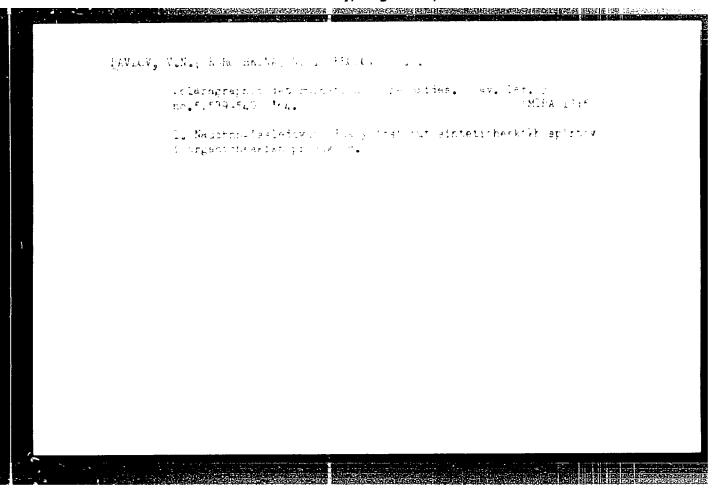
#### PAVLOV, V. N.

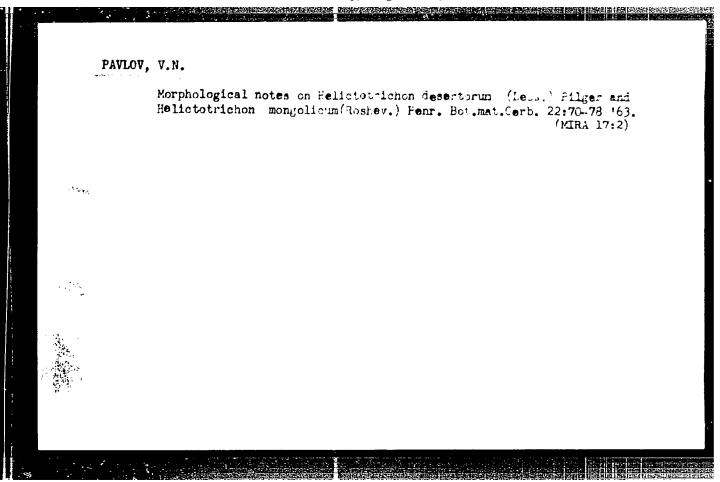
Reference literature and the role of herbaria in scientific work. Bot. shur. 45 no.12:183/-1835 D '60. (MIRA 13:12)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.
(Botanical research)



BELOTSERKOVSKIY, M.Yu.; DIK, N.Ye.; DOERONRAVOVA, K.I., red.;
PAVLOV, V.N., red.; BELICHENKO, A.K., mladshiy red.;
POLOZHERTSEV', T.3., mladshiy red.

[Our native land Siberia; photo album] Nasha Rodina
Sibir'; fotoal'bom. Moskva, Izd-vo "ysl'," 234 p.



YEFIMENKO, L.N.; NECHIPORENKO, Ye.P.; PAVLOV, V.N.

Oxidation of tungsten disilicide. Fiz. met. i metalloved. 15 nc.5:931-933 D'63. (MIRA 17:2)

1. Fiziko-tekhnicheskiy institut AN UkrSSR.

S/865/62/002/000/028/042 D405/D301

AUTHORS:

Rokotova, N.A., Kucherenko, T.M., Paylov, V.N. and

Trokhachev, A.I.

TITLE:

Effect of sleep loss on some aspects of higher ner-

vous activity of humans

SOURCE:

Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisakyan and V. Yazdovskiy. Moscov, Izd-vo AN SSSR, 1962,

273-286

TEXT: The authors investigated the effect of a sleepless night on the task of learning a working program with switches. Four young male adults (volunteers) participated in the experiments; they were awake for 24 hours (6 to 10 times, with intervals of a few days between each experiment). The subjects were placed in a separate room, around a table with four switches. The experiment involved switching off a signal lamp by means of one of the switches. The signal lamp was switched on by the experimentator in accordance with a pre-determined program. The answers of the subject are eval-

S/865/62/002/000/028/042 D405/D301

Effect of sleep loss ...

nated by the time it takes to solve the problem, by the ratio of number of answers to number of signals, and by the agreement between the frequency of selecting a particular switch and the frequency given by the programme. Each experiment with the signal lamp lasted 40-60 minutes. The programs used were of two types: rigid and free. The subjects came to the experiments after a normal day of studies. The tests with the signal lamp were conducted in the evening and in the following morning (at 7 o'clock). Between the two program tests the subjects were continuously busy with observations, making entries into copybooks (each minute), etc. The overall results of the dynaminute ics of learning of the four subjects are represented in the form of curves, characterizing the rate of change of the average time required for the solution, the number of errors, and the probability of choice of switches with increasing number of trials. The sleepless night affected only the time required for the solution of the problem in case of the rigid program, whereas the accuracy was not affected. In case of the free (stochastic) program, the quality suffered also, i.e. the problems remained unsolved, although some progress towards a solution was noted. Conclusions: A method was Card 2/3

Effect of sleep loss ...

S/865/62/002/000/028/042 D405/D301

developed for the study of the functions of the higher nervous system of adults; this method permits the analyzing of both determinate and stochastic forms of conditional reflex relations. Two types of programs were used: rigid (stereotype with probabilistic elements), and free (a stochastic model with 4 choices). The effect of sleep of sleeplessness led to a slowing was investigated. Twenty four hours, gram and to incomplete learning by the free program. There are 4 figures and 2 tables.

