

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520004-7  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520004-7

DAVANKOV, A.B.; ZUBAKOVA, L.B.; GEROV, A.A.

Determination of the constants of copolymerization of 2-methyl-5-vinyl-  
pyridine with triethylene glycol dimethacrylate. Vysokom.soed. 6 no.2:  
237-240 F. '64. (MIRA 17:2)

1. Moskovskiy khimiko-tehnologicheskij institut imeni Mendeleeva.





DAVANKOV, A.B.; ZUBAKOVA, L.B.; ZVEGINTSEVA, G.B.

Complex formation with phenols and absorptive capacity of  
high molecular weight derivatives of pyridine. Zhur. prikl.  
khim. 35 no. 5:1133-1135 My '62. (NERA 15:5)  
(Pyridine) (Phenols)  
(Ion exchange resins)

ZUPAKOVA, L.B.; DAVANKOV, A.B.

Chemical conversions in granular 2-methyl-5-vinylpyridine-divinyl-  
benzene copolymers and other cross-linking agents. Trudy MEFTI  
no.29:99-107 '59. (MIRA 13:11)  
(Polymers) (Pyridine) (Benzene)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520004-7  
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ZUBAKOV, V. A.; KRASNOV, I. I.

Concerning V. I. Gromov, E. A. Vangengeim and K. V. Nikofova's  
article "Stages of the development of Quaternary mammalian fauna  
as a reflection of the evolutionary stages of the earth." Izv  
AN SSSR Ser geol 29 no. 5:103-107 My: '64. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut,  
Leningrad.



ZUBAKOV, V.D.

Optimum signal detection in the presence of correlated noise.  
Radiotekh. i elektron. 3 no.12:1441-1450 D '58.

(MIRA 11:12)

(Information theory)

PHASE I BOOK EXPLOITATION SOV/4035

Vaynshteyn, L.A., and V.D. Zubakov

Vydeleniye signalov na fone sluchaynykh pomekh (Signal Separation  
Against a Background of Random Interference) Moscow, Izd-vo  
"Sovetskoye radio," 1960. 446 p. Errata slip inserted. No. of  
copies printed not given.

Ed.: N.D. Ivanushko; Tech. Ed.: A.A. Sveshnikov.

PURPOSE: This monograph is intended for physicists and engineers  
working with fluctuation noise and interference problems. It  
may also be used as a textbook by students and aspirants studying  
statistical radio physics, information theory, and random processes  
in radio devices.

COVERAGE: The monograph contains an exposition of statistical theory  
of optimal receivers which not only detect signals having various  
characteristics against a background of random noise, but also  
measure the parameters of such signals. The theory of linear

Signal Separation (Cont.)

SOV/4035

filters, filters which separate useful processes from interfering ones, is presented in the introduction. Major attention is paid to radar problems. The book also describes some new experiments carried out by the authors. Parts I and III and Ch. VII of Part II were written by L.A. Vaynshteyn. V.D. Zubakov wrote the rest of Part II except Ch. VIII, which was written jointly by both authors. The authors thank Yu.B. Kobzarev. There are 48 references: 29 Soviet (8 of which are translations), 18 English, and 1 German.

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Card 2/9

83701

Synthesis and Investigation of Highmolecular  
Tertiary Amines and Quaternary Ammonium Compounds  
on the Basis of the Copolymers of 2-Methyl-5-vinyl  
Pyridine With Various "Interlacing" Agents

S/ 90/00/002/006/006/012

B015/B064

obtained subjected to different physico-chemical tests (anion exchange, chemical stability, water absorption, swelling in organic solvents etc). On heating, or irradiating 2-methyl-5-vinyl pyridine with 0.4% of benzoyl peroxide only with a quartz lamp of the ПРК -2 (PRK-2) type, the reaction products obtained were only soluble in organic solvents. Copolymerization at 70-80°C (end at 100°C) and a duration of 4-5 h of 100 parts by weight of 2-methyl-5-vinyl pyridine and 4 parts by weight of divinyl benzene besides 0.4 parts by weight of benzoyl peroxide in suspension resulted in a solid copolymer, insoluble in organic solvents, with weakly alkaline character, and anion exchanger properties (Table 1). Alkylation was carried out in the same cylindrical glass reaction vessel as copolymerization, with benzyl chloride, para-toluene sulphomethylate, ethyl iodide and methyl iodide being used. Products of benzylation and methylation with para-toluene sulfo acid methyl ester had the highest capacity of exchange. The degree of alkylation rises with the reaction time. An action of strong acid solutions (5 N and 9 N HNO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>) and lyes (1 N and 9 N NaOH) upon the anion exchangers in the form of tertiary

Card 2/3

83701

Synthesis and Investigation of Highmolecular  
Tertiary Amines and Quaternary Ammonium Compounds S/190/60/002/006/006/012  
on the Basis of the Copolymers of 2-Methyl-5-vinyl B015/3064  
Pyridine With Various "Interlacing" Agents

amines was found to cause no reduction or their static and dynamic  
exchange capacity with respect to 0.1 N HCl (Table 2). The exchangers  
have a high absorptive power for phenol from aqueous solutions and a good  
exchange capacity for silver cyanide complexes. There are 1 figure, 2  
tables, and 9 references: 7 Soviet and 2 US.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut in.  
D. I. Mendeleeva (Moscow Institute of Chemical Technology  
imeni D. I. Mendeleev) X

SUBMITTED: February 19, 1960

DAVANKOV, A.B.; ZUBAKOVA, L.B.; SHABANOVA, N.A.

