTELINA, Fina Stepanovna; KHANTIMER, Ismail Syddykovich; SHEHNIKOV,
A.P., prof., otv.red.; VIKHREV, S.D., red.Izd=va; BOCHEVER,
V.T., tekhn.red.

[Meadows of the Komi A.S.S.R.] Inga Komi ASSR. Moskva, Izd-vo
Akad.nauk SSSR, 1959, 265 p. (MIRA 12:12)

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

(Komi A.S.S.R.--Pastures and meadows)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

KHANTONOV, P. E.

USSR/Geology

Card 1/1

Author

: Khantonov, P. E.

Title

: About regional breaks in the boundaries of the Embenskiy salineboss

region.

Periodical : Dokl. AN BSSR, 95, 6, 1301 - 1304, 21 Apr 54

Abstract

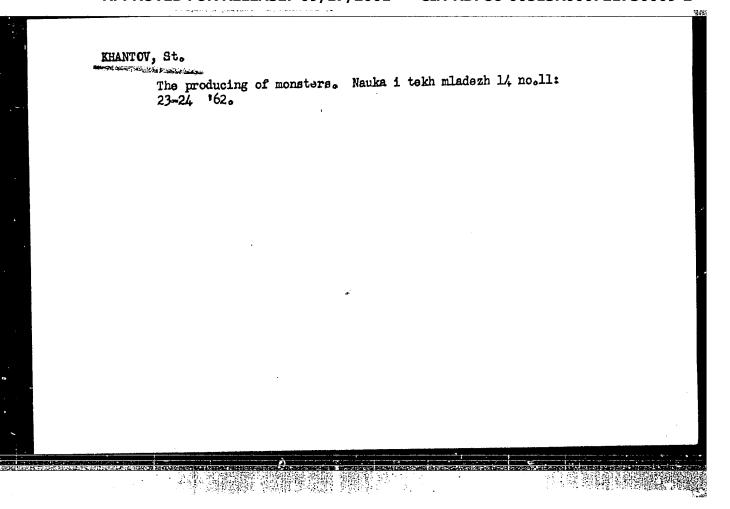
: The article deals with the geological structure in the Emba river region. From the map given in the article one can see that there are 3 breaks in the region and their positions. Proof of the existence of these breaks is given in the article. A diagram of the geological profile of Emba river Saline region and a stratigraphic table

are given in the article.

Institution: N. G. Chernyshevskiy State Univ. at Saratov

Submitted : 11 Feb 1954

"System of Models in Construction." p. 26 (RATSIONALIZATSHIA Vol. 1, No. 10, Oct. 1951; Sofiya, Bulgaria.) So: Monthly List of East European Accessions, (EEAL), LC, Vol. 1, No. , April 1955, Uncl..



ZHIVKOV, E., dotsent; GOLEMINOVA, R.; DENEV, Vl.; KHANTOVA, K.

Treatment of endogenous uveitis. Khirurgiia 16 no.1:103-113

163.

1. Iz Katedrata po ochni bolesti pri VMI [Vissh meditsinski institut] - Sofiia.

(UVEITIS) (SYPHILIS) (TUBERCULOSIS OCULAR)

(TOXOPLASMOSIS OCULAR (MYCOSES)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721730009-2

L 36491-66 EWP(j)/T RM/DS

SOURCE CODE: UR/0079/65/035/010/1866/1871

ACC NR: AP6027084

AUTHOR: Zhako, Ya.; Al'mashi, L.; Dzhurdzhu, M.; Khants, A.

