

S/081/62/000/015/009/038 B168/B101

AUTHORS:

Fridland, M. I., Sechenov, G. P., Alttshuler, V. S.

TITLE

An investigation into the influence of pressure on the carryover of fine particles from "pseudoliquid" layer systems

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 15, 1962, 317 - 318, abstract 15182 (Tr. In-ta goryuchikh iskopayemykh. AN SSSR, v. 16, 1961, 204 - 210)

TEXT: The investigation was conducted at the IGI installation of the AS USSR, using its reaction vessel 500 mm high and of 40 mm inside diameter, made of organic glass and designed to operate at a pressure of up to 20 atm without heating. The torch-type distribution lattice had a free cross-section of 5.2%. A microspherical alumosilicate catalyst with a true specific gravity of 1.879-2.35 g/cm³ and a particle size of 24-1000 mwas used as solid phase. Nitrogen at a flow rate of 10-210 nl/min. was used as pseudofluidizing gas. It was established that at a constant degree of expansion of the pseudoliquid' layer, and with other conditions constant, an increase of pressure results in a substantial reduction in carryover; also Card 1/2

	-			
	An investigation into	S/081/62/000/015/009/038 B168/B101	1	
	that this substantially increases the ratio of tude of particle carryover, which in turn makes substantially the specific intensity of systems. The favourable effect of an increase in pressur conditions was confirmed. [Abstracter's note:	s it possible to increase s with a pseudoliquid layer. re upon pseudoliquidation	40	
•				
	a			
	Card 2/2			

AL'TSHULER, V.S., KANAVETS, P.I., GAVRILOVA, A.A.

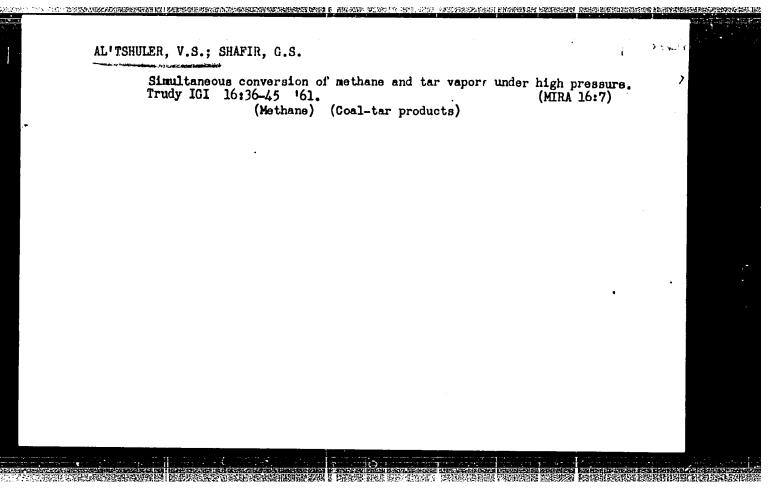
Investigating kinetics of the reduction of ore-fuel granules. Trudy IGI 22:50-56 *63. (MIRA 16:11)

SHEVTSO7, V.P.; SHAFIR, G.S.; KLIRIKOV, G.V.; AL'TSHULER, V.S.

Simultaneous reaction of carbon dioxide and steam with carbon at normal and elevated pressures. Trudy IGI 16:164-170 '61.

(MIRA 16:7)

(Carbon) (Steam) (Chemical reaction, Rate of)



AL'TSHULER, V.S., doktor tekhn. nauk, otv. red.; FARBEROV, I.L., doktor tekhn. nauk, prof., otv. red.

[Gusification and the pyrolysis of fuels; collection of articles] Mazifikatsiia i piroliz topliv; sbornik statei. Moskva, Izd-vo "Nauka," 1964. 188 p. (MIRA 17:6)

1. Mescow. Institut goryuchikh iskopayemykh.

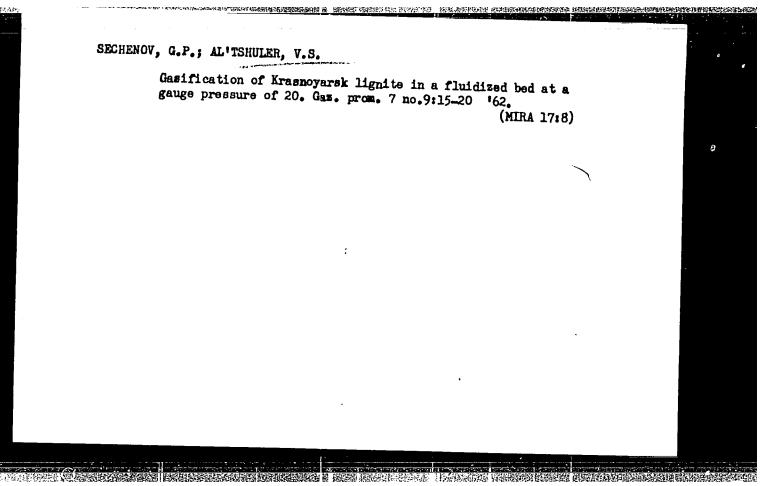
APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

经股票的数据的数据的 100 的时间,他就可以使用的企业的企业的企业的是不够的。但是是他们的企业的企业的企业的企业的企业的。 1997年的企业的企业的企业的企业的 100 的时间 100 的时间

AL'TSHULPR, V.S., doktor tekhn. nauk; KLJRIKOV, G.V., inch.

Gasification of high-sulfur heavy liquid fuel under pressures up to 70 bar with derivation of industrial gas. Teploenergetika 11 no.4:70-73 Ap '64. (MIRA 17:6)

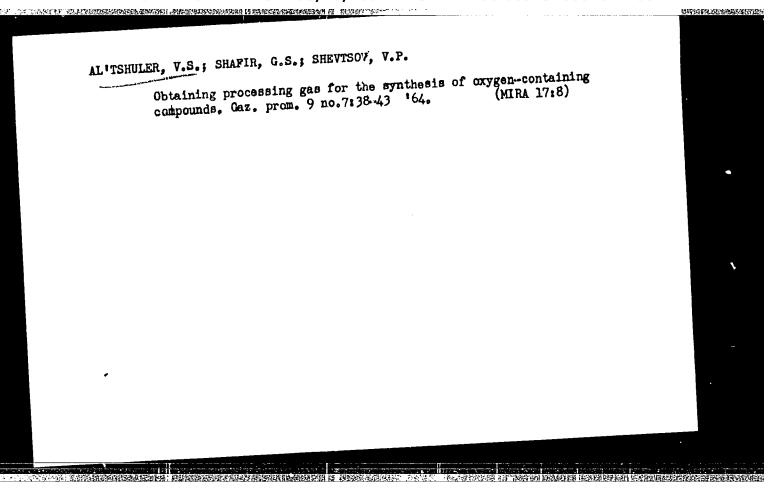
1. Institut goryuchikh iskopnyemykh AN SSSR.

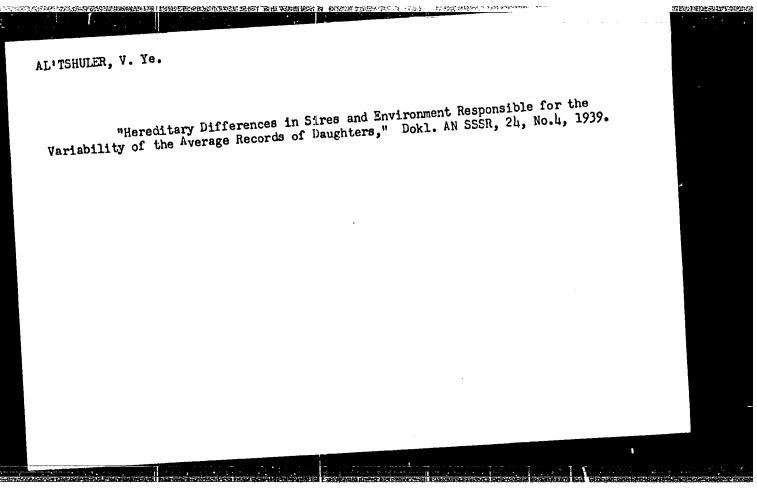


ALTERNOLER, V.S.; KLIRIKOV, G.V.

Thermodynamic characteristics of the gassification of sulfurous mezut at pressures ranging up to 100 at. Gaz. prom. 8 no.4:12-17 163.

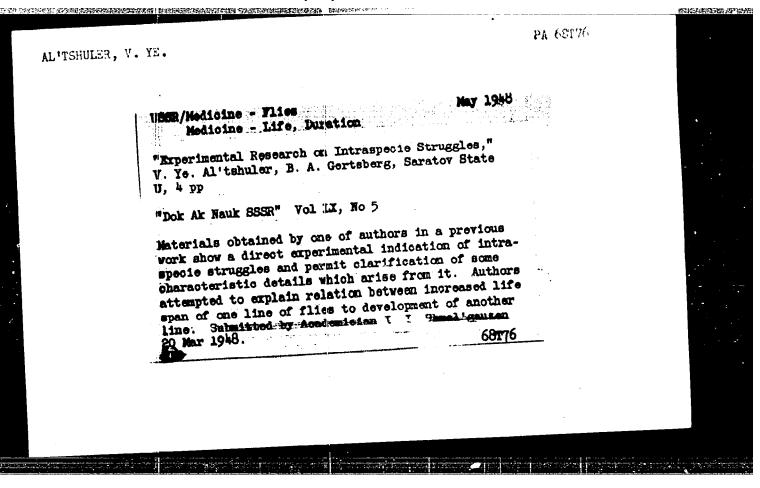
(MIRA 17:10)

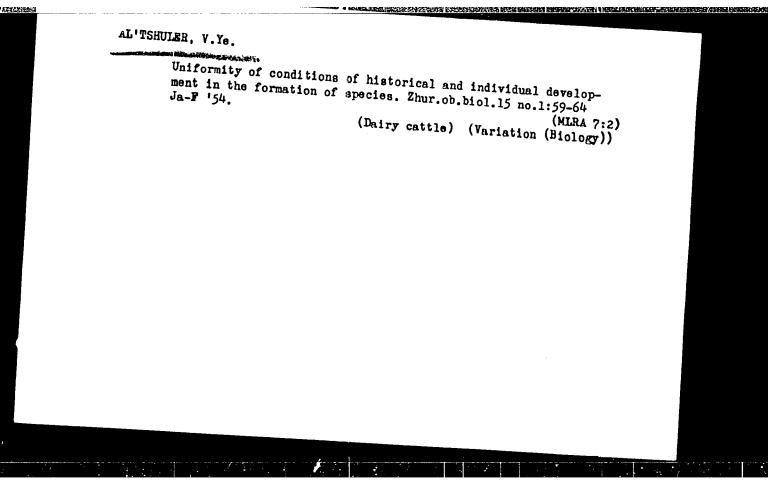




"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101210011-4





AL'TSHULER, V.Ye., prof.; LEVCHYNKO, F.F., aspirant

Method for housing cattle which can be applied to the entire zone.

