

PAVLOV, S. D.

"Prevention of animals against blood-sucking insects."

Veterinariya, Vol. 37, No. 6, 1960, p. 68

*Cand Vet Sci - All Union Sci Res Inst Vet Sanitary*

PAVLOV, S.D., kand. veter. nauk

Protecting animals from blood-sucking insects. Veterinaria  
37 no.6:68-70 Je '60. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy  
sanitarii.

(Insect baits and repellents)

PAVLOV, S.D., kand. veter. nauk

Comparative evaluation of chlorophos and DDT as means  
against warble fly infestation. Veterinaria 40 no.4:  
73-75 Ap '63. (MIRA 17:1)

ANDREYEV, K.P.; MITROPANOV, A.M.; PAVLOV, S.D.

Control of malarial mosquitoes through HBK (G-17) benzene hexachloride  
pots. Med.paraz. i paraz.bol.supplement to no.1:5 '57. (MIRA 11:1)

1. Iz Instituta veterinarnoy dermatologii Ministerstva sel'skogo  
khozynstva SSSR.

(BENZENE HEXACHORIDE)

(MOSQUITOES--EXTERMINATION)

PAVLOV, S.D., aspirant

Possibility of using DDT and benzene hexachloride in controlling  
bloodsucking diptera, parasitic on farm animals. Trudy VNIIVSE  
12:61-76 '57. (MIRA 11:12)

1. Laboratoriya entomologii i dezinfektsii Vsesoyuznogo nauchno-  
issledovatel'skogo institutaveterinarnoy sanitarii i ektoparazitologii.  
(DDT) (Benzene hexachloride) (Parasites)

PAVLOV, S.D.

Secretion of DDT in milk following the application of various  
forms of the preparation to the skin of cattle. Trudy VNIIVSE  
11:260-270 '57. (MIRA 11:12)  
(DDT) (MILK--ANALYSIS AND EXAMINATION)

PAVLOV, S. D., Cand Vet Sci -- (diss) "Application of DDT and GHTsG  
for combatting two-winged blood-sucking insects." (Moscow Veterinary  
Academy) 140 copies (HL, 56-57, 105)

CHALDYSHEV, V. A.; PAVLOV, S. D.

Structure of the electron energy spectrum in crystals with a NaCl type lattice. Izv. vys. uch. zav.; fiz. 3:35-37 '62.  
(MIRA 15:10)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V. V. Kuybysheva.

(Electrons—Spectra) (Crystal lattices)



USSR / Diseases of Farm Animals. Arachno-Entomosos.

R

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7489

Author : Pavlov, S. D.  
Inst : All-Union Scientific Research Institute of Veterinary  
Sanitation and Ectoparasitology

Title : Studying the Possibilities of Using DDT and HCCH  
[Hexachlorocyclohexane] for Combatting Dipterous  
Blood Sucking Insects, the Parasites of Farm Animals

Orig Pub : Tr. Vses. n.-i. in-ta vet. sanitarii i ektoparazitol.,  
1957, 61-76

Abstract : The use of a turpentine-croolin emulsion of DDT with  
HCCH (the method of preparation is described) is  
recommended for the mass treatment of cattle against  
infestation by dipterous insects. Such an emulsion  
possesses insecticidal as well as repelling properties  
and surpasses sprays, oil solutions and emulsions of

Card 1/2

USSR / Diseases of Farm Animals. Arachno-Entomosos.

R

Als Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7489

DDT and HCCH prepared on a creolin basis in its strength and the duration of its residual effect. As calves and cows were repeatedly sprayed with this emulsion, the clinical well-being of the animals, their blood indicators and hides were not negatively affected. The milk yields did not diminish, while the amount of DDT secreted with milk was 6 - 10 times smaller than when the cows were treated with an oil solution of DDT. The method of spraying grass and bush growing areas with DDT and HCCH in order to destroy dipterons was unsuccessful. -- A. F. Kukhto

Card 2/2

33

USSR / Diseases of Farm Animals. Arachno-Entomoses.  
Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7489

R

Author : Pavlov, S. D.  
Inst : All-Union Scientific Research Institute of Veterinary  
Sanitation and Ectoparasitology

Title : Studying the Possibilities of Using DDT and HCCH  
/Hexachlorocyclohexane/ for Combatting Dipterous  
Blood Sucking Insects, the Parasites of Farm Animals

Orig Pub : Tr. Vses. n.-i. in-ta vet. sanitarii i otkoparazitol.,  
1957, 61-76

Abstract : The use of a turpentine-croclin emulsion of DDT with  
HCCH (the method of preparation is described) is  
recommended for the mass treatment of cattle against  
infestation by dipterous insects. Such an emulsion  
possesses insecticidal as well as repelling properties  
and surpasses sprays, oil solutions and emulsions of

Card 1/2

USSR / Diseases of Farm Animals. Arachno-Entomoses.

Ats Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7489

R

DDT and HCCH prepared on a creolin basis in its strength and the duration of its residual effect. As calves and cows were repeatedly sprayed with this emulsion, the clinical well-being of the animals, their blood indicators and hides were not negatively affected. The milk yields did not diminish, while the amount of DDT secreted with milk was 6 - 10 times smaller than when the cows were treated with an oil solution of DDT. The method of spraying grass and bush growing areas with DDT and HCCH in order to destroy dipterons was unsuccessful. -- A. F. Kukhto

Card 2/2

S/139/62/000/003/004/021  
E039/E420

AUTHORS: Chaldyshev, V.A., Pavlov, S.D.

TITLE: Structure of the electron energy spectrum in crystals  
with a NaCl lattice

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Fizika,  
no.5, 1962, 35-37

TEXT: The possible dispersion laws near to different points in  
the Brillouin zones are investigated. The dependence of  $E(k)$   
in a quadratic approximation is studied by means of the usual  
method of perturbation theory of the second order, the well-known  
kp method. Results are given for a number of points neglecting  
the influence of spin-orbital interactions. One, two and three  
dimensional cases are considered. The change in structure is  
also investigated when the influence of spin-orbital  
interaction is taken into account.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskoy institut pri Tomskom  
gosuniversitete imeni V.V.Kuybysheva (Siberian Physico-  
Technical Institute at Tomsk State University imeni  
V.V.Kuybyshev)

SUBMITTED: April 18, 1961  
Card 1/1

PAVLOV, S.D.

Apparatus for insect trapping and contact with insecticides [with  
English summary in insert]. Zool.zhur.35 no.5:774-776 My '56.

(MLRA 9:9)

1.Otdel entomologii Gosudarstvennogo instituta veterinarnoy dermatologii  
Ministerstva sel'skogo khozyaystva SSSR.  
(Insect traps)

ANDREAS K. ...  
KROD. ...  
The GM ...  
no. ...  
D. ...  
SUN ...

L 18115-63

EWT(l)/EWP(q)/EWT(m)/BDS/ES(w)-2

AFFTC/ASD/ESD-3/IJP(C)/SSD

ACCESSION NR: AP3004501 Pab-l JD

S/0048/63/027/008/1060/1064

72  
69

AUTHOR: Lyubimov, A.P.; Pavlov, S.E.; Rakhovskiy, V.I.; Zaytseva, N.G.

TITLE: Procedure for measuring the ionization cross sections and ionization coefficients of metal atoms Report presented at the Second All-Union Conference on the Physics of Electronic and Atomic Collisions held in Uzhgorod 2-9 Oct 1962

SOURCE: AN SSSR, Izvestiya, ser.fiz., v.27, no.8, 1963, 1060-1064

II

TOPIC TAGS: ionization cross section , ionization coefficient , electron impact, Ag

ABSTRACT: Owing to the lack of reliable techniques for determining the ionization cross sections for metal ions - witness the minor number of experimental studies in the field - the present work was undertaken in order to develop a simple procedure for measuring ionization cross sections and ionization coefficients in electron impact. The basic experimental arrangement is diagramed in Fig.1 of the Enclosure. The atomic beam 1 of the investigated substance is ionized by the monoenergetic electron beam 2, perpendicular to it. The ions 3 formed as a result of impact are gathered by the collector 4. The ion current is amplified and measured by the electrometric amplifier 5. At the same time the non-ionized atoms also arrive at the

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L 18145-63  
ACCESSION NR: AP3004501

collector 4 and are condensed on it; the amount of the condensate is determined by weighing, chemical analysis or from the radioactivity if tagged atoms are used. The total ionization coefficient is equal to the ratio of ionized to non-ionized atoms. Straightforward equations for calculating ionization coefficients and ionization cross sections for N-fold ionization are derived in the paper. The actual experimental tube is diagramed and described, and a photograph of a circular collector with a deposit is reproduced. Silver was chosen for the trial experiments for the following reasons: Ag has a sufficiently high vapor pressure at the realizable temperature (1300°K); it can readily be obtained in 99.99% pure form and is easily out-gassed; it does not react with the crucible material; there exists the isotope  $Ag^{110}$  with a period of 225 days and conveniently detected  $\beta$  and  $\gamma$  radiations. Two experiments yielded values of  $2.08 \times 10^{-16}$  and  $1.73 \times 10^{-16}$  for the ionization cross section, and  $1.05 \times 10^{-8}$  and  $0.94 \times 10^{-8}$  for the ionization coefficient (accelerating potential 19 V,  $T = 980$  and  $1030^{\circ}C$ , respectively); these values agree within 40% with the results of calculations by the formulas of Tompson and H.W. Dravin (Z.Physik, 164, 513, 1961). The proposed procedure is deemed useful, but some suggestions for further improvements are made. "In conclusion, the authors express their gratitude to Z. I. Sinitsina for assistance in preparing the apparatus." Orig. art. has: 9 formulas, 3 figures and 1 table.

