

ZHIGULEV, V.N.

Practical method for calculating the operational probability  
of a threshold device. Radiotekh. i elektron. 10 no.2:356-358  
F. '65. (MIRA 18:3)

ZHIGULEV, V.N.

Theory of ordered statistical systems. Dokl. AN SSSR 161 no.5:  
1051-1054 Ap '65. (MIRA 18:5)

1. Tsentral'nyy aerogidrodinamicheskiy institut im. N.Ye.Zhukovskogo.  
Submitted July 25, 1964.

ideal gas in the weakly ordered case, doing a general study in which he obtains the thermodynamic equations in the case of a small Knudsen number. The results arise from a method he proposes for solving Bogolyubov equations (for correlation distributions) in the case of a small Van der Waals number for an inhomogeneous gas

SECRET

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FROM: [REDACTED] TO: [REDACTED] SUBJECT: [REDACTED]

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ZHIGULEV, V.N. (Moskva)

Equations of the motion of a non-equilibrium medium taking radiation  
into consideration. Inzh.zhur. 4 no.3:432-438 '64.

(MIRA 17:10)

NOPI ACS: signal reception

"APPROVED FOR RELEASE: 07/19/2001

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APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810006-4"

ZHIGULEV, V. N. (Moscow):

"On the continuum mechanics equations"

report presented at the 2nd All-Union Congress on Theoretical and Applied  
Mechanics, Moscow, 29 Jan - 5 Feb 64.

AGAFONOV, V.P.; ZHIQULEV, V.N. (Moscow)

"Estimation of influence of the relaxation boundary layer on friction and heat transfer characteristics for a supersonic flow past a wedge"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

AUTHOR:

Zhigulev V.N. (Moscow)

TITLE:

3. In the equations of physical aerodynamics

PERIODICAL:

Inzhenernyy zhurnal

TEXT:

In contemporary physical aerodynamics the problem arises whether phenomena in which fast and slow processes interact can be described by self-contained systems of differential equations of motion for a particular set of characteristic quantities. This problem arises acutely when studying boundary layer flows. The problem of obtaining hydrodynamic equations in the case of gas motion with an oscillatory magnetic quantum relaxation is considered. It is shown that the desired system of hydrodynamic equations will consist of three scalar and one vector differential equations. As a result of this analysis the phenomena under consideration are governed not only by the conventional energy equation but also a second energy equation which is derived. The first and second approximations of the hydrodynamic system of equations are found. It is stated that

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On the equations of physical ...

S/258/63/003/001/014/022  
E191/E135

for the first time no limitations have been imposed on the difference between the temperature of the translational degrees of freedom and the temperature of the oscillatory quanta. In a similar manner, systems of differential equations can be set up for the motion of a dissociated gas, an ionized gas and other conditions.

SUBMITTED: December 25, 1962

L 16965-63

EPA(b) / PDS (ES 'v)

AERO APPET AND APMIC

AUTHOR:

Zhigulev, V. N.

63

TITLE:

The problem of the flow of non-equilibrium gas

PERIODICAL:

Akademiya nauk SSSR. Doklady. v. 149, no. 6, 1962, 1278-1281

TEXT:

The author examines the flow of a gas with relaxation of a relatively non-energy-consuming degree of freedom or the reactions called the flow of weakly relaxing gas (A) and also flow close to equilibrium (B). The structural term for a shock wave in case (A) is obtained in explicit form for the relaxation of oscillatory degrees of freedom. Further the oscillatory relaxation in case (B) is used as the example for investigating the problem of obtaining systems of differential equations from a system of integral differential equations when the length of the free path is small in comparison with characteristic length. It is found that the structural term can be obtained in the form of a small variation with respect to the ordinary shock wave which has a thickness of the order of the relaxation length of translational degrees of freedom, i. e., is assumed equal to zero. There is 1 figure.

ASSOCIATION:

Tsentral'nyy aerogidrodinamicheskiy institut im. N. Ye. Zhukovskogo (Central Aerohydrodynamic Institute imeni N. Ye. Zhukovskiy)

SUBMITTED:

March 6, 1962

Card 1/1



ZHIGULEV, V. N. (Moskva)

Synthesis of a certain class of optimum control systems. Avtom.  
i telem. 23 no.11:1431-1438 N '62. (MIRA 15:10)

(Automatic control)

ZHIGULEV, V.N.

The relaxation boundary layer effect. Dokl. AN SSSR. 144 no.6:  
1251-1254 Je '62. (MIRA 15:6)

1. Tsentral'nyy aero-gidrodinamicheskiy institut im. N.Ye.  
Zhukovskogo. Predstavleno akad. A.A.Dorodnitsynym.  
(Boundary layer) (Aerodynamics)

10.1230

S/020/62/144/006/007/015  
B108/B102

AUTHOR: Zhigulev, V. N.

TITLE: On the relaxation boundary layer effect

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 6, 1962, 1251-1254

TEXT: The supersonic flow of a slightly relaxational gas around a wedge is considered. It is shown that non-equilibrium effects are considerable not only in a layer of several relaxation lengths ( $u_0 \tau_0$ ) immediately adjoining the shock wave but also in the "relaxation boundary layer" which is several relaxation lengths thick and borders the wedge surface. The exact solution of this problem for oscillatory relaxation is demonstrated. There are 4 figures.

VB

ASSOCIATION: Tsentral'nyy aero-gidrodinamicheskii institut im.  
N. Ye. Zhukovskogo (Central Institute of Aerohydrodynamics  
imeni N. Ye. Zhukovskiy)

Card 1/2

On the relaxation boundary layer effect

S/020/62/144/006/007/015  
B108/B102

PRESENTED: February 3, 1962, by A. A. Dorodnitsyn, Academician

SUBMITTED: January 30, 1962

✓B

Card 2/2

ZHIGULEV, V. N.

Magnetic squeezing-out phenomenon in a free-molecule stream of plasma (on the theory of the flow of solar streams about the magnetic dipole of the Earth). Dokl. AN SSSR 135 no.6:1364-1366 D '60. (MIRA 13:12)

1. Tsentral'nyy aerogidrodinamicheskii institut im. N. Ye. Zhukovskogo. Predstavleno akademikom L. I. Sedovym.  
(Plasma (Ionized gases)) (Magnetism, Terrestrial)

L 12154-66 EWT(d)/EWT(1)/EWT(m)/EWA(d)/FGS(k)/EWA(1) IJP(c)  
SOURCE CODE: UR/0020/65/165/003/0502/0505

ACC NR: AP5028906

AUTHOR: <sup>44,56</sup> Zhigulev, V. N.