Card 3/3

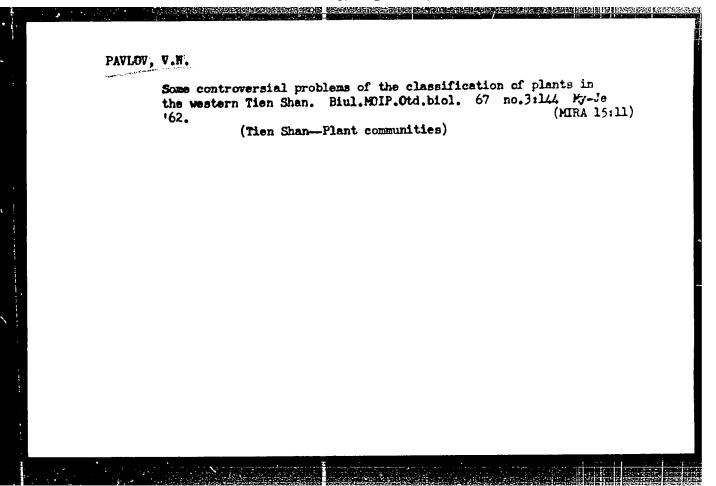
ROKOTOVA, N.A.; KUCHERENKO, T.M.; PAVLOV, V.N.; TROKHACHEV, A.I.

Effect of the lack of sleep on some phases of higher nervous activity in man. Probl.kosm.biol. 2:273-286 '62.

(MIRA 16:4)

(SLEEP\_PHYSIOLOGICAL EFFECT)

(NERVOUS SYSTEM)

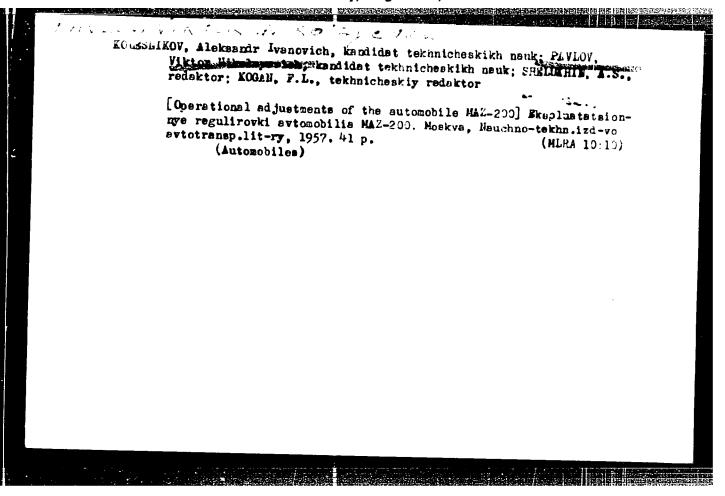


PAVLOV, V.N., inzh.; IVSHIN, V.P., inzh.

Modernization of the S-230 concrete mixer. Energ. stroi.
no.22:69-73 '61. (MIRA 15:7)

1. Stroitel'stvo Bratskoy gidroelektrostantsii (for Pavlov).
2. Leningradskiy filial Vsesoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva (for lvshin).

(Concrete mixers)



18 .1150 2308, 1471 1486

8430 \$/189/60/000/004/004 OUF B002/B060

AUTHORS:

Grigor'yev, A. T., Sokolovskaya, Ye. M., Simanov, Yu. P., Sokolova, I. G., Pavlov, V. N., Maksimova, M. V.

TITLE:

High-temperature Modifications of Chromium and the Phase Diagram of the System Chromium - Molybdenum in the Region.

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya 2, khimiya, 1960. No. 4, pp. 23 - 24

TEXT: A study of the binary system chromium - molybdenum (up to 22 wt% Mo) showed that due to the phase transformations of chromium there arise four zones of mixed crystal formation and three two-phase zones (Fig. 2), having their origin in the transformation points of chromium:  $1830^{\circ}$ C ( $\epsilon \gtrsim \delta$ ),  $1650^{\circ}$ C ( $\delta \gtrsim \gamma$ ), and  $1300^{\circ}$ C ( $\gamma \rightarrow \beta$ ). These transformation points are also found on the heating and cooling curves of chromium iodide (Fig. 1). X-ray analysis of the chilled samples gave the following results: The  $\epsilon$ -modification is a body-centered cubic crystal with a =  $2.887 \pm 3$  kX; the  $\delta$ -phase is hexagonal, and for 13% Mo it has the constants a =  $2.764 \pm 3$  kX and

Card 1/2

84308

High-temperature Modifications of Chromium and the Phase Diagram of the System Chromium - B002/B060

Molybdenum in the Region Rich in Chromium

c/a = 1.604; the γ-phase is a body-centered cubic crystal with a lattice constant similar to the ε-phase; the β-modification is probably a face-centered cubic crystal. Results obtained from studies of the systems Cr.Mo, Cr.W, Cr.Nb, Cr.Ta, Cr.Fe, Cr.Ni, Cr.Co, Cr.Fe-Ni, and Cr.Co-Ni, were communicated to the konferentsiya po zharoprochnym metallam i splavam (Conference on Heat-resistant Metals and Alloys) in April, 1958, and April, 1960, as well as to the VIII Mendeleyevskiy s"yezd (8th Mendeleyev Congress) in March, 1959. There are 2 figures and 2 non-Soviet references

ASSOCIATION: Kafedra obshchey khimii (Chair of General Chemistry).

Kafedra neorganicheskoy khimii (Chair of Inorganic Chemistry)

SUBMITTED: April 2, 1960

Card 2/2

3/081/61/000/024/061/086 B149/B138

AUTHOR:

Pavlov, V. N.