Zhivotnovodatro 20 no. 10:28-32 0 '58. (MIRA 11:10)

1. Tadzhikskiy sel'skokhozysystvennyy institut.

(Tajikistan--Cattle)

AL'TSHULER, V.Ye., prof.; NIKITINA, L.L., starshiy laborant; KOLOBOVA, V., zootekhnik; TIKHOMIROVA, Ye., zootekhnik

Checking standards for the judging of bulls based on various numbers of daughters. Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:92-100 '62. (MIRA 17:1)

1. Kafedra razvedeniya sel'skokhozyaystvennykh zhivotnykh i molochnogo dela (zav. - prof. V.Ye. Al'tshuler) Ivanovskogo sel'skokhozyaystvennogo instituta.

AL'TSHULER, V.Ye., prof.; MAKOVSKIY, V.I., assistent; BOBKOV, V.V., zootekhnik

Effectiveness of judging cows by their milk yield and butterfat percentage based on various numbers of lactation periods.

Sbor. nauch. trud. Ivan. sel'khoz. Inst. no.19:101-107 '62.

(MIRA 17:1)

1. Kafedra razvedeniya sel'skokhozyaystvennykh zhivotnykh i molochnogo dela (zav. - prof. V.Ye. Al'tshuler) Ivanovskogo sel'skokhozyaystvennogo instituta.

AL'TSHULER, V.Ye., prof.; FATEYEV, V.N.

Important possibility for the improvement of breeding work with dairy cattle. Agrobiologiia no.1:110-116 Ja-F *65. (MIRA 18:4)

1. Ivanovskiy sel'skokhozyaystvennyy institut.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

AL'ITSHULER, Ya., polkovnik meditsinskoy sluzhby; TABRATOV, P.,

Podpolkovnik

A young physician is serving. Av. i kosm. 48 no.10:78-79
0 '65. (MIRA 18:11)

是100 年 200 年 100 日 1

entrum throat bloomist as designated from the same about the first line of the same

AUTHOR: Al' tshuler, Ya.A. 119-2-8/13 TITLE: Calibration of a High-Temperature Optical Pyrometer (Graduirovka vysokotemperaturnykh opticheskikh pirometrov). PERIODICAL: Priborostroyeniye, 1958, Nr 2, pp. 23-25 (USSR) ABSTRACT: In 1957 the optical pyrometer (NTUP) was constructed and built at Lvov, which makes it possible to measure temperatures of up to 3200°. At the same place also test models for a temperature range of from 1500 to 6000° C were produced. A new method of calibration was suggested by the constructor, which means a saving of the tedious work of establishing an auxiliary scale from 800 to 11,000. The accuracy with which the points 2200, 2800, 3200° C could be determined amounted to \pm 14, \pm 20, \pm 23.6°. For the pyrometers with a range of from 2200 to 6000° C an accuracy of \pm 19.5, \pm 41.3, and \pm 87° is attainable for the points 2600, 4000 and 6000° C. There are 3 Slavic references. AVAILABLE: Library of Congress Card 1/1 1. Optical pyrometers-Calibration

SOV/119-58-10-6/19

45 (4) (4) (5) DEPENDENT STEEN FORDUNDSENDENDEN BEREITSENDEN BEREITSEN BEREITSENDE BEREITSENDE BEREITSENDE BER

AUTHORS:

Al'tshuler, Ya. A., Engineer, Kogan, A. V., Engineer

TITLE:

Improved Method for the Adjustment of the Absorption Filters of Optical Pyrometers (Usovershenstvovaniye metoda podbora

pogloshchayushchikh fil'trov opticheskikh pirometrov)

PERIODICAL:

Priborostroyeniye, 1958, Nr 10, pp 18-20 (USSR)

ABSTRACT:

In the series calibration of technical pyrometers the selection of the absorption filters with the same pyrometric attenuation coefficient A must be secured. The accuracy in determining A must be as high as possible for the measuring range 3 200 - 6 000°C. Until now A has been determined by

calculation.

It is shown by the author that A can be measured with sufficient accuracy with the optical pyrometer OP -48. OP -48 has a pyrometer lamp with a plane incandescent filament, a very good optical system, a precision resistance and a very

accurate sighting.

By a comparative measurement with a black body (represented by a lamp with a PS-5 glass) if the monochromatic light filters (of KS .15 glaus, 2 mm thick) have the same attenuation

COMPANY OF THE PROPERTY OF THE

Card 1/2

THE REPORT OF THE PROPERTY OF

Improved Method for the Adjustment of the Absorption Filters of Optical Pyrometers

with the precision pyrometer OP-48 and the normal pyrometer OPFER It is shown that the A values measured this way coincide, with only the errors of the A determination becoming smaller by about 50 % with the apparatus OP-48. The absorption filters of glass PS-2 of different samples yield different A values at the same thickness. Therefore, the thickness of this glass is corrected for a certain A value and then the filters may also be used. There are 1 table and 3 references which are Soviet.

Card 2/2

24(8) AUTHORS:

Al'tshuler, Ya. A., Engineer, Bakushchik, Z. I., SOV/119-59-5-12/22

AND A LABORATE WAS STAIN AND RESIDENCE ASSESSMENT AND AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASS

Engineer, Klikshteyn, B. G., Engineer

EXECUTED AND THE PROPERTY OF T

TITLE:

Measuring the Temperature of Rotating Surfaces (Izmereniye

temperatury vrashchayushchikhsya poverkhnostey)

PERIODICAL:

Priborostroyeniye, 1959, Nr 5, pp 24-25 (USSR)

ABSTRACT:

In the modern production processes of thin organic plastics, paper, thin nonferrous metal foils and many other materials, machines with smooth cylindrical fullers and drums are used. The temperature of the surface of these rotating fullers and drums is an important parameter of the technological process, and must be constantly

measured with minimum inertia and maximum accuracy. The

measurement of these temperatures is, however, a rather complicated

problem. The temperature measured by a radiation pyrometer

(radiation temperature) is always lower than the real temperature, and depends on the coefficient & of the total emissivity. The authors made a number of experiments concerning the measurement of

the surface temperature on a polished metal fuller. These

experiments fully confirmed the restricted applicability of the

ordinary radiation pyrometers for the measurement of temperatures of polished metal surfaces with low emission coefficients. The

Card 1/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

Measuring the Temperature of Rotating Surfaces

SOV/119-59-5 ·12/22

contact methods are well suited for a rather accurate measurement of the temperature of immovable metal surfaces. In case of movable surfaces, however, the results may be much distorted by the large and uncertain errors due to friction. The instruments developed up to date had often a low sensitivity and a high inertia. At the Konstruktorake byuro "Termopribor" (g. L'vov) (Design Office "Termopribor" (Town of L'vov)), a sentact-primary element with small inertia was leveloped for the measurement of temperature of rotating surfaces. This device DTB-018, which no longer shows the shortcomings of former instruments, uses a thin curved plate of heat-conducting, elastic and wear-resisting material as contact element. Electrodes of "chromel" and "copel" (kopel') are welded to this plate. Various constructive details of this device are discussed in short. Also the errors of measurement caused by friction are evaluated, they are in the order of magnitude of 2°C. Subsequently, the character of the temperature distribution along the place is decreed. One technical data of the primary elements DTY-018 are as follows: measuring range 0 to 200°C, threshold of sensitiveness 2°C, reproducibility of deflections 0.5°C, inertia under 2 see, error of measurement of the temperature of an

Card 2/3

Measuring the Temperature of Rotating Surfaces

SCHOOLING STATES SOLD SOLD STATES SOLD STATES SOLD STATES SOLD STATES SOLD STATES SOLD SOLD STATES SOLD SOLD SOLD STATES SOLD SOLD SOLD STATES SOLD SOLD SOLD SOLD STATES SOLD SOLD SOLD SOLD SOLD SOL

SOV/119-59-5-12/22

unmoved smooth metal surface 2.5%. The primary elements DTV-18 were tested regarding production possibilities at the Moskovskiy shinnyy zavod (Moscow Tire Plant); they are recommended for the control and regulation of surface temperatures of calenders and similar machines. There are 2 figures, 1 table and 2 Soviet references.

Card 3/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

AL'TSHULER, Ya.A., inzh.; KOLESNICHENKO, A.N., inzh.; LIFKOVICH, M.I., inzh.

Electric corrections of the scales of logarithmic color pyrometers.

Priborostroenie no.2:3-5 F '65.

(MIRA 18:3)

ACCESSION NR: AP5010932

I .5471-60

UR/0286/65/000/007/0116/0116

AUTHORS: Alltabuler, Ya. A.; Lipkovich, M. I.

6

Class 42, No. 169828 qm

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 116

TOPIC TAGS: temperature measurement, photoelectric pyrometer, ψ

ABSTRACT: This Author Certificate presents a method for measuring temperature with a color photoelectric pyrometer with region shift or effective length exchange without stopping the pyrometer. For automatic shifting, the switching from one measurement region to another is accomplished by a phase shift of the pulse generator supplying the photocell (see Fig. 1 on the Enclosure). The voltage is supplied to the pulse generator during that portion of the period when the light ray intersects the specific pair of light filters used for the given measurement region. Orig. art. has: 1 diagram.

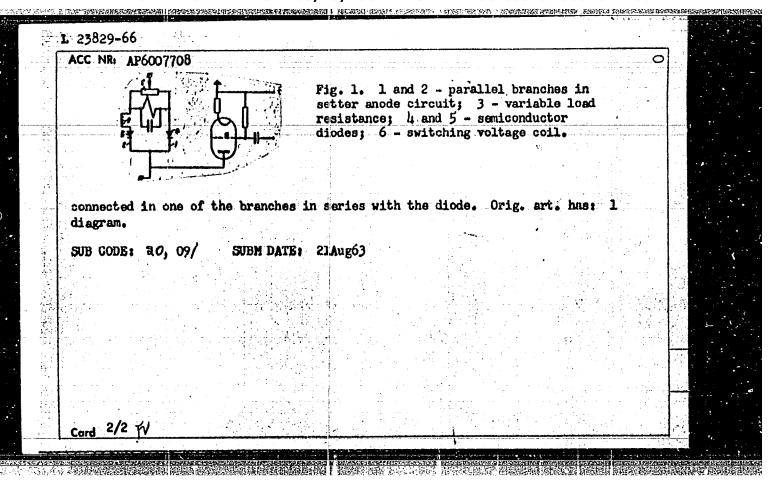
ASSOCIATION: none

Card 1/3

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4

	1-65			· · · · · · · · · · · · · · · · · · ·					
ACCESSI SUBMIT!	ION MR: APS	6010932 63	ENCL	01	1 14 (14) 14 (14)	SUB CODI	B: 10	5	
NO REF	SOV 3 000		OTHER:	000					
	•								
						1.			
	.7		•		•				
			L 177 V 7			uliu uzelika K		#資本 1	
				£.\$					

OPPER DESCRIPTION OF THE PROPERTY OF THE PROPE L 23829-66 ETC(m)-6ACC NR. AP6007708 SOURCE CODE: UR/0413/66/000/003/0091/0092 AUTHORS: Alitshuler, Ya. A.; Lipkovich, M. I.; Kolesnichenko, A. N. ORG: none Ż TITLE: Multiposition photoelectric temperature signaler. Class 42, No. 178579 announced by State Construction Bureau "Thermal Instruments" (Gosudarstvennoye konstruktorskoye byuro "Termopribor")/ SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 91-92 TOPIC TAGS: temperature gage, photoelectric pyrometer ABSTRACT: This Author Certificate presents a multiposition photoelectric temperature signaler containing an optical system, a reference radiator, and an amplifier, To provide for independent signaling of several levels of measured temperature with a single temperature of the reference radiator, the signaler has several independent temperature setters connected in parallel. The setters are in the form of amplifiersphase detecting indicators with anode circuits containing two parallel branches (see Fig. 1). A variable load resistance and a semiconductor diode opposing the diode in the other branch are connected in each branch. A switching voltage coil is Card 1/2 621-318-58-536



AL'TSHULMER, Ya.Ye., ingh.; BRODK IY, A.A., ingh.

