

YUR'YEV, Yu.K.; BELYAKOVA, Z.V.; VOLKOV, V.P.; OSADCHAYA, R.A.; SHAYDEROVA, L.P.

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Tetraacyloxysilanes in organic synthesis. Part 28: Acylation of benzene by silicon- $\beta$ -chloropropionic and  $\delta$ -chlorobutyric anhydrides. Part 29: Preparation of organic acid anhydrides from their silicon anhydrides. Vest. Mosk. un. Ser. 2: Khim. 15 no.1:61-67 160.

(MIRA 13:7)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.
(Silicon organic compounds)
(Anhydrides)
(Acylation)

#### 88481

15.8111

2209

\$/079/61/031/001/013/025 B001/B066

AUTHORS:

Movitskiy, K. Yu., Volkov, V. P., Shayderova, L. P., and Yur'yev, Yu. K.

TITLE:

Studies in the Furan Series. XI. 2,5-Bis-(chloro-methyl)foran in the Synthesis of Symmetric 2,5-Dialky! Furans

PERIODICAL:

Zhurnal obshchey khimii, 1961, Vol. 31, No. 1, pp. 136 - 139

TEXT: The authors synthesized the symmetric 2,5-dialkyl furans by the reaction of 2,5-bis-(chloro-methyl)-furan with organomagnesium compounds, in yields of 33 - 56 %. They found the yield to be highly dependent on the length of the carbon chain and on the nature of the halogen of the alkyl magnesium halide. The maximum yields of dialkyl furans were obtained with alkyl magnesium chlorides (46 % with propyl magnesium chloride, and 38 % with butyl magnesium chloride); when using alkyl magnesium bromides, the yield drops to 37 % with propyl magnesium bromide, and to 29 % with butyl magnesium bromide; when using methyl magnesium iodide, the yield is

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#### 88481

Studies in the Furan Series. XI. 2,5-Bis-(chloro-methyl)-furan in the Synthesis of Symmetric 2,5-Dialkyl Furans

S/079/61/031/001/013/025 B001/B066

R = CH<sub>3</sub>, C<sub>2</sub>H<sub>5</sub>, r-C<sub>2</sub>H<sub>7</sub>, n-C<sub>4</sub>H<sub>9</sub>, iso-C<sub>4</sub>H<sub>9</sub>; R' = C<sub>2</sub>H<sub>5</sub>, n-C<sub>3</sub>H<sub>7</sub>, n-C<sub>4</sub>H<sub>9</sub>. Attempts with Grignard reagent: from n-octyl bromide, bromo benzene, benzyl chloride, cyclopentyl- and cyclohexyl chloride were unsuccessful. The diphenyl and symmetric diphenyl ethane (18 %) were separated with phervl magnesium bromide and benzyl magnesium chloride respectively. In a polycondensation mainly occurs, which yields the polymers presented in Scheme 2. The yields of the corresponding dialkyl furans in the reaction of 2,9-bis-(chloro-methyl)-furan with lithium alkyls were 19 - 25 %. There are 9 references: 7 Soviet, 1 French, 1 Canadian, 1 British, and

Card 2/3

88481

Studies in the Furan Series. XI. 2,5-Bis-(chloro-methyl)-furan in the Synthesis of Symmetric 2,5-Dialkyl Furans

S/079/61/031/001/013/025 B001/B066

ASSOCIATION:

 $\begin{tabular}{ll} Moskovskiy & gosudarstvennyy & universitet & (Moscow State \\ University) \end{tabular}$ 

SUBMITT.D:

February 22, 1960

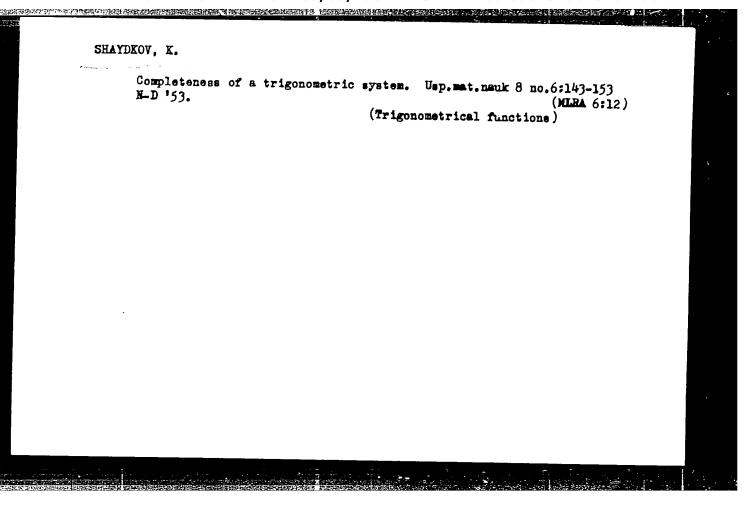
Card 3/3

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NOVITSKIY, K.Yu.; VOLKOV, V.P.; SHAYDEROVA, L.P.; YUR'YEV, Yu.K.

Furan series. Part 18: 2, 5-Bis(N-alkylazomethine)- and 2, 5-bis(N-arylazomethine)-furans. Zhur.ob.khim. 31 no.10: 3277-3281 0 '61. (MTRA 14:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova. (Furan)



SHAYDO,	N.M., inzh.
	Causes of accidents in the "TSentral'naia-Belianka" Mine. Bezop. truda v prom. 3 no.11:12-13 N '59. (MIRA 13:3)
	1. Gosgortekhnadzor USSR. (Lugansk ProvinceMine accidents)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

KURCHENKO, A.P., inzh.; SHAYDO, N.M., inzh.

Check the design of fire flaps for mine shafts. Bezop.truda v prom. 6 no.3:849 Mr 162. (MIRA 15:3)

1. Gosudarstvennyy komitet pri Sovete Ministrov Ukrainskoy SSR po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzhoru.

(Mines fires-Safety measures)

ZASTAVENKO, P.Ya., inzh.; SHAYDO, N.M., inzh.

Coal mining and roof control in steep middle-high coal beds.

Bezop.truda v prom. 6 no.6:25-26 Je '62. (MIRA 15:11)

1. Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru pri Sovete Ministrov UkrSSR.

(Donets Basin—Coal mines and mining)

SHAYLO, N.M., Smah.; US Fidzhanin, F.V., inch.

Reply to the article by V.P. Shohukin "Create a safety zone

around waste disposal dumps. Bezop. truda v prom. 8 no.11: 49-50 N 164. (MIRA 18:2)

1. Gosudarstvennyy komitet pri Sovete Ministrov UkrSSR po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.

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Rapid machine fattening of ducks. Mias.ind. SSSR. 25 no.4:53-54 (MLRA 7:8)  1. Chernyanskiy ptitsekombinat. (DucksFeeding and feeding stuffs)
1. Chernyanskiy ptitsekombinat. (DucksFeeding and feeding stuffs)

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L 35603-65 EWT(d)/EWT(m)/EWP(f)/EPR/T-2/EWA(c) S/0286/65/000/002/0073/0073

AUTHORS: Karnitskiy, V. V.; Minkin, M. L.; Lozar', A. S.; Shaydorov, P. L.; Petrova, S. V.; Goryunov, V. G.

TITLE: Device for starting internal combustion engines at low temperatures.

Class 46, No 167704

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 2, 1965, 73

TOPIC TAGS: ignition system

ABSTRACT: This Author Certificate describes a device for starting an internal combustion engine (example: Y-block diesel). The device has space for an easy-to-ignite starter liquid which is fed to an intake track. A mixer receives the intake emulsion, and a compressed air supply turns the liquid into a spray. The mixer is multichanneled so that the emulsion flows to one or a group of sprayers. This ensures transmission of the emulsion to any or all cylinders of the engine block. The device is shown in Fig. 1 on the Enclosure. Orig. art.

Card 1/32

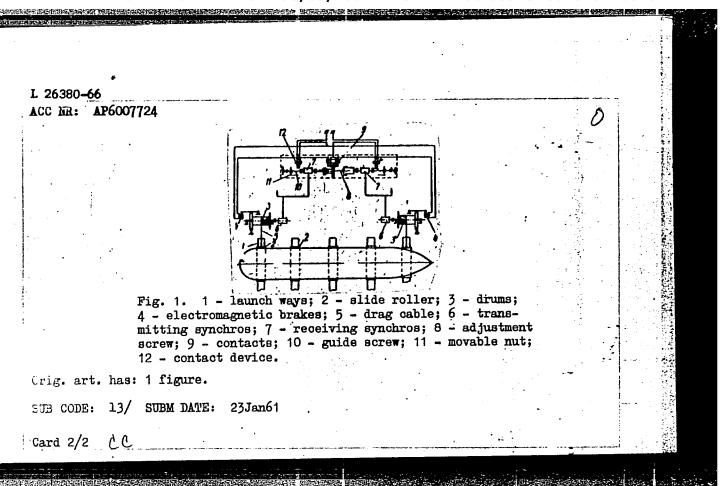
has: 1 figure.