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I 18145-63  
ACCESSION NR: AP3004501

ASSOCIATION: Vsesoyuzni\*y elektrotekhnicheskiy institut im. V.I.Lenina (All-Union  
Electrical Engineering Institute)

SUBMITTED: OO

DATE ACQ: 26Aug63

ENCL: 01

SUB CODE: PH, SD

NO REF SOV: 002

OTHER: 006

Card 3/4

PAVLOV, S.F.

New data on Jurassic sediments in the south of the Turguzka  
Basin. Trudy Inst. zem. kory SO AN SSSR no. 15:43-57 '63  
(MIRA 17:2)

1. Institut zemnoy kory Sibirskogo otdeleniya AN SSSR.

LOPATINSKIY, V.P.; SIROTKINA, Ye.Ye.; ANOSOVA, M.M.; TIKHONOVA, L.G.; PAVLOV,  
S.F.

Chemistry of carbazole derivatives. Part 24: Synthesis of some 9-alkyl-  
carbazoles. Izv. TPI 126:58-61 '64. (MIRA 18:7)

L 32449-65 ENT(m)/EPF(c)/T Pr-4 DJ/WE

ACCESSION NR: AT4049521

S/2917/64/000/282/0014/0034

AUTHOR: Meylikhov, M. Ye. (Engineer); Mitrofanov, I. M. (Candidate of technical sciences); Pavlov, S. F. (Candidate of technical sciences); Sen-Zhelen, Ye. A. (Engineer)

TITLE: Results of field tests of the first Soviet G1-01 gas turbine locomotive

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodoro-zhnogo transporta. Trudy, no. 282, 1964. Rezul'taty issledovaniy gazoturbovoza G1-01 i lokomotivnykh gazoturbinnykh dvigateley (Results of research on the gas turbine locomotive G1-01 and locomotive gas turbine engines), 14-34

TOPIC TAGS: gas turbine, gas turbine locomotive, distillate fuel, gas turbine compressor, locomotive field test

ABSTRACT: The gas turbine locomotive discussed in this paper was manufactured by the Kolomenskiy teplovozostroitel'nyy zavod imeni V. V. Kuybysheva (Kolomna Diesel Plant) at the end of 1959. Only one section of a two-section freight gas-turbine locomotive was made. The wheel arrangement was 3<sub>0</sub>-3<sub>0</sub>; working weight 139.4 tons; turbine shaft h.p. 3,500; traction engine h.p. 2,700; calculated gas turbine speed 8,500 rpm; calculated gas temperature in front of the engine 727C; ratio of limiting compression pressures 6; number of compressor stages 12; number of turbine states 4; h.p. of 1D6N auxiliary engine 220; fuel reserve in kg: distillate fuel: ||

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ACCESSION NR: AT4049521

4

9,500 and diesel fuel 1,500; calculated speed 100 km/hr. Several test runs were made with trains weighing up to 2,000 tons. On the basis of adjustment tests a new engine was designed with higher casing rigidity which resulted in lower engine vibration. Engine No. 3 was replaced by this newly designed engine No. 4. Further tests were made between the stations of Kochetovka and Rybnoye with grades up to 8%, and then between Kochetovka and Pavelets. Operation showed that the gas turbine locomotive could undergo routine inspection and repairs in regular railroad repair shops. Repairs would be needed at the plant only when there are no special devices or spare parts and assemblies. The time lost for repairs was 60% of the total time of operation. The total number of runs was 90 with freight trains weighing up to 2,870 tons. The average speed was 50-53 km/hr. without any speed limitations along the road. The distillate fuel used in the engine had the following properties: density 0.917-0.924; viscosity at 50C 1.58-1.60; solidification point -7C to +3C; flash point 65-82C; content of sulfate tars 17-18%; content of admixtures 0.03-0.12%; ash content 0.0079-0.0086%; vanadium content 0.0009-.0027%; sulfur content 2.5-3%; calorific value 9,745-9,734 Cal/kg. Water was found in the fuel tank and was regularly drained, as the presence of water leads to the formation of harmful emulsions. The diesel fuel consumption was 2-10% (5.4% average) of the entire fuel consumption. Lubricant consumption was 0.2 g/ehp-hr, or 10-15% of that in diesel locomotives. In the winter (-20 to

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ACCESSION NR: AT4049521

0

+5C) the maximum horsepower of the gas turbine was 2,700-2,800 h.p. and 2,200-2,300 kW, while in the summer (up to +30C) the maximum h.p. was 2,500-2,600 and 1,900-2,000 kW. This is explained by limitation of engine power at temperatures above +15C. The performance curve (Fig. 1 of the Enclosure) depends on the DC drive installed on the G1-01 gas turbine locomotive. The locomotive was set at constant speed by manual adjustment of main generator excitation. As the gas turbine was tested the results became better at higher engine power. The power efficiency between Kochetovka and Rybnoye was 0.68-0.70. Increased experience of the locomotive engineer and team leads to improved operation, lower fuel consumption, etc. Thus, during the first few trips, the gas turbine was never shut off as the engineer was not sure whether he could start it again if required. Calculations and operational tests show that the weight of the freight train may be increased to 3,000-3,100 tons. Fuel consumption may be lowered by decreasing idling speed and by a sharp drop in gas turbine speed while the auxiliary diesel engine is running at idling speed. The field test data coincide with laboratory tests of the gas turbine in relation to speed and power, the same being true in relation to the compressor. Constant power of the generators may be obtained by adjusting the main generator excitation when the temperature changes from -20 to +25C. Distillate fuel has been approved as a standard petroleum fuel for gas turbine locomotive engines (GOST 10443-63). Several defects were eliminated during the field

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ACCESSION NR: AT4049521

tests, such as suction of exhaust gases into the compressor, the input air temperature being 5-10C higher than the outer air temperature, as well as compressor surge. Opening of the compressor after 46,000 km showed that the flow parts of the compressor were in good condition. Even before the governor was installed the engine could be started with ease. The main deficiency in the combustion chamber was smokey exhaust, with both distillate and diesel fuels. Fig. 2 of the Enclosure shows the revised design of the turbine vane fastening. Slide bearings resulted in lower vibration and they are to be installed on all new engines. The main fuel pump and circulation pump failed several times due to poor packings. The horse-power of the auxiliary diesel engine should be increased from the initial 150 h.p. to 300-400 h.p., instead of the reinstalled 220 auxiliary diesel engine. Finally, it is noted that the gas turbine locomotive engine ran satisfactorily. However, tests with only one locomotive are insufficient and several should be built with automatic governors and controls on the gas turbine for testing the entire system. Orig. art. has: 14 figures and 2 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta, Moscow (All-union railroad transport scientific research institute)

SUBMITTED: 00

ENCL: 02

SUB CODE: PR

NO REF SOV: 002

OTHER: 000

Card 4/6



L 32449-65  
ACCESSION NR: AT4049521

ENCLOSURE: 01

0

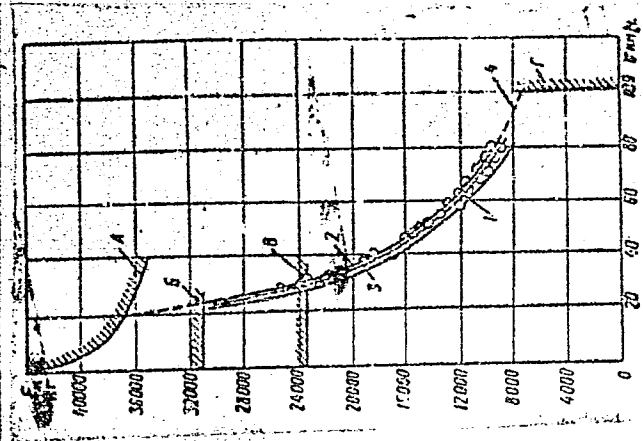


Fig. 1. Performance curve of CI-01 gas turbine locomotive at 8,500 rpm 1-spring-fall season; 2-winter season; 3-summer season; 4-"Elektro-tyazhmash" design; A-limitation for friction; B-the same for starting current; C-for long-time current; D-for calculated speed

Card 5/6

L 32449-65

ACCESSION NR: AT4049521

ENCLOSURE: 02

0

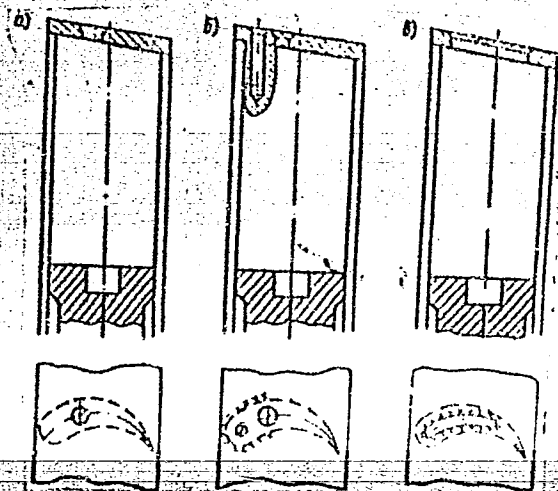


Fig. 2. Fastening of turbine vanes  
a-initial design;  
b-improved design;  
c-design worked out for future  
gas turbine engines

Card 6/6

PAVLOV, S.F., kand.tekhn.nauk; OKHOTNIKOV, S.S., inzh.