Over-all mechanization for loading and unloading lumber. Proizv.—
tekh. sbor. no.2:64-71 '59" (MIRA 13:10)

1. TSentral'noye proyektno-konstruktorskoye byuro.
(Iumbering—Equipment and supplies)
(Cargo handling)

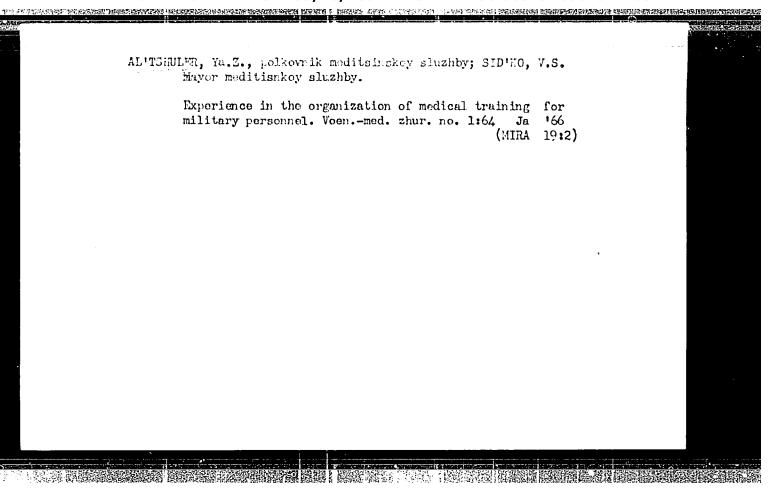
SMIRNOV, Yevgeniy Vasil'yevich, kand. tekhm. nsuk; AL'TSHULER, Yakov Yeremeyevich, inzh.,; ARKHIPOV, Ye'Ye,, retsenzent; ANTONOV, M.P., red.; FEDYAYEVA, N.A., red.; izd-ve; BODROVA, V.A., tekhm red.

[Hoisting devices for cranes] Gruzozakhvatnye ustroistva dlia kranov.

Moskva, Izd-vo "Rechnoi transport," 1961. 161 p. (MIRA 14:9)

(Cranes, derricks, etc.)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"



ALTSHULER, Ye., A. , AVVAKUHOV, V.I., SHERUA, L.C.

"Resonance Paramagnetic Absorption of Ultrasound in Some Salts of Rare-Earth and Iron" Groups of Elements" Kasan

Conference on Physics of agnetic Phenomena, May, 1956, Sverdlovsk, USSR

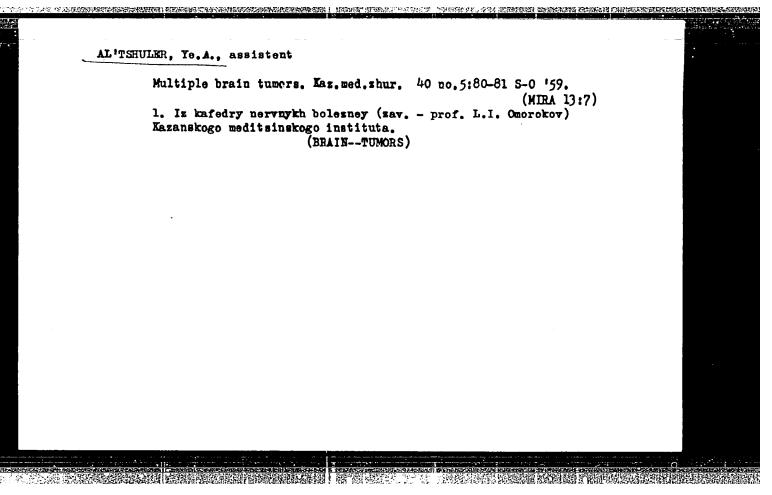
APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

AL'TSHULER, Ye. A.

"Traumatic Epilepsy: Pathogenesis, Course, and Treatment." Cand Med Sci, Kazan' State Med Inst, Kazan', 1953. (RZhBiol, No 6, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55



AL'ESBULDER, Youre, itended, nauk

Clinical an masts and therapy of transatic entlepsy. Kas.med.
shur. 40 no.1:51-56 Ja. 1'59. (MIRA 12:10)

1. Is killed in nervnykh belesney (zav. - prof.L.I.Omorokov)

Kasanskogo melitsinskogo instituta.
(NPILMPTICS-CARE AND TREATMENT)

CHICALINE CHARLES CONTROL DE CONTROL C

AL'TSHULER, Ye.A., kand.med. nauk

Rheumatic encephalitis with epileptiform seizures. Kaz. med. zhur. 4:14-16 Jl-Ag*63 (MIRA 17:2)

l. Kafedra nervnykh bolezney(zav. - prof. L.I.Omorokov) Kazanskogo meditsinskogo instituta.

RECONTRACTOR DESCRIPTION OF THE CONTRACTOR OF TH

Struchkov, V.I.; GRIGORYAN, A.V.; VOL'-EPSHTEYN, G.L.; AL'TSHULER, Yu.B.

State of the lung in late periods following its resection; X-ray observations. Sov.med. 28 no.7:49-57 J1 '65.

(MIRA 18:8)

1. Klinika obshchey khirurgii (zav. - chlen-korresponcent AMN SSSR prof. V.I.Struchkov) I Moskovskogo instituta imeni I.M. oschenova i rentgenovskoye otdeleniye Gorodskoy klinicheskoy bol'nitsy Nr. 23 imeni "Medsantrud" (glavnyy vrach A.N. Lobanova), Moskva.

AL'TSHULER, Yu.B.

Case of leiomyoma of the stomach. Vest. rent. i rad. 37 nt.5:55
S-0'64. (MRA 18:3)

1. Kafedra obshchey khirurgii (zav. - chlen-korrespondent AMN V.I. Struchkov) lechebnogo fakul'teta I Moskovskiro ordena Lenian meditainskogo institutai meni Sechenova na baze Moskovskov porodekov klinicheskov bel'nitsy No.23 imeni Medsantrud.

STRUCHKOV, V.I., prof.; LUTSEVICH, E.V.; AL'TSHULER, Yu.B.; LENSKAYA, G.M.

Late results of the treatment of gastrointestinal hemorrhages of ulcerous etiology. Khirurgiia 39 no.10:3-8 0 '63.

(MIRA 17:9

1. Iz kliniki obshchey khirurgii (zav.-chlen-korrespondent AMN SSSR prof. V.I. Struchkov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova na baze Moskovskoy gorodskoy klinicheskoy bol'nitsy No.23 imeni Medsantrud (glavnyy vrach A.N. Lobanova).

AUTHOR: TITLE:

AL'TSHULER, Yu.G., TATARENKO, A.S., GERCHINOV, S.V. 109-5-11/22 Calculation of Delay Systems of the Push-Pull Type. (Raschet zamedlyayushchey sistemy tipa sdvoyennykh "vstrechnykh" shtyrey,

EPONOMINATE REPRESENTATION DE REPRESENTATION DE LE REPRESENTATION DE LA REPRESENTATION DE LA

Russian)

PERIODICAL:

Radiotekhnika i Elektronika, 1957, Vol 2, Nr 5, pp 609-617

(U.S.S.R.)

ABSTRACT:

Formulae are derived for the potential, the current, the components of the electromagnetic field, and the wave resistance. The dispersion equation as well as an equation for the connec-

ting resistance is set up.

In conclusion some results of calculations carried out with trial data are compared with one another. The dispersion curves for systems of a general nature and such in a wave guide are given. In both cases good agreement between experimental and computed data was obtained. Curves for the connecting resistance in systems with and without wave guides are shown.

For reasons of comparison the curves for the connecting resistances of the "push-pull" type and for simple ones are given,

Card 1/2

CIA-RDP86-00513R000101210011-4" APPROVED FOR RELEASE: 03/20/2001

\$/058/62/000/005/109/119 A061/A101

9.2590

AUTHORS:

Al'tshuler, Yu. G., Tatarenko, A. S.

TITLE:

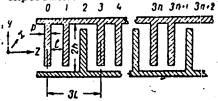
Study of a modified counter-collapsible-whip delay system

PERIODICAL: Referativnyy zhurnal, Fizika, no. 5, 1962, 21, abstract 5Zh154

("Uch. zap. Saratovsk. un-t", 1960, 69, 33 - 40)

A counter-collapsible-whip delay system, the period of which con-TEXT: sists of three conductors (see figure), has been studied. The dispersion equation of the system and the expression for the characteristic impedance are obtained. Theory and experiment are confronted for two modes.

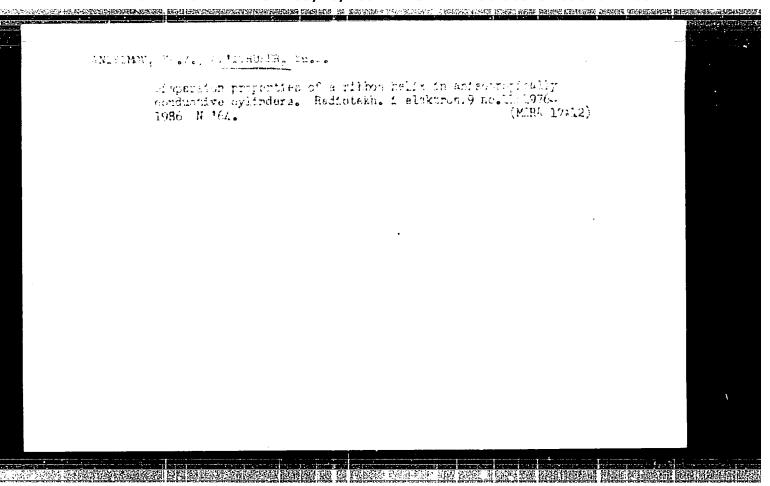
Figure.



· A. Zav'yalov

[Abstracter's note: Complete translation]

Card 1/1



9,1300

25952

S/141/61/004/001/012/022 E033/E435

AUTHORS:

Al'tshuler, Yu.G., Tatarenko, A.S. and Skorodumov, V.I.