TITLE:

Improving the production process for fabricated concrete and

reinforced concrete structures

: ERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24, 1961, 369, abstract 24K360 (Sb. "Primeneniye melkikh peskov v betone i metoiy podbora sostava betona". M., Gosstroyizdat, 1961, 15 - 18)

TEXT: The combined process was accomplished in three stages:

1. Preparation of finely ground cement-sand mixes;

2. Preparation of concrete mix in vibration mixer;

Vibration-gravity placing of concrete.

The high early strength of the concrete and its low shrinkage mean that the combined process can be recommended for structures with prestressed reinforcement. The combined production process results in more frost resistant concrete; its porosity is reduced to 1/2 or 1/3, and the effective use of cement increases considerably. Abstracter's note: Complete translation.]

Card 1/1

A CONTRACTOR OF THE PROPERTY O

MOSKVIN, V.M., doktor tekhn. nauk, prof.; MEDVEDEV, V.M., kend. tekhn. nauk; KAPKIN, M.M., kand. tekhn. nauk. Prinimali uchastiye: IVANOV, F.M., kand. tekhn. nauk; TSVETKOV, S.M., kand. tekhn. nauk; TSVETKOV, S.M., kand. tekhn. nauk; PAVLOV, V.M., inzh.; KLIMOVA, G.D., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Instructions for increasing the durability of concrete in elements of marine hydraulic structures] Instruktsiia po povysheniiu dolgovechnosti betona v konstruktsiiakh morskikh gidrotekhnicheskikh sooruzhenii. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1962. 58 p. (MIRA 15:5)

l. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhelezobetona, Perovo. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Moskvin). 3. TSentral'naya laboratoriya korrozii Nauchno-issledovatel'skogo instituta betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for Medvedev, Kapkin). 4. TSentral'nyy nauchno-issledovatel'skiy institut svyazi Ministerstva transportnogo stroitel'stva SSSR (for Ivanov).

(Hydraulic structures) (Concrete construction)

ACC NR: AP6020200

SOURCE CODE: UR/0056/66/050/006/1472/1477

AUTHOR: Belyayeva, A. I.; Yeremenko, V. V.; Mikhaylov, N. N.; Pavlov, V. N., Petrov, S. V.

ORG: Physicotechnical Institute of Low Temperatures, Academy of Sciences, Ukrainian SSR (Fiziko-tekhnicheskiy institut nizkikh temperatur Akademia nauk Ukrainskoy SSR); Institute of Physical Problems, Academy of Sciences, SSSR (Institut fizicheskikh problem Akademii nauk SSSR)

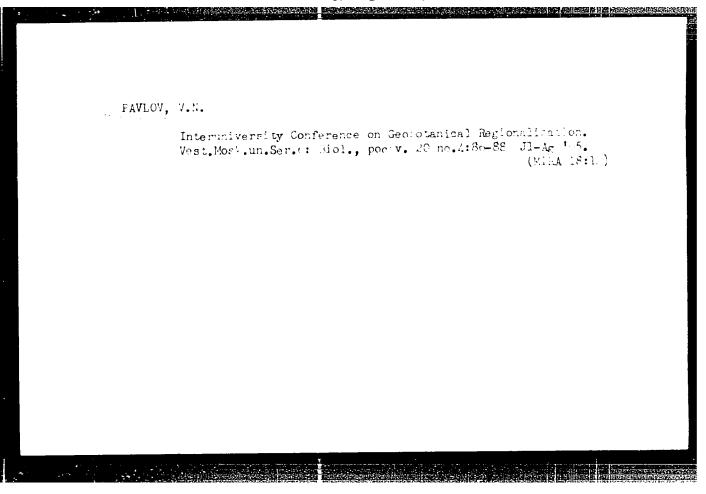
TITLE: Magnon and phonon excitation during <u>light</u> absorption in antiferromagnetic

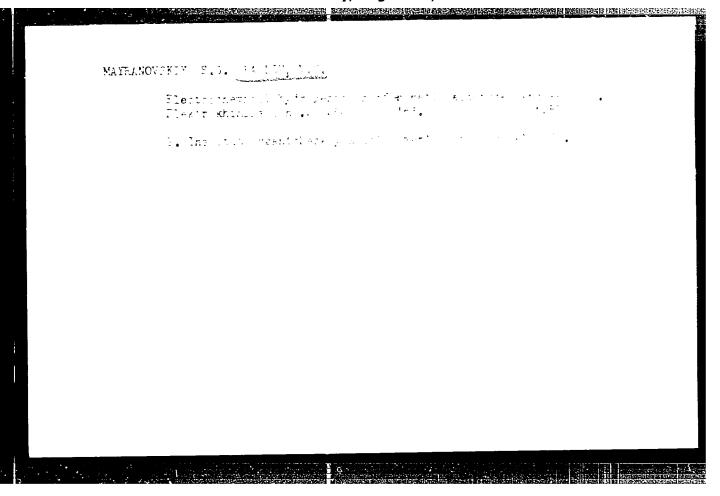
SOURCE: Zh Eksper i teor fiz, v. 50, no. 6, 1966, 1472-1477