Special features of burning low-grade liquid fuels in uniflow  
combustion chambers. Trudy TSNII MPS no.241:133-140 '62.  
(MIRA 15:12)

(Gas turbines)

Mr. FRED A. ... MICH. PANOV, ...  
... ..

... ..  
... ..

PAVLOV, S.F.; VOLKOVA, K.P.

The Neryunda iron deposit. Geol.i geofiz. no.5:56-61 '62.

(MIRA 15:8)

1. Vostochno-Sibirskiy geologicheskoy institut Sibirskogo  
otdeleniya AN SSSR, Irkutsk.

(Neryunda Valley--Iron ores)

ACCESSION NR: AP5013379

UR/0207/65/000/002/0094/0096

AUTHORS: Beylina, G. M. (Moscow); Pavlov, S. I. (Moscow); Rakhovskiy, V. I. (Moscow); Sorokaletov, G. D.

30  
47  
B

TITLE: Measuring ionization function of metal atoms by electron impact

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1965, 94-96

TOPIC TAGS: electron impact, ionization, electron beam, atomic beam, ionization cross section/ U1 2 amplifier, ENO 1(S 1 4) oscillograph, MA 20 balance

ABSTRACT: A method is described for measuring the absolute ionization cross section of low vapor pressure metal atoms by electron impact. The apparatus used for this experiment is shown in Fig. 1 on the Enclosure where 1- neutral atom source, 2- atomic beam chopper, 3- electron beam, 4- neutral atom collector, 5- ion collector, 6- thermopile, 7- cooled collector for neutral atoms, 8- LM-2. The metal used was lead. An electrostatic selector was employed to make the electron beam monoenergetic. This was done successfully to within 0.35 ev electron energy. The ion current was measured by an electrometric amplifier U1-2 with an error of less than 8%. The ionization measurements were carried out from the threshold level up to 150 ev with a maximum ionization cross section of

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L 54008-65

ACCESSION NR: AP5013379

3

$8 \times 10^{-16} \text{ cm}^2$  at 55 ev. The ionization cross section was determined from the expression  $Q = I_e \cdot m b v / I_M$  where  $b$  is the atom beam width at the point of intersection with the electron beam,  $t$  is the evaporation time and  $m$  is the atomic mass. A special effort was made to measure the neutral atom concentration accurately, condensing them on a collector cooled by liquid nitrogen. "The authors express their deep gratitude to V. L. Granovskiy (deceased) for his help and advice. Thanks are also given to Z. I. Sinitsina and A. A. Mal'kov for preparing the apparatus." Orig. art. has: 3 figures and 1 equation.

ASSOCIATION: none

SUBMITTED: 29Oct64

ENCL: 01

SUB CODE: NP, MM

NO REF SOV: 003

OTHER: 008

Card 2/3

L 54008-65  
ACCESSION NR: AP5013379

ENCLOSURE: 01

0

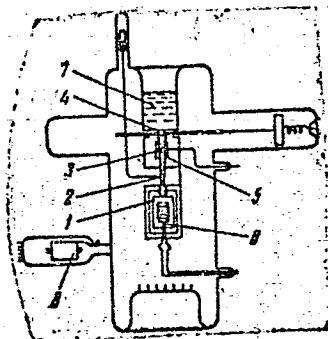


Fig. 1

Sac  
Card 3/3



BEYLINA, G.M. (Moskva); PAVLOV, S.I. (Moskva); RAKHOVSKIY, V.I. (Moskva);  
SOROKALETOV, O.D (Moskva)

Measurement of the functions of ionization of metal atoms by electron  
impact. PMTF no.2:94-96 Mr-Ap '65. (MIRA 18:7)

ACC NR: AP7006123

SOURCE CODE: UR/0050/01/052/001/0021/0028

AUTHOR: Pavlov, S. I.; Rakhovskiy, V. I.; Fedorova, G. M.

ORG: All-Union Electrotechnical Institute im. V. I. Lenin (Vsesoyuznyy elektrotekhnicheskiy institut)

TITLE: Measurement of the cross sections for the ionization of substances with low vapor tension by electron impact

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 52, no. 1, 1967, 21-28

TOPIC TAGS: ionization cross section, impact ionization, vapor pressure, lead, copper, silver

ABSTRACT: Since all earlier studies of ionization by electron impact were made for elements with high vapor tension, mostly metals, and at relatively low temperatures, and most elements have remained uninvestigated, for lack of a sufficiently simple and reliable measurement technique, the authors describe a procedure and apparatus for this purpose. The procedure is a modification of the atomic-beam method, first proposed by H. Funk (Ann. der Phys. v. 4, 149, 1930). In the apparatus developed by the authors, the substance is introduced in the ionization space in the form of an atomic beam and is made to cross a beam of monoenergetic electrons. The total number of ions produced in this manner is determined by measuring the ion current, and the concentration of the neutral atoms is determined from the intensity of the atomic beam. To separate the ion current due to the investigated substance from the ion

Card 1/2

UDC: none

ACC NR: AF7006123

current due to the residual gas, the atomic beam is modulated and the ac component of the ion current is recorded. Measurements were made of the apparent ionization cross sections of lead, copper, and silver at energies from the ionization threshold to 150 ev. The maximum ionization cross sections and the corresponding electron energies were  $8 \times 10^{-16} \text{ cm}^2$  at  $E = 55 \text{ ev}$  for lead,  $3.1 \times 10^{-16} \text{ cm}^2$  at 29 ev for copper, and  $2.9 \times 10^{-16} \text{ cm}^2$  at 20 ev for silver. The results agree well with published theoretical estimates. The ionization functions of the three metals showed a linear dependence of the ionization on the energy, with an added structure superimposed on the curve for lead, which can be ascribed to autoionization. The authors thank M. A. Mazing and V. A. Fabrikant for a discussion of the work, B. N. Klyarfel'd for valuable remarks, and V. L. Granovskiy for suggesting the topic and directing the main results. Orig. art. has: 5 figures and 1 formula. [02]

SUB CODE: 20/ SUBM DATE: 27 Jun 66/ ORIG REF: 002/ OTH REF: 026/  
ATD PRESS: 5117

LYUBIMOV, A.P.; PAVLOV, S.I.; RAKHOVSKIY, V.I.; ZAYTSEVA, N.G.

Method for measuring the effective ionization cross sections and ionization coefficients of metal atoms during an electronic impact. Izv. AN SSSR. Ser. fiz. 27 no. 8/1060-1064 Ag '63. (MIRA 16:10)

1. Vsesoyuznyy elektrotekhnicheskiy institut im. V.I.Lenina.

NEUSTROYEV, L.S.; PAVLOV, S.I.; TGPCHIYEV, G.M.; SHARLOT, V.A.

Compensatory measurements of pulse voltage. Izv. tekhn. no. 4:  
53-54 Ap '64. (MIRA 17:7)

YABLOKOV, V.S.; GVOZDEVA, N.P.; KOCHETOVA, V.I.; UMNOVA, N.I.;  
KREN', N.L.; SHMIDT, M.I.; VANDERFLIT, Ye.K.; PAVLOV, S.I.,  
red.; FINGENOV, V.P., red.; RODIONOV, A.F., ~~tekh. red.~~

[Atlas of coals of the Moscow Basin]Atlas uglei Podmoskovnogo  
basseina. Pod red. V.S.Iablokova. Tula, TSentr. biuro tekhn.  
informatsii. Vol.1. 1962. 195 p. Vol.2.[Photographs of  
thin sections and samples of coals]Fotografii shlifov i obraz-  
tsov uglei. 1961. 56 tables. (MIRA 16:4)  
(Moscow Basin—Coal)

PAVLOV, S.M.; GINTSEBURG, M.G.; KOVALENKO, V.I., inzh., retsenzent;  
TIKHONOV, A.Ya., tekhn. red.