TITLE:

Two-row ladder delay system

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1961, Vol.4, No.1, pp.126-135

TEXT: Various variants of ladder-type delay systems find application in millimetric waveband oscillators and amplifiers. This article gives the results of a theoretical investigation into a two-row ladder delay system placed in waveguides having projections and troughs respectively. The cross-sections of such waveguide systems are divided into regions as shown in Fig.2a (projection-type) and Fig.2b (trough-type). Starting with expressions for the potentials and currents for each region and determining the amplitude coefficients from the boundary conditions, the dispersion equations for the symmetrical and anti-symmetrical modes respectively are obtained (for TEM-wave propagation through each region). To determine the components of the electromagnetic field

the system is divided into 5 regions (Fig.3). For TEM-waves, the electric vector is obtained for each region by using the expression $\overline{E} = -\text{grad } V(x,y,z)$ and the magnetic field components by Card 1/5

S/141/61/004/001/012/022 E033/E435

Two-row ladder delay system

Card 2/5

the relationships $H_x = -\sqrt{\frac{\varepsilon}{\mu}} E_z; \quad H_y = 0; \quad H_z = \sqrt{\frac{\varepsilon}{\mu}} E_x$

Expressions for the coupling impedances for symmetrical and antisymmetrical modes are also obtained. geometrical dimensions of the waveguide system on the dispersion characteristics and on the coupling impedance are investigated for waveguide with projections - the variable parameters are $W_1(p = 1.5 \text{ mm}, b = W_2 = q = 0.5 \text{ mm});$ waveguide with troughs - the variable parameter is $W_2(p = 1.5 \text{ mm}, b = W_1 = q = 0.5 \text{ mm}).$ The results show that the two-row ladder system possesses a relatively wide passband, permits an increase in the interaction space of the electron flux and the high-frequency field, and offers possibilities for utilization in the uhf band. such systems with synphase excitation is greater than for single-row By suitable choice of the dimensions of the system

the widest passband for the symmetrical mode can be obtained and the

and the second of the second s

TOTAL PLANTON OF THE MANAGEMENT HAVE BEEN MANAGEMENT OF THE STATE OF T

9,1400

S/194/62/000/006/155/232 D201/D308

AUTHORS:

Al'tshuler, Yu.G., Tatarenko, A.S., and Gerchikov, S.V.

TITLE:

The analysis of retarding systems of twin interlaced

line stretcher type

PERICDICAL:

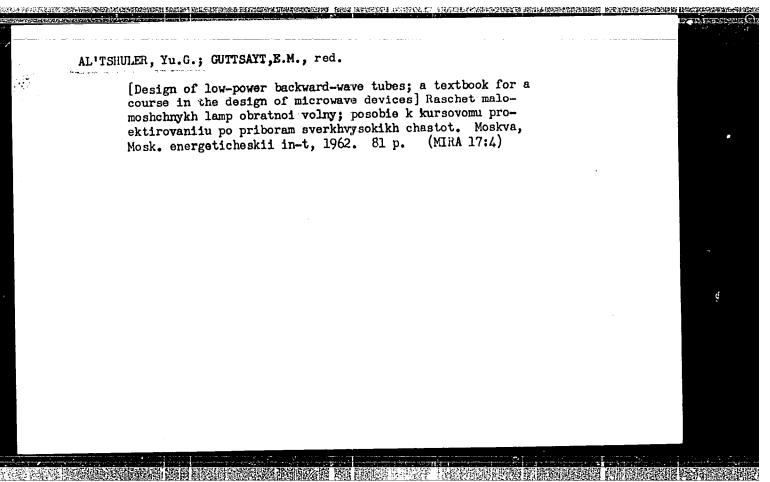
Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, 21, abstract 62h141 (Nauchn. yezhegodnik. Saratovsk. un-t. Fiz. fak. i N.-i. in-t mekhan. i fiz. 1955, Saratov, 1960. 100-107)

TEXT: The results of theoretical analysis of retarding systems of twin interlaced line stretcher type are given. The dispersion equation of the system is obtained. The expression for the coupling impedance is calculated. Comparison of coupling impedances of a single and twin line stretcher systems shows that, in the case of the in-phase excitation the coupling impedance of the twin system is greater. [Abstracter's note: Complete translation.]

Card 1/1

500	CONDITIONS OF THE PROPERTY OF	
	s/	
	AM4037190 BOOK EXPLOITATION	
	Al'tshuler, YU. G.; Tatarenko, A. S. Low-power backward wave tubes (Lampy* maloy moshchnosti s obratnoy volnoy), Moncow, "Sovetskoye radio", 1963, 295 p. illus., biblio. 10,000 copies printed.	
	TOPIC TAGS: low power backward wave tube, electronics, low power bac	
	PURPOSE AND COVERAGE: The book considers the fundamentals of the undergraph of the undergraph of low power backward wave generators and gives the necessary information on their service parameters. The book can be used as an aid to radio engineers and on their service parameters. The book can be used as an aid to radio engineers and students in advance courses of special schools.	
	TABLE OF CONTENTS [abridged]:	
	Foreword 3 Introduction 5 Ch. I. The electronics of a backward wave generator 15 Ch. II. Delay systems and their basic properties 52 Ch. III. Basic methods of calculating delay systems 64 Cord 1/2	
1		

0.000		ASSISTANCE DE LA CONTRACTOR DE LA CONTRA	
-:			
; t'	AM1037190		
	Ch. VII. Delay systems of Ch. VIII. Spiral delay sys Ch. IX. Some design element Ch. X. Some problems of sh	the rod terminal type 136 the flat terminal type 113 stems 161 nts of backward wave tubes and their requirments 182 haping and focusing electron beams in backward wave	
•	SUB CODE: CO, EE	SUBMITTED: 19Sep63 NR REF SOV: 092	
,	OTHER: 075	DATE ACQ: 16Apr64	
	Card 2/2		



s/058/62/000/006/108/136 A062/A101

AUTHORS:

Al'tshuler, Yu. G., Tatarenko, A. S., Gerchikov, S. V.

TITLE:

Study of wave delay structures of the double, mutually interlaced

pin type

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 6, 1962, 21, abstract 6Zh141

("Nauchn. yezhegodnik. Saratovsk. un-t. Fiz. fak. i N.-i. in-t mekhan. i fiz., 1955", Saratov, 1960, 100 - 107)

Results of a theoretical study of wave delay structures of the TEXT: double, mutually interlaced pin type are reported. The dispersion equation is obtained for the considered structure. The expression for the coupling resistance is derived. Comparison of the coupling resistances of single and double pin structures shows that in case of cophasal excitation the coupling resistance of a double structure is higher.

S. A.

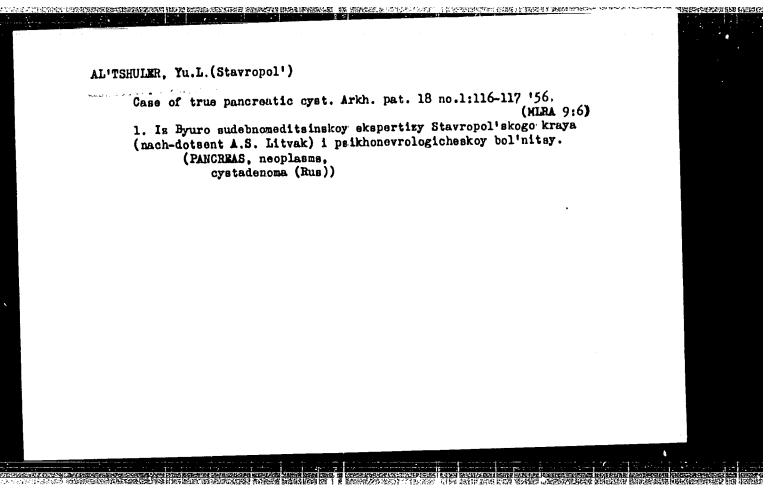
[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R000101210011-4" APPROVED FOR RELEASE: 03/20/2001

L 34884-65 ENT(1)/ENA(h) Peb 8/0141/64/007/006/1223/1226 ACCESSION NR: AP5006043 AITHOP: Al'tshuler, Yu. G.; Anisimov, Ye. V.; Revzin, R. M. Experimental investigation of a traveling-wave strophotron SOURCE: IVUZ. Padiofizika, v. 7, no. 6. 1964, 1223-1226 TOPIC TACS: strephotron, traveling wave strophotron, electron frequency tuning. frequency pulling ABSTRACT: The basic characteristics of a traveling-wave strophotron generator with electric frequency tuning were studied experimentally. A nearly parabolic electrostatic potential well was utilized in the tube. Power sutput was through a coacial line connected to reflectors at the cathode end of the line. The traveling-ways mode was affected by matching of the power cutput and an external load is power meter with an als ring 1 ad applied to the live to early if the What the thirth MA " " I'm " stiterably from the characteristic imperance the source to be strongered narrowed sharply, and frequency pulling and spurious is and the second of all all. t. In magnetic field strength, collector voltage, filament current, and length of the Card 1/2

L 34884-65 ACCESSION NR: AF5006043		1	
tioning the space affected on the space affected on the space of the s	ly alightly the frequency char of cover and to the street of the total of the nest	noteriatics of the stro-	e
LONG TANTON CAMPLOVANIV FOR	udaratvennyy universitet i Ara	tov State University)	
SUBMITTED: 05/tur 64	FNOLES	SUB CODE BC	
NO BEE SUA - OUT	отния • 002	ATD PRESS: 3212	
			* Daniel
	,		

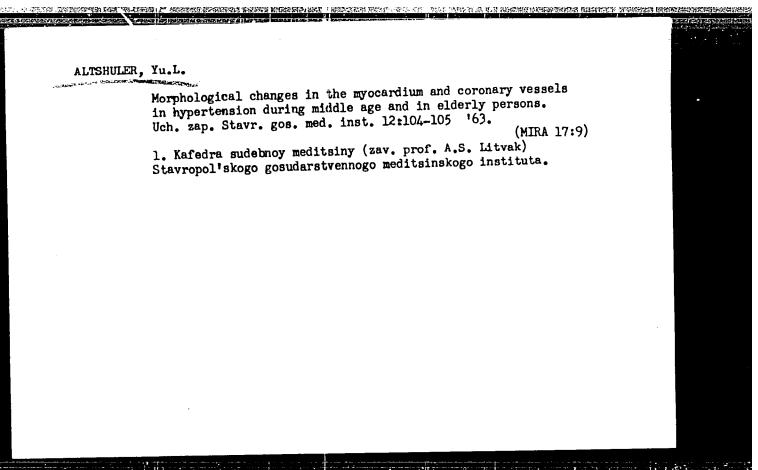


AL'TSHULER, Yu.L. (Stavropol')

Hemochromatosis with affection of the central nervous system. Elin.med.

34 no.4:65-70 Ap '56. (NIRA 10:1)

1. Iz psikhonevrologicheskoy bol'nitsy (glavnyy vrach A.Yu.Dorisht)
(HEMOCHROMATOSIS, pathology,
brain (Rus))
(BRAIN, in various diseases,
hemochromatosis (Rus))



AL'TSHULER, Yu.L.