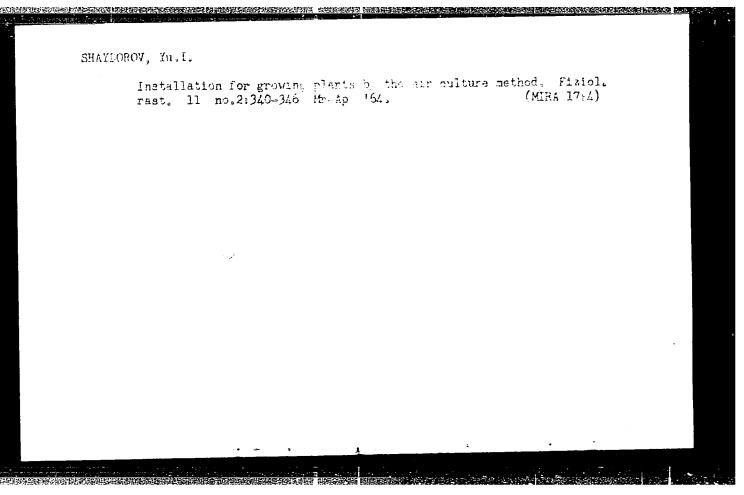
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

L 26380-66 ACC NR: AP6007724 (N) SOURCE CODE: UR/0413/66/000/003/0135/0135 AUTHORS: Vinokur, S. ASh.; Shayderov, V. A. 8 ORG: none TITLE: Device for side launding of ships. Class 65, No. 178702 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 135 TOPIC TAGS: shipbuilding, drydock, marine engineering, ship launching ABSTRACT: This Author Certificate describes a device for 'side launching of ships on launching ways. The ways are equipped with slide rollers arranged so that one cannot drift against another. The launching device facilitates construction on underwater parts of the oraft. It is built in the form of stationary upper ways. By each extremity of the ship there is a drum with an electromagnetic brake. The brake is kinematically linked with the slide roller by a drag cable. The brake, in interacting through a transmitting synchro with an axially shifting adjustment screw (the brake activator), serves to arrest the advance of the ship. For a complete launch, the device features a guide screw equipped with a movable mut which interacts with the contact device (see Fig. 1).  Card 1/2 UDC: 629.128.3.002.28		
ACT NR: AP6007724 (N) SOURCE CODE: UR/0413/66/000/003/0135/0135  AUTHORS: Vinokur, S. ASh.; Shayderov, V. A.  ORG: none  TITLE: Device for side launding of ships. Class 65, No. 178702  SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 135  TOPIC TAGS: shipbuilding, drydock, marine engineering, ship launching  ABSTRACT: This Author Certificate describes a device for 'side launching of ships on launching ways. The ways are equipped with slide rollers arranged so that one cannot drift against another. The launching device facilitates construction on underwater parts of the oraft. It is built in the form of stationary upper ways. By each extremity of the ship there is a drum with an electromagnetic brake. The brake is kinematically linked with the slide roller by a drag cable. The brake, in interacting through a transmitting synchro with an axially shifting adjustment screw (the brake activator), serves to arrest the advance of the ship. For a complete launch, the device features a guide screw equipped with a movable mut which interacts with the contact device (see Fig. 1).	T. Orono co	
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Card 1/2 UDC: 629.128.3.002.28	 ships on launching ways. The ways are equipped with slide rollers arranged so that one cannot drift against another. The launching device facilitates construction on underwater parts of the craft. It is built in the form of stationary upper ways. By each extremity of the ship there is a drum with an electromagnetic brake. The brake is kinematically linked with the slide roller by a drag cable. The brake, in interacting through a transmitting synchro with an axially shifting adjustment screw (the brake activator), serves to arrest the advance of the ship. For a complete launch, the device features a guide screw equipped with a movable	
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SHAYDORGVA, V.V.

Determination of the amino acid composition of the prepupal body of bees of different species by paper chromatography. Nauch. dokl. vys. shkoly; biol. nauki no. 2:85-87 '64. (MIRA 17:5)

1. Rekomendovana Agrobiologicheskoy stantsiyey "Chashnikovo" Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

SAVCHENKO, I., inzh.; GOLTVYANITSA, K. [Holtv"ianytsia, K.], inzh.;
BOGDANOV, M. [Bohdanov, M.], inzh.; SHATDUK, V., inzh.

Use of thermal cutters for working granites. Bud.mat.i konstr.
4 no.6:51-53 N-D 162. (MIRA 15:12)

(Stonecutting—Equipment and supplies)

SHAYDUKCV, G. M.

Cand Phys-Math Sci - (diss) "Solution of systems of differential equations containing partial derivatives of the second-order parabolic and elliptical types by the S. A. Chaplygin method." Kazan', 1961. 9 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Kazan' Order of Labor Red Banner State Univ imeni V. I. Ul'yanov-Lenin); 120 copies; price not given; (KL, 7-61 sup, 221)

5/140/61/000/006/006/007 C111/C444 On the approximative solution of a non-linear problem 11.35 Shaydukov, G. Ii. AUTHOR: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, TITLE: TEXT: In the n-dimensional domain D of the variables  $x_1, \dots, x_n$  and for  $t_0 < t < T$  a continuous function  $u \equiv u(x_1, ..., x_n; t)$  is searched FERIODICAL:  $\sum_{i;j=1}^{n;n} a_{ij} \frac{\partial^2 u}{\partial x_i \partial x_j} = F(x_1, \dots, x_n; t; \frac{\partial u}{\partial t}; \frac{\partial u}{\partial x_1}, \dots, \frac{\partial u}{\partial x_n}), (1)$ which satisfies and the conditions  $u |_{t=t_0} = f(x_1, \dots, x_n), u|_{s} = \phi(x_1, \dots, x_n; t), s$ being the boundary of D. L(u) == In the paper of the author (Ref. 1: Resheniye differentsial'nykh card 1/5

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31917 S/140/61/000/006/006/007 C111/C444

On the approximativ solution . . . C111/C444 ura-vneniy v chastnykh proizvodnykh parabolicheskogo tipa metodom S. A. Chaplygina [The solution of partial differential equations of the parabolic type by the method of S. A. Chaplygin] Tr. Kazansk. s.-kh. in-ta, t. I, vyp. 37,1958) it was shown that this problem can be solved by the Chaplygin method, and an algorithm for the determination of the upper and the lower approximations was given. The upper function  $u_m \equiv u_m(x_1, \dots, x_n; t)$  e. g. satisfies the equation

 $\begin{cases}
L(u_m) = F_u(u_m - u_{m-1}) + F_q \frac{\partial (u_m - u_{m-1})}{\partial t} + \sum_{i=1}^n F_{p_i} \frac{\partial (u_m - u_{m-1})}{\partial x_i} + F, \\
u_{m_i,s} = 0, \quad u_{m_{i,t=t_0}} = 0, \quad m = 1, 2, ...,
\end{cases} \tag{2}$ 

Card 2/5

On the approximative solution . . .

3191? S/140/61/000/006/006/007 C111/C444

where  $F = F(x_1, \dots, x_n; t; u_{m-1}; \frac{\partial u_{m-1}}{\partial t}; \frac{\partial u_{m-1}}{\partial x_1}, \dots, \frac{\partial u_{m-1}}{\partial x_n})$   $F_u = \frac{\partial F}{\partial u}, q = \frac{\partial u}{\partial t}, p_i = \frac{\partial u}{\partial x_i}, i = 1, 2, \dots, n \text{ The initial function}$   $u_0 = u_0(x_1, \dots, x_n; t) \text{ is determined by the solution of the problem}$ 

$$\begin{cases} L(u_0) = F(x_1, ..., x_n; t; 0, ..., 0) + F_u(x_1, ..., x_n; t; 0, ..., 0) u_0 + \\ + F_q(x_1, ..., x_n; t; 0, ..., 0) \frac{\partial u_0}{\partial t} + \sum_{t=1}^n F_{p_t}(x_1, ..., x_n; t; 0, ..., 0) \frac{\partial u_0}{\partial x_t}, \\ u_{0|S} = 0, \quad u_{0,t=t_0} = 0. \end{cases}$$

$$(A)$$

X

Card 3/5

31917 S/140/61/000/006/006/007 C111/C444

On the approximative solution . . . C111/C444

As it is not possible generally to find the strict solution of (2), (2) has to be solved apprimatively. But the error of  $u_m$  influences the determination of  $u_{m+1}$ , etc. Because of this the stability of the equations (2) has to be investigated and the convergence of the solutions of the "perturbed" equations (2) to the strict solution of (1) has to be proved. The present article is dedicated to the investigation of these questions. One supposes that: D is bounded, S is sufficiently smooth,  $a_{ij}$  and F are bounded and continuous, F possesses finite partial derivatives of first and second order with respect to  $u_i$ ,  $v_i$  and  $v_i$ ,  $v_i$  is strictly positive,  $v_i$ ,  $v_i$  and  $v_i$ ,  $v_i$ ,  $v_i$  is positive and bounded with respect to  $v_i$ ,  $v_i$ ,  $v_i$  and  $v_i$ . Under these assumptions it is shown that it is possible to construct in finitely many steps 1 function sequences

$$\left\{ \begin{array}{l} \aleph(i) \\ u \\ m \end{array} \right\}_{m=1}^{\infty} , \qquad i = 1, \ldots, 1-1$$

Card 4/5

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319**27** S/140/61/000/006/006/007 On the approximative solution ,

each of them converges on its interval  $\begin{bmatrix} T_i, & T_{i+1} \end{bmatrix}$   $(T_1 = T)$  to the strict solution. Gut of these l sequences one constructs a sequence which converges on [0, T] to the exact solution of the non-linear

The author mentions  $S_{\circ}$  N. Bernshteyn.

There are 3 Soviet-bloc references.

ASSOCIATION: Kazanskiy sel'skokhozyaystvennyy institut im. M. Gor'kogo

(Kazan' Agricultural Institute im. M. Gor'kiy)

SUBMITTED: December 22, 1959

Card 5/5

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

SHAYDUKOV, K. M.