TOPIC TAGS: magnon, phonon, magnon excitation, phonon excitation, light absorption, nickel fluoride, antiferromagnetic material, NICKEL COMPOUND, FLUORINE, ABSTRACT: The structure of the  $^{3}A_{2g}$  +  $^{1}T_{2g}$  transition in the absorption spectrum of antiferromagnetic nickel fluoride at temperatures between 4.2 and 77K has been analyzed on the basis of experimental data on its vibrational frequencies. It has been shown that band  $v_{\tau}=20,622$  cm and band  $v_{\tau}=20,717$  cm are due to electronmagnon transitions with the formation of one and two magnons, respectively, with maximum frequencies. The maximum frequency of the magnon  $v_{\rm m}=100$  cm . The maximum

Cord 1/2

acc NR: AP6020200  nature of band v <sub>1</sub> has been confirmed by an analysis of its shape, temperature dependence of spectral position, and help with analysis of its shape, temperature dependence of spectral position, and help with											
and I table   Besed on mitheral Vision   Orig. art. has: 5 figures, 1 forms.										ature depen l formu.a, [NT]	a,
SUB	CODE:	20/	SUBM DATE	: 13Jan66/	ORIG	REF:	002/	OTH REF:	005		
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PAVLOV, V.N.; ZOLOTOVITSKIY, Ya.M.; MAYRANOVSKIY, S.G.; TEDORADZE, G.A.

Study of the mechanism of electrochemical reduction of aromatic aldehydes and ketones on a mercury electrode by the faradic impedance method. Elektrokhimita 1 no.44427-433 Ap 165.

(MIRA 1814

1. Institut organicheskoy khimii AN SSSE imeni Zelinskogo i linstitut elektrokhimii AN SSSE.

**的。由于中国大学院的政治的政治的国际公司,由于**中国大学院的政治会的。14.0

# PAVLOV, V.N.

Performance of the new air distribution system developed by the State Scientific Research Institute of the Hydrolysis and Sulfite Alcohol Industry. Gidroliz. i lesokhim. prom. 17 no.6:17 '64. (MIRA 17:12)

1. Leningradskiy gidroliznyy zavod.

PAVIOV. Viktor Nikolayevich, kandidat tekhnicheskikh nauk, inzhenepe podpolkovnik; TARASENKOV, Vladimir Petrovich, kandidat tekhnicheskikh nauk dotsent, inzhener-polkovnik; POCHTAREV, H.F., inzhener-polkovnik, redaktor; MYASNIKOVA, T.F., tekhnicheskiy redaktor

[Internal combustion piston engines] Porshnevye dvigateli vnutrennego sgoraniis. Moskva, Voen.izd-vo M-va obor. SSSR, 1957. 172 p. (Gas and oil engines) (MLRA 10:8)

SATALI IN, A.V., doktor tekhn.nauk; SENCHENKO, B.A., kand.tekhn.nauk; KOMOKHOV, P.G.; KORNILOV, A.I., inzh.; PAVLOV, V.N., inzh.

Concrete mixes for mold rolling and vibration mold rolling.

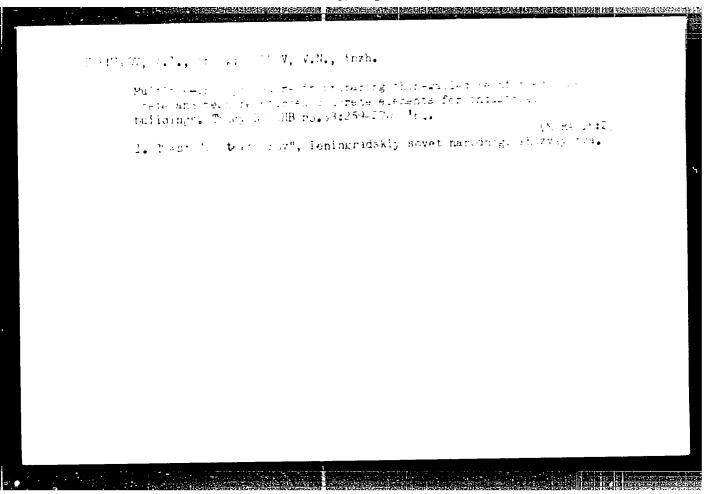
Trudy NIIZHB no.33:271-291 '64. (MIRA 18:2)

1. Ieningradskiy institut inzhenerov zheleznodorozhnogo transporta (for Satalkin, Senchenko, Komokhov). 2. Orgtekhstroy Leningradskogo soveta narodnogo khozyaystva (for Kornilov, Pavlov).

MAYRAN VSKIY, S.G.; PAVLOV, V.N.

Preliminary protonation in the reduction of aromatic ketones on a dropping mercury electrode. Zhur. fiz. khim. 38 no.7:1804-1810 J1 \*64. (MIRA 18:3)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.



s/0126/63/016/006/0931/0933

ACCESSION NO: AP4009390

AUTHORS: Yefimenko, L. N.; Nechiporenko, Ye. P.; Pavlov, V. N.

TITLE: Oxidation of tungsten disilicide

SOURCE: Fizika metallov i metallovedeniye, v. 16, no. 6, 1963, 931-933

TOPIC TACS: tungsten disilicide, oxidation, thermocouple, PtRh PtkRh thermocouple, oxidation curve

ABSTRACT: Oxidation of tungsten disilicide has been investigated. The process was conducted in air at a temperature range of 650-1500C. Samples 20 x 10 x 0.1 mm were produced in a vacuum of 5 x 10-5 mm Hg by filling tungsten plates with powdered silicon. Nichrome elements were used to produce temperatures up to 1000C, and silicon carbide elements were used for higher temperatures. The temperatures were measured with a PtRh-PtkRh thermocouple and were kept constant. In the course of oxidation the samples were weighed with an accuracy of ±0.01 mg. Below 1000C the experiments were conducted uninterruptedly; above 1000C they were interrupted the experiments were conducted uninterruptedly; above 1000C they were interrupted due to the formation of dense film on the surface of the plates. As can be seen from Fig. 1 of the Enclosure the rate of oxidation curves changed shape at various