ORG: Central Aerohydrodynamics Institute, im. N. Ye. Zhukovskiy (Tsentral'nyy aerodinamicheskiy institut) <sup>44,55</sup>

TITLE: On equations of turbulent gas motions

SOURCE: AN SSSR. Doklady, v. 165, no. 3, 1965, 502-505

TOPIC TAGS: turbulence, gas mechanics, gas flow, distribution function, successive approximation, statistic mechanics, correlation statistics, particle motion, turbulent flow, transport equation

ABSTRACT: The theory of turbulence for gases is discussed in terms of statistical mechanics of gases, introducing the concept of phase space and the Liouville equation. Mean quantities in turbulence are defined as follows <sup>10, 41, 55</sup>

$$\bar{\Phi} = \int \Phi F^{(s)}(t, x_1, x_2, \dots, x_s) dc_1 dc_2 \dots dc_s$$

where  $F^{(s)}$  is the s-particle distribution function,  $q_1$  and  $c_1$  are the coordinate and velocities of the group of particles. On the assumption of molecular chaos, the distribution function  $F$  is expressed by

$$F^{(s)} = \prod_{i=1}^s F^{(1)}(t, x_i)$$

UDC: 532.517.45

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L 12154-66

ACC NR: AP5028906

with the solution

$$\frac{m^{2s}}{v^s} P^{(s)} = \prod_{i < j < k} f(t, x_i) + \sum_{i < j < k} \sum_{(k, l, m)} g(t, x_i, x_j) \prod_{i < j < k} f(t, x_k)$$

for weak statistical correlations between the various groups of particles. The functions  $f$  and  $g$  are then expressed in Boltzmann type transport equations which for the various collisional invariants  $\psi_i$  are expressed by

$$\int \left( \frac{\partial f}{\partial t} + c_1 \frac{\partial f}{\partial q_1} \right) \psi_i d c_1 = 0, \quad \int \left( \frac{\partial g}{\partial t} + c_1 \frac{\partial g}{\partial q_1} + c_2 \frac{\partial g}{\partial q_2} \right) \chi_i d c_1 d c_2 = 0$$

The solution of these equations is analyzed using an Enskog type successive approximation. The result is a set of 20 scalar equations relative to 15 scalar functions  $W_i(t, q_i)$ , density  $n$ , mean mass velocity  $\bar{V}$ , and temperature  $T$ . This paper was presented by academician A. A. Dorodnitsyn on 9 April 1965. Orig. art. has: 11 equations.

SUB CODE: 20/ SUBM DATE: 15Dec64/ ORIG REF: 003/ OTH REF: 009

FWJ  
Card 2/2

ZHIGULEVA, N.M., inzh.

Voltage regulation in cable networks. Energetik 7 no.4:1-5  
Ap '59. (MIRA 12:5)  
(Electric networks)



SOV/91-59-4-1/28

8 (2)  
AUTHOR:

Zhiguleva, N. M. Engineer

TITLE:

The Experience With the Voltage Regulation in Cable Networks (Opyt raboty po regulirovaniyu napryazheniya v kabel'noy seti)

PERIODICAL:

Energetik, 1959, Nr 4, pp 1 - 5 (USSR)

ABSTRACT:

The voltage of electric power networks must not exceed the established upper and lower limits. Fluctuations of the voltage are caused: a) by voltage changes at the bus bars of power distribution centers; b) by changing voltage losses in the power network between the buses of distribution centers and the consumers. Voltage control is divided into two phases: a) the voltages required at the buses of power distribution centers are determined graphically; b) the measures are determined for maintaining a constant voltage level by means of the voltage graphs at the buses. The permissible voltage limits are determined by two extreme consumer voltages having the maximum and minimum voltage losses. According to the

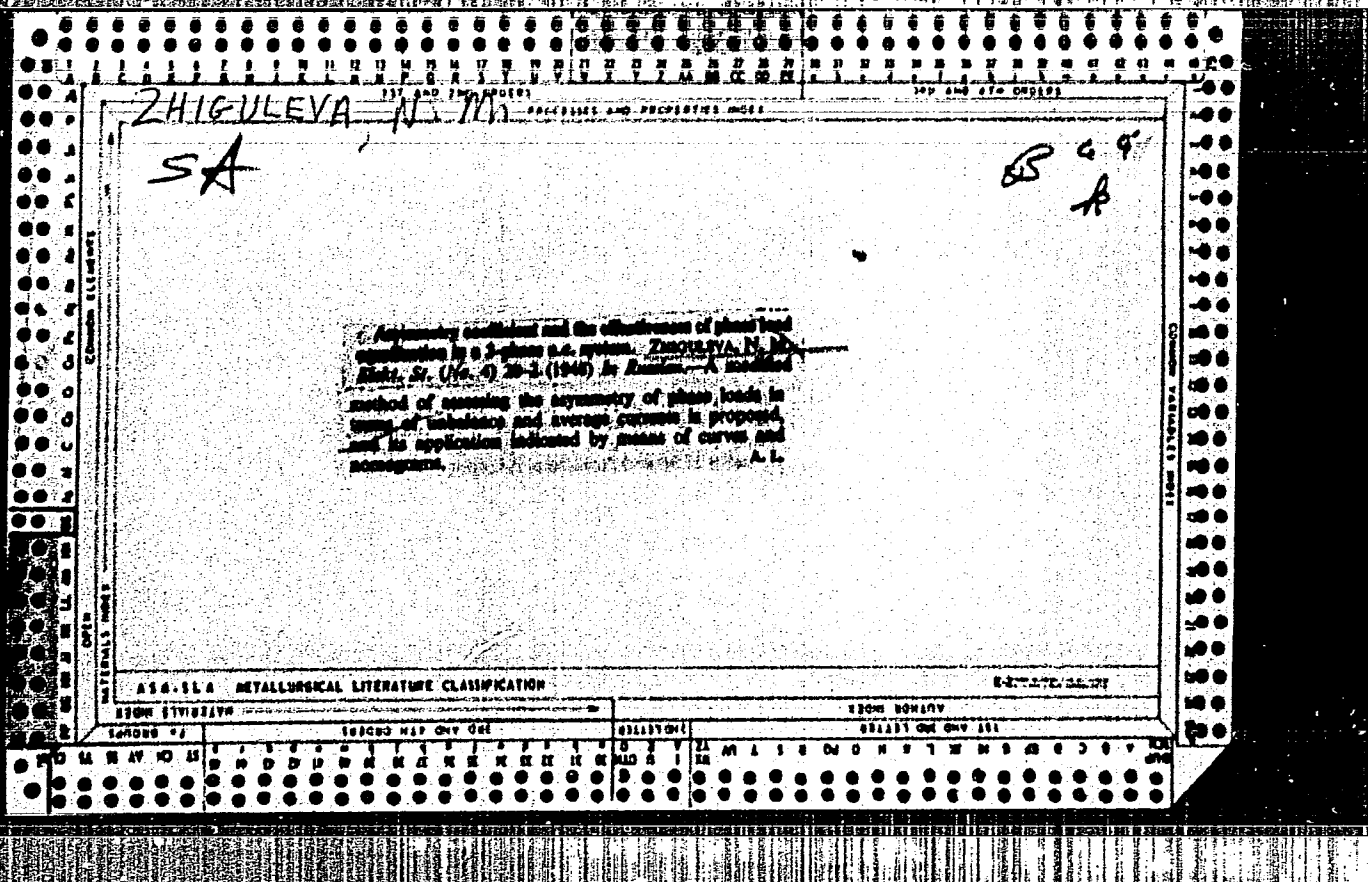
Card 1/2

SOV/91-59-4-1/28

The Experience With the Voltage Regulation in Cable Networks

established voltage drop characteristic, a) operational measures and b) constructional measures are taken. The operational measures consist of balancing the loads on individual circuits, switching of cable lines, transformers, capacitors, etc. Constructional measures consist of reducing voltage losses in transformers, replacing transformers, installing of static capacitors at industrial installations or voltage control transformers. When planning power lines, expected voltage variations may be reduced or eliminated by installing the proper equipment. One of the most effective measures for eliminating voltage changes in the low voltage network is the conversion of the network from 120 to 220 volts. There are two sets of graphs.