Dissertation: "The Existence of an Orthonormed Basis in a Class of Polynomials." Cand Phys-Math Sci, Kazan' State U, Kazan', 1954. (Referativnyy Zhurnal-Matematika, Moscow, Aug 54)

SO: SUM 393, 28 Feb 1955

SHAYDULLIN, R.M.; KALUZHSKIKH, A.L.

The use of wooden bearings on mills. TSvet. met. 37 no.10:76-79 0 '64.

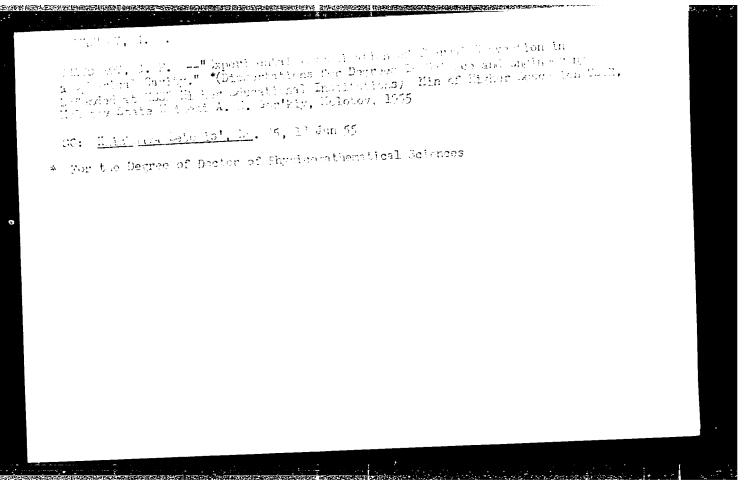
(MIRA 18:7)

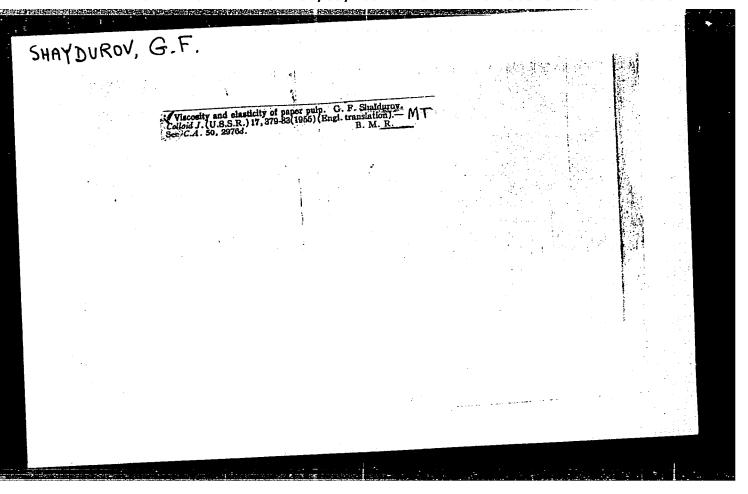
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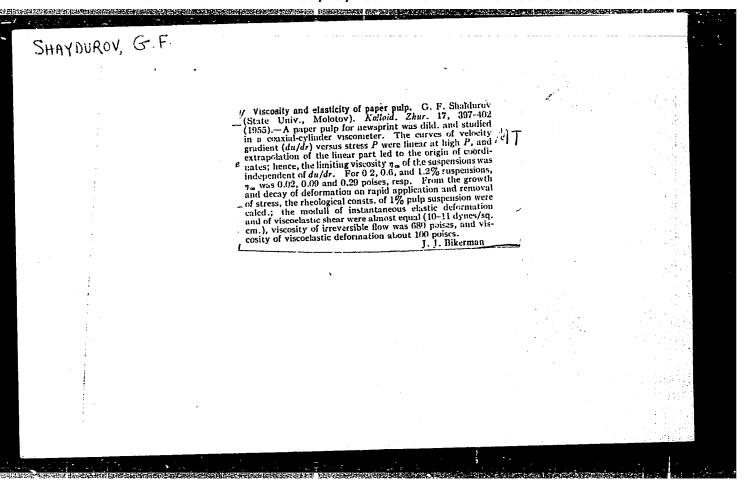
SHAYDUR, M.Ya.

The collective-farm villag of Bogdanovka is changing its appearance. Sil'.but. 9 no.6:3-5 Je '59. (MIR. 18:7)

1. Zaveduyushchir kolkhoza im. Karla Marksa, cele Bogdanovka, Priluts'kiy rayon Chernigiva'kov (Bogdanovka-Farm buildings).







57 - 28 4 29/39

AUTHOR:

Shaydurov G F

TITLE

On the Convective Heat Transfer Through a Spherical Cavity (O konvektivnom teploperenose cherez sharovayu polost)

PERIODICAL:

Zhurnal Tekhnicheskoy Fiziki. 1958 Vol 28, Mr 4, pp.855-861

(masm)

ABSTRACT:

Within the domain of Rayleigh's numbers from 10<sup>4</sup> to 10<sup>6</sup> the author in an experimental way investigated the steady heat convection in a spherical cavity which is enclosed in a heat-conducting massive body. The liquid velocity field in the cavity and the heat flow through the cavity were examined under different conditions of heating. The obtained results are characteristic of the laminar boundary layer. The tests were divided into thermal and hydrodynamic tests. The experiments in the position without convection of the model (heating exactly from above) yielded the possibility of evaluating the errors of the experiment. In the convective positions of the model the following results were attained: ) 2 forms of motion of the liquid exist a) The first form is observed under all conditions of heating (except in the case without

Card 1/3

5? 28 4 29/39

On the Convective Heat Transfer Through a Spherical Cavity

convection): the particles of liquid move in the vertical plane, ascend along the warm wail of the cavity and descend along the cold one, b) The second form is sometimes observed during heating from below: the liquid ascends from below along the opposite walls and descends along the other opposite walls and descends along the other opposite walls. 2) Two cases of the distribution of temperature correspond to the two forms of motion. In the case of the first form applies  $f(0, \Phi) = a_0(0) + a_0(1) \cos \theta + a_0(1) \cos \theta$ 

termined from the experiment of and 0 denote the length and the pole distance in the system of spherical coordinates respectively. In the case of the second form a double periodicity of the temperature with respect to length occurs. In this second case of the type of motion the temperature distribution can be described by expansion with respect to spherical functions of higher order. The equation (2) for the mean Nusselt coefficient Nu is derived, where the positive calce corresponds to the roots of Nusselt's number at the coold wall and the negative one to that at the "warm" wall. It is shown that with formula (2) the mean Nusselt

Card 2/3

57-28-4-29/39

On the Convective Heat-Transfer Through a Spherical Cavity

coefficient for the second form of motion can be calculated, by setting  $a_{1}^{(1)} = 0$ , which causes an error of not more than

0,2 %. Summarizing then author states that in spite of the complicated nature of the convection motion of the liquid in a spherical cavity the approximation for the boundary layer are valid in a number of cases. G. A. Ostroumov, Professor, showed continuous interest for the work. There are 5 figures and 9 references, 4 of which are Soviet.

ASSOCIATION: Permskiy gosudarstvennyy universitet

(Perm! State University)

SUBMITTED3

March 1 1957

Card 3/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

### CIA-RDP86-00513R001548720020-2 "APPROVED FOR RELEASE: 08/09/2001

AUTHOR:

Shaydurov, G.F.

sov/170-59-3-12/20

TITLE:

The Measurement of the Complex Thormal Field of a Wall والعجار فينجد أورا أأريان والتناويرة والمعاف يديمندينه

(Izmereniye slozhnogo termicheskogo polya stenki)

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1959, Nr 3, pp 88 - 91 (USSR)

ABSTRACT:

Thermocouples are most convenient and reliable devices for measuring the temperature of the surface of solid bodies, in particular those which are poor heat conductors. In some cases it is necessary to place the junctions of thermocouples within the body wall lest the motion of a liquid flowing in the body should be perturbed. In order to take properly into account the arising errors, all thermocouples should be placed in thin rectilinear channels in the wall, perpendicular to the surface under investigation in the points of measurements. The temperature of a thermocouple junction installed in this way will differ from the true value of the stationary temperature t of the wall in the measurement point by an amount  $\triangle$  t. As has been established by experiments, the magnitude of this temperature corrections is proportional to the normal component A of the temperature gradient of a nonperturbed stationary thermal field on the surface of a body

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

SHAYDUROV, G.F.

Stability of a convection boundary layer in a liquid filling
a horizontal cylinder. Inzh.-fiz.zhur. mo.12:68-71
b '59.

1. Goeudarstvennyy universitot, Perm'.

(Hydrodynamics)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

28912 S/170/61/004/011/013/020 B108/B138

24,5200

AUTHOR: Shaydurov, G. F.