ORG: University im. Babes-Bolyai; Institute of Chemistry, ARPR, Cluj

TITIE: Study of the physicochemical properties of 0,0-dialkyl esters of arylsulfonamidophosphoric and -thiophosphoric acids. Part 1: Acidity constants of certain 0,0-diethyl esters of arylsulfonamidothiophosphoric acids/in ethanolwater mixtures, and applicability of the Hammett equation of these compounds

SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1866-1871

TOPIC TAGS: phosphoric acid, ester, ethanol, solution acidity, dissociation, EMF, electrode potential, buffer solution, proton

ABSTRACT: Potentiometric measurements at 20°C were used to determine the dissociation constants of 0,0-diethyl esters of arylsulfonamidothiophosphoric acids in ethanol-water mixtures containing 90, 70, and 50 vol% ethanol. A transference cell was employed, and the emf of the following concentration cell was measured in various solvents:

Pt | H_2 , HGI (0,01 M.) | HX (c₁), NaX (c₂), H_3 | Pt

The measurements were actually made indirectly: the potential of the hydrogen electrode was measured first in HCl. then in the HX-NaX

Card 1/2

UDC: 547.26-118:541.132.3/4

L 36491-66 buffer mixture, in the same solvent, but relative to a saturated ACC APPROVED FOR RELEASE: 09/17/2001 calomel electrode. The emf of the above cell was obtained as the difference of these two potentials. To calculate the activity of the hydrogen ions from the emf of the cell, use was made of the Nernst formula. The Izmaylov equation was found to apply to the variation in strength of the arylsulfonamidothiophosphoric acids as a function of solvent composition, and the proportionality constant of this equation was calculated for all the derivatives of the acids. The pK of the acids and the proportionality constant were found to be linear functions of the constant Oof Hammett's equation, i. e., this equation is applicable to the compounds studied. Values of the reaction constants for the acidio dissociation indicate that the substituents exext a greater influence on the dissociation of the proton in the case of the compounds under consideration than in the case of benzoic acids. Orig. art. has: 1 figure, 2 tables and 4 formulas. [JPRS: 36,328]

SUB CODE: 07 / SUBM DATE: 27Mar64 / ORIG REF: 002 / OTH REF: 007

Card 2/2 MLP

KHANTSEVICH, A.V., inzh., red.; DANILOV, L.N., red.izd-va; TIKHANOV, A.Ya., tekhn.red.

[Album of designs for spare parts of screw-cutting lathes] Al'bom chertezhei zapasnykh detalei tokarno-vintoreznogo stanka modeli 1616. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 36 p. (MIRA 11:2)

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.

(Screw-cutting machines)

ZAKHARCHENKO, V., inzh.; KHAMTSIN, A. [Khantsyn, A.], inch.

Ventilation of livestock buildings. Sil'. bud. 12 no.5:7-9
My '62. (MIRA 16:4)

(Farm buildings—Heating and ventilation)

SHEKHTER, M.M.; KHANTSIS, M.Ya. Combined inspection conveyor. Kons. 1 ov. prom. 17 no.8: (MIRA (MIRA 17:1) 1. Odesskiy gosudarstvennyy institut proyektirovaniya promyshlennosti.

> CIA-RDP86-00513R000721730009-2" APPROVED FOR RELEASE: 09/17/2001

NVENTOR: Khantsin, Ye	G.; Medovar, B. Ya.
The second secon	
DRG: None	
MITLE: A method for pr	ducing non-alcoholic beverages. Class 53, No. 190197
SOURCE: Izobreteniya,	promyshlennyye obroztsy, tovarnyye znaki, no. 1, 1967, 131
TOPIC TAGS: food techn	ology, beverage
nolic beverages by prepolending with specified mixture and bottling.	components such as food acids and extracts, purification of the components such as food acids and extracts, purification of the confidence
is added to the sugar a	yrup after filtration. 2. A modification of this method in lon of wolfberry is diluted by mulberry juice in a ratio of
is added to the sugar a which the alcohol infus	rup after filtration. 2. A modification of this method in lon of wolfberry is diluted by mulberry juice in a ratio of
is added to the sugar a which the alcohol infus	rup after filtration. 2. A modification of this method in lon of wolfberry is diluted by mulberry juice in a ratio of