Extraction of nitrophenols from aqueous solutions by anion exchange  
resins. Zhur. prikl. khim. 34 no.2:403-407 F '61. (MIRA 14#2)  
(Phenols) (Ion exchange)

DAVANKOV, A.B.; ZUBAKOVA, L.B.

Synthesis and study of high molecular weight tertiary amines and quaternary ammonium compounds based on the copolymers of 2-methyl-5-vinylpyridine with various "cross-linking" agents. Vysokom.sped. 2 no.6:884-890 Je '60. (MIRA 13:6)

1. Moskovskiy khimiko-tekhnologicheskoy institut imeni D.I.Mendele-yeva.

(Amines)

(Ammonium compounds)

(Pyridine)

ZVEGINTSEVA, G.B.; GINZBURG, B.G.; KORCHILOVA, Ye.Ya.; DAVYLOVA, Z.I.;  
DAVANKOV, A.B.; ZUBAKOVA, L.B.

Recovery of phenol from sulfate liquor wastes of a phenol  
sulfuration plant by means of pyridine-containing anion  
exchangers. Zhur. prikl. khim. 38 no.5:1102-1105 My '65.  
(MIRA 18:11)



ZUBAL', A.V.; GRATSANOVA, Ye.A.

Diagnostic significance of determining the activity of serum  
adolase in epidemic hepatitis; an abstract. Lab. delo. no.1:  
22 '65. (MIRA 18:1)

1. Kafedra infektsionnykh bolezney (zaveduyushchiy - dotsent  
V.A. Matsiyevskiy) Ivano-Frankovskogo meditsinskogo instituta  
i Ivano-Frankovskoy oblastnoy sanitarno-epidemiologicheskoy  
stantsii (glavnyy vrach A.B. Petrushevskiy).

ZUBAL, B.

Machinery for sewage and water treatment plants. p. 25

CZECHOSLOVAK HEAVY INDUSTRY. (Ceskoslovenska obchodni komora) Prague,  
Czechoslovakia. No. 5, 1959

Monthly List of East European Accessions (EFAI), LC, Vol. 8, No. 7, July 1959  
Uncl.

ZUBALEWICZ, Z.

"Electroacoustic Installation in Ships." p.248  
(TECHNIKA I GOSPODARKA MORSKA Vol. 3, no. 7, July 1953 Gdansk, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

MOROZOVA, A.N., prof.; ZUBALOVA, S.I.

Work of the Dnepropetrovsk Society of Pathoanatomists from December  
1955 to December 1957. Arkh.pat. 21 no.3:89-92 '59. (MIRA 12:12)

1. Predsedatel' Dnepropetrovskogo obshchestva patologoanatomov (for  
(Morozova). 2. Sekretar' Dnepropetrovskogo obshchestva patologoanato-  
mov (for Zubalova).

(DNEPROPETROVSK--PATHOANATOMICAL SOCIETIES)

ZUBALOVA, S. I.

"The Histogenesis of the Connecting Arteries of the Human Plerua."  
Cand Med Sci, Dnepropetrovsk State Medical Inst, Dnepropetrovsk U.S.S.R.  
(KL, No 1, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical  
Dissertation Defended at USSR Higher Educational Institutions.  
(1h)

CHUDINOV, Boris Stepanovich; TYURIKOV, Fedor Timofeyevich; ZUBAK',  
Petr Yefimovich; BASKAKOV, Ye.D., red.

[Larch wood and its processing] Drevesina listvennitsy i  
ee obrabotka. Morskva, Lesnaia promyshlennost', 1965, 143 p.  
(MIRA 18:5)

KOMKOV, N.S.; ZUBANOV, A.G.

Determining the aerodynamic characteristics of ventilation systems  
by the electrical modeling method. Vop. bezop. v ugol'. shakh. 4:45-  
49 '64. (MIRA 18:1)

USSR/Geophysics - Prospecting

May/June 51

"Electrical Profiling Over an Inclined Contact,"  
Ts. Ya. Berel'kovskiy, B. G. Zubanov

"Iz Ak Nauk SSSR, Ser Geofiz" No 3, pp 16-30

Establishes linear relations among potentials of the fld which is excited by point source of const current over inclined contact ( $45^{\circ}$ - $30^{\circ}$ ) at given point of observation for various positions of source relative to line of contact. Evaluates series which det potentials. Derives approx formulas for potentials and gives graphic data on calcul of the fld. Submitted 5 Jan 51 by Acad O. Yu. Shmidt.