TITLE: Thermal instability of a liquid in a horizontal cylinder

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 4, no. 11, 1961, 109-113

TEXT: Experiments were carried out with a water-filled cylindrical hollow (9.11 mm wide, 80 mm long) drilled out of a 30 by 30 by 80 mm plexiglass block. The ends were closed with glass. A cooling and a heating copper plate were attached to the long sides of the block, which was placed in such a way that the flow of heat was directed straight upward. Sixteen thermocouples were fixed to block and hollow. The flow was made visible by adding aluminum filings to the water. The temperature gradients in the by adding aluminum filings to the water. The temperature gradients in the fluid were studied optically (Ostroumov G. A., Svobodnaya konvektsiya v usloviyakh vnutrenney zadachi, Gostekhizdat, 1952). The temperature distribution in the wall of the cavity is described by  $T = a_0 + a_1 \cos \phi' + b_1 \sin \phi', \text{ where the Fourier coefficient has the meaning of the temperature average throughout the hollow. } a = \sqrt{a_1^2 + b_1^2} \text{ is the Card } \frac{1}{4}$ 

28912

Thermal instability of a liquid in a ... S/170/61/004/01:/013/020

temperature of the hottest point at the wall counted from temperature a  $_{0}$ .  $\phi^{\dagger}$  is the angular distance from the radius vector normal to the heating plate. The local Musselt number was calculated from the formula

Nu =  $-\frac{\pi R \lambda_1}{2a\lambda} \left(\frac{\partial T_1}{\partial r}\right)$ . It was found to obey a law of the form  $R = R + \frac{1}{2a\lambda} \left(\frac{\partial T_1}{\partial r}\right) = \frac{1}$ 

Nu = Nu cos $\psi$ . R denotes the radius of the hollow.  $(\partial T_1/\partial r)_R$  - the radial temperature gradient outside the hollow,  $\lambda_1/\lambda=1/3$  - the ratio of the mclecular heat conductivities of block and liquid. Nu is the maximum

value of the Nusselt number, the angle from this maximum. The observed circular motion of the liquid agrees with theory. It was found, however, that a three-dimensional "cellullar" flow also occurs, becoming prediminant at Rayleigh numbers of over 4000. The critical Rayleigh number of this "cellullar" motion could not be determined. Docent Ye. M. Zhukhovitskiy is thanked for discussions. There are 2 figures and 8 references: 4 Soviet and 4 non-Soviet. The three references to Englishlanguage publications read as follows: Rayleigh J. W. Phil. Mag., 32, Card 2/4

S/170/61/004/011/013/020
Thermal instability of a liquid in a ... B108/B138

1935; Pellew A., Southwell R. V. Proc. Roy. Soc., A, 176, 312, 1940.

ASSOCIATION: Gosudarstvennyy universitet, g. Perm' (State University, Perm')

SUBMITTED: March 6, 1961

Fig. 1.  $lg\overline{N}u$  (I),  $\phi$  (II), and V (III) versus logarithm of Rayleigh number. Legend:  $Nu = \frac{2}{\pi} Nu$ . V = vR/2 v (v - dynamic viscosity).  $\phi$  in radians. (1) convection, (2) equilibrial motion, heating from underneath, (3) equilibrial motion, heating from above.

Card 3/4

以表现的情况是这种形式的方式是可以使用的一种,不同的的话题,可以可以是是一种的一种的。

S/170/62/005/012/008/008 B104/B186

26.2100

AUTHOR:

Shaydurov, G. F.

TITLE:

Measuring the temperature of a wall

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 12, 1962, 86 - 90

TEXT: When measuring the surface temperature of a solid it is frequently necessary to insert the thermocouple through the solid untill it reaches the surface. The heat flow in the thermocouple leads may be a source of errors which can be corrected by calculating the correction factor  $t_0 = kA_0$  (G. F. Shaydurov, IFZh, no. 3, 1959). The experimental determination of k is sometimes difficult. The error was estimated by measuring the temperature distribution in a 210·160·32-mm paraffin block by means of eight differential thermocouples with leads of C.05 mm diam. This block was heated along its short axis by a metal rod indeeded in the block. The rod was heated on its free end. The results obtained furnish the empirical solution  $(\partial t_1/\partial r)_R = -ct/nR$ . n is 1/2 when the heat is exchanged between the surface studied and a gas; it is 1/4 for

Card 1/2

S/170/62/005/012/008/008 B104/B186

Measuring the temperature of a wall

heat exchange with a slightly viscous liquid. If the temperature of the rod depends only on its longitudinal coordinate x, if the end of the rod and the surface of the solid are in contact with a liquid, and if convective heat transfer exists, then the following relation holds:

 $t_0 = \frac{1-\delta}{Bi + mR}$  AR where R is the radius of the rod, Bi the Biot number,  $\delta = Bi/Bi$ . Hence the sign of the temperature correction is determined

by those of 1- $\delta$  and of A. This relation is discussed for several special cases (Bi-Bi<sub>1</sub>, Bi $\ll$ mR, Bi $\gg$ mR).

 $t_0 \approx \frac{\lambda' - 1}{m\lambda'}$  A holds for a gaseous medium. Since the leads of thermocouples are of metal  $(\lambda' \gg 1)$ ,  $t_0 \approx \frac{A}{m} = AR \sqrt{n\lambda'/2c}$  is of special tinterest. There are 2 figures.

ASSOCIATION: Gosudarstvennyy universitet imeni A. M. Gor'kogo, g. Perm'

(State University imeni A. M. Gor'kiy, Perm')

SUBMITTED: July 2, 1962

Card 2/2

ACCESSION NR: AP5005757	8/0170/65/008/001/0003/0006 33	
AUTHOR: Khlebutin, G. N.; Shaydurov, G. F.	32 B	
TITLE: Thermal convection in a vertical annul	ar tube	
SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 8,	no. 1, 1965, 3-6	
TOPIC TAGS: heat convection, heat exchange, of	onvective flow, Nusselt number,	
ABSTRACT: The authors consider convective lice heated from below. Such tubes are frequently are therefore of appreciable interest. Two ments celluloid and filled with distilled freshly between the way were heated from below with a coil fed	odels were tested, made of glass or oiled water or gasoline (B=70). The from a stabilized source, and cooled	
from above with a thermostatically controlled visual and photographic investigations have s exactly at the bottom of the tube, two types separately or simultaneously: circular motion mined by random factors, and cellular motion,	of liquid motion can exist either	

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

L 41775-65

ACCESSION NR: AP5005757

of the heated area to the right and to the left in unequal streams. The ratio of cellular to circular motion varies with the angle at which the heater is placed. The experiments have also shown that the temperatures of the left and right sides of the annular tube are approximately constant. Assuming constant temperature and essentially circular motion of the liquid, expressions are obtained for the velocity profile, the mass flow rate of the liquid, and for the heat flux. The Nusselt ty profile, the mass flow rate of the liquid, and for the heat flux. The Nusselt ty profile, the mass flow rate of the Rayleigh number (Nu = 0.125 Ra), in number is found to be proportional to the Rayleigh number (Nu = 0.125 Ra), in agreement with other experiments made at Ra < 16,000. Orig. art. has: 2 figures, 3 formulas, and 1 table.

ASSOCIATION: Gosudarstvennyy universitet im. A. M. Gor'kogo, Perm' (Perm' State

University)

SUBMITTED: 04May64

ENCL: 00

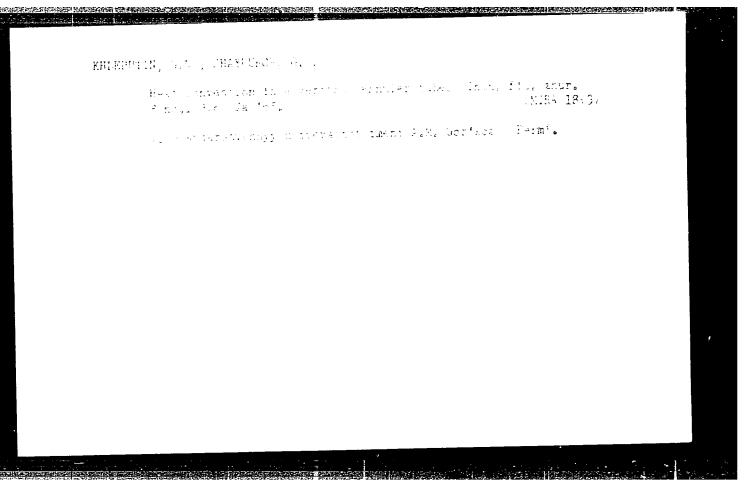
SUB CODE: TD, ME

NR REF SOV: 002

OTHER: 000

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Card 2/2



L 44114-66 EWT(1) DJ ACC Nr: AP6028323

SOURCE CODE: UR/0040/66/030/004/0699/0704

AUTHOR: Gershuni

Gershuni, G. Z.; Zhukhovitskiy, Ye. M.; Shaydurov, G. F.

B

ORG:

None

TITLE: The Convective Instability of a Fluid in Connected Vertical Channels

SOURCE:

Prikladnaya matematika i mekhanika. v. 30, no. 4, 1966, 699-

704

TOPIC TAGS: Heat convection, fluid thermal Instability

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ABSTRACT: An exact solution is presented of the problem of thermal instability of a fluid in two vertical parallel plane channels separated by a solid mass. Critical values were found for the Rayleigh number determining the stability limit, and its dependence on the thermal conductivity of the fluid and the mass and the distance between the channels. Orig. article has: 4 figures and 24 formulas. (AV)

SUB CODE: 20/ SUBM DATE: 08Jan66/ ORIG. REF: 008/ OTH REF: 003

Card 1/1 egh

ACC NRI AP7003259 (N) SOURCE CODE: UR/0207/66/000/006/0103/0104	
AUTHOR: Sorokin, M. P. (Perm'); Khlebutin, G. N. (Perm'); Shaydurov, G. F. (Perm')	
ORG: none	
TITLE: Stability of fluid flow between two rotating spherical surfaces	
SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 6, 1966, 103-104	
TOPIC TAGS: fluid flow, flow stability, boundary layer flow	
ABSTRACT: In 1961 it was found that the flow of liquid between two concentric spheres, the inner one in motion and the external one fixed, becomes unstable at the sphere	· 
radius ratio $r_2/r_1 = 2$ with a Reynolds number of about 100 (R = $r_1^2$ $\omega/v$ , where $\omega$ is	
the angular velocity of the rotating sphere and v is kinematic viscosity of the liquid). The solution was sought in powers of the Reynolds number; since the applicability of this method when R is approximately 100 is not obvious, an experiment was set up to test the theory. A special device was constructed with an inner sphere of steel, an external sphere of organic glass, and water or commercially pure glycerine as the fluid. Very precise measurements are possible. Observations showed that there was no qualitative difference in fluid flow at all Reynolds numbers studied from the flow previously found in the second approximation. Considerably less intense motion in the meridian plane is imposed on the circular horizontal motion, i.e., on	
Card 1/2	/
	4

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ACC NR: AP7003259

the inner sphere the fluid flows from the poles to the equator, and in the other direction on the outer sphere. At high values of w the colored fluid envelopes the surfaces of both spheres in a thin layer; formation of a boundary layer may be assumed. The experiments disclosed no phenomena indicating impaired stability of liquid flow. In the Reynolds number range where impaired stability was expected according to Yu. K. Bratukhin (PMM, vol.25, No. 1, 1961) there is smooth, noncritical transition from the patterns characteristic of slow flows to those of the boundary layer. The results obtained may be of value for viscosimetry. Orig. art. has: 2 formulas and 2 figures.