Card 2/2



ZHIGULIN, G.V., Cand Phys-Math Sci --(diss) "Concentrated excitation  
of electromagnetic oscillations in certain semiinfinite bodies."  
Tomsk, 1958. 7 pp (Tomsk State U in V.V.Kuybyshev), 150 copies  
(KI,43-58,113)

- 2 -

8(0)

SOV/112-59-4-6464

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4,  
pp 7-8 (USSR)

AUTHOR: Zhigulin, G. V.

TITLE: Lumped Excitation of Electromagnetic Oscillations in a Paraboloid of  
Revolution by an External Source

PERIODICAL: Izv. vyssh. uchebn. zavedeni. Fizika, 1958, Nr 2, pp 159-170

ABSTRACT: A problem is investigated of exciting electromagnetic oscillations in a perfectly conducting paraboloid of revolution; an elementary dipole placed outside the paraboloid, at its apex and directed along the paraboloid's axis, serves as an exciting source. This investigation facilitates developing a theory of the top-fed mast-type antenna and helps in studying propagation of electromagnetic waves along a semi-infinite conductor which is energized at one of its ends (Abraham's problem with an allowance for the source of energy). The source of energy (dipole) is simulated by an infinitely thin ring with a radius  $\rho_0$  that

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SOY/112-59-4-6464

Lumped Excitation of Electromagnetic Oscillations in a Paraboloid of . . . .

passes a magnetic current with a constant amplitude  $I_0^m$ ; such a ring of magnetic current is equivalent to an electric dipole that has a moment

$$p_0 = \frac{I_0^m \eta \rho_0^2}{c} .$$

The electromagnetic field of the above system can be

determined from the Maxwell equations with these boundary conditions:

(1) the tangential component of the electric field vanishes on the conductor's surface; (2) the solution is regular at infinity and represents a wave traveling toward infinity. A possibility of integral representation of the 2-dimensional Green function through the one-dimensional Wittaker functions is used in the solution. If the paraboloid degenerates into a semi-infinite conductor and if the elementary-dipole source is placed very closely to the conductor's end, then the following will take place: (1) at great radial distances from the conductor, the field will wane slowly; (2) the field near the wire at a long distance from the end is described by a propagating compound electromagnetic wave which

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SOV/112-59-4-6464

Lumped Excitation of Electromagnetic Oscillations in a Paraboloid of . . . .  
decreases very slowly with the distance; in the radial direction, the field  
decreases hyperbolically; (3) investigation of the field at a great distance from  
the source permits determining the radiation pattern of the system.  
Bibliography: 7 items. (Barnaul Pedagogical Institute).

V.A.G.

Card 3/3

ZHIGULIN, I.A.

Certain invariants of a group of triangular unit matrices in  
a space adjoint to the space of its Lie algebra. Dokl. AN  
SSSR 164 no.1:32-35 S '65. (MIRA 18:9)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut im.  
V.I. Lenina. Submitted May 21, 1965.



ZHIGULIN, L. N.

Zhigulin, L. N. - "Experimental study of a reflecting klystron," Trudy Studench. nauch.-tekhn. o-va (Mosk. energet. in-t im. Molotova), Issue 2, 1948, p. 5-8

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

ZHIGULIN, V. [Zhuhulin, V.]

Converter steel. Nauka i zhyttia 12 no.9:12-13 S '62.

(MIRA 16:1)

1. Glavnyy inzh. Dnepropetrovskogo metallurgicheskogo zavoda im.  
Petrovskogo.

(Steel--Metallurgy)

137-58-6-11692

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 68 (USSR)

AUTHOR: Zhigulin, V.I.

TITLE: The Smelting of Killed Carbon Steel Without Prior Deoxidation in the Furnace (Vyplavka spokojnoy uglerodistoy stali bez predvaritel'nogo raskisleniya metalla v pechi)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 450-453

ABSTRACT: An experiment in the pouring of killed low-carbon steel without prior deoxidation (P) was conducted in 250 and 80-t open-hearth furnaces at the im. Petrovskiy plant. The furnaces are operated on the scrap-and-ore process and are heated by a mixture of coke oven and blast-furnace gases. Work on the pouring of steel without P has been conducted since 1953. Experimental heats showed that the tapping of steel without P in the furnace reduces the heat time by approximately 5%. Elimination of P of mild tube steel makes it possible to reduce deoxidizer consumption, providing a saving of Rubles 8.31 per ton of steel. The quality of the metal poured with and without P is virtually identical. Contamination of the metal by

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137-58-6-11692

The Smelting of Killed Carbon (cont.)

nonmetallic inclusions is no greater when steel is smelted without P. The mechanical properties of metal smelted with and without P are virtually identical and are significantly higher than the standards specified by the Technical Specifications. It is held that the smelting of killed carbon steel without P in the furnace by blast-furnace Fe-Si is economically and technically fully justified and may be recommended for general application. The plant also attempted deoxidation of rimmed metal in the ladle by Fe-Mn and addition of Fe-Cr in the ladle to effervescent metal with 0.15-0.30% Cr. It is proposed that these procedures be verified in the smelting of killed steels.  
V.G.

1. Steel--Processing
2. Steel--Test results
3. Blast furnaces--Applications
4. Gases--Applications

Card 2/2

ZHIGULIN, V.I.; KOROBV, I.I., Geroy Sotsialisticheskogo Truda, laureat  
Leninskoy premii

Petrovskii Plant 18 75 years old. Metallurg 7 no.5:4-7 My '62.  
(MIRA 15:5)

1. Direktor metallurgicheskogo zavoda imeni Petrovskogo  
(for Korobov). 2. Glavnyy inzhener metallurgicheskogo zavoda  
imeni Petrovskogo (for Zhigulin).  
(Dnepropetrovsk--Iron and steel plants)

SANDLER, N.I.; LOBRUSKINA, Sh.R.; ZAYKOV, S.T.; ZADOROZHNYAYA, L.K.;  
FEL'DMAN, E.I.; ZHIGULIN, V.I.; RUBINSKIY, P.S.; ASNIS, A.Ye.

Low alloy manganese steel with niobium smelted in an oxygen-  
blown converter. Stal' 25 no.2:160-162 F '65. (MIRA 18:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov;  
zavod im. Petrovskogo i Institut elektrosvarki im. Ye.O.  
Patona AN UkrSSR.

ZHIGULIN, V.I.; RUBINSKIY, P.S.