186740



Effect of the axial channel in working rolls on the elastic  
deformation of four-high rolling mill rolls. Stal' 25 no. 5:  
435-437 My '65. (MIRA 18:6)

I. Moskovskiy institut stali i splavov.

- 2. USSR (600)
- 4. Cork Industry
- 7. Testing composition corks, Vin. SSSR 13 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

MUSATOV, Tikhon Pavlovich, inzh.; ZUBANOV, K.V., inzh., retsenzent;  
TKACHENKO, L.N., inzh., red.izd-va; MATUSEVICH, S.M.,  
tekh. red.

[Operation of substations containing remote control systems]  
Ekspluatatsiia telemekhanizirovannykh podstantsii; opyt  
"Donbassenergo" Kiev, Gostekhizdat USSR, 1963. 22 p.

(Electric substations) (Remote control) (MIRA 16:10)

AVTONOMOV, B.V.; BONDAREV, I.I.; BORISENKO, P.I.; BURLAKA, S.A.; VESELOV,  
N.D.; ZUBANOV, K.V.; KLIMENKO, G.A.; KOTILEVSKIY, D.G.; KUDISH,  
A.D.; LAVRENEENKO, K.D.; MALYUTIN, N.P.; MARINOV, A.M.;  
MOLOKANOV, S.I.; PLOGATYREV, A.A.; POBEGAYLO, K.M.; POGAYEVSKIY,  
V.L.; SAVINYKH, A.I.; SAFOZHNIKOV, F.V.; SERDYUKOV, N.P.;  
FINOGENOV, Ya.I.; CHALDRANYAN, V.P.; CHULKOV, Ye.I.; SHAMIN, V.P.;  
SHISHOV, V.V.

Ivan Konstantinovich Khivrenko; obituary. Elek.sta. 34 no.2:96  
P '63. (MIRA 16:4)  
(Khivrenko, Ivan Konstantinovich, 1899-1962)

USSR/Electricity - Personalities

Nov 51

"Professor A. V. Orlovskiy (His 50th Birthday and 25 Years of Pedagogical and Public Activity)" Prof A. D. Kostarenko, Corr Mem, Acad Sci Ukrainian SSR, Prof I. H. Ordon, Dr Tech Sci, Docent V. G. Kholmichy, Cand Tech Sci, K. V. Shcheglov, Chief Engr, Kiev-ergo, Yu. V. Kartachevskiy, Chief Engr, Glavenergo MREU, Ukrainian SSR, A. S. Parascov, Dir, Kiev Heat and Power Sta, A. A. Bayko, Engr

"Elektrichstvo" No 11, p 91

Orlovskiy has been head of the Chair of Central Elec Power Stations, Kiev Polytech Inst since 1937, and Dean of the Elec Engineering Faculty of the latter institute since 1944. At present, he is directing work in the Kiev Polytech Inst on the problem of generating reactive power in mercury-converter units. Orlovskiy has trained more than 1,500 elec engineers.

201768

ZUBANOV, M.P. [deceased]

DECEASED

Some problems in the mechanics of planetary-type of  
polyfrequency vibrators. Trudy LPI no.219:11-19 '62.

(Vibrators)

(MIRA 15:12)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520004-7"  
ZURANOV, M.P.; KHARKHUT, N.Ya., doktor tekhn. nauk, red.

[Vibrators for compacting concrete mixes and soils]  
Vibratsionnye mashiny dlia uplotneniia betonrykh sme-  
sei i grunta. 2. izd. ispr. i dop. Moskva, Izd-vo  
"Mashinostroenie," 1964. 195 p. (MIRA 17:6)

ZUBANOV, M. P.

PHASE I  
BOOK

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 307 - I

Call No.: TF320.K37

Authors: POLYAROV, V. S., KUDRYAVTSEV, V. N., ZUBANOV, M. P.,  
ANOSOV, A. S., BARBASH, I. D., MYAGKOV, V. D.

Full Title: MACHINE ELEMENTS

Transliterated Title: Detali Mashin

Publishing Data

Originating Agency: None

Publishing House: State Publishing House for Machine Building and Shipbuilding  
Literature (Mashgiz)

Date: 1954

No. pp.: 720

No. of copies: 50,000

Editorial Staff

Editors: Golovanof, M. P., Kandidat of Technical  
Sciences

Fadeyev, N. K., Dotsent, Kandidat of  
Technical Sciences

Editor-in-Chief: Kolchin, N. I., Professor,  
Doctor of Technical Sciences

Others: None

Tech. Ed.: None

Appraisers: Spitsyn, N. A.,  
Professor, Doctor of  
Technical Sciences

Members of the chain of  
"Machina Elements" of the  
Moscow Higher Technical  
School, and of the Leningrad  
Military-Mechanical Institute

Text Data

Coverage: This book gives basic information on the calculation and design of  
machine elements, mechanical transmissions, and reducers. It consists



Detali Machin

AID 307 - I

of the teaching material used for lectures in the Leningrad Poly-  
technical Institute im. Kalinin, M. I., and in other Universities in  
Leningrad. It is divided into four parts. Each of these parts is  
provided with separate listings of bibliography and sources.  
Diagrams, graphs, tables, etc.