SUB CODE: 20/ SUBM DATE: 06Aug65/ ORIG REF: 005/ OTH REF: 002

Card 2/2

16.1500

s/044/62/000/003/068/092 C111/C444

AUTHOR:

Shaydurov, G. S.

TITLE:

The treatment of observations which have been made on a

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 3, 1962, 46,

abstract 3V231. ("Uch. zap. Permsk. un-t", 1961, 19, no. 3,

One proposes a scheme of the solution of the linear sige-TEXT:

braic equation system

$$\sum_{k=1}^{z} (t_k - f_k) \frac{2^{f_k}}{3^{a_{nm}}} = 0 \ (m = 0, 1, ..., n)$$

$$\sum_{k=1}^{z} (t_k - f_k) \frac{\partial f_k}{\partial b_{nm}} = 0 \ (m = 1, 2, ..., n).$$

The determination of the coefficients of the series expansion in terms of spherical harmonics of the quantity which is to be measured, in the Card 1/2

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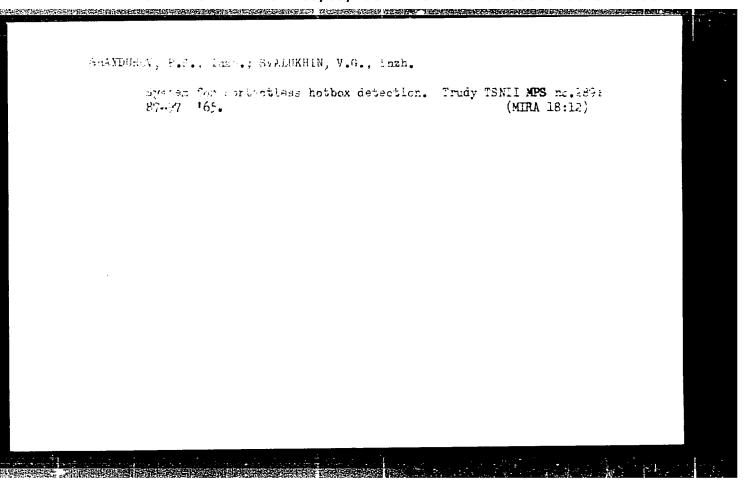
S/044/62/000/003/068/092 C111/C444

mathematical treatment of observations made on a sphere, leads to such a system. It is pointed out, that it be advantageous to choose the observation points in the intersection points of equidistant (in the sense of the angular distances) parallels and meridians, where the number of the observation points on every parallel and on every meridian has to be a multiple of two or four; such a choice of the observation points permits to simplify the equation system and to shorten the calculation. It one of the possible variants of the distribution of the observation points one gives a table for the determination of the coefficients of the series expansion up to the third order inclusively.

[Asstracter's note: Complete translation.]

The treatment of observations which ...

Card 2/2



L 6918-65 EWT(1)/T/EWP(k) Pf-4/P1-4 SSD/AEDC(a)/AFETR/AFWL/ASD(a)-5/

ACCESSION NR: AR4039932

S/0058/64/000/004/H058/H058

SOURCE: Ref. zh. Fiz., Abs. 4Zh398

59

AUTHORS: Shaydurov, V. I.; Andronova, S. I.

TITLE: Influence of electric field on the propagation speed of ultrasound waves in solutions

CITED SOURCE: Tr. Vost.-Sib. tekhnol. in-ta, vy\*p. 1, 1962, 11-18

TOPIC TAGS: ultrasonic wave propagation, electric field, sodium chloride, electrolyte, diffraction grating

TRANSLATION: The effect of longitudinal and transverse electric field (relative to the ultrasound propagation direction) on the velocity of ultrasound in a solution of NaCl electrolyte was investigated at different concentrations. The investigation was by the method of light diffraction by an ultrasonic grating. The procedure

Card 1/2

3

L 6918-65 ACCESSION NR: AR403	9932	ħ	
of an electric field electric field on th observed. Nor was t	phing the diffraction pattern and in its presence. The efficient country in the the effect observed on increas	fect of a weak solution was not ing the concentra-	
tion of the solution	. The results obtained are p	reliminary. The	
experiments will be	continued with stronger field		
experiments will be	SUB CODE: GP	ENCL: 00	4
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experiments will be			

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

Dissertation: "Nethods of Improving the Yield of Alfalfa Seeds Under Trans-Volga Conditions." Cand Blol Sci, Inst of Plant Physiology imeni K. A. Timiryazev, Acad Sci USSR, Moscow, Oct-Dec 53. (Vestnik Akademii Nauk, Moscow, Jun 54)

So: SUM 318, 23 Dec 1954

L 25787-66 EWT(1) SCTB DD	NIDGE GODE: UD /003 / // 1/000 /00	2 /0200 /0202
ACC NR: AP6015917 SC	OURCE CODE: UR/0216/65/000/00	
AUTHOR: Shavdurov. V. SShaidurov, V. S.		26 8
ORG: Institute of Plant Physiology im. K. A.	. Timiryazev, AN SSSR (Institu	t fiziologii
rasteniy AN SSSR)	·	
TITLE: Intensity of photosynthesis as a fund	tion of temperature differenc	es
SOURCE: AN SSSR. Izvestiya. Seriya biologi	cheskaya, no. 3, 1965, 388-39	1 : : [ #]
TOPIC TAGS: photosynthesis, plant physiology		
, and the second		
ABSTRACT: The author's methods for measuring		
transpiration and temperature were described		n.
the experiments described, leaf temperature wasurface, while the temperature of the surroun		
below the under-surface of the leaf. The tes		
day with uniform radiation. The size of the	temperature difference affect	
the intensity of photosynthesis. The smaller		
difference, the greater the intensity of phot		<b>e</b>
for the intensity of photosynthesis (21.9 mg observed at the smallest temperature differen	co2 per sq dam per modr) was	
ence was observed with wheat and barley. Exp	eriments with rve showed that	
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. 25787–66 ACC NR: AP6015917			' '
ACC INI MIOOTOTI			$D \mid .$
the pattern was retaine	ed even in the 5-9 <sup>0</sup> C range. In subsequent exper	imen ts	
it was shown that inten	sity of photosynthesis also depended on the diff	ferenc <b>e</b>	
in temperature between	the upper and lower surfaces of the leaf: the	£, ÷	
greater the temperature	e difference, the greater the intensity of photo-	•	
synthesis. This result	t was confirmed even at an altitude of 3,860-4,70	00 1	
	The author concludes that the effect of temper		
on photosynthesis consi	ists of three factors: leaf temperature, the di	rrer- "!	2.0
ence in temperature bet	tween the leaf and the surrounding air, and the	•	
difference in temperatu	ure between the upper and lower sides of the leaf	K•	7 %
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

SHAKHOV, A.A.; MISHUSTINA, N.Ye.; SHAYDUROV, V.S.

Diurnal dynamics of pigments in plants of polar regions. Izv.
AN SSSR. Ser.biol. no.2:279-286 Mr-Ap '60. (MIRA 13:6)

1. Institute of Plant Physiology, Academy of Sciences of the U.S.S.R., Moscow.

(ARCTIC REGIONS--PLANTS, EFFECT OF LIGHT ON)
(COLOR OF PLANTS)

\$/169/62/000/003/030/098 D228/D301

3.5150

Shayaurov, V. S.

KI KING PENGGARAI PERSAMPANAN MENANDAN MENANDAN KING PENGGARAI PEN

TIPLE:

Radiation and photosynthesis in Zapolyar'ye

PERIODICAL: Referativnyy shurnal, Geofizika, no. 3, 1962, 65, abstract 3B457 (V sb. Aktinometriya i atmosfern. optika, . L., Gidrometeoizdat, 1961, 22-24)

/ Abstracter's note: Complete translation. 7

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### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548720020-2

\$/196/62/000/008/008/017 E032/E514

27 1110

Shaydurov, V.S.

AUTHOR: TITLE:

On radiation and photosynthesis in polar regions

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.8, 1962, 1, abstract 8V3. (Sb. "Aktinometriya i atmosfern. optika". L., Gidrometeoizdat, 1961,

22-24)

TEXT: Reports results of studies of the growth and development of plants under polar conditions. At low air temperatures the leaves of plants absorb more solar energy than at normal temperatures. At low light intensity (in the evening, at low positions of the sun) the plants utilise solar energy more efficiently than during daytime. A large fraction of the absorbed radiant energy is lost in transpiration (95 to 99%).

ASSOCIATION: In-t fiziologii rasteniy, Moskva (Institute of Plant Physiology, Moscow)

[Abstractor's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

SHAYDUROV, V.S.