Role of manganese in the oxygen-blown converter process. Stal' 25  
no.5:415 My '65. (MIRA 18:6)

1. Zavod im. Petrovskogo.

KOROLEV, A.I.; BLINOV, S.T.; LUBNETS, I.A.; KOBURNEYEV, I.M.; TURUBINER, A.L.; VASIL'YEV, S.V.; CHERNENKO, M.A.; BELOV, I.V.; TRIMSOV, S.A.; MAZOV, V.F.; MEDVEDEV, V.A.; MAL'KOV, V.G.; BUL'SKIY, M.T.; TRUBNYSKOV, K.M.; SHNYYKOV, Ya.A.; SIADKOSHTYEV, V.T.; PALANT, V.I.; KUROCHKIN, B.N.; ZHDANOV, A.M.; BELIKOV, K.N.; SABIYEV, M.P.; GARBUZ, G.A.; PODGORETSKIY, A.A.; ALFEROV, K.S.; NOVOLODSKIY, P.I.; MOROZOV, A.N.; VASIL'YEV, A.N.; MARAKHOVSKIY, I.S.; MALAKH, A.V.; VERKHOVTSYEV, E.V.; AGAPOV, V.F.; VECHER, N.A.; PASTUKHOV, A.I.; BORODULIN, A.I.; VAYNSHTEYN, O.Ya.; ZHIGULIN, V.I.; DIKSHTEYN, Ye.I.; KLIMASENKO, L.S.; KOTIN, A.S.; MOLOTKOV, N.A.; SIVERSKIY, M.V.; ZHIDETSKIY, D.P.; MIKHAYLETS, N.S.; SLEPKANOV, P.N.; ZAVODCHIKOV, N.G.; GUDENCHUK, V.A.; NAZAROV, P.M.; SAVOS'KIN, M.Ye.; NIKOLAYEV, A.S.

Reports (brief annotations). Bul. TSNIICEM no.18/19:36-39 '57.

(MIRA 11:4)

1. Magnitogorskiy metallurgicheskiy kombinat (for Korolev, Belikov, Agapov, Dikshteyn). 2. Kuznetskiy metallurgicheskiy kombinat (for Blinov, Vasil'yev, A.N., Borodulin, Klimasenka). 3. Chelyabinskiy metallurgicheskiy zavod (for Lubnets, Vaynshteyn). 4. Zavod im. Dzerzhinskogo (for Koburneyev). 5. Zavod "Zaporozhstal'" (for Turabiner, Mazov, Podgoretskiy, Marakhovskiy, Savos'kin). 6. Makeyevskiy metallurgicheskiy zavod (for Vasil'yev, S.V., Mal'kov, Zhidetskiy, Al'ferov). 7. Stal'proyekt (for Chernenko, Zhdanov, Zavodchikov). 8. VNIIT (for Belov). 9. Stalinskiy metallurgicheskiy zavod (for Telesov, Malakh).

(Continued on next card)



KOROLEV, A.I.---(continued) Card 2.

10. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Medvedev, Novolodskiy, Vecher).
  11. Zavod "Azovstal'" (for Bul'skiy, Slepkanov).
  12. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Trubetskov).
  13. Ukrainskiy institut metallov (for Shneyerov, Sladkovskiy, Kotin).
  14. Zavod "Krasnyy Otkryabr'" (for Palant).
  15. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Kurochkin).
  16. Zavod im. Voroshilova (for Sabiyev).
  17. Chelyabinskiy politekhnicheskiy institut (for Morozov).
  18. Giprostal' (for Garbus).
  19. Ural'skiy institut chernykh metallov (for Pastukhov).
  20. Zavod im. Petrovskogo (for Zhigulin).
  21. Ministerstvo chernoy metallurgii USSR (for Molotkov, Siverskiy).
  22. Glavpetsstal' Ministerstva chernoy metallurgii SSSR (for Nikolayev).
- (Open-hearth process)

ZHIGULIN V.I.

KHODAKOVSKIY, V.V.; YEFIMOV, V.A., kand. tekhn. nauk, starshiy nauchnyy  
 rabotnik; KOSENKO, P.Ye., kand. tekhn. nauk; KAZAKEVICH, S.S.;  
 LAPITSKIY, V.I., prof., doktor tekhn. nauk; FILIP'YEV, O.V.;  
 STROGANOV, A.I., kand. tekhn. muk, dots.; DEMIDOVICH, A.V.;  
 BORNATSKIY, I.I., kand. tekhn. nauk; MEDZHIBOZHSKIY, M.Ya., dots.;  
 KOCHO, V.S., prof., doktor tekhn. nauk; RYN'KOV, V.I.; LOMAKIN,  
 L.M., mladshiy nauchnyy sotrudnik; KOKAREV, N.I., dots.; KLYUCHAREV,  
 A.P.; PLYUSHCHENKO, Ye.A.; KAPUSTIN, Ye.A., kand. tekhn. nauk, dots.;  
 KOBNEZA, I.I., kand. tekhn. nauk, nauchnyy sotrudnik; SHIROKOV, G.I.;  
 UMRIKHIN, P.V., prof., doktor tekhn. nauk; LEZHAVA, K.I.; ZHIGULIN,  
 V.I.; MOROKOV, P.K.; KHLIBNIKOV, A.Ye., prof., doktor tekhn. nauk,  
 starshiy nauchnyy sotrudnik; TARASOV, N.S.; NIKOLAYEV, A.G.

Discussions. Biol. TSNIICM no.18/19:40-66 '57.

(MIRA 11:4)

1. Starshiy inzhener Glavspetsstali Ministerstva chernoy metallur-  
 gii SSSR (for Khodakovskiy).
2. Institut gaza (for Yefimov).
3. Di-  
 rektor Dneprodzerzhinskogo metallurgicheskogo instituta (for  
 Kosenko).
4. Nachal'nik laboratorii Leningradskogo instituta ogne-  
 uporov (for Kazakevich).
5. Zaveduyushchiy kafedroy metallurgii  
 stali Dnepropetrovskogo metallurgicheskogo instituta (for Lapitskiy).
6. Nachal'nik laboratorii Giprostali (for Filip'yev).
7. Gulyabin-  
 skiy politekhnicheskoy laboratorii Severakogo metallurgicheskogo zavoda  
 (for Demidovich).
9. Zamestitel' nachal'nika Tsentral'noy zavodskoy  
 laboratorii Makeyevskogo metallurgicheskogo zavoda (for Bornatskiy).

(Continued on next card)

KHODAKOVSKIY, V.V.---(continued) Card 2.