Card 1/3

ACCESSION NO: AP4009390

temperatures. Up to 1000C the weight increase followed the formula  $W = kt^m$ , where W is the weight change per unit area (in mg/cm²), and t is the time of oxidation (in minutes). At 1150-1250C the curves assume a descending trend because at these temperatures W0, becomes extremely volatile. A dense, glassy coating of  $Si0_2$  forms at 1300C, and the process of oxidation progresses logarithmically. The formation of such a coating is described by R. Kiffer and F. Benesovsky (Symposium on Powder Metallurgy, Iron. a. Steel Inst. prep. gr., IV, 1953, 40). The logarithmic progress follows the expression  $W = k_1 \ln(k_2t + k_3)$ , where  $k_1$ ,  $k_2$ , and  $k_3$  are determined by the method described by R. Champion and R. White (J. Inst. Metals, 1949, 75, 375). Metallographic and x-ray investigation disclosed the presence of  $W_5Si_5$  under the glassy coating on  $WSi_2$  oxidized for a long time at high temperatures. Orig. art. has: 2 graphs, 3 formulas, and 2 tables.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UkrSSR(Institute of Physics and Technology AN UkrSSR)

SUBMITTED: 20Mar63

DATE ACQ: 03Feb64

ENCL: 01

SUB CODE: PH, CH

NO REF SOV: 002

OTHER: 003

Cord 2/3

MORGUNOV, N.I., kand.sel'skokhozyaystvennykh nauk; Prinimali uchastiye:
PAVLOV, V.N.; YELSEKOVA, Z.M.

Establishing artificial hayfields and permanent pastures in the repeatedly water-logged polders of Kaliningrad Frovince. Nauch trudy KJMS no.1:165-174 '50.

(Kaliningrad Province--Pastures and meadows)

(Kaliningrad Province--Pastures and meadows)

AVETISYAN, G.A.; DIK, N.Ye.; PERMAKOV, N.P.; YUSOV, B.V.;
SHCHERBAKOV, D.I., otv. red.; DOERONGAVOYA, K.O., red.;
PAYLOY, V.H., red.; MEYZENOV, B.P., red.; KOSHELEVA, S.K.,
(ekhn. red.

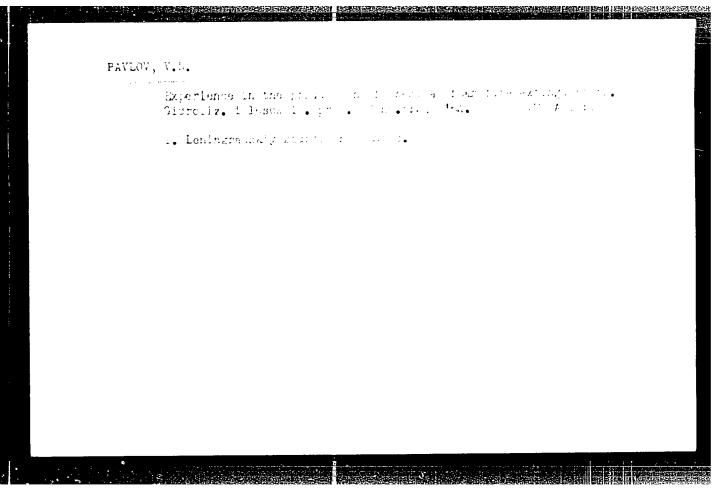
[Our metherland; chotographic album] Nasha Rodins; fotoar'bom. Foskva, Gos.izd-vo geogr.lit-ry, 1962. 388 p.

(MI.A 15:8)

(MI.A 15:8)

KUL'BA, F.Ya.; MIRONOV, V.Ye.; PAVLOY, V.N.

Effect of alkali metal cations on the formation in solutions of hydroxy complexes of bivalent lead. Zhur.neorg.khim. 6 no.12: (MIRA 14:12) 2814-2815 D \*61. (Lead compounds) (Alkali metals)

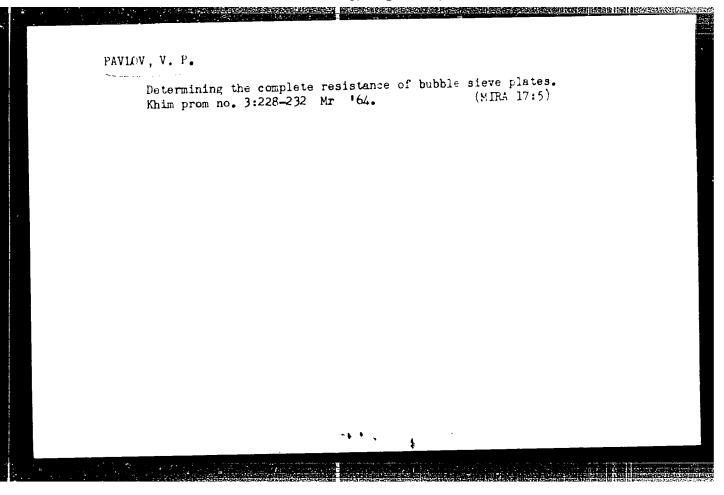


PAVIOV V. P.