This is a good textbook; however, nothing new or original could be found  
in it.

25(2)

PHASE I BOOK EXPLOITATION

SOV/2102

Zubanov, Mikhail Prokof'yevich, Candidate of Technical Sciences, Docent

Vibratsionnyye mashiny dlya uplotneniya betonnykh smesey i grunta  
(Vibratory Machines for Compacting Concrete Mixes and Soil) Moscow,  
Mashgiz, 1959. 218 p. Errata slip inserted. 2,000 copies printed.

Reviewer: V.G. Klement'yev, Engineer; Ed.: L.Ye. Podborskiy, Engineer;  
Ed. of Publishing House: G.A. Dudusova; Tech. Ed.: L.V. Sokolova;  
Managing Ed. for Literature on the Design and Operation of Machines  
(Leningrad Division, Mashgiz): F.I. Fetisov, Engineer.

**PURPOSE:** This book is intended for production engineers and for scientific and technical personnel at design offices of industrial plants and research institutes engaged in the designing and production of vibratory machines.

**COVERAGE:** The book presents the elements of the theory of compaction by vibratory machines. Experience gained in the use of shallow and deep vibratory machines is summarized. Recommendations are given for eliminating individual defects of machines. Questions on the theory of vibratory machines are elucidated, and optimum

Card 1/5

Vibratory Machines (Cont.)

SOV/2102

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Vibratory Machines (Cont.)

SOV/2102

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SOV2102

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GO/sfm  
8-13-59

ZUBANOV, V.A.; VOSTROKNUTOV, Ye.G. Primali uchastnye: RUDENKO, G.V.;  
SHMIGIROVSKAYA, K.S.

Development of efficient vulcanization conditions in the recapping  
of automobile tires. Kauch. i rez. 24 no.6:25-29 Ju '65.

(MIRA 18:7)

1. Nevinnomysskiy shinosstanovitel'nyy zavod i Nauchno-issledova-  
tel'skiy institut shinnoy promyshlennosti.

LYUBICH, Mikhail Galileyevich, kand. tekhn. nauk; LEV, M.V.,  
retsenzent; ZUBANOVA, L.P., spets. red.; CHUGREYKVA, V.N.,  
red.; TRISHINA, L.A., tekhn. red.

[Hygienic characteristics of footwear and ways of their  
improvement]Gigienicheskie svoistva obuvi i puti ikh uluch-  
sheniia; iz tsikla lektsii dlia zaochnykh kursov po novoi  
tekhnikе i progressivnoi tekhnologii obuvnogo proizvodstva.  
Moskva, Rostekhizdat, 1962. 69 p. (MIRA 15:12)  
(Shoe manufacture)

ZUBANOVIC, M. ; PEKORARI, M.

Directing artillery fire for protecting tank units. p.11

VOJNI GLASNIK. (Jugoslavenska narodna armija) Beograd, Yugoslavia  
Vol. 9, no. 8, Aug. 1955

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, Sept. 1959

Uncl.



KAGAN, Ya.I., kand.fiz.-mat.nauk; KOVALENKO, A.D., inzh.; ZHARKIKH, V.Z., inzh.;  
BOGDAKOV, O.I., inzh.; ZUBAR', V.P., inzh.; D'YAKONENKO, V.S., inzh.

Automatic measurement of shaft diameters during grinding. Vest.uash.  
38 no.10:58-59 0 '58. (MIRA 11:11)  
(Thickness measurement)

GRATSIANSKIY, V.P., prof. [deceased] (Kalinin (obl.), ul. Spartaka, d.113,  
kv.53); ZUBARCHUK, S.K.

Local functional plane reconstruction of the patella. Ortop.  
travm. protez. 24 no.7:59 JI'63 (MIRA 17:2)

1. Iz Leningradskogo instituta khirurgicheskogo...  
(dir. - prof. D.K.Khokhlov) i Leningradskogo garnizonnogo gospi-  
talya (nachal'nik - D.I.Kopytev).

**KAYUKOV, G.; ZUBAREV, A.**

~~SECRET~~  
New developments in the desing of ZIL-158 motorbuses. Avt.transp. 37  
no.1:40-42 Ja '59. (MIRA 12:2)  
(Motorbuses--Design and construction)

KAYUKOV, G.; ZUHAREV, A.

Door-control mechanism of the ZIL-158 motorbuses. Avt. transp. 36  
no.10:34-35 0 '58. (MIRA 13:1)  
(Motorbuses--Apparatus and supplies)

KAYUKOV, G.; ZUBAREV, A.

Glass-frame risers of the ZIL-motortrucks. Art.transp. 38  
no.3:41 Mr '60. (MIRA 13:6)  
(Motortrucks--Windows and windshields)

KUZNETSOV, S., inzh.; ZUBAREV, A., inzh.