	L 62709-65 EPF(c)/EPA(s)-2/EAA(h)/EIP(1)/EAP(k)/EAT(1)/EAT(1)/EAT(n)/EAP(h)/T/ ETP(T)/ETA(d)/FAP(w)/EAP(w) Po-LL/Pf-LL/Ps-LL/Ps-L/Pt-7/Psb EX/EX/AA/JD ACCESSION NR: AP5019030 UR/0286/65/000/012/0065/006	. 1	
	ACCESSION NR: AP5019030 UR/0286/65/000/012/0065/006 666.189 22.002.5 / 0.00		
	AUTHOR: Cavrilov, I. K.; Filippov, D. A.; Strukov, V. M.; Blatov, V. S.; Shalimov	* 35	
	A. S.; Vul, N. I.; Ivanov, A. H.; Belyakov, V. V.; Frolov, R. A.; Khantsle, R. Z.; Andriyevskays, G. D.; Zelenskiy, K. S.; Kuperman, A. H.; Dobrovol skiy, A. K.; Dzhereliyevskiy, K. B.	<i>^</i>	
	TITLE: Winding machine. Class 32, No. 17200915		
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 65-66	.	
	TOPIC TAGS: glass reinforced plastic, plastic filament, fiber glass, filament		
	winding, winding machine, filament wound article	•	
	ABSTRACT: This Author Certificate introduces a machine for fabrication of glass- reinforced plastic articles by filament winding 5 The machine includes a drive wi	Eh	
-	a reductor and a mandrel mounted on a rotating shart. To radricate spherical shall the machine is equipped with profiled guides transmitting to the mandrel a tilting	g	
	motion around the vertical axis simultaneously with a rotation around the axis (se		•
	Fig. 1 of the Enclosure). Orig. art. has: 1 figure.	יונעון און	
	Fig. 1 of the Enclosure). Orig. art. has: 1 figure.	MD)	
	Fig. 1 of the Enclosure). Orig. art. has: 1 figure.		
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SUBMITTED: 19May64	ENCL: 01	BUB CODE: MT, IE
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L 5290-66 ENT(m)/EPP(c)/EWP(1) T RPL WN/RM ACC NR: AP5022052 SOURCE COLE: UR/0286/65/000/014/0129/0129 AUTHORS: Guneya, I. A. Mal'kov, N. S.; Makarov, Yu. A.; Kuley, E. A.; Ignaylova, M. I. S.; Shvareya, G. N.; Khantsis, R. Z., Gladyshov, A. I.; Perepelkin, V. P.; MIKILina, D. H.; Chekunin, K. I.; Modalminskiy, V. V. ORG: none	
TITLE: Method for obtaining copolymers, Class 39, No. 144021	
SOURCE: Byulleten' izobreteniy i tovarnykh snakov, no. 14, 1965, 129	
TOPIC TAGS: copolymer, pressure casting	÷ ;
ABSTRACT: This Author Certificate presents a method for obtaining copolymers on the basis of methyl methacrylate and esters of acrylic acid by a suspension method. To obtain colorless copolymers suitable for fabricating products by casting under pressure higher alcohols, e.g., octyl, as a plasticizer, esters of phthelic acid, e.g., dicyclohexyl, as a stabilizer and derivatives of aminocumerone, e.g., phenyl ester of (naphtho-1, 2, 1, 5)-trianoline (2)-stilbene-2-sulfoacid, as a clarifier are added to the mixture.	·
SUB CODE: Mr. OC/ SUBM DATE: 15May61/ ORIG REF: 000/ OTH REF: 000	
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INVENTOR: Gavrilov, I. K.: Filippov, D. A.: Strukov, V. H.; Blatov, V. S.; Shalimov, A. S.; Vul. N7/1351 yanov / A.S.; Belvakov / V. S.; Frolov / R. S.; Khantsis, R. Z. / W. S. Andrivevskaya / G. D.; Zelenskiy, E. S.; Kuperman, A. H.; Dobrovol skiy, A. K. Dzhereliyevskiy, A. B. 44,55 ORG: none TITLE: Method of fabricating fiberglass shells. Class 32, No. 175624 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1065, 56-57 TOPIC TAGS: shell, cylindrical shell, fiberglass shell, shell fabrication, fiberglass winding, solid fuel rocket, rocket case ABSTRACT: Tais Author Certificate introduces a method of fabricating shells from fiberglass wound on a pattern which is then melted out or dissolved. To increase the strength of the shell, the winding is combined with the stretching of fiber by means of a fiber guide which rotates around the pattern. SUB CODE: 11, 19 SUBM DATE: 02Jul64/ ATD PRESS: 477 Gard 1/1	ACC NR. AP5028475	_	SOURCE CODE.)/T/EWP(k)/EVA(h)/E UR/0286/65/000/020/ 5 44,55 . M.; Blatov, V. S.	IONE LINET	v/RM
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1065, 56-57 TOPIC TACS: shell, cylindrical shell, fiberglass shell, shell fabrication, fiberglass winding, solid fuel rocket, rocket case ABSTRACT: This Author Certificate introduces a method of fabricating shells from fiberglass wound on a pattern which is then melted out or dissolved. To increase the strength of the shell, the winding is combined with the stretching of fiber by means of a fiber guide which rotates around the pattern. SUB CODE: 11,19 SUBH DATE: 02Jul64/ ATD PRESS: 4476	Dzhereliyevskiy, A. ORG: none	44,55	Kuperman, n. n. 44,54	94,5	5 76	
strength of the shell, the winding is combined with the stretching of fiber by means of a fiber guide which rotates around the pattern. SUB CODE: 11,19 SUBM DATE: 02Jul64/ ATD PRESS: 4476	SOURCE: Byulleten': TOPIC TAGS: shell,	izobreteniy i tova cylindrical shell.	mykh znakov, no.	20, 1065, 56-57	n, fiber-	
HW	fiberglass wound on a strength of the shell of a fiber guide whi	a pattern which is l, the winding is ch rotates around	then melted out of combined with the the pattern.	or dissolved. To i	ncrease the r by means	
	HW	1 DATE: 02Ju164/ /	ATD PRESS: 447		•	