Analysis of sudden and unexpected deaths in Stavropol Territory during the last 10 years. Uch. zap. Stavr. gos. med. inst. 12:307-308 '63. (MIRA 17:9)

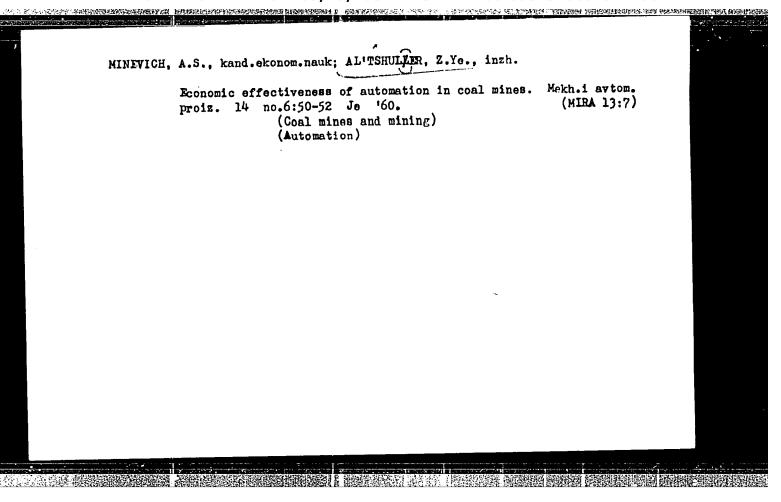
1. Kafedra sudebnoy meditsiny (zav. prof. Litvak A.S.) Stavropol'skogo gosudarstvennogo meditsinskogo instituta.

AL'TSHULER, Z.Ye., inzh.; BASTUNSKIY, M.A., inzh.; BERSTEL', V.N., inzh.;
BIRENBERG, I.E., inzh.; BOGOPOLSKIY, B.Kh., inzh.; BUKHARIH, S.I.,
inzh.; GERSHTKYN, B.G., inzh.; GRINSHPUN, L.V., inzh.; DREYYER, G.I.,
inzh.; DINERSHTEYN, A.G., inzh.; ZLATOPOL'SKIY, D.S., iznh.; KLANYUK,
inzh.; Nozin, Kozin, Yu.V., inzh.; LEVITIN, I.P., inzh.; MEL'NIKOV,
L.F., inzh.; KOZIN, Vu.V., inzh.; NADEL', M.B., inzh.; PAVLOV,
I.F., inzh.; PASLNN, D.A., inzh.; PESIN, B.Ya., inzh.; PYATKOVSKIY,
N.A., inzh.; RAZNOSCHIKOV, D.V., inzh.; ROZENOYER, G.Ya., inzh.;
ROZENBERG, R.L., inzh.; ROYTENBERG, N.L., inzh.; RYABINSKIY, Ya.I.,
inzh.; SYPCHENKO, I.I., inzh.; TARACHNIKOV, L.D., inzh.; FEL'DMAN,
inzh.; SYPCHENKO, I.I., inzh.; TARACHNIKOV, L.D., inzh.; FEL'DMAN,
E.S., inzh.; SHTRAKHMAN, G.Ya., inzh.; SHTERENGAS, N.S., inzh.;
LEVITIN, I.P., otvotetvennyy red.; STEL'MAKH, A.N., red.izd-va;
BEKKER, O.G., tekhn.red.

[Overall mechanization and automatization of production processes in the coal industry] Kompleksnaia mekhanizatsiia i avtomatizatsiia proizvodstvennykh protsessov v ugol'noi promyshlennosti. Pod red. IU.V.Kozina i dr. Moskva, Ugletekhizdat, 1957. 82 p. (MIRA 11:3)

1. Gosudarstvennyy proyektno-konstruktorskiy institut. 2. Institut Giprougleavtomatizatsiya i Tekhnicheskogo Upravleniya Ministerstva ugolinoy promyshlennosti (for all except: Levitin, Stelimakh, Bekker)

(Automatic control) (Coal mining machinery)

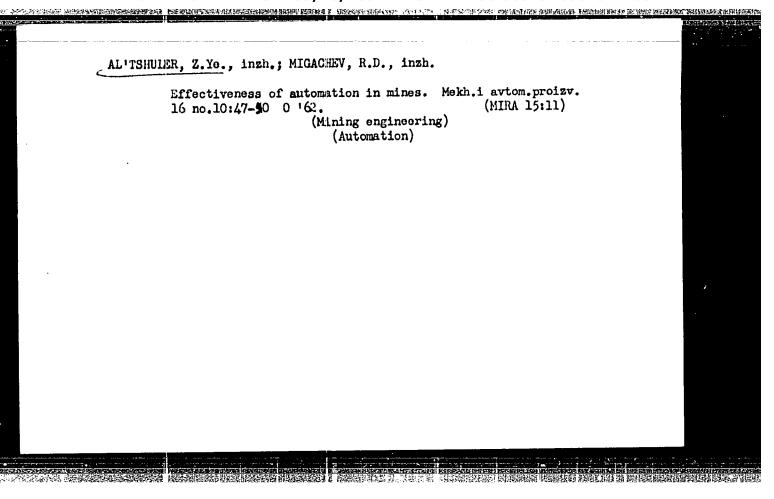


MINEVICH, A.S., kand.ekon.nauk; AL'TSHULLER, Z.Ya., inzh.

Economic efficiency of automatization in mines. Gor. zhur.
no.7:9-13 Jl '61. (MIRA 15:2)

1. Institut gornogo dela im. A.A.Skochinskogo (for Minevich).
2. Gosudarstvennyy proyektnyy institut po avtomatizatsii
ugol'noy promyshlennosti, Moskva (for Al'tshuller).

(Mining industry and finance)
(Automatic control)



112-57-7-15034

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 7, p 177 (USSR)

AUTHOR: Al'tshuller, A. N.

TITLE: Automatic Small-Pulse Adjustment of Sizes in Metal-Cutting Work (Avtomaticheskoye regulirovaniye razmerov malymi impul'sami pri obrabotke rezaniyem)

PERIODICAL: V sb.: Avtomatizatsiya tekhnol. protsessov v mashinostr.

Obrabotka metallov rezaniyem i obshchiye vopr. avtomatizatsii, Moscow,
1956, pp 299-309

ABSTRACT: Graphic results are presented of a statistical analysis of fine adjustments by means of small pulses when the actual size of the piece reaches a signal dimension. A layout is presented of an automatic outfit for compensating cutting-tool wear in diamond boring of aluminum pistons with 0.01 tolerance (see figure on p 176). After boring, piston (1) travels to the left, toward a pneumatic caliber; hydraulic cylinder (10) operates and opens the blowing valve (4), which causes purging of the bored hole by air under a pressure of

Card 1/2

112-57-7-15034

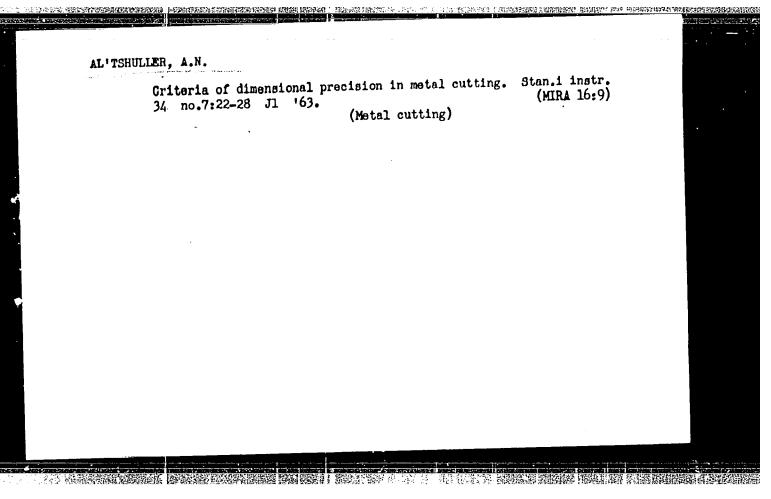
Automatic Small-Pulse Adjustment of Sizes in Metal-Cutting Work

3-4 kg/cm². As the piston travels farther to the left, it slips over pneumatic caliber (8). If the bore is equal to or less than the signal dimension, contact (11) dips into the mercury. About 1/2 second later, the traveling cam pushes end switch (12), energizing the PAP coil that turns on the solenoid controlling the oil feed to hydraulic cylinder (15). The piston of this cylinder travels and, through a rack gear, turns guide (16) carrying cam (17) and ratchet catch (18). Ratchet wheel (20), by means of drawbar (21), operates the adjustable mandrel, increasing the cutting-tool gab in proportion to the controlling pulse. A detailed analysis of the experimental results with the small-pulse regulation system is presented. Distribution of dimensions of parts obeys the normal law in the first approximation. There are 8 illustrations (VNII, Moscow).

A. N. L.

Card 2/2

Avecamination manual SSSB. Komissiya pot sabinologii manbinoticopsilya Avicaminatya manuk SSSB. Komissiya pot sabinologii manbinoticopsilya Avicamination of Machine-Daile in Processas violizioni pristori di Machine-Daile in Processas violizioni pristori and Contrologii man bondoni in Avicamination of Machine-Daile in Processas violizioni pristori and Contrologii man bondoni in Aminationi del Contrologii man bondoni in Aminationi and Machine and Contrologii man bondoni in Aminationi and Machine and Contrologii man bondoni in Aminationi and Machine and Contrologii man bondoni in Contrologii man bondoni in Contrologii man bondoni maniati man	AL'	ITSH	uL	Le R,	A . N	/				that	拉色研究	1				in an annual series
	25(1) PHASE I BOOK EXPLOITATION SOV/2383 Akmiemiya nauk SSSR. Komissiya pe tekhnologil mashinostroyeniya	Aviomatizatsiya mashinostroltelinyhh protessor. t. III Privod Aviomatizatsiya pabochimi mashinasi (Automation of Machine-build- ing Processes folki? Drives and Control Systems for Process Indentisery: Roscow, Izd-vo As SSS, 1959, 373 p. Erratm slip Inserted. 5,000 dopies printed.	Ed.: W.f. Dikushin, Acadesician; Ed. of Publishing nouse: loffe; Tech. Ed.: I.P. Eur'shn. PUBPCKE: This book is intended for engineers dealing with suro-	mation of various machine-building processes. GOVERAGE: This is the second volume of transactions of the second Conference on Overall Rechanisations and Automation of Manufaction for the present volume Conference on Overall Rechanisations and September 24-29, 1956. The present volume consists of three parts, the first dealing with automation of consists of three parts, the first dealing and second of the conference of the	sections to construct production lines, interpress instruc- methods for automatic productions in automating lines: devices, application of electronics in automatic impection of measuring recess, and suchines for automatic impection of measuring recess. The second periodes automaty, including appli- and control systems for process machinery, including appli- ments on the distal computers in the control of metalling	machine tools, reliability of relia systems, spatial consistency of machine tools, statement converters in the critical of induction generate frequency converters in the critical use in automatic systems, and uttrasorie vibrators. Pertrements, hydratile drives, and uttrasorie vibrators, Pertrements, hydratile drives, and uttrasorie under the statement of the converted to the co	inhage, indexing and enter disphrage-typ permattic drives, wartons auxiliary derices for account or production drives, wartons auxiliary derices for account or production lines, and serbods of design and accuracy of cass. No personalities are sentioned. There are no references. [Quindish 1 1 1 2 Decessed]. Automatic Control of Disensions	the state of the Controlling Optimum Conditions for Controlling the Feat District Of Machined Paris	Kopanevich, M. Xe. Zenin prizewinner. Inspection Methods 29 For Automata Production Lines	£,		4 4	ė.	Problems Concerning the Heliability of Relay	ric Drive for Metal-cutting the Throry of Mechanisms of	



112-57-7-15013

The secure of Secondary of the second sections of the

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1957, Nr 7, p 173 (USSR)

AUTHOR: Al'tshuller, A. S.