[Operation and repair of motorcycles] Eksploatatsia i remont  
mototsiklov. Izd.2., perer. i dop. Moskva, Mashgiz, 1953.  
395 p. (MIRA 16:7)  
(Motorcycles--Maintenance and repair)

BOGUSHEVICH, Ye.N., inzh., red.; PAVLOV, S.M., inzh., red.; SHIRIN, P.K., kand. tekhn. nauk, red.; STRASHNYKH, V.P., red. izd-va; SHEVCHENKO, T.N., tekhn. red.

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroizdat. Pt.3. Sec.A. ch.6. [Basic principles for organizational and technical preparation for building (SNiP III-A.6-62)] Organizatsionno-tekhnicheskaya podgotovka k stroitel'stvu; osnovnye polozeniia (SNiP III-A. 6-62). 1963. 11 p. (MIRA 16:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Bogushevich). 3. Mezhdumostvennaya komissiya po peresmotru stroitel'nykh norm i pravil (for Pavlov). 4. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Shirin).

(Building, Stone) (Construction industry)



PAVLOV. S. K.

Operating and repairing motorcycles. Moskva, gos. izd-vo nauchno-tekhn. i mas. inostran.  
lit-ry, 1951. 329 p. (41-23000)

TKHO.13

PAVLOV, S. D.

Control of malarial mosquitoes through DDT (D-17) based  
pots. Med. paras. i paras. bol. supplement to no. 15 '57. (1957)

1. In Institute veterinarnoy dermatologii Ministerstva zdorov'ya  
Soyuznaya SSSR.  
(BENZENE HEXACHORIDE)  
(MOSQUITOES--ELIMINATION)

PAVLOV, S.D. -

Fundamental problems of monogenic hypercomplex functions.  
Izv.vys ucheb.zav.;mat.no.5:129-135 '60. (MIRA 13:10)

1. Ivanovskiy energeticheskiy institut im. V.I.Lenina.  
(Functional analysis)

PAULON, S. F.

PLATE I BOOK EXAMINATION 807/461

Notes: Vsesoyuznyy nauchno-issledovatel'skiy institut Eksploataatsionnoy Tekhniki (Vsesoyuznyy nauchno-issledovatel'skiy institut Eksploataatsionnoy Tekhniki) Topograficheskoye i Transportnoye Inzhenerennoye Otdeleniye (Problems in Gas-Turbine Locomotive Building and Break-Down Engineering. The Transportation Collection of Articles) Moscow, Transportnoy Tekhnicheskoye Otdeleniye (1961) 1,000 copies printed.

Sponsoring Agency: Vsesoyuznyy nauchno-issledovatel'skiy institut Eksploataatsionnoy Tekhniki (Transportation Agency) Moscow, U.S.S.R.

Author: (Title page) Ye. P. Markov, Candidate of Technical Sciences, and A. F. Markov, Candidate of Technical Sciences. (Title page) I. I. Puzanov, Tech. Sci. P.A. Doktor.

Subject: This book is intended for engineering and technical personnel.

Comments: The book consists of 13 articles on the results of theoretical investigations of the turbine units with two-stage gas turbine engines and the operation of laboratory investigations of air tank units and their components. The investigation of various regions of locomotive gas turbine engines and problems of fuel economy in locomotive and stationary units are discussed. No personalities are mentioned. References accompany some of the articles.

Markov, Ye. P., Candidate of Technical Sciences, The Department of Turbine Engines, Institute of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

Markov, A. F., Candidate of Technical Sciences, The Department of Diesel Engines, The Department of Diesel Engines, The Department of Diesel Engines.

PAVLOV, S.F., kand.tekhn.nauk

Combustion of F-12 marine type fuel oil in the tubular uniflow  
combustion chamber of gas-turbine plants. Trudy TSNII MPS  
no.214:63-70 '61. (MIRA 14:8)  
(Gas turbines--Combustion) (Petroleum as fuel)

PAVLOV, S.F. (selo Torey Buryatskoy ASSR)

Guarding the workers' health for half a century. Fel'd. 1 akush.  
25 no.6:58-59 Je '60. (MIRA 13:9)  
(ORLOV, ARKHIP EMEL'IANOVICH, 1888-)

PAVLOV S. F., kand. tekhn. nauk

Experimental investigation of heat exchange in boiling on the pipe  
bundle surface. Trudy TSNII MPS no.187:154-158 '60.

(MIRA 13:11)

(Heat exchangers)

PAVLOV, S. I.; RAKHOVSKIY, V. I.

Developing a radio-frequency mass spectrograph with parabolic potential distribution. Izv. tekhn. no. 7:50-51 JI '62. (MIRA 15:6)  
(Mass spectrometry—Equipment and supplies)



GEL'MAN, A.S.; GRINEVICH, G.F., prof.; GRINEVICH, G.G.; ZOTOV, V.P.;  
KOMAROV, G.V.; LAYLOV, S.M.; FIRMON, A.V.; TRUBIN, V.A., glav.  
red.; SOSHIN, A.V., zam. glav. red.; YEPIFANOV, S.F., red.;  
ONUFAYEV, I.A., red.; KHOKHLOV, L.A., red.; ZIMIN, P.A., red.;  
KRONOSHIKH, I.L., inzh., red.; NAUMOVA, G.D., tekhn. red.

[Handbook on loading, unloading, and conveying operations in  
construction] Sptavochnik po pogruzochno-razgruzochnym i trans-  
portnym rabotam na stroitel'stve. Pod red. G.P.Grinevicha.  
Moskva, Gosstroizdat, 1962. 376 p. (MIRA 15:9)  
(Material handling) (Building materials)

SUDARIKOV, V.Ye., inzh., red.; KLUTS, L.Ya., insh., red.; PAVLOV  
S.M., inzh., red.; BARANOV, L.A., inzh., red.; PEVZNER,  
A.S., red. izd-va; K DICHOVA, V.M., tekhn. red.

[Construction norms and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroizdat. Pt.3. Sec.A. ch.11.[Safety engineering in construction] Tekhnika bezopasnosti v stroitel'stve (SNiP III-A. 11-62). 1963. 102 p. (MIRA 16:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosudarstvennyy komitet po delam stroitel'stva Soveta Ministrov SSSR (for Sudarikov). 3. Tsentral'nyy komitet profsoyuza rabochikh stroitel'stva i promyshlennosti stroitel'nykh materialov (for Kluts). 4. Mezhdomstvennaya komissiya po peresmotru Stroitel'nykh norm i pravil Akademii stroitel'stva i arkhitektury SSSR (for Pavlov). 5. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Baranov).

(Construction engineering--Safety measures)

L 60328-65 EWT(1)/EPF(n)-2/EWG(m)/EPA(w)-2 Pz-6/Po-4/Pi-4 IJP(c) AT

ACCESSION NR: AP5018306

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AUTHOR: Pavlov, S. M.; Shevchenko, S. A.

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TITLE: Concerning the radial distribution of electric conductivity in an ionized gas jet

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 7, 1965, 1262-1264

TOPIC TAGS: plasma jet, plasma conductivity, temperature distribution, plasma measurement

qm

ABSTRACT: The authors discuss the effect of the radial distribution of the electric conductivity of a cylinder of ionized gas on the effective conductivity as measured by the loading effect of the ionized gas on a resonant circuit. The effective conductivity as measured in this way is a weighted average of the true conductivity, the weight being proportional to the square of the local electric field strength. It is assumed that the measurements are made in such a way that the electric field strength is proportional to the radius (the distance from the axis of the ionized gas cylinder). The radial distribution of the conductivity is related to that of the temperature by a known equation that obtains for a

Card 1/2

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ACCESSION NR: AP5018306

weakly ionized gas, and the effective conductivities of ionized gas cylinders with different assumed temperature distributions were calculated. Some of these rather simple computations were (successfully) checked by electrolytic tank measurements. It is concluded that the effective conductivity as measured in the assumed manner is more characteristic of the cooler outer portions of the jet than of the hot inner (axial) region. Orig. art. has: 5 formulas, 3 figures, and 1 table.

ASSOCIATION: Gosudarstvennyy institut prikladnoy khimii (State Institute of Applied Chemistry)

SUBMITTED: 27Jul64

ENCL: 00

SUB COLL: ME, EM

NR REF SOV: 004

OTHER: 000

Card 2/2 0/10

KALINYUK, V.V., inzh., red.; BALASHOV, S.I., inzh., red.; BOGATYKH,  
Ye.D., inzh., red. GRIBIN, G.P., red.; PAVLOV, S.M., red.;  
KHUDYAKOV, A.K., red.; PETROVA, V.V., red. izd-va; IPTINKA,  
G.A., red. izd-va; KOMAROVSKAYA, L.A., tekhn. red.;  
RODIONOVA, V.M., tekhn. red.