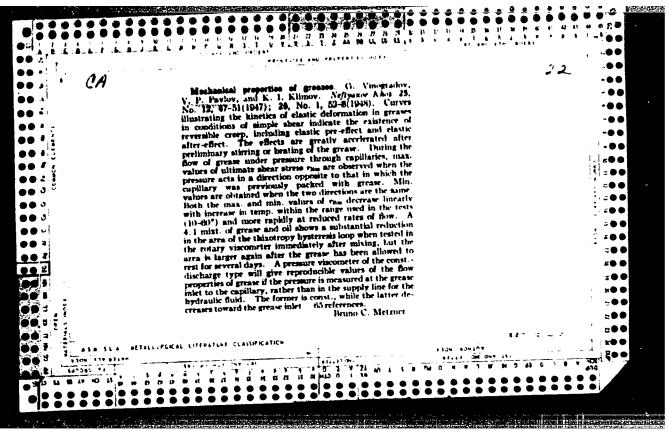
Lukashev, I. I. on Pavlov, V. F. "Nonegatic angina in horses," Shornik trudov Alarik.

vet in-ta, Vol. XIX, Issue 2, 1948, 7, 181-16

S0: U-1934, 29 Oct 53, (Letoris 'Zhurmal 'nykh Statey, No. 10, 1949).



PAVLOV, V. P.
"Synthesis or Tropenone. II. Scarching ways for the Synthesis of the Alkaloid Scopolanine."
Preobrajensky, N. A., Rubtzov, I. A., Dankova, T. F. and Pavlov, J. P. (p. 952)
Preobrajensky, N. A., Rubtzov, I. A., Dankova, T. F. and Pavlov, J. P. (p. 952)
So: Journal of General Chemistry (Zhurnal Obshchei Ehimii) 1945, Volume 15, no. 11-12.



The dependence of the rate of deformables of account grades on the abstaining grades of the No. 1 No. 2 No.

PAYLOV, V. P.

USSR/Petroleum Industry
Lubricants - Properties

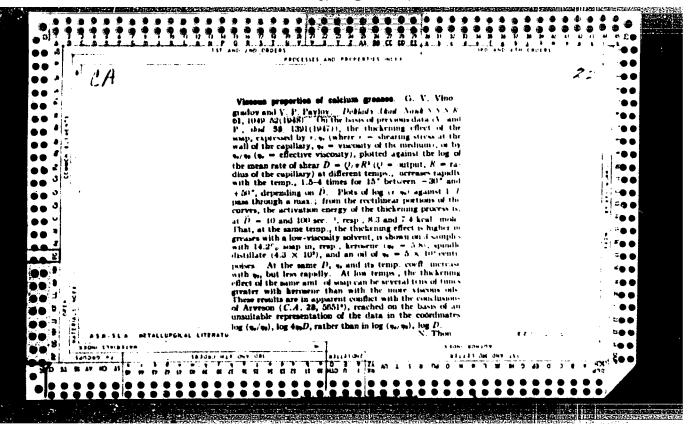
Jan 1948

\*Mechanical Properties of Lubricants," G. V. Vinogradov, V. P. Pavlov, K. I. Klimov, 62 pp

"Neft Khozyay" No 1

Discusses limited shear stresses in lubricants, and the "tiksotropy" of lubricants, study of the changes occurring in the dispersed systems of lubricants when they are acted on by constant shear stresses while they are Flowing. Also discusses equipment and methods to determine the viscosity of lubricants, Authors grateful for aid given by Senior Technicians L. F. Kalmykov, Yu. A. Naumov, A. V. Yarmakhov, and Laboratory Technician A. D. Gerasimova,

PA 51T89



PAVLOV. V. P., Engineer, Lt.-Colonel.

Dissertation: "Viscous reporties of "Solidol" (lubricant grease)." 2 Mar...

Filitary Order of Lenin Academ, of Armored and accumized Troops of the Soviet Army imeni

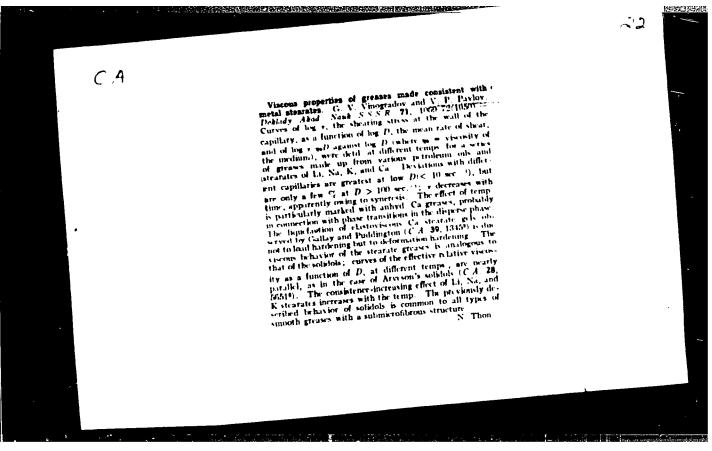
I. V. Stelin

SO Vecheryaya Moskva

Sum 71

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

#### CIA-RDP86-00513R001239



PAVLOV, V. P.			231 18	
<b>Sarte</b>	Possible to obtain thickening clays producing effects similar to those produced in greases by soaps. States that the results also refute the viewpoint found in the literature that pseudogels contg thickening soaps and those contg. clays are different in nature. Presented by Acad A. Y. Topchiyev 3 Mar 52	The properties of ag suspensions of alk bentonite (ascangel from Tsikhis Ulani, Georgian SER) were compared with a std lubricating grease, fatty solidol (mineral oil thickened with a calcium soap), and an oil pseudogel of aminated bentonite. It was shown that it is	USSR/Ghemistry - Lubricating Greases May 52 "The Rheological Properties of Bentonite Pseu- dogels," G. V. Vinogradov, V. P. Pavlov, K. I. Klimov, M. M. Gvozdev	
				DESCRIPTION OF THE PROPERTY OF

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 8, p 95 (USSR) SOV-124 57 8 9239

AUTHOR: Pavlov, V. P.