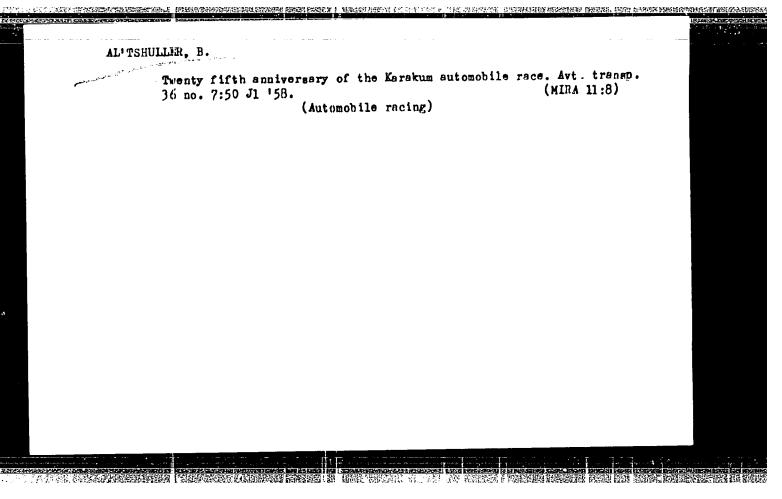
TITLE: Remote Control for Mercury-Converter Substations Intended for Electrolytic Work (Telemekhanicheskoye upravleniye rtutnopreobrazovatel nymi podstantsiyami elektroliznykh seriy)

PERIODICAL: W sb. Telemekhaniz. v nar. kh-ve, AN SSSR, Moscow, 1956, pp 229-240

ABSTRACT: The author describes multi-channel and few-channel remote controls for mercury-converter substations developed by him. The many-channel system is built on the amplitude-polar principle, while the few-channel system uses a relay-type distributor-fixator of IAT, AS USSR, with amplitude selection. There are 8 illustrations. Bibliography: 1 item.

N.M.F.

Card 1/1



TARRESTAL LABORATE DANS BURGE FEBRUARE TO FILER COLUMN FOR HEAD BEFORE THE FORESTAL FOR THE FORESTAL FORESTAL FOR THE FORESTAL FORESTAL FOR THE FORESTAL FORESTAL FOR THE FORESTAL FORESTAL FORESTAL FOR THE FORESTAL FORESTAL FOR THE FORESTAL FORESTA

GUBIN, Semuil Akimovich; ZHOROV, Solomon Mordukhovich; AL!TSHULLER,
B.N., red.; GALAKTIONOVA, Ye.N., tekhn.red.

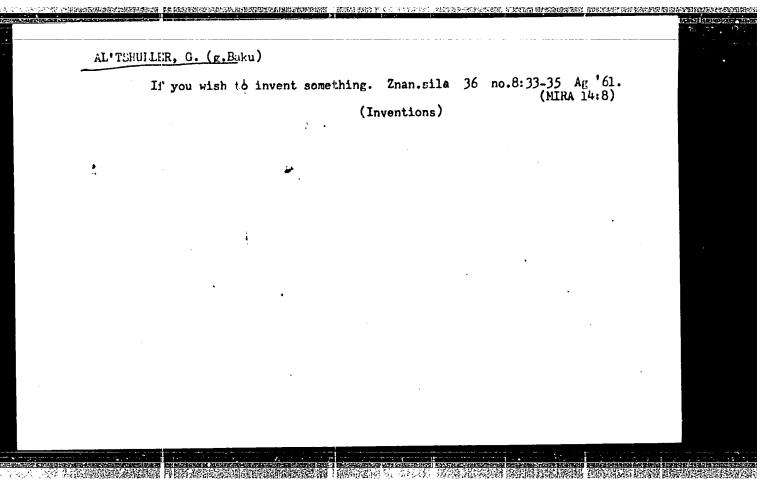
[Handbook in safeguarding working conditions, safety factors. hygiene for auto-transportation establishments] Spravochnik po okhrane truda, tekhnike bezopasnosti i proizvodstvennoi sanitarii dlia avtotransportnykh predpriiatii. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1959. 131 p. (MIRA 12:9) (Transportation--Safety measures)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

SALOV, Aleksey Ivanovich; AL'TSHULLER, B.N., red.; GALAKTIOLOVA, Ye.N., tekhn. red.

[Safety measures in the operation and repaire of motor vehicles]
Tekhnika bezopasnosti pri ekspluatatsii i remonte avtomobilei.
Moskva, Nauchmo-tekhn. izd-vo M-va avtomobil'nogo transporta i shosseinykh dorog REFSR, 1961. 175 p.

(MCTATALERA MAINTENNA MAINTENNA



COMPANY OF THE PROPERTY OF THE

82182

9,2180

5/106/60/000/08/03/003

AUTHOR:

Al'tshuller, G.B.

TITLE:

The Possibility of Controlling the Capacitance Ratio of High-Fre-

quency Quartz Resonators

PERIODICAL: Elektrosvyaz', 1960, No. 8, pp. 26-32

The author shows the connection between the capacitance ratio of quartz resonators and the basic electric circuit parameters. The capacitance ratio m can be expressed by the formula;

where $C_{\mathbf{k}}$ = equivalent capacitance, and $C_{\mathbf{0}}$ = static capacitance. The importance of the parameter m in designing radio equipment is shown. Up to now, it was believed that the value of the capacitance ratio of high-frequency quartz resonators was determined only by the crystal cut and was a constant value for a given cut. In the author's opinion, the value of the capacitance ratio can change within wide limits and is subject to definite laws. The equivalent capacitance value depends to a considerable degree on the irregular distribution of the shift amplitude of the basic type of oscillation and on the relation of plate and electrode dimensions. The static capacitance value depends on the

Card 1/4

82182

S/106/60/000/08/03/003

The Possibility of Controlling the Capacitance Ratio of High-Frequency Quartz Resonators

electrode surface and is practically independent of the quartz plate surface. Formulas are given showing that the capacitance ratio of a quartz resonator does not remain constant. It is shown that the capacitance ratio increases with a reduction of the electrode surface. A 40% increase is found with an electrode surface reduction in one dimension, while a reduction in two dimensions results in an increase by a factor of 2. Changes in the dimensions of the quartz plate at constant electrode dimensions resulted also in a 40% change of the capacitance ratio. The results of a corresponding experimental investigation are shown in graphs. Quartz plates with AT and BT cuts were used in the experiments. It was also established that the capacitance ratio depends considerably on the convexity of the quartz plate. The dependence of capacitance ratto changes of disk-shaped quartz resonator plates with an AT cut on the ratio of the plane section diameter to the disk diameter was also established experimentally. The plate and electrode diameters were 11 and 7.5 mm, respectively; the frequency was 4.5 Mc. The capacitance ratio decreases by a factor of 2 in case of convexity, as shown by a graph (Fig. 5). The temperature dependence of the capacitance ratio is also discussed. All values of the static capacitance of the quartz resonators and the capacitance of the crystal holder terminals were meas-

Card 2/4

ıX

THE RESERVED BUILDING FOR THE PROPERTY OF THE

82182

3/106/60/000/08/03/003

The Possibility of Controlling the Capacitance Ratio of High-Frequency Quartz Resonators

ured on a Q-meter as ordinary capacitances. The value of the capacitance ratio of quartz resonators in oscillator circuits was determined by frequency changes and from the following formula:

 $m = \frac{2(C_0 + C_{c1r})}{\Delta C} \left(1 + \frac{C_{c1r} + \Delta C}{C_0}\right) \frac{\Delta f}{f} ,$

where $C_{\rm cir}$ = capacitance of the circuit, parallel to the resonator, f = frequency. (Abstracter's note: $C_{\rm cir}$ was designated in the Russian text as $C_{\rm cx}$). For calculating the capacitance ratio from the above formula, the frequency of the quartz resonator, the values of $C_{\rm cir}$ and $C_{\rm o}$ and the frequency change of the oscillator when connected in parallel to the quartz resonator, the capacitance $C_{\rm p} = \Delta C$, must be known. These values can be measured using a quartz oscillator with a grounded anode and a quartz resonator connected between the control grid and the ground. The circuit diagram of such an oscillator is given (Fig. 7). The operational conditions of the oscillator and the circuit elements must be selected in such a manner that a self-heating of the quartz resonators is neg-

Card 3/4

H

82182

8/106/60/000/08/03/003

The Possibility of Controlling the Capacitance Ratio of High-Frequency Quartz

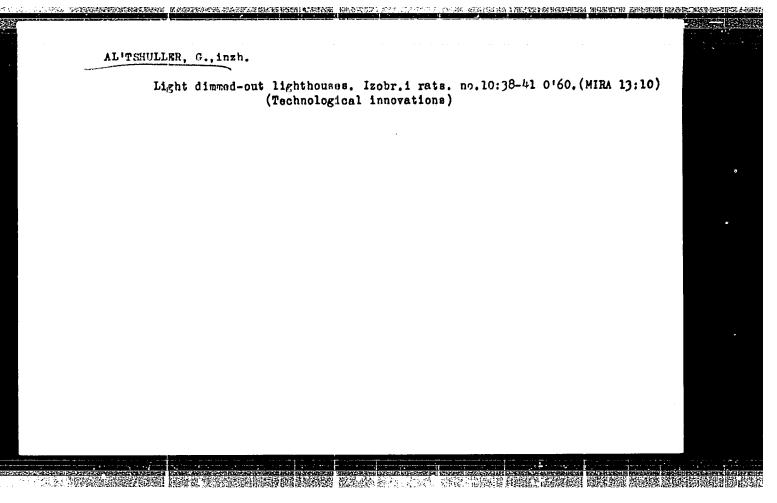
ligible. There are 6 diagrams and 8 references: 6 Soviet, 1 American, and

SUBMITTED: October 1, 1959

W

Card 4/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"



85482

S/108/60/015/011/005/012 B019/B063

9.2583

Al'tshuller, G. B., Prokhorov, V. A., Members of the Society

TITLE:

AUTHORS:

Compensation of the Temperature-dependent Frequency

Variations of Quartz Generators by Means of the p-n Junction

Capacity of Semiconductor Devices

PERIODICAL:

Radiotekhnika, 1960, Vol. 15, No. 11. pp. 39-44

TEXT: The capacity of a p-n junction in blocked state is a particularly stable parameter of semiconductor devices. If this capacity is controlled by a temperature-dependent voltage, it may be used to compensate temperature-dependent frequency variations. The authors estimate the maximum possible compensation and select the necessary circuit elements. The problem is studied on a quartz generator in which the resonator is interconnected between grid and anode (Fig. 2). It proved to be most efficient to connect the compensating capacity and the quartz in series; the minimum compensating capacity turned out to be most favorable. A relation is derived for the relative value of the change of the control voltage required for the change in capacity. It is finally noted that

85482

Compensation of the Temperature-dependent Frequency Variations of Quartz Generators by Means of the p-n Junction Capacity of Semiconductor Devices

PERMITTANIAN DESCRIPTION DE MESONA DE LA COMPANSA DEL COMPANSA DEL COMPANSA DE LA COMPANSA DEL COMPANSA DEL COMPANSA DE LA COMPANSA DEL COMPANSA DE LA COMPANSA DE LA COMPANSA DEL COMPANSA

S/108/60/015/011/005/012 B019/B063

the frequency stability can be improved only by means of a stabilized power source. The compensation method described by the authors may be also used for other radiotechnical purposes. There are 4 figures and 4 references: 3 Soviet and 1 British.