[Construction specifications and regulations] Stroitel'nye  
normy i pravila. Moskva, Gosstroizdat. Pt.3. Sec.A. ch.7,  
[Basic principles for organizing labor (SNiP III-A.7-62)] Or-  
ganizatsiia truda; osnovnye polozenia (SNiP III-A.7-62)  
1962. 4 p. Pt.3. Sec.V. ch.4. [Regulations for production and  
inspection of work in stone construction (SNiP III-V.4-62)]  
Kamennye konstruksii; pravila proizvodstva i priemki rabot.  
(SNiP III-V.4-62) 1963. 11 p. (MIRA 16:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam  
stroitel'stva. 2. Gostroy SSSR (for Kalinyuk, Gribin).
3. Mezhdudedomstvennaya komissiya po peresmotru stroitel'nykh  
norm i pravil (for Balashov, Pavlov). 4. Nauchno-issledovatel'-  
skiy institut organizatsii, mekhanizatsii i tekhnicheskoy po-  
moshchi stroitel'stvu Akademii stroitel'stva i arkhitektury  
SSSR (for Bogatykh, Khudyakov).  
(Building, Stone)  
(Construction industry)

PAVLOV, Sergey Maksimovich; STEBUNOV, N.S., red.; TARASOVA, T.K.,  
mladshiy red.; PONOMAREVA, A.A., tekhn. red.

[The problem of problems; increasing the effectiveness of  
capital investments] Vopros voprosov; za povyshenie ef-  
fektivnosti kapital'nykh zatrat. Moskva, Ekonomizdat,  
1963. 65 p. (MIRA 16:7)

(Metallurgical plants--Design and construction)  
(Construction industry--Economic aspects)

BURMISTROV, P.I.; SANYLOVICH, S.D.; DEMICHEV, G.M.; KONONOV, V.A.;  
EVENCHIK, S.D.; ERODOVSKIY, N.R.; PAVLOV, S.M.; BOEROV,  
A.A.; BASKIN, A.I.; SHKOL'NIKOV, S.A.; VASIL'YEV, B.K.;  
DRANNIKOV, A.B.; RIKMAN, M.A.; BURAKOV, V.A.; VLADIMIROV,  
A.P.; NIKOLAYEVSKIY, G.M.; PETRUSHEV, I.M., red.;  
GERASIMOVA, Ye.S., tekhn. red.

[Mechanization of loading, unloading and storing operations in industrial enterprises] Mekhanizatsia pogruchno-razgruchnykh i skladskikh rabot na promyshlennykh predpriyatiyakh. Moskva, Ekonomizdat, 1963. 276 p.

(MIRA 17:2)

USPENSKIY, V.V., kand. ekon. nauk, red.; PAVLOV, S.M., inzh., red.

[Construction specifications and regulations] **Stroitel'nye**  
normy i pravila. Moskva, Gosstroizdat. Pt.3. Sec.A. ch.1.  
[Organization and technology of construction work; general  
part] Organizatsiia i tekhnologiya stroitel'nogo proizvod-  
stva; obshchaia chast' (SNiP III-A. 1-62). 1963. 15 p.  
(MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam  
stroitel'stva. 2. Gosstroy SSSR (for Uspenskiy).



GRIBIN, G.P., red.; PAVLOV, S.M., red.; KHUDYAKOV, A.K., red.

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroizdat. Pt.3. Sec.A.ch.7.  
[Organization of labor; principal regulations] Organizatsiia truda; osnovnye polozenia (SNiP Sh-A. 7-62). 1962. 4 p.  
(MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Gribin). 3. Mezhdomstvennaya komissiya po peresmotru Stroitel'nykh norm i pravil (for Pavlov). 4. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Khudyakov).

USPENSKIY, V.V., kand. ekon. nauk, red.; PAVLOV, S.M., inzh., red.;  
SHIRIN, F.K., doktor tekhn. nauk, red.

[Construction specifications and regulations] Stroitel'nye  
normy i pravila. Moskva, Stroiizdat. Pt.3. Ser. A.Ch.2.  
[Industrialization of construction; basic regulations] In-  
dustrializatsiia stroitel'stva; osnovnye polozheniia  
(SNiP III-A.2-62). 1964. 9 p. (MIRA 17:10)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po de-  
lam stroitel'stva. 2. Gosstroy SSSR (for Uspenskiy).
3. Mezhdovedomstvennaya komissiya po peresmotru Stroitel'-  
nykh norm i pravil (for Pavlov). 4. Nauchno-issledovatel'skiy  
institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi  
stroitel'stvu (for Shirin).

GLOVINSKIY, Ya.G., inzh., red.; PAVLOV, S.M., inzh., red.;  
KHAYKIN, L.Ye., inzh., red.

[Construction specifications and regulations] Stroitel'-nye normy i pravila. Moskva, Stroiizdat. Pt.3. Sec.G. ch.10.5.[Crushing, milling, sorting, enriching, and agglomerating equipment; regulations of production and acceptance of work] Drobil'noe, razmol'noe, sortirovochnoe, obogatitel'noe i aglomeratsionnoe ooborudovanie; pravila proizvodstva i priemki montazhnykh rabot (SNiP III-G.10.5-62) 1964. 26 p. (MIRA 17:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Glovinskiy).
3. Mezhdovedomstvennaya komissiya po peresmotru Stroitel'nykh norm i pravil (for Pavlov).
4. Proyektno-konstruktorskaya kontora Mekhanomontazhproyekt Gosudarstvennogo proizvodstvennogo komiteta po montazhnym i spetsial'nyim stroitel'nyim rabotam SSSR (for Khaykin).

GLOVINSKIY, Ya.G., inzh., red.; PAVLOV, S.M., inzh., red.;  
VOL'BERG, N.Ye., inzh., red.; SHVARTS, Ya.I., inzh., red.

[Construction specifications and regulations] Stroitel'nye  
normy i pravila. Moskva, Gosstroizdat. Pt.3. Sec.G. ch.10.2  
[Compressors; regulations for the performance and acceptance  
of assembled work] Kompresory; pravila proizvodstva i priemki  
montazhnykh rabot (SNiP III-G. 10.2-62). 1963. 17 p.

(MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam  
stroitel'stva. 2. Tsentral'nyy proyektno-konstruktorskoye  
otdeleniye Glavkhimmontazha Gosudarstvennogo proizvodstven-  
nogo komiteta po montazhnyim i spetsial'nyim stroitel'nyim rabo-  
tam SSSR (for Shvarts).

PAVLOV, S.M. (

Highly mechanized storage yards for aggregates in large-panel housing construction enterprises. Mekh. stroi. 18 no. 3:3-8 Mr '61.

(MIRA 14:5)

1. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR.

(Aggregates (Building materials)—Storage)

PAVLOV, S. P.

PAVLOV, S M

Eksploatatsiya i remont mototsiklov (Operation and repair of motor-  
cycles, by) S. M. Pavlov i

395 p.

"Literatura": p. (393)

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1953

FRANCO, S. L.

Microplanta della 1ª regione italiana [Operazione di ricerca di motocicletta]. Ent. 1-2.  
Molise, Isernia, 1953. 346 p.

SO: Monthly List of American Acquisitions, 1953, p. 475-476.

PAVLOV, S. M.

PAVLOV, S.M.; GINTSEBURG, M.G.; KOVALENKO, V.I., inzhener, retsenzent.

[Operation and repair of motorcycles] Eksploatatsiia i remont mototsiklov. Izd. 2., perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1953. 395 p. (MLRA 7:8)  
(Motorcycles)



PAVLOV, S. M.

*Technology*

Operating and repairing motorcycles. Moskva, Gos. izd-vo nauchno-tekhn. i mashinostroit, lit-ry, 1951.

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

PAVLOV, S. M.

Pavlov, S. M.  
Gintsburg, M. G.

"Operation and Repair  
of Motorcycles"

State Scientific and  
Technical Publishing House  
of Machine and Shipbuilding  
Literature

PAVLOV, S.M., inzh.; FREYGOPER, Ye.F., inzh.; SAYAPIN, Yu.I., inzh.; ZHDANOV,  
L.G., inzh.; BARYNINA, Ye.Yu., kand.tekhn.nauk

Fully mechanized aggregate yards for year-round large concrete plants.  
Prom.stroi. 37 no.8:26-34 Ag '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Pavlov). 2. Hidroproyekt (for Sayapin, Freygofer, Zhdanov). 3. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti (for Barynina).  
(Concrete plants—Equipment and supplies)

PAVLOV, S.M.

Operation and repair of motorcycles. Izd.2., perer. i dop. Moskva, Gos. nauchno-  
tekhn. izd-vo mashinstroit. i sudostroit. lit-ry, 1953. 395 p. (55-15443)

1. Motorcycles. I. Gintsburg, M.G., jt. au.

PAVLOV, Sergey Maksimovich; SLASTENKO, Yevgeniy Naumovich; CHERNOV, Ye.,  
red.; KUZNETSOVA, A., tekhn. red.