TITLE: Investigation of the Viscosity Characteristics of Disperse Systems or. a Paired Concentric-cylinder Rotary Viscosimeter (Issledovanive vyazkostnykh svoystv dispersnykh sistem na sdvoyennom rotatsionnom

PERIODICAL: V sb.: Tr. 3-y Vses, konferentsii po kolloid. khimii 1955 g

Moscow, AN SSSR 1956, pp 144-154

ABSTRACT: A description of a paired concentric-cylinder rotary viscosimeter

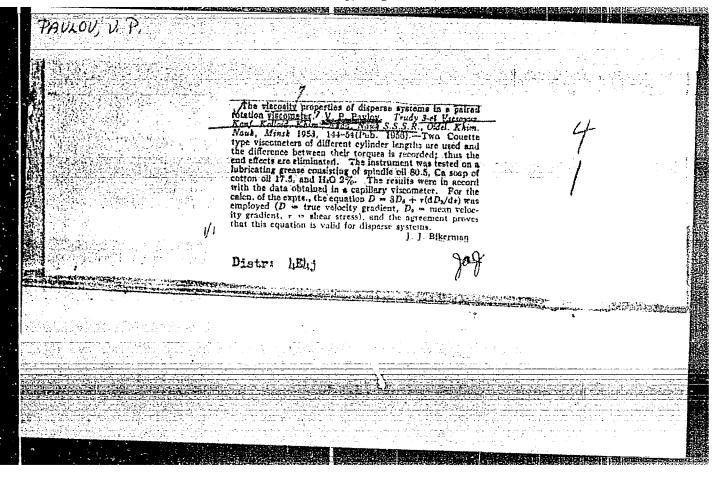
on which the relationship between the frictional stress and the shear velocity was determined for several disperse systems. The two inner cylinders of the viscosimeter, which were of identical diameter (38 mm) and different length (45 and 90 mm) and which were mutually connected by means of gears, were caused to rotate by means of an electric motor and a variable-speed fluid coupling. The latter device per mitted a continuous variation of the angular velocity of the cylinders

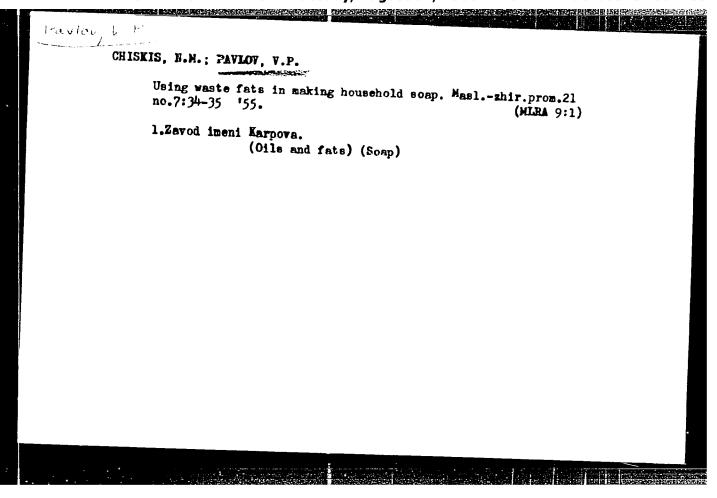
from 3 to 1500 rpm. The inner cylinders of the viscosimeter were Card 1/2 supported by perfectly identical ball bearings and were contained within

SOV 124 - 57 - 8 - 9239

Investigation of the Viscosity Characteristics of Disperse Systems (cont.)

the outer cylinder with a gap of 0.25 mm. The friction moment in the viscosimeter was measured with the aid of a spring dynamometer—which was connected—by means of a string - to the outer cylinders in such a manner that its readings were representative of the difference between the friction moments acting on the two cyl inders. This artifice excluded the friction of the ball bearings and the influence of the edge effect on the friction moments to be measured. The friction moment measurements were made at a constant rpm of the inner cylinders and a constant temperature; the constancy of the latter was ensured by a thermostat. The viscosimeter described here was used to study the friction-stress/shear-velocity relationship at various temperatures for lubricating oils concentrated clayev suspensions in water, and soap and oil systems. The curves of that relationship for calcium lubricating grease are adduced. Tests of the same grease on a capil lary viscosimeter revealed good agreement of the results. The experiments have shown, also, that the effective viscosity coefficient of the calcium grease falls off The principal advantage of the measurement of the viscosity of disperse systems on the above-described concentric-cylinder rotary viscosimeter as compared with measurement on the capillary type consists in the fact that the shearing stresses at the various points of the layer in the rotary-type viscosimeter are identical (at least within the limits of practical accuracy). Card 2/2 A I Golubes





包 1/1/2 · 1, 2, Vishnyakov, V. A., Vinogradov, G. V., salov, \_\_\_\_\_ 65-50-4-5/12 AUTHOR: TICLE: The Influence of Lubria line secial on a of Ball Bearings (O vily inii spanoe'm 's abigue ni iznos podshipnitov ticheniya) PRINTODICAL: Thirting a interpretation of the total and th ว กิร์ - โระ (ขึ่งงัก) ABCOLD : The changes due to abrusion in the presence of lubricaling ollawere inventioned to obtain inform the or the n tur, of the influence of lubric ints on the presion wear in ball beirings. The investigations for surely a out on a friction apparatus (Fig.1) with 3,300 gavely inteless. minute; 0.525 mm diameter balls mere used. The letter balls were used. The land of the standard of the st naphthenic - paraffin fraction separate the condition of A nurror fraction of quartz dus separates to Lymbertsy quarte sent (nicro hariness = approximation 1,000 te/on ) The size of the profile of the profi 01r1 1/3 from 20 - 30 . 1 from 50 - 40 mt. The fristio .te.