IGNAT'YEVA, G.V.; SARAYEVA, N.T.; KHROMETSKAYA, T.M.; LID_NEVA, A.G.;

MASTYUKOVA, Yu.N.; NESTEROVA, T.P.; ALAFUZOVA, S.B.; YERSHOVA, A.S.;

BARANOVA, T.V.; BEKLEMESHEVA, Ye.D.; SHIPOVA, Ye.P.; SUKHANOVA, R.V.;

KHLYABICH, G.N.; KHANTSIS, S.S.

Clinical and epidemiological effectiveness of a reduced dose of y-globulin (1.5 ml) in serogrophylaxis of measles. Zhur.mikrobiol., epid. 1 immun. 42 no.12:57-61 D 65. (MIRA 19:1)

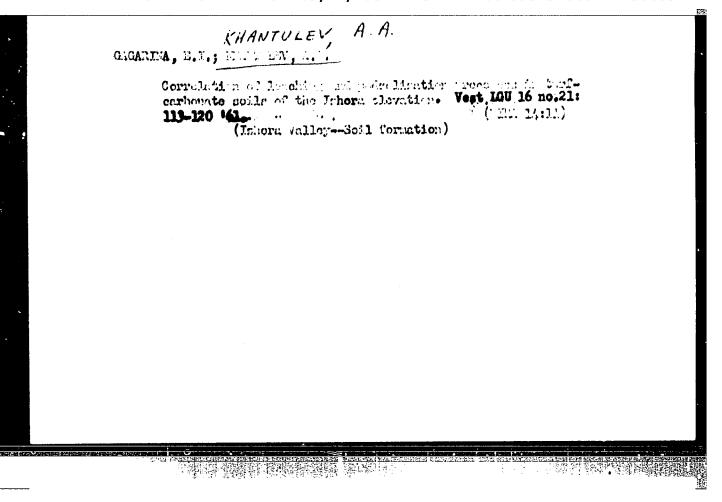
1. Moskovskiy institut epidemiologii i mikrobiologii; Institut virusologii imeni lvanovskogo AMN SSSR; Moskovskaya sanitarno-epidemiologicheskaya stantsiya; Rybinskaya sanitarno-epidemiologicheskaya stantsiya; Vladimirskaya sanitarno-epidemiologicheskaya stantsiya i Ob"yedinennaya detskaya poliklinika, Makhachkala.