[Specialization in the machinery industry] Spetsializatsia v  
mashinostroenii. Moskva, Mosk. rabochii, 1962. 58 p.  
(MIRA 15:3)

(Machinery industry)

GINTSBURG, Matvey Grigor'yevich; PAVLOV, Serafim Mikhaylovich; BAUMAN,  
I.M., inzhener, redaktor; MODEL', B.I., tekhnicheskiy redaktor

[Operation and repair of motorcycles] Eksploatatsia i remont  
mototsiklov. Izd. 3-e, perer. i dop. Moskva, Gos. nauchno-tekhn.  
izd-vo mashinostroit. lit-ry, 1956. 428 p. (MLRA 9:7)  
(Motorcycles)

*Paylov, S. M.*

<sup>71</sup>  
 The investigation of the mass exchange in flames by aid  
 of a helium flow selector. *S. M. Paylov and M. S. Trutin*  
 (M. I. Kalinin Polytech. Inst., Leningrad) *Prisoby i*  
~~1956, No. 2, 92-4.~~ Helium is blown  
 into a flame of city gas and the combustion gases are sucked  
 off from various parts of the flame and analyzed for He by  
<sup>21</sup> mass spectrometer. A drawing is presented showing the  
 curves along which He is present in the flame in concns. of  
 0.023, 0.033, 0.05, and 0.067%. *Werner Jacobson*

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SOV/124-58-4-3811

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 4, p 20 (USSR)

AUTHOR: Pavlov, S. M.

TITLE: Flame Stabilization in High-speed Gas Flows (Stabilizatsiya plameni v gazovykh potokakh bol'shoy skorosti)

PERIODICAL: Nauchno-tekhn. inform. byul. Leningr. politekhn. in-ta, 1957, Nr 5, pp 22-29

ABSTRACT: The article treats theoretically the problem of flame stabilization by means of stabilizers having poorly streamlined shapes. It is assumed that the burning mixture moves with the velocity of the flow of the main body of the burning mixture. It is also assumed that the mixing of the gases to be burned with the products of combustion is perfect, and that the combustion reaction is governed by the Arrhenius Law and is of second order. On this basis the author obtains a theoretical relationship which determines the conditions for flame snuffing. On the basis of this relationship, as well as the known experimental data, the author derives semiempirical functions which fairly well describe the limits of flame stabilization. 1. Gas flow--Velocity B. V. Raushenbakh

Card 1/1

2. Flames--Stabilization



PAVLOV, Serafim Mikhaylovich, inzh.; GODYNA, A.K., inzh., red.

[Effective types of yards for storing aggregates at precast reinforced concrete plants] Effektivnye tipy skladov zapolnitelei predpriyatii sbornogo zhelezobetona. Moskva, Gosstroizdat, 1960. 91 p. (MIRA 13:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
2. Ispolnyayushchiy obyazannosti rukovoditelya laboratorii pogruzochno-razgruzochnykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Pavlov).  
(Aggregates (Building materials)--Storage)

**AUTHOR:** Pavlov, S.M. (Engineer)

SOV/96-58-10-17/25

**TITLE:** An investigation on mass exchange between the circulation zone beyond an unstreamlined body and the main flow, and conditions of mixing between them. (Issledovaniye massoobmena zony tsirkulyatsii za plokho obtekayemym telom s osnovnym potokom i usloviy smesheniya v ney.)

**PERIODICAL:** Teploenergetika, 1958, No.10. pp. 72-75 (USSR)

**ABSTRACT:** This article describes investigations into the conditions of mixing and mass exchange in the zone of circulation beyond an unstreamlined body, a cylinder. Conditions of flow on the downstream side of the cylinder are turbulent, as sketched in Fig.1. In the method of investigation used, gas is mixed into the zone of circulation beyond the cylinder; samples are then taken from this zone for analysis, to determine the content of the admixture. The equipment used is shown diagrammatically in Fig.2; a fan drives the gas through the experimental section of tube. In tests without burning, the gas added was hydrogen delivered from a slot of 0.5 x 100 mm in the cylinder. The flow of hydrogen was such that its speed was small but could be determined. The gas analysis instrument was sensitive to hydrogen concentrations of 0.1 - 6% with an accuracy of 0.06%. In tests with combustion, the gases added were helium and lighting gas. The gas delivery system is sketched in Fig.3. Measurements were made in only half the flow, which was symmetrical. When the slot through

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An investigation on mass exchange between the circulation zone beyond an unstreamlined body and the main flow, and conditions of mixing between them.

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which the gas was delivered was in the vertical plane passing through the axis of the cylinder, measurements of the field of concentration of hydrogen in the circulation zone give the results typified in Fig.4. The concentration field is of the same character both with and without burning. In both cases, mixing is incomplete in the circulation zone immediately beyond the body. Curves of admixture concentration obtained during burning are given in Fig.5. Then follows an analysis of the results represented in Fig.5. and of data on the distribution of admixture in the circulation zone in the absence of combustion. The analysis shows that the profiles of concentration admixture are only very roughly generalised when using the same dimensionless co-ordinates as for free turbulent flow. The scatter of the experimental points is very great. The changes in relative concentration of admixture along the geometrical axis to the rear of the cylinder are plotted in Fig.6. The assumptions made in determining the exchange of mass between the circulation zone and the main flow are explained. The formulae used to determine mass exchange are given, noting that the method is subject to appreciable errors. Subject to these limitations, an equation for the

Card 2/3

An investigation on mass exchange between the circulation zone beyond an unstreamlined body and the main flow, and conditions of mixing between them.

SOV/96-58-10-17/25

calculation of mass exchange is offered, and compared with the experimental results plotted in Figs. 7 & 8. Examination of the figures leads to the conclusion that, given identical hydrodynamic conditions at the inlet to the system, and other conditions equal, then the rate of mass exchange is less with combustion than without it. This means that with combustion, the mean time that an elementary volume of gas remains in the zone of reversed flow is greater than in the absence of combustion. There are 8 figs. and 4 Soviet references.

ASSOCIATION: Leningrad Polytechnical Institute (Leningradskiy Politekhnikheskiy Institut)

Card 3/3

PAVLOV, S.M. ; TYUTIN, M.S.

Using helium flow-detectors for studying mass transfer in flames.  
Prib.1 tekhn. eksp. no. 2:92-94 S-0 '56. (MLRA 10:2)

1. Leningradskiy politekhnicheskii institut im. M.I. Kalinina.  
(Mass spectrometry) (Flame)

KOVAL'CHUK, M.F., inzh., red. [deceased]; BALDE, V.A., red.;  
TUBIN, S.M., kand. tekhn. nauk, red.; LAUT, M.Ya., inzh.  
red.; LARIONOV, A.A., inzh., red.; BALIKHIN, M.I., red.;  
BOGUSHEVICH, Ye.N., inzh., red.; PAVLOV, S.M., inzh.,  
red.; SHIRIN, F.K., kand. tekhn. nauk, red.

[Construction specifications and regulations] Stroitel'-  
nye normy i pravila. Moskva, Gosstroizdat. Pt.2. Sec.V.  
Ch.3.; Pt.3. Sec. A. Ch.5-6. (MIRA 18:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po  
delam stroitel'stva. 2. Gosstroy SSSR (for Koval'chuk,  
Larionov, Bogushevich). 3. Chlen-korrespondent Akademii  
stroitel'stva i arkhitektury SSSR (for Baldin). 4. ~~TSEN-~~  
~~trallyy nauchno-issledovatel'skiy institut stroitel'nykh~~  
konstruktsiy Akademii stroitel'stva i arkhitektury SSSR  
(for Tubin). 5. Gosudarstvennyy institut po proyektirova-  
niyu, issledovaniyu i isp.taniyu stal'nykh konstruktsiy i  
mostov (for Laut). 6. Mezhdovedomstvennaya komissiya po  
peresmotru Stroitel'nykh norm i pravil (for Balikhin, Pavlov).  
7. Nauchno-issledovatel'skiy institut organizatsii, mekhani-  
zatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii  
stroitel'stva i arkhitektury SSSR (for Shirin).

L 1157-66 EWT(m)/EPP(c)/EWP(j)/T RM

ACCESSION NR: AP5022008

UR/0286/65/000/014/0078/0078  
678.74 : 68,097

AUTHOR: <sup>44.55</sup> Razuvayev, G. A.; <sup>44.55</sup> Shevlyakov, A. S.; <sup>44.55</sup> Yanovskiy, D. M.; <sup>368 44.55</sup> Kofman, L. P.;  
<sup>44.55</sup> Stupen', L. V.; <sup>44.55</sup> Pavlov, S. M.

TITLE: A method for polymerizing vinyl compounds. Class 39, No. 172994

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 78

TOPIC TAGS: emulsion polymerization, vinyl plastic, polymerization initiator, polymer <sup>15,44.55</sup>

ABSTRACT: This Author's Certificate introduces a method for polymerizing vinyl compounds. Polymerization time is reduced and polymer yield is increased by using alkyl or aryl esters of percarbonic acid as the initiator for block or emulsion polymerization.

ASSOCIATION: none

SUBMITTED: 12Jan57

ENCL: 00

SUB CODE: 00, NR

NO REF SOV: 000

OTHER: 000

Card 1/1 <sup>AP</sup>

PAVLOV, S.N.