Small winch of the ZIL-157 automobile. Avt. tranup. 37 no.4:  
38-40 Ap '59. (MIRA 12:6)  
(Winches)

GOL'DBERG, G., inzh.; ZUBAREV, A., inzh.

The ST130 remote controlled starter. Avt. transp. 41 no.8:  
40-42 Ag '63. (MIRA 16:11)

ZURAREV, A., inzhener.

A useful manual for drivers and mechanics ("Tuning instructions for ZIS-150 and ZIS-151 trucks." G.I.Volkov. Reviewed by A. Zubarev). Avt.transp.33 no.1:40-p.3 of cover. Ja'55. (MLRA 8:3)  
(Volkov, G.I.) (Motor trucks--Engines)



ZURAREV, A.; SOSKOV, B.

Interchangeability of units of the ZIL-164 and ZIL-150 motortrucks.  
Avto transp. 36 no.9:32-35 S '58. (MIRA 11:10)

1. Moskovskiy zavod imeni Likhacheva.  
(Interchangeable mechanisms) (Motortrucks)

Zubarev, A. (Exchange of Experience) Regulation of the cost of returned materials in construction work. P. 59

SO: Herald of Statistics (Vestnik), No.2, 1951

ZUBAREV, A.; KOMOV, A.

The ZIL-166A gas-bag motortruck. Avt.transp. 38  
no.8:38-43 Ag '60. (MIRA 13:8)  
(Motortrucks)

ZUBAREV, A., inzh.

Aids for the study of the ZIL-157 motortruck. Avt.transp. 38  
no.6:51-52 Je '60. (MIRA 14:4)

1. Moskovskiy avtozavod im. Likhacheva.  
(Motortrucks)

ZUBAREV, A., inzh.

Engines for new ZIL motortrucks. Avt.transp. 39 no.1:36-41 Ja '61.

(MIRA 14:3)

(Motortrucks—Engines)

POPOV, F., inzh.; ZHUKOV, S.; ZUBAREV, A., преподаvatel';  
SHUMAKHER, L.

Readers' letters. Sel'. stroi no.9:29 S '62. (MIRA 15:10)

1. Buyskiy sel'skokhozyaystvennyy tekhnikum (for Zubarev).
2. Glavnyy inzh. masterskoy No. 4 Gosudarstvennogo instituta proyektirovaniya sel'skogo stroitel'stva (for Shumakher).

(Construction industry)

GOL'DBERG, G.; ZUBAREV, A.

Electrical equipment for the ZIL-130 motor vehicle. Avt.transp.  
41 no.2:44-47 F '63. (MIRA 16:2)  
(Motor vehicles--Electric equipment)

OSTROUMOV, L.; ZUBAREV, A.

Compressors for the brake system of the ZIL-130 motortrucks.  
Av. transp. 40 no. 7:41-44 JI '62. (MIRA 15:8)  
(Motortrucks---Brakes)



ALEKSANDROV, B.; ZUBAREV, A.; MARTSEV, S.; BAGIROV, M.

Readers' letters. Sel'. stroi. no.12:26 D '62.  
(MIRA 16:1)

1. Nachal'nik Mordovskogo upravleniya Sel'elektrostroy (for Aleksandrov). 2. Sotrudnik Zernogradskoy mezhrayonnoy gazety "Mayak" Rostovskoy obl. (for Martsev). 3. Vneshtatnyy korrespondent zhurnala "Sel'skiye stroitel'stvo" (for Bagirov).

(Construction industry)



APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520004-7  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520004-7

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

Engine-cooling system of the ZIL-130 motortruck. Avt. transp.  
41 no.9:45-47 S '63. (MIRA 16:10)

1. ZUBAREV, A.
2. USSR (600)
4. Construction Industry - Accounting
7. Work practice in organizing annual and current reports in capital construction.  
Vest.stat., no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

**KURAYEV, A.; ZUBAREV, A.**

The ZIL-157 high-roadability three-axle motortruck, Avt. transp. 36  
no. 11:37-41 N '58. (MIRA 11:11)  
(Motortrucks)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520004-7  
KUZNETSOV, Sergey Ivanovich; ZUBAREV, Aleksey Afanas'yevich; KURAYEV,  
Aleksandr Vasil'yevich; PANFILOV, Vladimir Trofimovich;  
KOSOROTOV, B.V., inzh.-polkovnik zapasa, red.; HOKOLOVA, G.F.,  
tekhn. red.

[ZIL motortruck] Gruzovye avtomobili ZIL. Moskva, Voenizdat,  
1962. 495 p. (MIRA 15:6)

(Motortrucks)

ZHURAVLEV, L.T.; ZUBAREV, A.F.; POLYAKOV, A.L.; TITOV, L.N.

Electrical manometer continuously recording low gas and vapor pressures. Zhur. fiz. khim. 39 no. 1:236-239 Ja '65  
(MIRA 19:1)

1. Institut fizicheskoy khimii AN SSSR i Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Submitted September 4, 1963.