ULEV, H-H	
The genesia and properties of solonetz soils of the forest' steppes of Nerchinskaya Dauriya. A. A. Khantulev. Uchesye Zapiski, Leningrad. Gorsdarst: Grav. 186. A. A. Zhdanora No. 174. Ser. Biol. Naus No. 36, 103-34(1955).—The genesis of solonetz soils of the forest steppes of Nerchinskaya Dauriya which is located in Eastern Siberia were described in detail. Analyses for the humus content, total N, and carbonafes were made on meadow solonchak soils und on salinized chernozems. The pH values, the absorbed Na, the exchange capacity; and the total and available P in solonetz soils and in meadow solonchak soils were detd. From the residual chernozems, the exchangeable bases and the pH values of both aq, and saline soils of the steppes analyses were made for Na, Mg, Ca, SO, HCO, and CO, ions and for humus. M. D. Derderian	

Materials on soil chafacteristics in agricultureal districts of the Maritime Territory. Uch.zap. en. un.no.221:32-54 '56.

(MIRA 10:3)

(Maritime Territory--Soils)



SCHASTNAYA, L.S.; KHANTULEV, A.A.

Podzols of the Bryansk section of Polesye. Vest. LGU
17 no.3:145-156 '62. (MIRA 15:2)

(Bryansk Province--Podzol)

KHANTULEV, A.A. Conference on the problems of agricultural soil research and the mapping of collective and state farm soils in the Northwest of the RSFSR. Vest. LGU 17 no.15:150-151 '62. (MIRA 15:8) (Russia, Northwestern--Soil research--Congresses)

GAGARINA, E.I.; SCHASTNAYA, L.S.; KHANTULEV, A.A.

-Characteristics of taiga soils in the lower Northern Dvina Valley.

Vest. LGU 18 no.9:132-142 '63. (MIRA 16:6)

(Northern Dvina Valley--Soil formation)

TRUTNEV, A.G., KHANTULEV, A.A.

Intercollege Scientific Reports Conference on the topic "Universities for Agriculture." Pochvovedenie no.10:98-100 0 '63. (MIRA 16:12)

GAGARINA, B.I.; SCHASTNAYA, L.S.; KHANTULEV, A.A.

Soil formation in the northern taigs of Archangel Province. Nauch. dokl. vys. shkoly; biol. nauki no.3:197-201 *64 (MIRA 17:8)

1. Rekomendovana kafedroy geografii pochv Leningradskogo gosudarstvennogo universiteta imeni A.A. Zhdanova.

KHANTSIN, Ya.G.

Utilization of sand for an increase in juice yield. Kons.i ov. prom. 16 no.2:18 F '61. (MIRA 14:4)

1. Kiyevskoye oblastnoye upravleniye promyshlennosti prodovol:-stvennykh tovarov.

(Fruit juices)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

KHANTULEY, A. A.

Soils - Siberia

Genesis of forest-steppe soils of eastern Siberia. Uch.zap.Len.un., No. 140, 1951.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2"

998

KHAMUKAYEV, A.N.