Dependence of the intensity of photosynthesis on the gradient of temperature between leaves and the surrounding air. Zhur. ob. biol. 23 no.2:148-150 Mr-Ap 162. (MIRA 15:5)

1. Institute of Plant Physiology, U.S.S.R., Academy of Sciences. (PHCTOSYNTHESIS)

SHAYDUROV, V.S.

Decomposition of cellulose in peat soils brought under cultivation. Pochvovedenie no.12:79-82 D '62. (MIRA 16:2)

l. Institut fiziologii rasteniy imeni Timiryazeva. ( $^{\rm P}_{\rm eat}$  soils) (Cellulose)

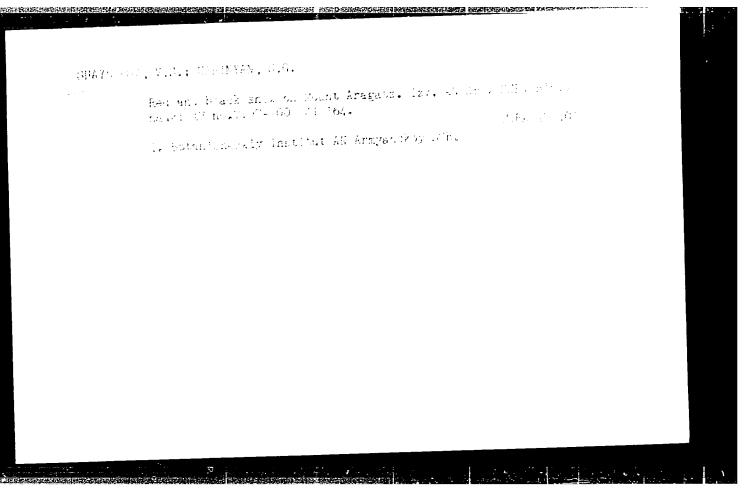
FEDOROVA, L.L.; SHAYDUROV, V.S.; STANKO, S.A.

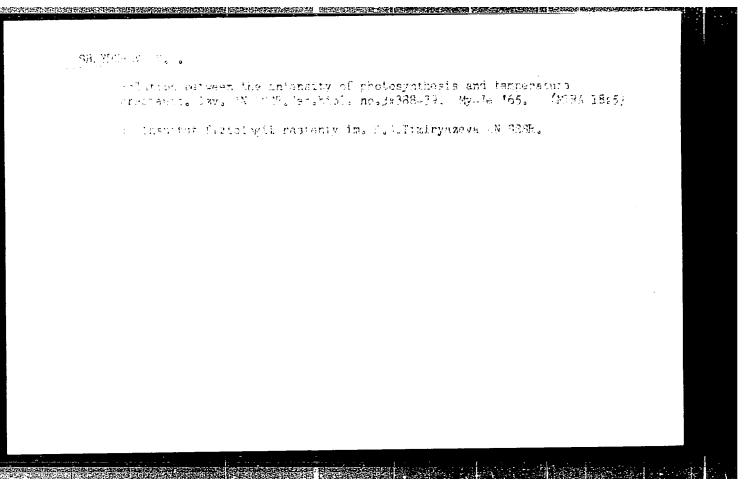
Efficiency of the action of a herbicide mixture in forage cabbage plantations. Fiziol. rast. 9 no.6:735-737 '62. (MIRA 15:12)

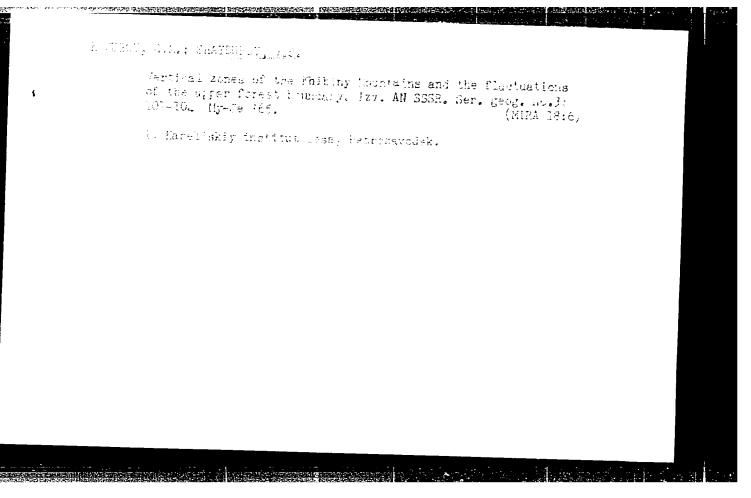
1. Polar Experimental Station of All-Union Institute of Plant Growing, Whibiny and K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Murmansk Province—Cabbage)

(Herbicides)







SYCHEVSKAYA, V.I.; SHAYLUROV, V.S.

Body temperature in some symanthropic flies in the Eastern Pamirs. Zool. zhur. 44 no.5:779-783 '65. (MIRA 18:6)

。 "我们是我们的,我们就是我们就是我们的,我们就是我们就是我们的,我们们就是我们的,我们也就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是

> 1. Uzbekskiy institut meditsinskoy parazitologii i gel'mintologii, Samarkand i Institut fiziologii rasteniy AN SSSR, Moskva.

SHAKHOV, A.A.; SHAYDUROV, V.S.

Energetics of photosynthesis in plants during the polar day. Zhur.

(MIRA 13:4)

ob.biol. 20 no.6:418-427 N-D '59.

1. Institute of Plant Physiology, Academy of Sciences of the

U.S.S.R., Moscow.

(ARCTIC REGIONS--PHOTOSYNTHESIS)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

L 1 4296-66 EWT(1)/FS(v)-3 SCTB DD/RD

ACC NR: AT6003882

SOURCE CODE: UR/2865/65/004/000/0474/0486

AUTHOR: Shakhov, A. A.; Shishchenko, S.V.; Stanko, S. A.; Shaydurov, V. S.; Golubkova, B. M.

ORG: none

2,44

TITIE: Ultraviolet irradiation of plants as a problem of space phytophysiology

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 474-486

TOPIC TAGS: plant physiology, UV irradiation, photosynthesis, space biologic experiment, plant growth, radiation plant effect

ABSTRACT: The purpose of this review article, which includes results of many experiments, is to explore some aspects of the influence of ultraviolet radiation on photosynthesis, and to emphasize this area of investigation in space biology. In the first group of experiments described, plants grown under conditions of normal polar illumination were irradiated additionally with ultraviolet and infrared light, in most cases simultaneously. Ultraviolet irradiance ranged from 10—30 µw/cm². Electron microscopy of

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L 14296-66

ACC NR: AT6003882

chloroplasts separated from these plants showed that shortwave UV-irradiation changes the submicroscopic structure of chloroplasts. But, owing to the photoreactivation capacity of plants, some recovery from injuries occurs. Thus chloroplasts of some plants are fairly resistant to artificial UV-irradiation during the polar day.

A second series of experiments was conducted at an altitude of 3200 m, where the level of natural ultraviolet radiation is higher than at sea level. When radishes were subjected to additional artificial UV-irradiation daily for 10 minutes (irradiance of 1700 erg/cm²), changes in chloroplast structure and pigment content were observed. Changes in the pigment content, determined by paper chromatography and spectrophotometry, depend on the ultraviolet wavelength, the duration of irradiation, stage of development of the plant, etc.

More study of the complex effects of UV-irradiation on plants is urgently needed. Preliminary studies by the authors showed that in chloroplasts of cabbage, beet, bean, turnip, and pea leaves, pigment content increased during short-term UV-irradiation, and decreased when the

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exposure was longer. Studies conducted at high altitude laboratories have established that when natural ultraviolet irradiance is high, absorption by leaves of radiant energy from ultraviolet and infrared rays increases. These data indicate that plants growing in extreme conditions (such as space-flight) use radiant energy in a wider spectral band for their vital activity. It has been observed that photosynthesis in wild alpine plants proceeds at normal levels or higher. This is one of the reasons to suspect that with sufficiently intense, around-the-clock illumination, plants in spaceflight conditions may not require protection from the entire ultraviolet spectrum.

Further research must be conducted on the use of parts of the ultraviolet spectrum to increase the resistance of plants to other cosmic radiation factors. Orig. art. has: 7 tables. [ATD PRESS: 4091-F]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 018 / OTH REF: 004

90

Card 3/3

PULNUS TOTA DES PLANTACIONES SELECTORISTES DE PRESTA DE

EWT(m)/EWP(j)/T IJP(c) WW/RM L 44578-66 AP6015660 (A) SOURCE CODE: UR/0413/66/000/009/0073/0073 INVENTOR: Frunze, N. K.; Berlin, A. A.; Braynes, M. Ya.; Shaydurova, N. ORG: none TITLE: Method of obtaining compositions suitable for photopolymerization. Class 39, No. 181280 15 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 73 TOPIC TAGS: photopolymerization, copolymer, polymerization initiator, photosensitivity, oligoether ABSTRACT: An Author Certificate has been issued for a method of obtaining compositions suitable for photopolymerization using the acrylic copolymer series, an oligorhythmic compound, a polymerization initiator, and a sensitizer. To expand the variety of photosensitive compositions, a butylmethacrylate copolymer with methacrylamide is used as the copolymer, and an oligoether such as dimethacrylate-UDC: 771. 531. 678. 744. 32-134. 548. 3:66. 095. 265 Card 1/2

ACC NR: AP6015660 bis-diethyleneglycolphthalate is suggested as the olygorhythmic compound. [NT] SUB CODE: 11/ SUBM DATE: 21Oct63/	运用的现在分词 100 mm		
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SHAYDYUK, V.K., inzhener.