ZUBAREV, Aleksey Afanas'yevich; BARANOV, A.Ya., red.; GALAKTICNOVA,  
Ye.N., tekhn. red.

[Manual for storage battery maintenance personnel] Pamiatka  
akkumuliatorshekiku. Moskva, Avtoransizdat, 1963. 42 p.  
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(Storage batteries--Safety measures)

ZUBAREV, A.A., inzh.; BARANOV, A.Ya., ved. red.

[Handbook for the mechanic on engine testing] Fenieta  
slesariu po ispytaniu dvigatelei. Moskva, Transport,  
1964. 41 p. (MIRA 17:6)

ZUBAREV, Aleksey Afanas'yevich; BARANOV, A.Ya., red.

[Adjustment of the ZIL-130 motortruck" regulirovka  
avtomobilia ZIL-130. Izd.2., perer. dop. Moskva,  
Transport, 1964. 86 p. (MIRA 17:6)

ZUBAREV, Aleksey Afanas'yevich; VINOKUROV, V.M., inzh., ratsenent;  
GRINBERG, P.I., red.; GALAKTIONOVA, Ye.N., tekhn. rad.

[Adjustment of the ZIL-130 motortruck] Regulirovka avtomobilia  
ZIL-130. Moskva, Avtotransizdat, 1962. 87 p. (MIRA 15:9)  
(Motortrucks)

ZUBAREV, A.D.; BRYANSEVA, Yu.V.

Controlling formation of sponge polymer in synthetic rubber manufacture.  
Kauch. i rez. 16 no.2:33-35 F '57. (MIRA 12:3)

1. Voronezhskiy zavod sinteticheskogo kauchuka imeni S.M. Kirova.  
(Rubber, Synthetic)

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ZUBAREV, A.G.

Crown packing for electric arc furnaces. Metallurg 6  
no.12:19-20 D '61. (MIRA 14:11)

1. Novolipetskiy metallurgicheskiy zavod.  
(Electric furnaces)

S/133/62/000/005/004/008  
A054/A127

AUTHORS: Itskovich, G.M., Engineer, Zubarev, A.G., Engineer, Gankin, V.B.,  
Engineer, Petrichenko, D.P., Engineer, and Gankin, V.Ya., Engineer

TITLE: The smelting of rimming steel in 80-ton electric furnaces with con-  
tinuous pouring

PERIODICAL: Stal', no. 5, 1962, 420 - 425

TEXT: The industrial-scale electric smelting of rimming steel is carried out in furnaces with a rated capacity of 80 tons and an actual capacity of 90 - 95 tons, (transformer capacity: 25,000 kW, electrode-diameter: 555 mm, depth of the bath: 1000 mm). Tests have shown that one of the most important conditions of this process is the oxidation of the metal before tapping which determines its uniform rimming in the ingot mold. The oxygen quantity involved in the process depends mainly on the carbon content of the metal and the ferric oxide content of the slag. This, in turn, is conditioned by the quantity of ore added to the charge and the basicity of the slag. For slags with a basicity of 3.0 - 5.0 and at metal temperatures of 1635 - 1645°C, the average value of  $FeO_{total}$  was 24.1%;

[Abstracter's note: subscript total is the translation of the Russian subscript  
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The smelting of.....

обжиг - (obshchiy)], at temperatures above 1660°C: 18.2%. To obtain the required oxidation during rimming of the metal three methods were used: a) adding ore, b) with oxygen and ore, c) with oxygen alone. Generally method b) is applied, ensuring quick heating of the bath, a higher oxidation rate of carbon (0.25 - 1.0% C per hour) and a ferric oxide content of the slag of 20.3%. The optimum metal temperature at the beginning of oxygen blowing was found by tests to be 1,570 - 1,580°C. The optimum degree of metal oxidation ensuring a uniform rimming in the mold, can be obtained when the slag contains 15 - 23% FeO<sub>total</sub> before reduction. Oxidation and rimming can be promoted by adding 50 - 200 g/ton aluminum in the ladle, depending on the carbon content and oxidation of the slag. Desulfuration of the metal takes place most intensively (before slag tapping) at a slag basicity of 2.5 - 3.0. In this case it will be 0.011% of the smelt (average value). When electro-smelting of rimming steel is combined with continuous pouring, the charge must be composed so that the carbon content of the smelting metal is 0.10 - 0.20% higher than prescribed for the given grade. The charge usually consists of 80 tons iron-steel scrap, 5 tons scrap and waste from the converting shops and 5 tons pig iron; the first batch (55 - 65% of the charge) is molten in 1 - 1.5 hours, then 1.5 - 2.5% ore is added to obtain a 13 - 20% FeO<sub>total</sub> content of the slag, then lime or limestone (4 - 5% or 7 - 8% respective-

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The smelting of.....