Mechanized preparation of concentrated feeds. Trakt. i sel'khoz mash.  
no.5:19-24 My '58. (MIRA 11:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystven-  
nogo mashinostroyeniya.  
(Feeding and feeding stuffs--Equipment and supplies)

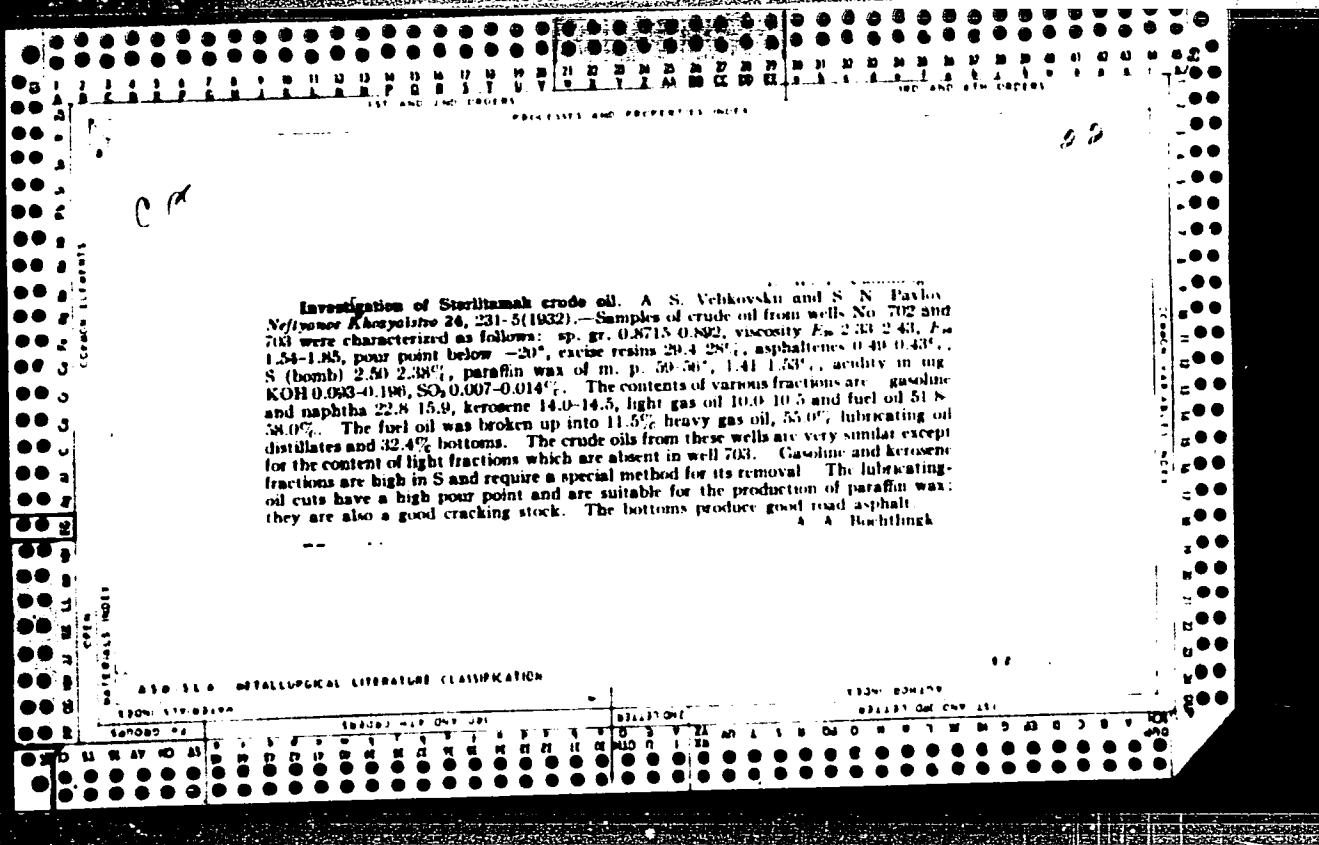


PAVLOV, S.N.

Feed-processing machines for collective and state livestock farms. Sel'khoz mashina no.8:3-7 Ag '56. (MLRA 9:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyaystvennogo mashinostroyeniya.

(Farm equipment) (Feeding and feeding stuffs)



1ST AND 2ND COPIES

3RD AND 4TH COPIES

PROCESSING AND PROPERTY NOTES

BC

B-I-2

Summary crude oil. A. B. VALIKOVSKI and B. N. PAVLOV (Zh. Khim., 1938, 24, 231-236).—Characteristics of the crude oil and composition of various fractions are recorded. Gasoline and kerosene fractions are high in S.

EXPERIMENTAL DATA

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

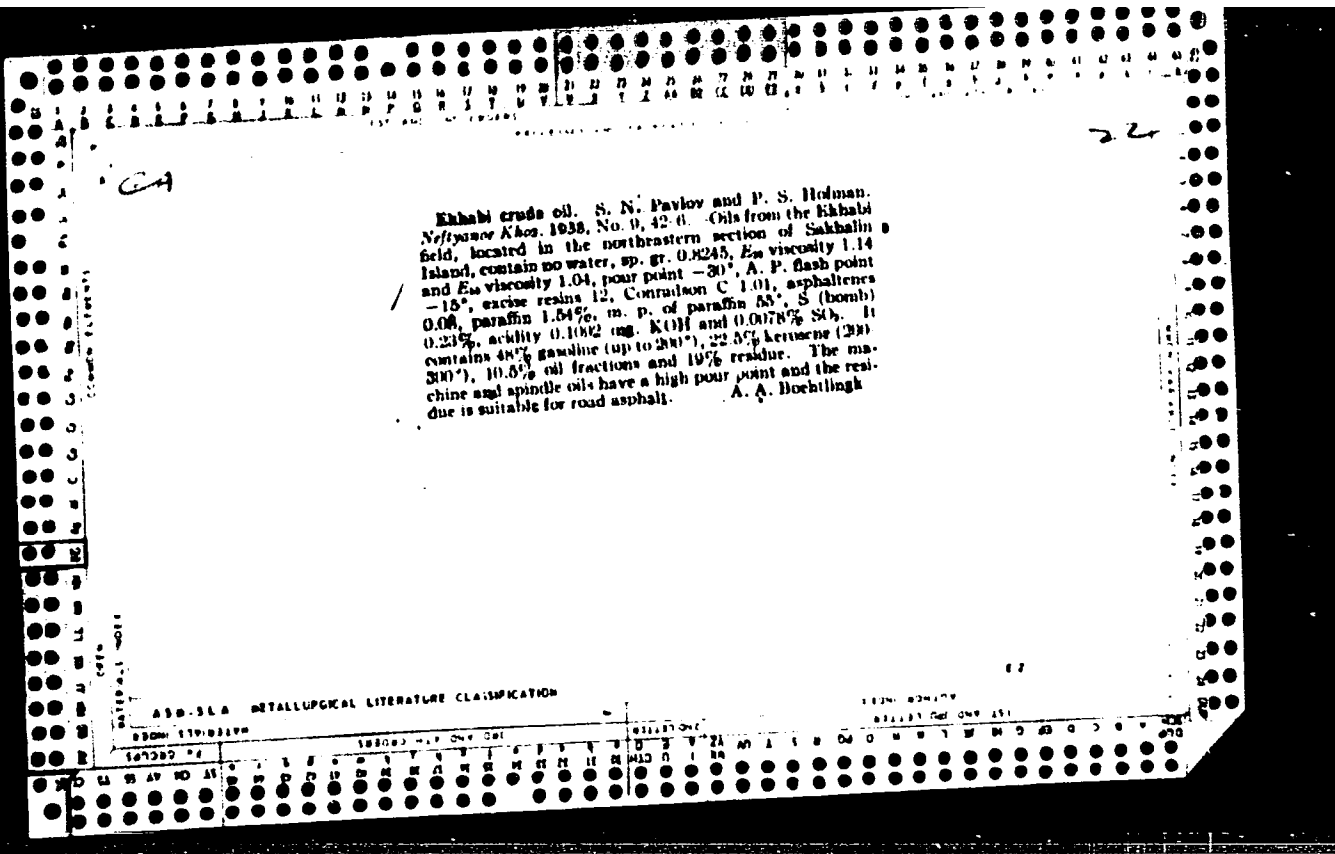
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APR 1964

U.S. DEPARTMENT OF COMMERCE

STEEL DIVISION

RESEARCH AND DEVELOPMENT



PAVLOV, S P

The origin of bitumens in the Volga-Ural district. A. D. ARKANGELSKII AND  
 S. P. PAVLOV. *Nefyanoe Khozyaistvo* 21, 26-9 (1932).—A great variety of bitumens  
 taken from various districts of the Volga as well as the crude oil recently discovered  
 in Chuvovskaya were analyzed. The results indicated that the bitumens and the above  
 crude oil are of the same origin. A. A. BOBHTLINGK

COMBUSTIBLES

NATURAL INDEX

ASB. 31.4 METALLURGICAL LITERATURE CLASSIFICATION

1930-1939	1940-1949	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000-2009	2010-2019	2020-2029	2030-2039	2040-2049	2050-2059	2060-2069	2070-2079	2080-2089	2090-2099

PAVLOV, Sergey Pavlovich; GORYACHEV, V.T., red.; ZUDINA, M.P.,  
tekhn. red.