SUBMITTED:

March 12, 1960

Card 2/2

22200

s/106/61/000/001/004/008 A055/A033

9.2563 (1040,1147)

AUTHORS: Al'tshuller, G. B. and Prokhorov, V. A.

TITLE: Selecting the component parts of circuits of thermal compensation

of frequency variation of quartz oscillators

PERIODICAL: Elektrosvyaz', no. 1, 1961, 24 - 32

TEXT: Applied to crystal oscillators, the usual method of thermal compensation of frequency variations is ineffective. Even reactances with a high temperature coefficient do not ensure such frequency variation as is necessary for compensation, the variation of reactances being insufficient for that purpose. One of the methods allowing to obtain a sufficient variation of reactances with temperature is the utilization of XR-circuits controlled by thermosensitive resistances (thermistors): for instance, an XR-circuit, composed of an inductance (or a capacitance) in parallel with a thermistor, can be connected in series with the crystal resonator, or an XR-circuit, composed of an inductance (or a capacitance) in series with a thermistor, can be connected in parallel with the crystal. This method of thermal compensation of crystal oscillators has already been described (Ref. 1:

Card 1/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

THE RESIDENCE OF THE PARTY OF THE PROPERTY OF

HIRANGANANA MARAKARAN MARAKAN MARAKAN MARAKAN MARAKAN MARAKAN MARAKAN MARAKANAN MARAKANAN MARAKAN MARAKANAN MARAK

22208

Selecting the component parts

S/106/61/000/001/004/008 A055/A033

Spears, "Thermally compensated crystal oscillators", The Journal of the British Institution of Radio Engineers, vol. 18, No. 10, 1958), but the article in question contains no precise data on the choice of the component parts of the compensating XR-circuit, and gives no information whatever on the losses caused by such a circuit. Therefore, examining the case of the most usual connections of crystal oscillating systems (with crystal resonator connected either between anode and grid or between grid and cathode), and using equivalent circuits of the Hartley oscillator, the author of the article develops general formulae giving the losses (loss resistances) in the case of either series or parallel connected compensating circuits. He then investigates the problem of controlling the frequency of the crystal oscillator by XR-circuits, and produces formulae and diagrams showing the admissible relationships between the various parameters of the whole circuit. These theoretical results are confirmed experimentally. Other curves show quite clearly the advantage of using thermally compensated crystals, as compared to non-compensated ones. Speaking finally of "BT-cut" and "AT-cut" crystals, the author gives a brief account of a theoretical and experimental investigation showing the peculiarities of the thermal compensation of these crystals. He states that frequency regulation of a "BT-cut" crystal is more difficult than that of an "AT-cut"

Card 2/3

22208 S/106/61/000/001/004/008 A055/A033

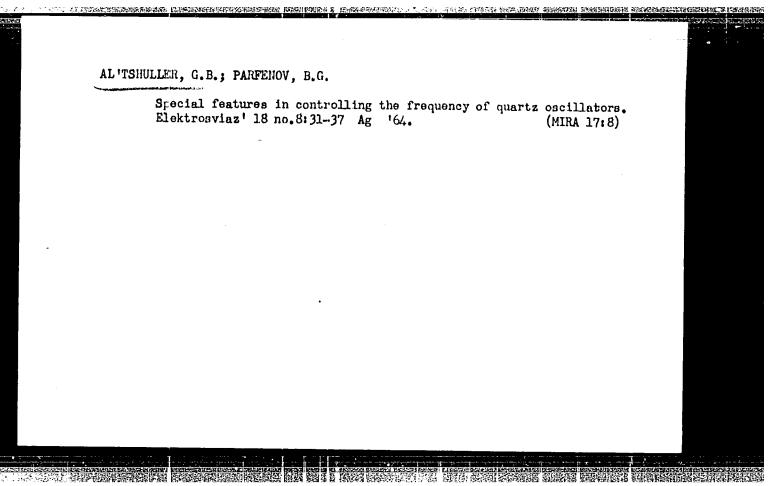
Selecting the component parts ...

CONTROLLEGIST I REPRESENTATE REPRESENTATION CONTROLLEGISTS I CONTROLLEGISTS

crystal. The majority of "At-cut" crystals have a positive temperature coefficient of frequency. For their thermal compensation, it is necessary to connect them either in series with a parallel CR-circuit or in parallel with a series LR-circuit. [Abstracter's note: by analogy with G-cut, X-cut and Y-cut crystals, the Russian "AT" and "5T" should most probably be translated by AT-cut and HT-cut] There are 10 figures and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to an English language publication reads as follows: Spears, "Thermally compensated crystal oscillators", The Journal of the British Institution of Radio Engineers, vol. 18, No. 10, 1958.

SUBMITTED: February 16, 1960.

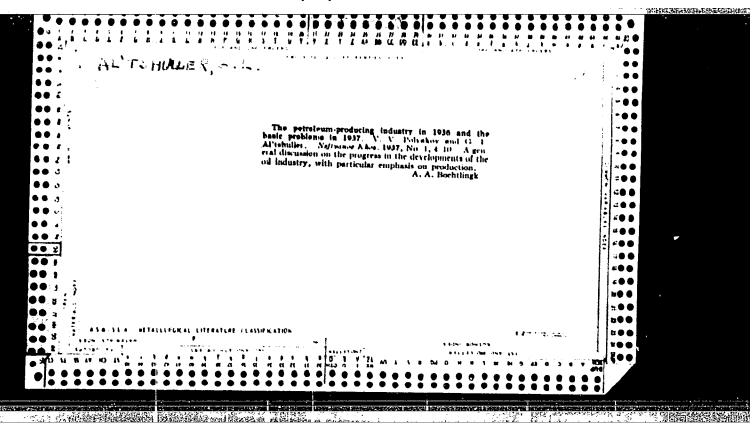
Card 3/3



EMP(e)/EMT(1)/EWT(m)/EWP(b)/EWA(h) Pq-4/Peb L 32837-65 \$/0106/65/000/002/0042/0051 ACCESSION NR: AP5005581 18 AUTHOR: Al'tshuller, G. B.; Shakulin, V. G. TITLE: Using one quartz resonator for stabilization of several adjacent frequencies SOURCE: Elektrosvyan', no. 2, 1965, 42-51 TOPIC TAGS: quartz resonator, crystal frequency control, crystal controlled oscillator ABSTRACT: Formulas are presented which permit determining the frequency deviation in a quirtz oscillator for various values and both series and parallel connections of the control resistor. It is shown that the parameter in * C/Co. where C and Co are effective and static capacitances of the quartz resonator, respectively, largely determines the frequency control. The parameter m increases with an increase in the electrode diameter and with a decrease in the

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

Card 1/2



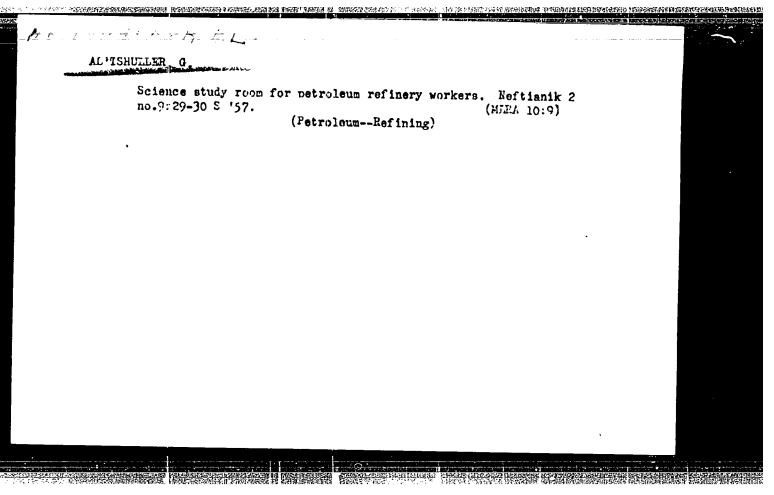
PATSIORIN, A.; AL'TSHULLER, G., inzhener.

Rapid repair of a cracking plant. Neftianik 1 no.10:6-8 0 '56.

(MERA 9:11)

1. Glavnyy tekhnolog kreking-zavoda imeni Vano Sturua.

(Cracking process)



SOV/92-58-1-11/22

AUTHORS:

Al'tshuller, G., and Shapiro, R., Engineers

TTILE:

In the Refinery Laboratory (V zavodskoy laboratorii)

PERIODICAL: Neftyanik, 1958, Nr 1, pp. 16-18 (USSR)

negative de la compara la seculiar de la comparación del comparación de la comparaci

ABSTRACT:

According to this article, a good job is done by the personnel of the laboratory at the Baku refinery "Neftegez". Laboratory technicians do their utmost to improve research techniques and to find new methods which will increase the efficiency of analysis and evaluation. The research department of this laboratory made a thorough study of various factors affecting the yield of ethylene produced by pyrolysis. Different types of crude stock were tested, and it was found that the most suitable distillate is produced by coking heavy goudron. Excellent results were also obtained from pyrolysis of paraffinic solar oil. Laboratory findings helped to develop several methods for increasing the ethylene content in the pyrolysis gas. Moreover, the laboratory made experiments with the coking of semi-goudron, which produces a distillate suitable for pyrolysis. A group of laboratory specialists, headed by G. I. Babayeva, developed a device for deter-

Card 1/2

In the Refinery Laboratory

SOV/92-58-1-11/22

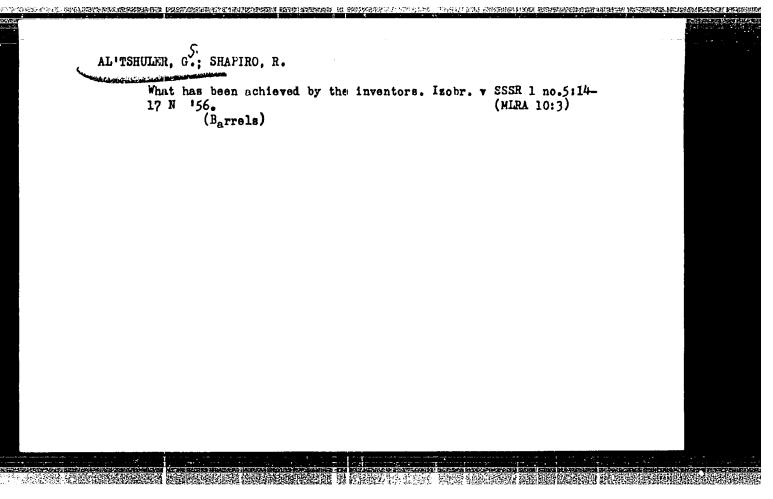
mining the content of organic substances in sulfuric soid even when this content does not exceed 2 percent. The introduction of this device in the refinery made control of operating conditions. more precise. Coking of tar produced by hydrogenation yields green oil that contains a certain quantity of water which is difficult to remove. Laboratory tests proved that this water can be completely removed if green oil is filtered upward through gravel and shell rock. By applying this method the dehydration process was accelerated, and the fuel consumption reduced. In addition the laboratory personnel developed a filter for the rapid removal of water from dark petroleum products. When this filter was put into use, the precision of the laboratory analysis improved. Laboratory personnel are continuing their effort to improve various technological methods. There are 2 photographs showing laboratory technicians.