ly) is added to get a slag basicity of 2.5 - 3.0. Pig iron stabilizes the carbon content during smelting and improves desulfuration at the beginning of rinning. Oxygen (98.5 - 99.2% pure) is blown through the bath twice, for 8 - 15 minutes, at a pressure of 10 - 13 atm. The average oxygen consumption per smelt is 3 - 8 m<sup>3</sup>/ton. The temperature upon the first oxygen blowing should be over 1560°C, before the second blowing over 1580°C, to prevent over-oxidation of the metal. The composition of steel grades produced by the method is: (in %)

	C	Mn	S	P
Ст.3кп (St.3kp)	0.17	0.40	0.040	0.022
Ст.2кп (St.2kp)	0.11	0.40	0.034	0.012
Ст.1кп (St.1kp)	0.09	0.35	0.035	0.011

Continuous pouring is carried out with double-channel, vertical type equipment, for casting 150 x 620, 150 x 780 and 170 x 1040 mm ingots. Close attention was paid to the ladle-spout lining. The best results were obtained by using for the ladle and intermittent ladle casings with a high aluminum oxide content, which last longer and ensure a controlled flow of a quantity of 90 tons of molten steel. The pouring rates are: for 150 x 620 mm ingots 0.3 - 0.9 m/min, for 150 x 780 mm ingots 0.7 - 0.8 m/min and for 170 x 1040 mm ingots 0.5 - 0.6 m/min. Pouring 90 tons of metal through two channels requires 65 - 70 minutes. The rate of

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pouring is limited by the shortness of the secondary cooling sector (6.5m), where the metal solidifies. The rimming of the steel in the mold, in case of medium-carbon grades, can be promoted by adding aluminum, in the case of medium-carbon grades by blowing oxygen into the metal stream after the intermittent ladle. The macrostructure of continuously poured, electro-smelted steels was studied with 110 templates taken from 67 heats. Due to the low iron content and inadequate addition of aluminum in the ladle, the metal with a carbon content above 0.13% rims weakly in the mold and much too thin a skin forms. In this case, blowing oxygen will intensify rimming and a normal skin, 10 - 25 mm thick, will be obtained. Other defects often encountered in this kind of ingots are blisters in the skin, 0.5 - 3.0 mm in diameter, at a depth of 1 - 5 mm below the surface, and also beads and lateral and longitudinal cracks. Lateral cracks can be prevented by closely controlling the metal oxidation and improving the mold-coating. Longitudinal cracks are less frequent, mainly owing to the delayed shrinkage of the thinned sectors of the solidifying skin in the mold. Rimming steel ingots are hot-rolled on the 1200-mm mill, with universal roughing, two-high stand and reversing-finishing four-high stand, with coils heated in the furnace. To promote the sintering of gas-blisters, the reductions are increased (170 x 1040 mm slabs are reduced with 9 passes instead of 11, 150 x 620 mm slabs with 5 passes instead of 7).

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The smelting of .....

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The slab-heating temperature was raised from 1260 - 1270 to 1280 - 1310°C. Sheets, 13 - 14 mm and 2 - 3 mm thick are rolled from these slabs. At the "Zaporozhstal" Plant the rate of consumption of the metal charge was 1.262 ton/ton of flawless product in 1960; for the new process this parameter was 1.127 - 1.135 ton/ton of flawless product. Smelting time was reduced to 4 1/2 hours; the electric power required is 500 - 550 kW-h/ton of flawless steel. The application of minimum 80-ton capacity electric furnaces and continuous pouring is advisable where cheap open-hearth scrap and electric power are available. This increases production by 8 - 12% with a minimum capital outlay. There are 3 figures. The reference to the English-language publication reads as follows: Reinartz, L., Barnes, H., Iron and Steel Engineer, no. 1, 1954.

Card 5/5

POPOV, D.I.; ZUBAREV, A.G.

Analysis of the technical and economic indices of the performance  
of continuous steel pouring installations. Stal' 23 no.8:  
752-754 Ag '63. (MIRA 1619)  
(Continuous casting) (Electrometallurgy)



KATOMIN, B.N.; CHIGRINOV, M.G.; KANAREYKIN, N.F.; ZUBAREV, A.G.

Practice of continuous pouring of killed carbon steel in wide  
slabs. Metallurg 9 no.2:12-14 F '64. (MIRA 17:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallur-  
gii im. I.P.Bardina i Novolipetskiy metallurgicheskiy zavod.

SOKOLOV, G.A.; ZUYEV, I.M.; LOBANOV, V.V.; ZUBAREV, A.G.; KLEMA SHIN, P.S.

Treatment of converter and open-hearth steel with electric furnace  
slag. Stal' 24 no.7:612 J1 '64. (MIRA 18:1)

1. Moskovskiy institut stali i splavov i Novolipetskiy metallur-  
gicheskiy zavod.

PAKHOMOV, A.I.; AGEYEV, P.Ya.; ZUBAREV, A.G.; BARVINSKIY, S.V.

Changing the content of gases in the making of transformer steel.  
Metallurg 10 no.7:23-24. 01 '65. (RIFA 18:7)

OYKS, G.N.; SOKOLOV, G.A.; ZUYEV, I.M.; PETROV, V.K.; ZUBAREV, A.G.;  
KLIMASHIN, P.S.