[Track-laying amphibious carrier K-61] Gusenichnyi plavaiushchii  
transporter K-61. Moskva, Voenizdat, 1963. 182 p.

(MIRA 16:10)

(Vehicles, Military) (Motor vehicles, Amphibious)

ACCESSION NR AM1040369

BOOK EXPLOITATION

S/

Pavlov, Sergey Pavlovich

The K-61 caterpillar floating transporter (Gusenichnyy plavayushchiy transporter K-61), Moscow, Voenizdat MOva obor. SSSR, 1963, 182 p. illus. 4,500 copies printed. Series note: Za voyenno-tekhnicheskiye znaniya.

TOPIC TAGS: Caterpillar floating transporter, amphibious military vehicle

PURPOSE AND COVERAGE: This book describes the construction of a caterpillar floating vehicle K-61, its basic components and parts, the technique of making the various regulations, and use of the vehicle on water and on land. The book is intended for mechanics-drivers and commanders of amphibious military vehicles and can be used as a text by sergeants and soldiers of the engineering forces.

TABLE OF CONTENTS [abridged]:

- Introduction -- 3
- Ch. I. General description and technical characteristics of the transporter -- 5
- Ch. II. Body of the transporter -- 9
- Ch. III. Engine -- 19

Card 1/2

ACCESSION NR AM1010369

- Ch. IV. Transmission -- 56
- Ch. V. Running gear, winch engine, and steering gear -- 92
- Ch. VI. Special equipment -- 103
- Ch. VII. Electrical equipment -- 111
- Ch. VIII. Maintenance -- 144
- Ch. IX. Use of the transporter -- 162

SUB CODE: MS

SUBMITTED: 15Jul63

NR REF SOV: 000

OTHER: 000

DATE ACQ: 16Apr64

Card 2/2



PAVLOV, Sp.; KARAPETROV, Gr.; PETROV, Iv.; KREMIKOV, Iv.

Somatometric characteristics of the 11-year-old children  
of Plovdiv. Izv Inst mcrf BAN 8 89-112 '63.

\*

MASSEN, V.A.; MILOSLAVSKIY, I.L.; PAVLOV, S.P.; POGODILOV, M.N.; SHEVELEV,  
A.Ye.; KUNITSA, S.S.; YAKOVLEV, V.G.; CHESNOKOV, V.K.; KRYLOV,  
B.F.; SHIKHANOVICH, B.A.; YAITSKOV, S.A.

Proposals awarded prizes at the 16th All-Union Contest for  
Electric Power Economies. Prom.energ. 17 no.10:12-14 0  
'62. (MIRA 15:9)

(Technological innovations--Competitions)

PAVLOV, S.P.

Tireless activity of Soviet Youth should serve the building of  
communism. Komm.Voeruzn.Sil 2 no.10:5-10 My 62. (MIRA 19.6)

1. Pervyy sekretar' Tsentral'nogo komiteta Vsesoyuznogo  
Leninskogo kommunisticheskogo soyuza molodezhi.  
(Communist Youth League)  
(Russia - Armed forces)

PAVLOV, S.P., inzh.

Conditions for the control of flood flows. Trudy Hidroproekta  
no.4:143-165 '60. (MIRA 15:2)

(Flood control)  
(Reservoirs)

PAVLOV, S.P.

Evaporation from and moisture circulation in the soils of fallow fields in the vicinity of Sverdlovsk in dry and wet years.  
Pochvovedenie no.4:48 54 Ap '62. (MIRA 15:4)

1. Ural'skiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva.  
(Sverdlovsk region--Soil moisture)

PAVLOV, Sergey Pavlovich, podpolkovnik; ROSSAL, N.A., polkovnik, red.;  
SOLOLOVA, G.F., tekhn. red.

[The BAV large amphibious vehicle] Bol'shoi plavaiushchii avtomobil' BAV. Moskva, Voen. izd-vo M-va obor. SSSR, 1961. 87 p.  
(MIRA 14:7)

(Vehicles, Amphibious)

YUFA, Engel' Pavlovich; PAVLOV, S.P., inzh., retsenzent; PANTER, B.Ya.,  
inzh., retsenzent; MIRKIN, A.A., inzh., red.; SALYANSKIY, A.A.,  
red. izd-va; SMIRNOVA, G.V., tekhn. red.

[Cutting tool department of a machinery plant] Instrumental'noe  
khoziaistvo mashinostroitel'nogo zavoda. Moskva, Gos.nauchno-  
tekhnicheskoe izd-vo mashinostroit.lit-ry, 1961. 117 p.

(MIRA 15:1)

(Machinery industry) (Metal-cutting tools)

PAVLOV, S.S. (Vyborg, ul. Stalingradskaya, d.3, kv.55)

Intracavitary administration of antibiotics in geletin capsules.  
Nov. khir. arkh. no.34100 My-Je '60. (MIA 15:2)

1. Mezhrayonnaya detskaya bol'nitsa Vyborga, Leningradskoy oblasti.  
(ANTIBIOTICS)



GRAMOLIN, I.V., inzh.; PAVLOV, S.S., inzh.

Scientific and technical collaboration of socialist countries.  
Transp. stroi. 12 no.8:39-40 Ag '62. (MIRA 15:9)  
(Transportation)

VELIKORETSKIY, D.A.; LORIYE, K.M.; FINKEL', I.I.; GRIGORCHUK, Yu.F.;  
 BERGER, L.Kh.; UTROBINA, V.V.; KHARCHENKO, V.P.; MESHCHERYKOV, A.V.,  
 student V kursa; OBEREMCHENKO, Ya.V., kand.med.nauk; NIKITIN, A.V.;  
 MUKHOYEDOVA, S.N.; KUSMARTSEVA, L.V., assistent; KUZNETSOV, V.A.,  
 dotsent; KUKHTINOVA, R.A., assistent; BONDARENKO, Ya.D. (g. Fastov);  
 KURTASOVA, L.V. (g. Fastov); PEVCHIKH, V.V.; CHURAKOVA, A.Ye.;  
 BABICH, M.M.; KUZ'MIN, K.P.; PAVLOV, S.S.; SHEVLYAKOV, L.V., kand.  
 med.nauk; IGNAT'YEVA, O.M.; ZEYGERMAKHER, G.A.; GUTKIN, A.A.;  
 POLYKOVSKIY, T.S.

Resumes. Sov.med. 25 no.11:147-152 N '61.

(MIRA 15:5)

1. Iz Instituta grudnoy khirurgii AMN SSSR (for Velikoretskiy, Loriye, Finkel').
2. Iz bol'nitsy No.3 Gorlovki Stalinskoy oblasti (for Grigorchuk).
3. Iz Tyumenskoy oblastnoy bol'nitsy (for Berger, Utrobina).
4. Iz Karatasskoy rayonnoy bol'nitsy Yuzhno-Kazakhstanskoy oblasti (for Kharchenko).
5. Iz Gospital'noy khirurgicheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova (for Meshcheryakov).
6. Iz kliniki propedevticheskoy terapii Stalinskogo meditsinskogo instituta na baze oblastnoy klinicheskoy bol'nitsy imeni Kalinina (for Oberemchenko).
7. Iz kliniki gospital'noy terapii Voronezhskogo meditsinskogo instituta (for Nikitin, Mukhoyedova).
8. Iz kafedry obshchey khirurgii Kishinveskogo meditsinskogo instituta (for Kusmartseva).

(Continued on next card)

VELIKORETSKIY, D.A.---(continued) Card 2.

9. Iz akushersko-ginekologicheskoy kliniki Stalinskogo meditsinskogo instituta na baze bol'nitsy imeni Kalinina (for Kuznetsov, Kukhtinova).  
10. Iz gospi'tal'noy terapevticheskoy kliniki Izhevskogo meditsinskogo instituta (for Pevchikh, Churakova). 11. Iz Nosovskoy rayonnoy bol'nitsy Chernigovskoy oblasti (for Babich). 12. Iz Vyborgskoy mezhrayonnoy bol'nitsy (for Pavlov). 13. Iz 1-y gorodskoy bol'nitsy Tyumeni (for Ignat'yeva). 14. Iz 2-y infektsionnoy bol'nitsy g. Zaprozh'ya (for Zeygermakher). 15. Iz infektsionnogo i prozektorskogo otdeleniy Petrozavodskoy gorodskoy bol'nitsy (for Gutkin, Polykovskiy).

(MEDICINE--ABSTRACTS)

PAVLOV, S.S.

Subdiaphragmatic abscess in a 4-year-old child. Khirurgiia  
39 no.10:135-137 O '63. (MIRA 17:9)

1. Iz Detskoy mezhrayonnoy bol'nitsy (glavnyy T.G. Kudryashova)  
Vyborga.