10. Sibirskiy metallurgicheskiy institut (for Medzhibozhskiy).
11. Zaveduyushchiy kafedroy metallurgii stali Kiyevskogo politekhnicheskogo instituta (for Kocho). 12. Ispolnyayushchiy obyazannosti glavnogo inzhenera Beloretskogo metallurgicheskogo kombinata (for Ryn'kov). 13. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Lomakin). 14. Ural'skiy politekhnicheskoy laboratorii Nizhne-Tagil'skogo metallurgicheskogo kombinata (for Klyucherov). 15. Zamestitel' nachal'nika teplotekhnicheskoy laboratorii Tsentral'noy zavodskoy laboratorii zavoda im. Voroshilova (for Flyushchenko). 16. Nachal'nik teplotekhnicheskoy laboratorii (for Kapustin). 17. Zhdanovskiy metallurgicheskiy institut (for Kobeza). 18. Institut metallurgii im. Baykova AN SSSR (for Kobeza). 19. Nachal'nik laboratorii martenovskikh pechey Vsesoyuznogo nauchno-issledovatel'skogo instituta metallurgicheskoy teplotekhniki (for Shirokov). 20. Zaveduyushchiy kafedroy metallurgii stali Ural'skogo politekhnicheskogo instituta (for Umrikhin). 21. Nachal'nik metallurgicheskoy laboratorii Tsentral'noy zavodskoy laboratorii Zakavkazskogo metallurgicheskogo zavoda (for Iezhava). 22. Zamestitel' glavnogo inzhenera zavoda im. Petrovskogo (for Zhigulin). 23. Nachal'nik martenovskogo tsekha Kuznetskogo metallurgicheskogo kombinata (for Morokov). 24. Institut metallurgii im. Baykova AN SSSR (for Khlebnikov). 25. Glavnyy inzhener Petrovsk-Zabaykal'skogo metallurgicheskogo zavoda (for Tarasov). 26. Nachal'nik tsekha Magnitogorskogo metallurgicheskogo kombinata (for Nikolayev).

(Open-hearth process)

LIKHORADOV, A.P.; ZHIGULIN, V.I.; ZHEMBUS, M.D.; RUDAKOV, V.F.; KOTOV, K.I.;  
ZHAK, A.M.; TSYMBALYUK, V.Yu.; FILIMONOV, V.V.

Service of the lining and cooling equipment of a blast furnace  
in the smelting of ferromanganese. Metallurg 10 no.10:12-14  
0 '65. (MIRA 18:10)

1. Zavod im. Petrovskogo.

VARNAVSKIY, I.N.; ZELICHENOK, B.Yu.; KARGIN, V.A.; ZHIGULIN, V.I., inzh.;  
BEDA, N.I., inzh.; RYZHKOV, P.Ya., inzh.; GAVRILOV, A.M., inzh.

New developments in research. Stal' 23 no.10:950 0 '63.  
(MIRA 16:11)

VARNAVSKIY, I.N.; SHNEYDER, A.G.; IZOTOV, N.P.; POLYAKOVA, S.V.; ZHIGULIN,  
V.I., inzh.; BEDA, N.I., inzh.; RYZHKOV, P.Ya., inzh.;  
GAVRILOV, A.M., inzh.

New developments in research. Stal' 23 no.10:940-941 0 '63.  
(MIRA 16:11)

ZHIGULIN, V.I., inzh.; BEDA, N.I., inzh.; ROZHKOVA, P.Ya., inzh.; GAVRILOV, A.M.,  
inzh.

New developments in research. Stal' 23 no.10:914 0 '63.

LIFSHITS, S.I., kand.tekhn.nauk; ZHIGULIN, V.I., inzh.; RUBINSKIY, P.S., inzh.

Making low-alloy brands of steel in the oxygen-converter department  
of the Petrovskii Plant. Stal' 23 no.12;1082-1085 D '63.

(MIRA 17:2)



ZAYKOV, S.T.; KRAVTSOV, P.Ya.; NIKIFOROV, B.V.; KOVAL', V.Ye.; ZHIGULIN, V.I.;  
RUBINSKIY, P.S.; LIPSHITS, S.I.; YEVSTAF'YEV, Ye.I.; NIKONOV, V.F.;  
VOZLINSKIY, A.G.

Using oxygen-blown converter steel in automobile manufacture.  
Met. 1 gornorud. prom. no.4:26-31 J1-Ag '64.

(MIRA 18:7)

LIFSHITS, Saveliy Iosifovich; ZHIGULIN, Vladimir Ivanovich;  
RUBINSKIY, Petr Samoylovich

[Making oxygen-blown converter steel] Proizvodstvo kis-  
lorodno-konvertornoi stali. Moskva, Metallurgiya, 1965.  
95 p. (MIRA 18:7)

DOLGOKER, Yu.P.; PASHUTIN, N.V.; ZHIGULIN, V.I., inzh.; BEDA, N.I., inzh.;  
RYZHKOV, P.Ya., inzh.; GAVRILOV, A.I., inzh.; CHEKHRANOV, V.D.,  
kand. tekhn. nauk

New developments in research. Stal' 23 no.10:928-929 0 '63.  
(MIRA 16:11)

ZHIGULIN, V.I.

Making of steel in an oxygen converter. *Biul.tekh.-ekon.inform.Gos.-  
nauch.-issl.inst.nauch. i tekh.inform. no.4:3-7 '62. (MIRA 15:7)*  
(Bessemer process)

YANOVSKIY, I.L.; ZHIGULIN, V.I.; RUBINSKIY, P.S.; BAPTIZMANSKIY, V.I.

Studying the causes of ejection from converters. Izv. vys. ucheb.  
zav.; chern. met. 8 no.5:31-39 '65. (MIRA 18:5)

1. Dnepropetrovskiy metallurgicheskiy institut i Metallurgicheskiy  
zavod imeni Petrovskogo.

ZHIGULIN, V.I.; GAVRILOV, A.M.; KATEL', L.M.

Ramming a new open-hearth furnace hearth bottom, Metallurg 10  
no.3:16-17 Mr '65. (MIRA 18:5)

S/193/62/000/004/001/008  
A004/A101

AUTHOR: Zhigulin, V. I.

TITLE: Steel production in oxygen converters

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 4, 1962, 3-7

TEXT: .The author presents a survey on the steel production in blind-bottom converters with top-blowing of oxygen which in 1956 was introduced for the first time in the USSR by the bessemer shop of the Plant im. Petrovskiy. He enumerates the deficiencies of bessemer steel which have been eliminated by the new process, in which the oxygen is fed into basic converters at a pressure of 10 - 12 atm through water-cooled tuyeres. The converters for the oxygen-blowing process are lined with the high-quality periclase-spinellide magnesite-chromite brick. In 1961 the Plant im. Petrovskiy successfully tested tar-dolomite bricks. It is pointed out that the oxygen purity affects to a great extent the quality of the smelted steel. The oxygen purity being 98.7 - 99.2%, it is possible to obtain converter steel with the same nitrogen content as open-hearth steel. In this process, the rate of slag-forming is of greatest importance. It was found by the Plant im. Petrovskiy that the addition of 2 - 3 kg fluorspar per ton of

Card 1/2

Steel production in oxygen converters

S/193/62/000/004/001/008  
A004/A101

steel at the beginning of the process accelerates the transfer of lime into the slag solution, makes the slag sufficiently basic during the first 5 minutes of blowing and eliminates the necessity of draining intermediate slag. The service life of the lining increased from 135 heats in 1959 to 200 in 1960 and 1961. The refractory consumption was cut from 16-18 to 10-12 kg/ton ingot. After the oxygen blowing the steel is reduced and alloyed in the ladle. The new converter process ensures an output of 88% quality ingots and makes it possible to smelt steel of many grades. The author presents tables showing comparative data of the chemical and mechanical properties of various converter and open-hearth steel grades, notch toughness of specimens depending on the temperature and after aging, and the gas content of the different steel grades. It can be seen from the tables that, in regard to mechanical properties and chemical composition the new converter steel does not differ from open-hearth steel and meets all requirements of GOCT (GOST) 380-60, while its notch toughness is considerably greater than that of open-hearth steel. As from 1961, GOST 9543-60 is being applied to ordinary converter carbon steel, while all demands made by GOST 380-60 on the open-hearth steel grades of groups A and B(V) have also been extended to the same converter steel groups. There are 4 tables.