Treatment of liquid transformer steel in the ladle. Stal'  
25 no.8:711-715 Ag '65. (MIRA 18:8)

ZUBAREV, A.G.

Use of two-layer stopper tubes in steel-pouring ladles with  
vacuum treatment of the steel before continuous casting.

Ogneupory 29 no.10:442-444 '64.

(MIRA 18:7)

1. Novolipetskiy metallurgicheskiy zavod.

MUSIN, Gn. [deceased]; OSIPOVSKIY, L. P.; SARAFANNIKOV, L.A.;  
ZUBAREV, A.I.

Equipment and methods for studying the operating parameters  
of boring machinery. Trudy Inst. gor. dela AN Kazakh. SSR  
13:15-27 '64. (MIRA 17:7)

OSIPOVSKIY, I.F.; ZUBAREV, A.I.; SHIPOV, S.V.; SARAFANNIKOV, L.A.;  
YURCHENKO, V.A.

Drilling deep small-diameter boreholes, using a rock drill  
with independent rotation of the bit. Trudy Inst. gor. dela  
AN Kazakh. SSR 13:28-32 '64. (MIRA 17:7)

RUTES, V.S.; ZUBAREV, A.I.

Steel pouring and intermediate ladles in a continuous steel-casting  
plant. Ogneupory 28 no.2:78-84 '63. (MIRA 16:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Rutes). 2. Novolipetskiy metallurgicheskiy zavod (for Zubarev).  
(Continuous casing—Equipment and supplies)  
(Refractory materials)



Potatoes

Planting potatoes in the summer. Dost. sel'khoz., No. 7, 1952.

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

Potatoes

Greater attention to summer planting of potatoes. Sov. agron. 10. no. 7, 1952

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

ZUBAREV, A. K.

ZUBAREV, A. K. (Editor) The Rusts of Cereal Crops (Works of the  
First All Union Conference on the Control Of Cereal Rusts 1937).  
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(Not in USDA Library)

So: Sira - SI-90-53, 15 Dec. 1953

**ZUBAREV, A.P., prepodavatel'.**

**Problem of electrotechnical terminology. Prom.energ. 10 no.5:29 My '53.  
(MLBA 6:5)**

**1. Tomskiy Ordena Trudovogo Krasnogo Znameni politekhnicheskii institut  
im. S.M. Kirova. (Electric engineering--Terminology)**

ZUBAREV, A.P., starshiy prepodavatel'.

Limitation of capacitive short-circuit ground currents in high-voltage electric networks installed in mines. Ugol' 29 no.4:28-29  
Ap '54. (MLRA 7:2)

1. Tomskiy politekhnicheskiy institut im. S.M.Kirova.  
(Electricity in mining)

ZUBAROV, A.P., inzh.

Oxidized aluminum wires for asynchronous electric motors. Elektroshtnika  
36 no.10:38-39 © 1965. (MIRA 18:10)

ZUBAREV, A. S., inzh.; TSAPKIN, A. I., inzh.

Underwater concreting in the construction of ferry crossings.  
Transp. stroi. 13 no.4:22-24 Ap '63. (MIRA 16:4)

(Underwater concrete construction)  
(Train ferries)

FEDOROV, V.S.; KOZODOV, A.K.; ZUBAREV, A.V.

Pressure losses in circulation openings and bit nozzles.

Izv. vys. ucheb. zav.; neft' i gaz 5 no.11:25-30 '62 .

(MIRA 17:6)

1. Groznenskiy neftyanoy institut.



SARKIS'YANTS, T. Kh.; ZUBAREV, A.V.; KULIGIN, N.A.; LOGHKAREV, X.I.

Single-cone bit. Mash. i nef't. oboz. no.383-6 '63 (MIRA 17:7)

1. Groznenskiy nef'tyanoy nauchno-issledovatel'skiy institut.

ZUBAREV, A. V. Capt.

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Dokl. AN SSSR, 23, No.2, 1939

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All-Union Inst. Exptl. Med.

KOZODOY, Aleksandr Konstantinovich; ZURAREV, Aleksandr Vasil'yevich;  
FEDOROV, Vasil'y Sergeevich; ISAYEVA, V.V., red. red.;  
POLOSINA, A.S., tekhn. red.

[Flushing wells in drilling] Promyvka skvazhin pri bureni.  
Moskva, Gostoptekhnizdat, 1963. 171 p. (MIRA 16:5)  
(Oil well drilling)

FEDOROV, V.S.; KOZODOY, A.K.; ZUBAHEV, A.V.

Selecting jetting drilling parameters and the size of nozzle for  
jet bits. Izv.vys.ucheb.zav.; neft i gaz 5 no.8:31-36 '62.  
(MIRA 17:3)

1. Groznenskiy neftyanoy institut i Groznenskiy nauchno-issledova-  
tel'skiy neftyanoy institut.