Alterations in the properties of plugging cement as a result of storage time. TSement 17 no.4:22 J1-Ag '51. (MLRA 9:8)

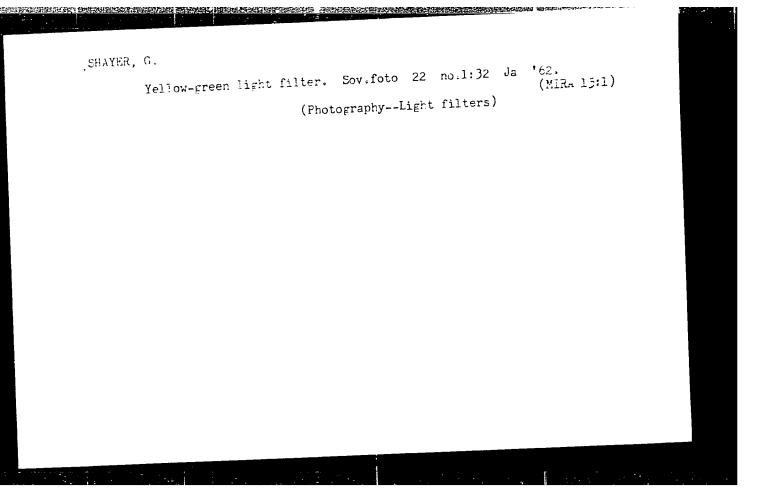
1. TSementnyy ravod imeni Stalina. (Cement--Storage)

KHODOROV, Ye.I., kandidat tekhnicheskikh nauk; KRASHENINNIKOV, N.N., inzhener; SHAYDYUK, V.K., inzhener.

Heat exchanger for high-temperature zones of rotary kilns.

TSement 20 no.3:6-9 My-Je \*54. (MIRA 7:7)

(Kilns, Rotary) (Heat exchangers)



# Practical princples of color microphotography. Arkh.anat.gist. i embr. 32 no.1:68-74 Ja-Mr '55. (MLRA 8:9) 1. Iz Ukrainskogo eksperimental'nogo instituta glaznykh bolezney im. akad. V.P. Filatory (direktor Geroy Sotsialisticheskogo Truda akad. V.P. Filatory) (MICROSCOPY, color microphotography) (PHOTOMICROGRAPHY, color microphotography)

USSR/Human and Animal Morphology - Normal and Pathological.

S

Organs of the Senses.

Abs Jour : Ref Zhur Biol., No 23, 1959, 106017

Artior : Shayer, Ye.G.

I.st :

Title : Photography of the Fundus Oculi

Orig Pub : Oftalmol. zh., 1956, No 4, 247-253

Abstract : The camera of Nordenson reconstructed by the author,

and its application for black-and-white, color and steresscopic photography of the fundus oculi by the use of the cinematographic bulb as the source of light, and employment of availabel domestic photographic material, is described. A successful experiment of photography of the fundus oculi without any special camera by means of the Gullstrand ophtalmoscope on the ocular of which a small size reflex camera is attached ("Zenith", "Practiflex", "Exacta") is reported. In the author's opinion

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USSR/Human and Animal Morphology - Normal and Pathological.

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Abs Jour : Ref Zhur Biol., No 23, 1953, 106017

it is necessary to construct a special apparatus which can be used simultaneously for inspection and photogra-

phy of the fundus oculi. -- I.S. Gil'bo

SHAYER, Ye.G.

Use of flash bulbs in photgraphing the anterior portion of the eye.

Oft.zhur. 13 no.4:244-251 158 (MIRA 11:8)

1. Iz Ukrainskogo nauchno-issledovateliskogo eksperimentalinogo instituta glaznykh bolezney i tkanevor terapii im. akad. V.P. Filatova (direktor - prof. N.A. Puchkovskaya).

(EYE--EXAMINATION)

(PHOTOGRAPHY, MEDICAL)

SHAYER, Ye.G..

Use of pulse lamps for certain types of medical and anthropological photography. Usp.nauch.fot. 6:1930199 '59. (MIRA 13:6)

(Photography-Scientific applications)

(Electric discharge lighting)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

23(0) 17(7)

SOV/77-4-2-13/18

AUTHOR

Shayer, Ye.G.

TITLE

Reviews (Obzory) The Use of Contemporary Photographic Techniques in Ophthalmology (Primeneniye sovremennoy

fotograficheskoy tekhniki v oftalmologii)

PERIODICAL:

Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol 4, Nr 2, pp 140-143 (USBR)

ABSIRLICE:

The author reviews briefly the Soviet and non-Soviet literature available on the use of photography in ophthalmology. He divides the review into four main groups: 1) reproduction of a visual picture of diseases of different parts of the eye for documenting the negative of the eye for documenting the results of treatment or observing the dynamics of the pathological process. This group includes photography of the frontal section of the eye, which can be done by special equipment such as the Zeiss eye microscope used for examination and photographic purposes

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Meviews: The Use of Contemporary Photographic Techniques in

[Ref. 1]; electronic pulse lamps and Contax, Leica, Exakta or Robot miniature cameras are normally used with it. For small enlargements filament bulbs [2,3], flash bulbs [4] and especially electronic pulse lamps are used for illumination. A special device including a Zenit camera and an IFK-120 pulse lamp designed in the Ukrainskiy nauchno-issledovatel skiy institut glaznykh bolezney i tkanevoy terapil im. akad. V.P. Filatova (Ukrainian Scientific Research Institute for Eye Disease and Fissue Therapy imeni Academician V.P. Filatov) makes it possible to photograph the eye using beams of light of various width, on the principle of a slot lamp; the photograph: it produces have great detail. The FA-5 xenon are lamp is used in the USA for similar purposes. Photographing the corner of the frontal chamber of the eye is accomplished with a

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SOV/77-4-2-13/18

Reviews; The Use of Jontemporary Thotographic Techniques in Ophthalmology

gonicecope, a miniature camera and a slot lamp. Luminescent analysis, the keratographic method, and stereophotography of the eye are then discussed. Turning to photography of the fundus couli, the author says the most widely used camera for this purpose is the Mordenson from the firm of Zeiss which has an optical and illuminating system making it possible to illuminate the fundus oculi evenly through the peripheral part of the dilated pupil of the patient's eye, while an image of the parts being photographed is obtained through the central part of the pupil. Many authors have suggested alternative forms of illumination for this camera including a cineprojection lamp, an arc lamp with zirconium electrodes, an FA-5 xenon arc lamp, and an electronic pulse lamp. The author finally mentions a few non-Soviet cameras designed for photographing the fundus oculi including

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Reviews; The Use of Jontemporary Photographic Techniques in Ophthalmology

models developed at the VEB Karl Zeiss works in Jena (GDR) and a portable camera from Japan; 2) this group deals with the use of photographs of the eye to measure certain values otherwise difficult to make on the living eye due to its great mobility. The most fruitful method of studying the optical system of the eye is photophthalmometry, developed by Soviet scientist Professor A.I. Dashevskiy; it consists in directing a narrow beam of lightonto the patient's eye, whereby the optical system of the eye becomes visitle, as the cornea and the crystalline lens disperse a certain part of the light passing through them. When this method is perfected it can be used to study keratoconus. The stereophotogrammetric method has also been used to measure the size of the exophthalm, to determine the curvature of the eye ball wher selecting contact lenses

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SOV/77-4-2-13/18

Reviews; The Use of Contemporary Photographic Techniques in Ophthalmology

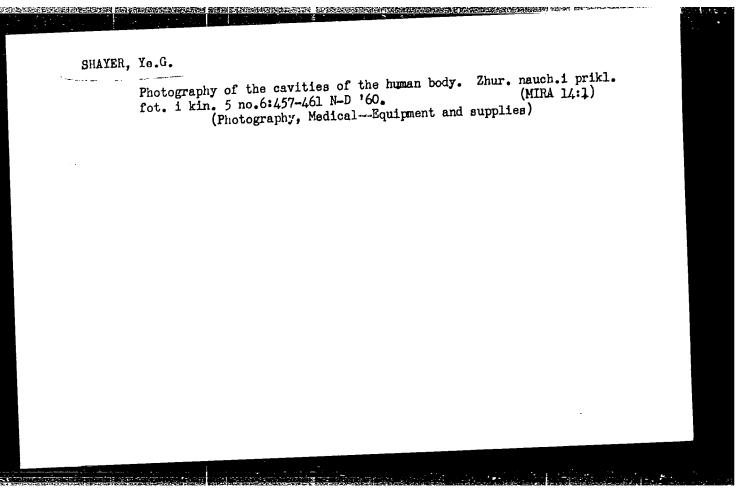
> and the convexity of the nipple of the optic nerve on the fundus oculi. Photography is also used to measure and examine the pupil and the angle of squints. 3) this group includes the use of infra-red photography to examine parts of the eye otherwise invisible; 4) this group includes the use of photography in the preparation of medical handbooks (for illustrative purposes). In the author's opinion the review shows that photography are the contraction of medical handbooks. graphy can be used in ophthalmology to great advantages. There are 14 photographs and 70 references, 23 of which are Soviet, 8 American, 1 Australian, 4 English, 10 English-language, 21 German and 3 French.