Card 2/2



L 34551-65 EWT(m)/EWP(w)/EPF(n)-2/EMK(a)/T/EWP(t)/ZWP(k)/EWP(b)/EMK(c) PF-4/  
 Fu-4 LJP(c) MJW/JD/WJ/JO 3C

B/0133/85/000/002/0160/0162

ACCESSION NR: AP5005851

AUTHOR: Sandler, N.J.; Dobruskina, Sh. R.; Zaykov, B. T.; Zadorozhnaya, L. K.;  
Fel'dman, E. I.; Zhigulin, V. L.; Rubinsky, P. S.; Asnis, A. Ye.

TITLE: Low-alloy manganese steel with niobium, smelted in an oxygen converter 57  
 50  
 13

SOURCE: Stal', no. 2, 1965, 160-162

TOPIC TAGS: steel smelting, oxygen converter, low alloy steel, manganese steel, niobium steel, steel rolling, steel mechanical property, K10G2B steel, 09G2 steel, MST. 3 steel 16 16 16

ABSTRACT: Alloying of K10G2B steel, containing 0.02-0.05% Nb, raises its strength characteristics as compared to 09G2 steel by 10-12 kg/mm<sup>2</sup> (98-117 Mn/m<sup>2</sup>), or 20-25%, permitting an appreciable reduction in the weight of the structures. Rolled products made of K10G2B steel are characterized by high tensile strength, plasticity, and impact strength. Another important advantage of the new steel is a higher vibration resistance of the weld joints than that of other low-alloy steels or even MST. 3 steel. The making of low-alloy manganese steels in oxygen converters is very effective, since their deoxidation and alloying thus requires smaller quantities of expensive ferroalloys containing manganese than in the case of other steelmaking processes. "B. I. Lifshits, P. Ya. Ryzhkov, Card 1/2

L 34551-65

ACCESSION NR: AP6005851

7

and I.G. Goryuchka (Petrovsky plant), B.V. Nikiforov and V. Ye. Koval' (Ukrainian metals scientific research institute), and A.K. Nazarenko (Electric welding institute) also took part in the work." Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Ukrainsky n.-i. Institut metallov (Ukrainian metals scientific research institute); Zavod im. Petrovskogo (Petrovsky plant); Institut elektrosvarki im. Ye. O. Patona AN UkrSSR (Electric Welding Institute, AN UkrSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 001

OTHER: 007

Card 2/2

ZHIGULIN, V.I., inzh.; RUBINSKIY, P.S., inzh.

Desulfuration in converter gas during the top oxygen blowing  
of conversion pig iron. Stal' 25 no.4:310-312 Ap '65.

(MIRA 18:11)

KHORUNZHIY, V.A., red.; RIBAS, Yu.M., red.; BORISEVICH, Z.S., red.;  
VERTYACHIKH, V.G., red.; KOST'YEV, N.K., red.; MOVSESOV, N.S.,  
red.; ZHIGULIN, Yu.V., red.; RAKOVICH, I.I., red.; RUVINSKIY,  
V.A., red.; TULIN, V.S., red.; FETISOV, P.A., red.; FILIMONOV,  
P.V., red.; IGLITSYN, I.L., red.; LARIONOV, G.Ye., tekhn.red.

[Rules for the manufacture of explosion-proof electric equipment]  
Pravila izgotovleniia vzryvozashchishchennogo elektrooborudovaniia.  
Moskva, Gos.energ.isd-vo, 1960. 54 p. (MIRA 13:11)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po avtoma-  
tizatsii i mashinostroyeriyu.  
(Electric apparatus and appliances)

YEFIMOV, N.A.; VASIL'YEV, A.S.; YUSHKO, Ya.K.; KOMAROVA, A.A.; KUELANOVA, P.S.;  
ZHIGULINA, L.A.; YUSHKEVICH, L.B.; BULYCHEV, G.V.

Effect of wastes of a metallurgical plant on the health of  
the population. Uch.zap. Mosk. nauch.-issl.inst. san. i gig.  
no.9:73-76 '61 (MIRA 16:11)

\*

BAYKOV, B.K.; MELKHINA, V.P.; Primalni uchastiye: VASIL'YEV, A.S.;  
KATSENELEBAUM, M.S.; KOMAROVA, A.A.; ZHIGULINA, L.A.; TERNOVSKAYA,  
L.N.; YUSHKO, Ya.K.; CH'YAK, K.I.; GUSEL'NIKOVA, E.L.; KETOVA, O.N.

Hygienic characteristics of air pollution in Gubakha and its effect  
on health of the population. Uch. zap. Mosk. nauch.-issl. inst. san.  
i gig. no.6:21-25 '60. (MIRA 14:11)  
(NIZHNYAYA GUBAKHA—AIR—POLLUTION)

VYALOV, A.M.; BAGNOVA, M.D.; VASIL'YEV, A.S.; PUSHKINA, N.N.; YUSHKEVICH,  
L.B.; BULYCHEV, G.V.; BYLOV, I.S.; GENKIN, A.G.; ZHIDKOVA, L.V.;  
ZHIGULINA, L.A.

Early changes in the state of health of workers in the cumene  
process of phenol and acetone production. Uch. zap. Mosk. nauch.-  
issl. inst. san. i gig. no. 9:13-16 '61 (MIRA 16:11)

\*

PETRACHKOV, F.A.; ZHIGULINA, N.S.; GOT'MANOVA, T.T.

Elimination of vapors of mercury and its compounds in the  
purification of aid and exhaust gases. Khim. prom. no. 4:  
301-302 Ap '64. (MIRA 17:7)



YEMEL'YANKENKO, G.A.; SEMERYUK, V.I.; Prinsipala uchastiye ZHIGULINA, N.S.,  
studentka

Zinc plating from an ammonia electrolyte. Ukr.khim.zhur.  
27 no.6:828-830 '61. (MIRA 14:11)

1. Dnepropetrovskiy gosudarstvennyy universitet.  
(Zinc--Plating)  
(Ammonia)

ACC NR: AF6031636

(A)

SOURCE CODE: UR/0297/66/011/009/0840/0843

AUTHOR: Ferdinand, Ya. M.; Redechkina, Z. P.; Vozzhayeva, A. P.; Vetlugina, K. F.; Vevyur, N. A.; Zhigul'skaya, I. F. Borodzdenko, T. F.