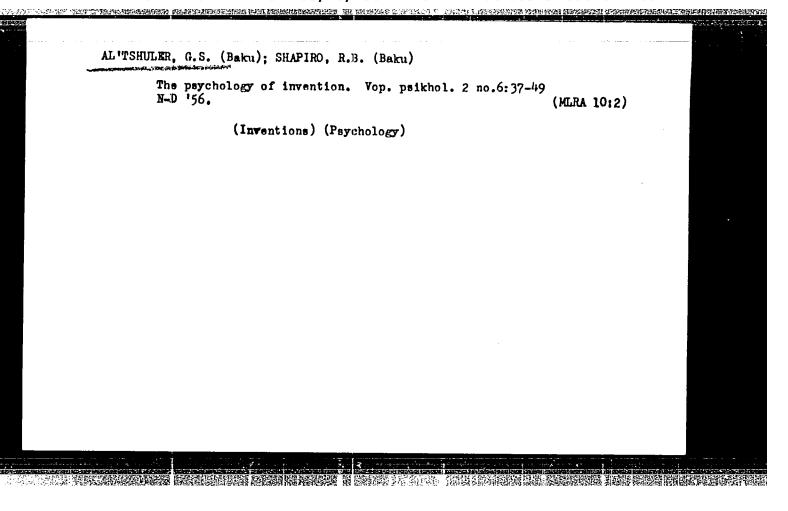
ASSOCIATION: Bakinskiy zavod "Neftegaz" (Baku refinery "Neftegaz")

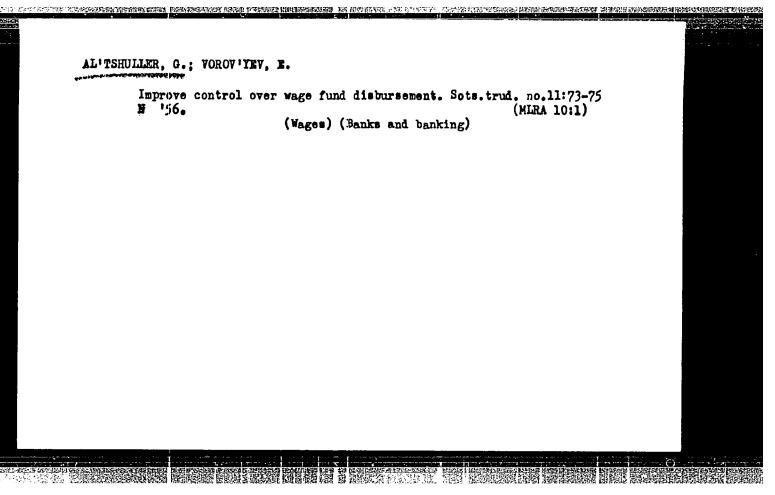
1. Refineries—Operation 2. Laboratories—Performance

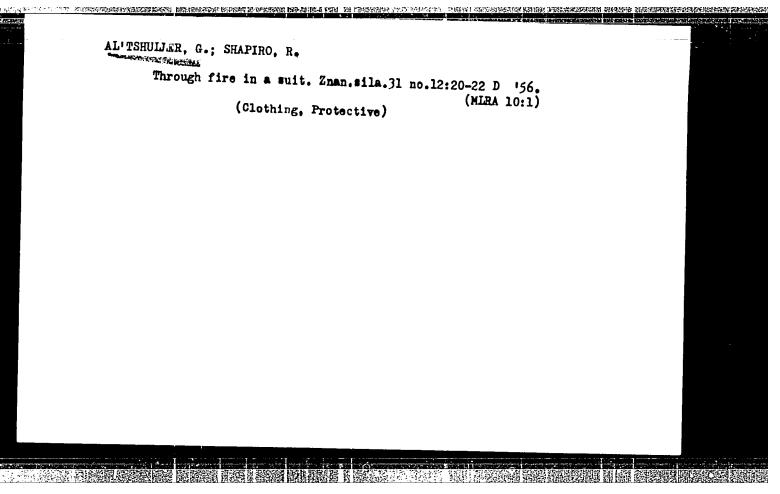
Card 2/2

3. Industrial research—USSR 4. Petroleum—Fractionation









DLITSHULER, G.S.

AUTHORS:

Al'tshuler, G. and Shapiro R. (Baku)

4-1-1/19

TITLE:

What Did the Inventor Propose (Chto predlozhil izobretatel')

PERIODICAL:

Znaniye - Sila, 1958, # 1, pp 1-4 (USSR)

ABSTRACT:

The authors tell how a young engineer invented a new technology for wall building. For many years walls had been erected vertically. This method was so widely accepted that the old engineers never tried to find a new way.

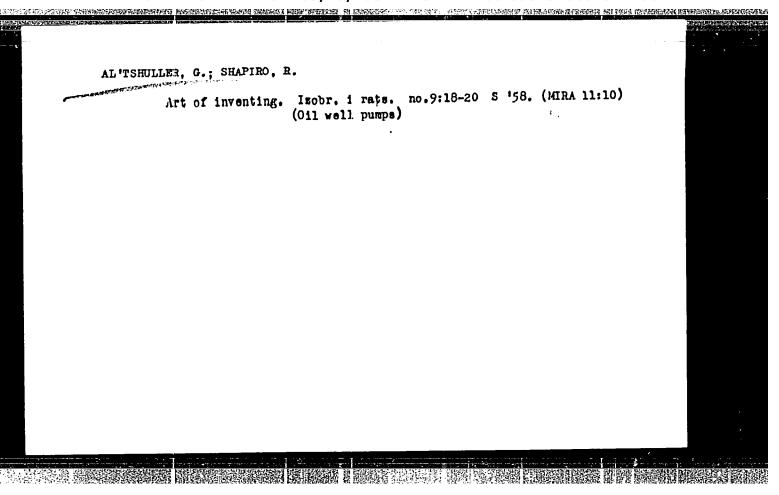
The young engineer invented a new method of producing blocks in a horizontal position. Cube-shaped stone blocks were laid into a form placed horizontally on a flat slab; the intervals were filled with a liquid solution. The form maintains the rated dimensions and the slab underneath secures a level plane. The liquid solution may be poured from a bin, eliminating the need for a bricklayer's trowel. Due to the horizontal position of the blocks, the use of cement is considerably reduced. A crane lifts the finished blocks into their proper place.

This new method permitted the bricklayers and plasterers to

increase their productive capacity.

AVAILABLE: Card 1/1 There are 3 sketches. Library of Congress

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"



AUTHORS:

Al'tshuller, G., Engineer, Shapiro, R., SOV/29-58-10-18/28

Engineer, Baku

TITLE:

Oxidized Water (Okislennaya voda)

PERIODICAL:

Tekhnika molodezhi, 1958, Nr 10, pp 25 - 27 (USSR)

ABSTRACT:

In this paper the authors deal with the history of hydrogen peroxide. The French chemist Professor Tenar discovered hydrogen peroxide in 1818. As he said, it is true that chemists can never foretell the fate of their discoveries. He stated, however, that he was convinced that exidized water has a great future. More and more people became interested in hydrogen peroxide. Bakh, Mendeleyev, Pavlov, Melikov, Semenov and many other Russian scientist investigated this substance. It became known from the papers of Pisarzhevskiy. In the initial stage of this development H202 could only be obtained

as very weak and impure aqueous solution. In 1860 the well-known scientist Vel'tsin wrote full ef bitterness that only Tenar was lucky enough to carry out his investigations with a really pure substance. The chemists did,

Card 1/3

Oxidized Water

SOV/29-58-10-18/28

however, not give in and found hydrogen peroxide in plants, in the skin and sputum. The German chemist succeeded in 1874 to find H₂O₂ in snow. In every case, however, only very small quantifies were concerned. Only in the last decades H202 was successfully produced by electrochemical methods. There is also a method which makes it poscible to produce H,O, immediately from hydrogen and exygen. This method is less economical but it yields a very pure substance and makes an automized production possible. Two extreme directions prevented for a long time an industrial utilization of H₂O₂: An overestimation of its explosiveness and an underestimation of its stability. Numerous properties of this substance are already known. Some of them have still remained unexplained. Chemically pure hydrogen peroxide is very stable. In the case of impurification, however, a strong decomposition sets in. Hydrogen peroxide has the advantages of compressed and fluid exygen. Oxygen produced from H₂O₂ is, however, far more expensive. Using hydrogen perox2de is justified only in cases where costs do not matter and where density and light weight are important. During the second world war H202 was given several camonflage

Card 2/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

现的比较少是现在的现在分词的现在分词,但是是是用 的是是 经营机的 经证据的 计数据 () 计算术 计算术 "我们是这些是是 是 了我们的现在是用的 使风险的 对我们是我们是这些的证明,我们我们是我们是我们是我们是我们是我们是我们

Oxidized Water

SOV/29-58-10-18/28

names. The first jet bombers were used in 1944. Also in the case of long distance rockets which were used by the Germans during the attacks of London in 1944 $\rm H_2O_2$ was used. In the post-war years hydrogen peroxide reached its widest field of application (interior page, rear cover). Every year new fields come up in which hydrogen peroxide is applied.

Card 3/3

AUTHORS:

Alitshuller, G., Shapiro, R.

29-58-6-16/19

TITLE:

Above the Speedometer's Limit (Za chertoy spidometra)

ti dografikasi dimerkana kai matandan da kai angaran da kai angaran kai angaran da kai angaran kai kai da kai

PERIODICAL:

Tekhnika Molodezhi, 1950, Vol. 26, Nr 6, pp 32-34 (USSR)

ABSTRACT:

This is an amusing story concerning the invention of a civil engineer how the permissible speed of a car can be still raised. This invention was tried out by the engineer with his own car and he came into conflict with the pointsmen. The pointsmen could not solve the problem how a car can be driven with a speed higher than its possible maximum speed. Finally the matter was, however, explained and the civil engineer applied for a matent. There are 2 figures .

1. Passenger vehicles--Velocity 2. Passenger vehicles--Control

3. Inventions--USSR

Card 1/1

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101210011-4"