AUSOCIATION: Odessa, Institut glaznykh bolezney, im. akad. V.P. Filatova (Odessa, Institute of Eye Diseases imeni

Academician V.P. Filatov)

Card 5/5

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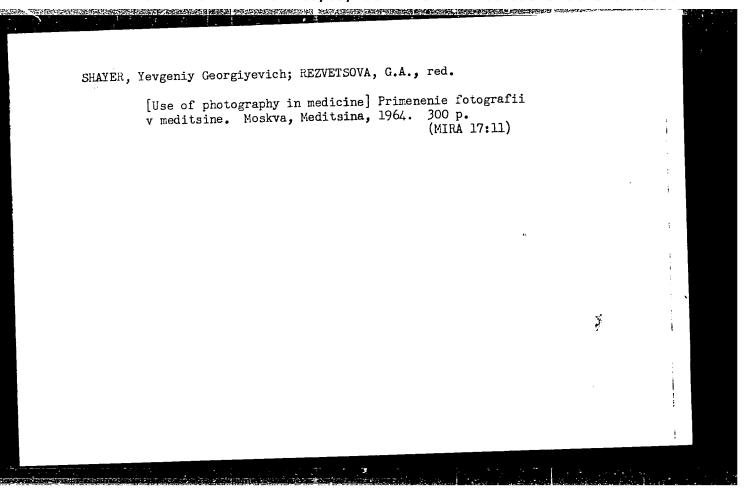
Photographing Purkinje images. Oft. zhur. 15 no.3:171-175 '60.

(MIRA 14:5)

1. Iz Ukrainskogo nauchno-issledovatel skogo eksperimental nogo instituta glaznykh bolezney i tkanevoy terapii imeni akademika V.P.Filatova (direktor - prof. N.A.Puchkovskaya).

(PHOTOGRAPHY, MEDICAL)

(EYE, INSTRUMENTS AND APPARATUS FOR)



NESTURKH, M.F., GLADKOVA, T.D., PORSHNEV, B.F., SHAYER, Ye.G., NIKITYUK, B.A., PAVLOV, B.K., DMITRIYEV, Ye.A., LINKOVSKIY, Zh.B., PLOKHINSKIY, N.A., LAVEOVA, L.G., BORISOV, G.V.

Brief news. Biul. MOIP. Otd. bicl. 70 no.3;127-140 My=Je 165. (MIRA 18:10)

SHAYCHMAN, A. YU, and BILIK, SH. M.

Nekotorye tekhnologicheskie parametry proteessa zhidkostnoi polirovki. (Vestn. Mash., 1949, no. 6, p. 54-56)

Some technological processes of liquid polishing.

DLC: TN4, V4.

SC: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548720020-2"

KIKIS, A.A., inzh.; SHAYERMAN, Yu., zasluzhennyy deyatel' nauki i tekhniki, doktor tekhn. nauk, prof.

Idghtweight cailings (letter to the editor). Biul. tekh. inform.
(NIRA 11:8)
4 no.8:29 Ag '58.
(Geilings) (Idghtweight concrete)

SHAYETUN, D. I.

USSR/Engineering - Machine tools

Card 1/1 Pub. 103 - 18/29

Authors : Glagolev, N. A., and Shaetun, S. I.

Title : A device for grinding conical surfaces

Periodical: Stan. i instr. 10, 32-33, Oct 1954

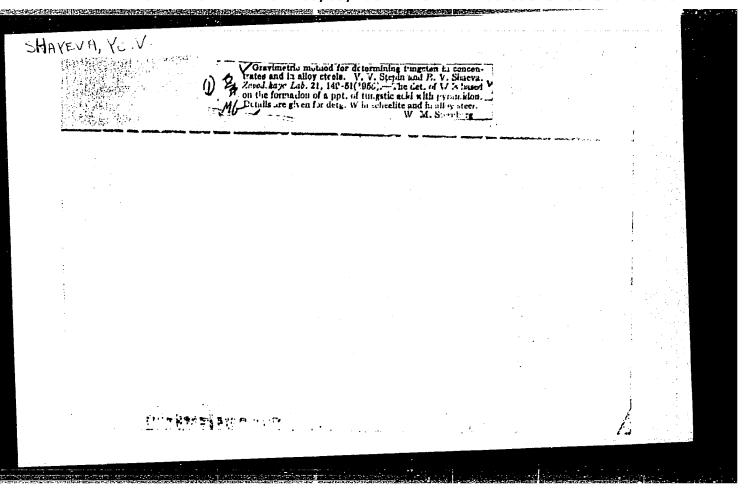
Abstract : A description is presented of a device equipped with an electric motor for

grinding conical surfaces. Drawings depicting the disposition of components

of the above mentioned device are given.

Institution : ...

Submitted : ...



SHAYEVSKIY, Yu.t., YUFEFOV, Yu.K.

Present status of the development of the Shkapovo oil field.
Geol. nefti i gaza 7 no.10;14-21 0 '63. (MIRA 17:10)

1. Neftepromyslovoye upravleniye Aksakovneft'.

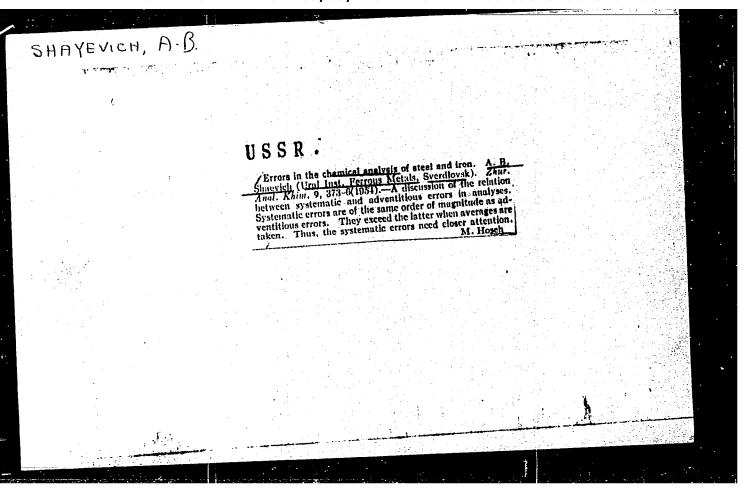
SHAYEVICH, A., inzh.

Reducing exhaust detonation of the ZIL-158 motorbus. Avt. transp. 37 no.2:25 F '59. (MIRA 13:1)

1. Moskovskiy avtozavod im. Likhacheva. (Automobile exhaust gas)

SHAYEVICH, A.; ZUBAREV, A.; KARAVAYEV, B.

Engine-cooling system of the ZIL-130 motortruck. Avt. transp.
(MIRA 16:10)



SHAYEVICH, 17 15

JSSR/Chemistry - Spectral analysis

Card 1/1

Pub. 43 - 40/97

rajilga griberitas, 🖊 Lorigi Tukuppo Lilikido. 🛊 1

Authors

: Shaevich, A. B.

Title

: About the methodology in studying the standards for spectral analysis

Periodical : Izv. AN SSSR. Ser. fiz. 18/2, 268-269, Mar-Apr 1954

Abstract

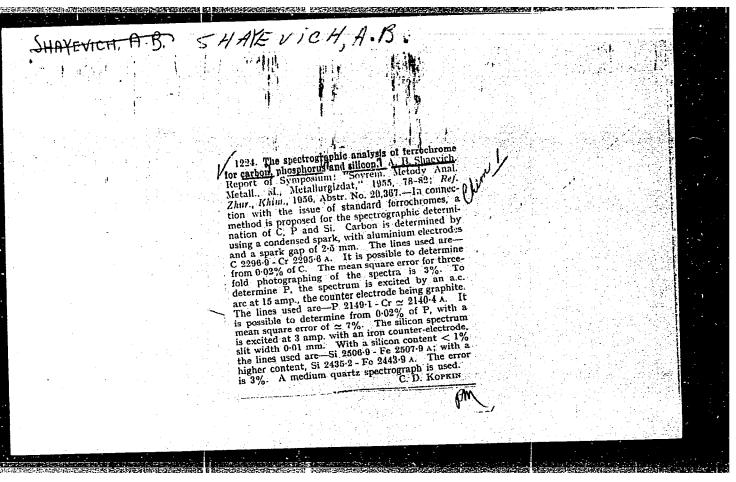
The values of occasional and systematic errors in chemical analysis of steel were evaluated and it was found that these values exceed the metrologically permissible values. A method is introduced for spectral determination of the chemical composition of samples according to primary synthetic standards. The occasional and systematic errors of the analysis results obtained by means of the new method were found to be much smaller than the errors of other conventional analysis methods. The method also takes into consideration the metallurgical laws of heterogeneity formation which makes it possible to investigate even the most hazardous sections and thereby reduce the number of tested samples and elements.

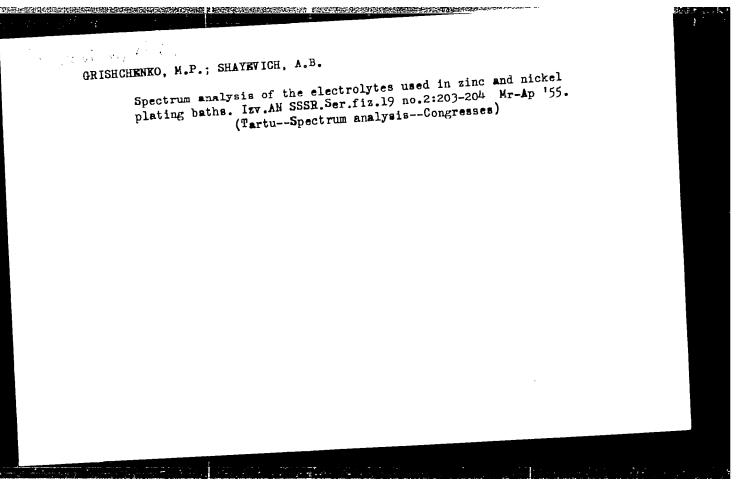
Institution:

The Ural Scientific Research Institute of Non-Ferrous Metals

Submitted

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