2

ORG: Rostov-na Donu Scientific Research Institute of Epidemiology, Microbiology, and Hygiene (Rostovskiy-na-Donu nauchno-issledovatel'skiy institut epidemiologii, microbiologii i gigiyeny); Department of Infectious Diseases, Astrakhan Medical Institute (kafedra infektsionnykh bolezney Astrakhanskogo meditsinskogo instituta); Department of Infectious Diseases, Saratov Medical Institute (kafedra infektsionnykh bolezney Saratovskogo meditsinskogo instituta); Hospital No. 10, Volgograd (bol'nitsa No. 10)

TITLE: Antibiotic therapy and chronic typhoid fever carriers

SOURCE: Antibiotiki, v. 11, no. 9, 1966, 840-843

TOPIC TAGS: typhoid fever, typhoid carrier, antibiotic ~~therapy~~, infective disease, *drug treatment*

ABSTRACT: Antibiotic treatment does not eliminate all typhoid carriers, but the treatment is justified since the highest percent of carriers was found among untreated patients. Administration of antibiotics until the third week of convalescence sharply reduces the number of carriers. [WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: 05Nov65/ ORIG REF: 008/ OTH REF: 001/  
Card. 1/1 UDC: 616.927-085.779.931-07:616-008.97 (Bac. typhi)

DERBEDENOVA, M.P.; KUROCHKIN, B.I.; GLUMOVA, Z.I.; ZHIGUL'SKAYA, I.F.;  
VEVOR, P.A.; BORISOVA, A.I.; LYUBART, A.M.

Diagnostic value of the determination of blood serum aldolase activity  
in Botkin's disease. Sov.med. 25 no.1:92-95 Ja '61. (MIRA 14:3)

1. Iz Virusologicheskoy laboratorii Astrakhanskoy oblastnoy sanitarno-  
epidemiologicheskoy stantsii (glavnyy vrach I.I.Troitskiy), kafedry  
mikrobiologii Astrakhanskogo meditsinskogo instituta, Bol'nitsy  
imeni Bekhtereva (glavnyy vrach V.I.Gembitskiy) i Gorodskoy sanitarno-  
epidemiologicheskoy stantsii (glavnyy vrach G.A.Gul'gaz'yants).  
(ALDOLASE) (HEPATITIS, INFECTIOUS)

VAN'YAN, L.L.; ZHIGUL'SKAYA, T.A.; OMEI'CHENKO, O.K.

Tables for calculating the theoretical curves of frequency  
sounding in a distant zone. Trudy Inst. geol. i geofiz. Sib.  
otd. AN SSSR no.39:76-175 '64. (MIRA 18:4)

VAN'YAN, L.L.; MOROZOVA, O.M.; BELONOBOVA, A.V.; ZHIQUL'SKAYA, T.A.

Solution of direct problems of electric prospecting by means of  
electronic computers. Trudy Inst. geol. i geofiz. Sib. otd. AN  
SSSR no.21:122-132 '63. (MIRA 17:11)

ZASLAVNOV, D.I., gornyy inzh.; KARABANOV, M.G., gornyy inzh.; ZHIGUL'SKIY,  
I.P., gornyy inzh.; GRIGOR'YAN, Kh.M.

Results of testing the BK-2 cutter-loader. Ugol' 38 no.8:41-45  
Ag '63. (MIRA 17:11)

1. Shaktinskiy nauchno-issledovatel'skiy i proyektno-konstruk-torskiy ugol'nyy institut (for Zaslavnov, Karabanov, Zhigul'skiy).
2. Gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy institut ugol'nogo mashinostroyeniya (for Grigor'yan).

ZASLAVNOV, D.I., inzh.; KARABANOV, M.G., inzh.; ZHIGUL'SKIY, I.P., inzh.

Dust control of the working area of a longwall during the operation  
of the KTST cutter-loader. Bezop.truda v prom. 7 no.2:24-25 F '63.  
(MIRA 16:2)

1. Shakhtinskiy nauchno-issledovatel'skiy i proyektno-konstruktorskiy  
ugol'nyy institut.

(Mine dusts—Safety measures)

SVESHNIKOV, D.A.; KOZYAKOV, N. Ya.; GOLUBOVSKAYA, L.D.; ZHIGUN, A.P.

Scale removal from the driven gear of "Volga" automobile transmissions.

Avt.prom. 27 no.6:42-43 Je '61. (MIRA 14:6)

(Automobiles—Maintenance and repair)

(Automobiles—Transmission device)



5/008/63/000/006/0671/0671

ACCESSION NR: AR3000211

SOURCE: RZh. Khimiya, Abs. 67221

AUTHOR: Fadayev, P. M.; Zhigun, I. G.; Shumakova, L. B.

TITLE: Synthetic resin base waterproof coatings

CITED SOURCE: Lakokrasochn, materialy i ikh primeneniye, no. 3, 1962, 50-51

TOPIC TAGS: synthetic resin, coatings

TRANSLATION: Waterproof coating compositions are described, which dry at 20° and have for their basis PS resins (PS) and epoxy resins EDF-1 and EDF-3 (ER). Toluene solutions of resins were used. Cement, marble flour and marshallit were used as fillers. In the making of light coatings the best results were obtained on using titanium dioxide as filler or pigment. It was found that pure PS and ER base coatings, notwithstanding some good characteristics, are too brittle. Addition of tita-

Cord 1/2

ACCESSION NR: AR3000211

men increases elasticity of the coatings, but lowers their frost resistance and thermal stability. Compositions containing bitumen can be used for interior waterproofing. It is shown that bitumen compositions are exhibited by compositions containing bitumen. It is shown that bitumen compositions are exhibited by compositions containing bitumen.

DATE ACQ: 16May63

ENCL: 00

SUB CODE: 00

Card 2/2

BELOUSOV, V.P.; ZHIGUNOV, I.S.; MORACHEVSKIY, A.G.

Heats of mixing of liquids. Part 2; Heats of mixing in binary systems n-propyl alcohol - n-propyl acetate, n-propyl acetate - water, and cyclohexane - methanol. Vest LCU 16 no.22:111-115 '61. (MIRA 14:11)

(Systems (Chemistry)) (Heat of mixing)

KORNEYEV, M.I., kand. tekhn. nauk; ~~TATARINOV~~, N.G., inzh.; ZHIGUNOVA, G.V., inzh.

Special features of the joint operation of the GT-700-4-1 gas turbine  
and a gas and steam system. Energomashinostroenie 11 no.6:1-4 Je '65.  
(MIRA 18:7)

KOVNER, M.A.; DAVYDOVA, N.I.; ZHIGUNOVA, I.A.

Interpretation of the vibrational spectra and force constants of  
phenol and D-phenol. Opt. i spektr. 18 no.1:152-153 Ja '65.  
(MIRA 18:4)

KOVARSKAYA, B.M.; ZHIGUNOVA, I.Ye.

Degradation of epoxy phenol resins. Plast.massy no. 7:17-19 '64.  
(MIRA 17:10)

L-42392-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Po-Li/Pr-Li/Ps-Li RM/kW

ACCESSION NR: AR5006360

S/0081/64/000/024/S020/S021

SOURCE: Ref. zh. Khimiya, Abs. 24S115

53  
0

AUTHOR: Kovarskaya, B. M.; Zilgunova, I. Ye.; Slonim, L. Ya.; Urman, Ya. G.;  
Neyman, M. B.