PHASE I BOOK EXPLOITATION

Akademiya neuk SSSR. Institut gornogo dela. Voprosy teorii razrusheniya gornykh porod deystviyem vzryva (Theoretical Problems in Crushing Rock by Blasting) Moscow, Izd-vo AN SSSR, 1958. 161 p. 2,500 copies

Resp. Ed.: Mel'nikov, N.V., Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: Klimovitskiy, Ya.A.

PURPOSE: This collection of articles is of interest to mining specialists.

COVERAGE: The present collection of 9 articles by various suthors presents the results of scientific research in the field of rock crushing in mining by means of blasting. The studies conducted are of both theoretical and practical nature. The articles examine the distribution of explosive energy and the propagation of spherical explosive waves in soil. Theoretical principles in determining the size of charges for certain types of mining operations are discussed and analysed. The articles are accompanied by diagrams, photographs, tables and bibliographic references.

card 1/3

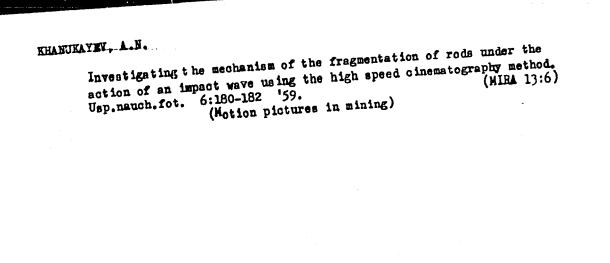
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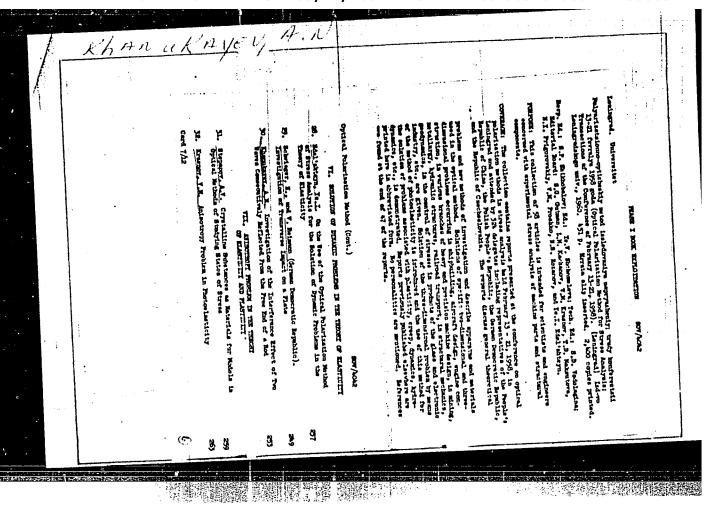
BARANOV, Yevgeniy Gerasimovich, kand.tekhn.nauk; DANCHEV, Pavel Stepanovich, kand.tekhn.nauk; kand.tekhn.nauk; IVANOV, Konstantin Ivanovich, kand.tekhn.nauk; PASHKOV, Aleksey MAL'CHONOK, Vladimir Olimpiyevich, kand.tekhn.nauk; PASHKOV, Aleksey Dmitriyevich, kand.tekhn.nauk; KHANUKAYEV, Aleksandr Nisanovich, kand.tekhn.nauk; DOKUCHAYEV, M.M., retsenzent; PAVLOV, K.V., otv. red.; KOROLEVA, T.I., red.izd-va; SABITOV, A., tekhn.red.

[Investigation of boring and blasting processes; using motionpicture photography] Issledovanie proteessov bureniia i vzryvaniia; s primeneniem kinos memki. Moskva, Ugletekhizdat, 1959. 186 p. (MIRA 12:8)

(Boring) (Blasting) (Motion-pictures in industry)



"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721730009-2



KHANUKAYEV, A.N., dots.

Approximate calculation of the expenditure of energy of a wave of stresses in breaking shifting, and deforming hard rocks. Izv. mys. ucleb. zav.; gor. zhur. no.2:90-94 160 (MIRA 14:5)

1. Leningradskiy gornyy institut.
(Blasting)