TITLE: A study of the products of degradation and of change of mobility in molec-  
ular chains during thermal degradation of a polycarbonate

ORIG SOURCE: Sb. Vysokomolekul. sovedineniya. Khim. svoystva i modifik.

residue were taken over a wide range of temperatures. It was shown that the

ARJ000300



ZHIKHAREVA, V.I.; LEVE, N.F., prof.

Complexometric determination of aluminum oxide in slags  
with a high content of phosphorus pentoxide and manganous  
oxide. Trudy Ukr.nauch.-issl.inst.met. no.5:257-263 '59.  
( MIRA 13:1)

(Aluminum oxide)  
(Metallurgical analysis)

AUTHOR: Zhigul'skaya, M. SOV/29-58-9-12/30

TITLE: Crawling in Frost (Krolem v moroz)

PERIODICAL: Tekhnika molodezhi, 1958, <sup>2a</sup> Nr 9, pp 20 - 21 (USSR)

ABSTRACT: A year ago a new swimming pool was built in Moscow on the Kropotinskaya quai. This pool is much frequented even in winter. The water is mixed, filtered, and chlorated in big storage tanks. It is continuously led into the pool and always has the same temperature regardless of the weather. The rising steam forms a so-called air cushion and thus protects the swimmers from the cold. The shower baths are connected with the pool by a tiled gangway filled with water which is protected from the exterior temperature by special blocks. The tiles are heated. The walls of the pool are fitted with floodlights. The trainer gives his orders by a loudspeaker. The establishment is opened from early in the morning till late in the night. There are 3 figures.

Card 1/2

ZHIGUL'SKAYA, M.

In the Northern Industrial Research Institute. Nauka i zhizn'  
27 no.8:61 Ag '60. (MIRA 13:9)  
(Arkhangel'sk--Research, Industrial)

FADEYEV, P.M.; ZHIGUN, I.G.; SHUMAKOVA, L.B.

Waterproof coatings based on synthetic resins. Lakokras.mat.  
i ikh.prim. no.3:50-51 '62. (MIRA 15:7)

1. Ural'skiy filial Akademii stroitel'stva i arkhitektury  
SSSR.

(Resins, Synthetic)

(Protective coatings)

Z/011/62/019/010/003/009  
E112/E435

AUTHORS: Fadeyev, P.M., Zhigun, I.G., Shumakova, L.B.

TITLE: Waterproof paints, based on synthetic resins

PERIODICAL: Chemie a chemicka technologie. Prehled technicke a hospodarske literatury, v.19, no.10, 1962, 465, abstract Ch 62 6282. (Lakokras. Materialy, no.3, 1962, 50-51)

TEXT: Paints, based on straight resins, such as polystyrene or the epoxies, although waterproof are too brittle for practical application. The addition of bitumen reduces brittleness but causes deterioration of the resistance to both, low and elevated temperatures. The general usefulness of the resin composition is thus impaired. Best results were obtained with coats based on epoxies or polystyrene if plasticizers such as dibutylphthalate and titanium white, cement and other fillers were added. These compositions proved useful as insulating layers against humidity and water in the building trade. 3 tables.

[Abstracter's note: Complete translation.]

Card 1/1

REYSLEB, Yu.I., inzhener; NIKOLATEV, Yu.A., inzhener; ZH.GULOV, A.M., inzhener.

Mobile platform used in harvesting cabbage. Nauka ipered. v  
sel'khoz. 7 no.8:36-37 '57. (MIRA 10:9)

(Cabbage--Harvesting) (Farm equipment)

ZHIGUNOV, I.

The new life of Chukotka. Fin. SSSR, 22 no. 2:35-36 F '61.  
(MIRA 14:2)

1. Zaveduyushchiy Chukotskim okrfinotdelom Magadanskoy oblasti.  
(Chukchi National Area--Economic conditions)

ZHIGUNOV, P.S., red.; GRIGOR'YEV, Ye.P., red.; DEYEVA, V.M., tekhn.  
red.

[Northern reindeer breeding] Severnoe olenevodstvo. Izd. 2.,  
perer. Moskva, Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov,  
1961. 518 p. (MIRA 15:1)  
(Reindeer)



ZHIGUNOV, T.S.

26009 Zhigunov, T.S. Otkor I napravleniye Na Lecheniy V Sanatoriï Vcoruzhenrykh  
Sil. Voen.-Med. Zhurnal, 1948, No.6, S. 15-8.

SO: Letopis' Zhurnal Statey, NO. 30, Moscow, 1948

BERENSHTKYN, F. Ya.; ZHIGUNOVA, A.T.

Chromium effect on carbohydrate metabolism in rabbits. Dokl.  
AN BSSR 9 no. 5:337-339 My '65 (MIRA 19:1)

1. Vitebskiy veterinarnyy institut. Submitted March 30, 1964.

DAVYDOVA, N.I.; ZHIGUNOVA, I.A.; IGNAT'YEVA, L.A.; KOVNER, M.A.

Calculation and interpretation of the spectra of nonplanar vibrations in m-cresol, n-cresol, o-cresol and their deuteriosubstituted. Opt. i spektr. 18 no.6:1077-1079 Je '65.  
(MIRA 18:12)

SECRET  
EPALS: "C-1"

SECRET

L 2787-1A  
and that the intensity of the absorption bands are missing in the solid state  
and 1257 cm<sup>-1</sup> is

SUBMITTED: 22 1962

RMCI

AKHILOV, Yu., brigadir stolyarov; VOLODIN, M., rabotnik; BILIKOVA, Antonina;  
IVANOVA, N., shveya-motorichtka; HODIN, Ye., brigadir;  
ZHIGNEVA, L., udarnik kommunisticheskogo truda, broshyurovshchitsa  
(Moskva)

Program of our life and our bright future. Vest.prom. i khud.  
promys. 2 no.9:2-3 S '61. (ISSN 14:11)

1. Zerkal'naya fabrika No.2, Moskva (for Akhilov). 2. Garderobnaya  
kontora No.1, Moskva (for Volodin). 3. Shveynaya fabrika  
No.1, Moskva (for Ivanova). 4. Stalinskiy promyshlennyy  
kombinat, G. Mishkinov, M. P. P. S. S. S. R. (for Broder).  
(Communist Party of the Soviet Union--Congresses)

ZHIGUNOVA, N.I.; SAVINOV, G.S., inzh., red.; FRIGER, D.P., red. i sh. va;  
OVIRTS, V.L., tekhn. red.

[Using explosive energy in the manufacture of machinery;  
bibliographical index of literature] Primeneniye energii  
vzryva v mashinostroitel'nom proizvodstve: bibliograficheskiy  
ukazatel' literatury. Pod red. G.S. Savinova. Leningrad, 1961.  
31 p. (MIRA 14:12)

1. Leningradskiy Dom nauchno-tekhnicheskoy propagandy. Nauchno-  
tekhnicheskaya biblioteka.  
(Bibliography--Metalwork)  
(Bibliography--Explosives)



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