6**5-58-4-**5/12 The Influence of Lubric Line address on the Wear of Ball vo rir∼s

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Card 2/3

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The Influence of Lubricating Material on the Wear of Ball Bearings

oil were testel at temperatures of 10- 60°C. 5% of quartz\_dust\_(size = 20 - 30 mb) was added to the lubricant (Fig. 5). The experiments here carried out for 5 hours at 1400 revolutions/minute, and the to good ure of the lumicant = 20°C. Fig. 7 shows the decrease of ash formation of the oil in relation to the rate and duration of the mar of the ball bearing. It was found that the wear, at a given concentration and dispersion of the abrasive, is considerably lower when non-viscous lubricants (oils) are used than for viscous lubric ints. This is due to the sedimentation of the abrasive particles in non-viscous oils. Then viscous oils are used at increased temperatures, the abrasive wear depends on the dispersion and concentration of the abr sive in the lubricant, and on the Triction caused by the abrasive scanules during the povement of the bearings. There are Figures and 5 references: - 1 Inclish, 4 Pussian.

Card 3/3

Ball bearings-Inbrication 2. Ball bearings-Performance
 Lubricating oils-Test results 4. Lubricating oils-Test methods 5. Lubricating oils-Testing equipment

PAVLOV,	$V_{\alpha}P_{\gamma}$			
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PAVLOV, V. P.

"Study of the Viscose Properties of Dispersed Systems in a Double Rotary Viscosimeter" (Issledovaniye byazkostnykh svoystv dispersnykh sistem na sdvoyennom rotatsionnom viskozimetre) from the book Trudy of the Third All-Union Conference on Colloid Chemistry, pp. 144-54, Iz. AN SSSR, Moscow, 1956

(Report given at above Conference, Minsk, 21-24 Dec 53)

"A new method to determine the elastic properties at 1 the releasable phenomena, of high phenomena, a paper presented at the 7th Congress of the Chemistry and Physics of Right Fourners, 27 Jan-2 Feb 57, Moscov,.

B-3,0%,395

PAVLOV, V.P., GEOKINA, D. N., VINOGRADOV, G. V., and GEOMESKIY, M. V.

"Flow and strain direfringence of solutions and galo of etuplocal a paper presented at the Oth Congress on the Chemistry and Physics of High." Polymers, 20 Jan-2 Feb 07, Moscow, Research Inst. Physical Chem.

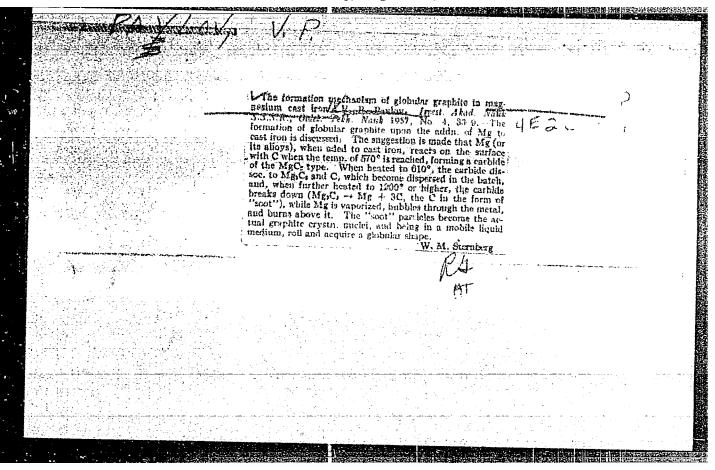
B-3,004,305

PAVLOV, V. P.

"On the Characteristics of the Physico-Mechanical and Optival Properties of Concentrated Solutions of Ethyl Cellulose and Benzyl Alcohol," D. N. Osckine in collaboration with V. P. Pavlov, G. V. Vinogradov, and M. V. Gzovskiy (reported on the usefulness of this plastic, optically active material for the modelling of tectonic processes.)

paper presented at the First All-Union Conference on Tectonophystcs, Moscow, 29 January through 5 February 1957.

Inst. of Physics of the Earth, Acad. Sci. USSR



NUSINOV, M.D.; PAVLOV, V.P.; POZIN, A.A.; EPSHTEYN, V.G.; KUKHTENKOVA, T.I.

Mechanical properties of rubber mixtures and peculiarities of their flow through slit passages. Kauch. i rez. 16 no.8:24-27 Ag '57.

(MIRA 10:11)

1. Nauchno-iesledovatel'skiy institut rezinovykh i lateksnykh izdeliy.

(Elastomers--Testing) (Rheology)

PAVLOY, VP

20-5-22/60

AUTHOR: TITLE: PAVLOV, V.P., VINOGRADOV, G.V.

New Methods and Results in the Study of Plastic Dispersion

Systems: (Novymetody i resultaty issledovaniya plastichnykh
dispersnykh sistem, Russian)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol 114, Nr 5, pp 997-1000 (U.S.S.R.)

ABSTRACT:

Plastic dispersive systems result in little deformations because of the brittleness of their structure, so that it is difficult to study relaxation processes in them. As hitherto no data have been published concerning this problem, the elaboration of a method for the study of relaxation in bodies with weak relaxation was of interest. The basic scheme of a rotation-elastoviscosimeter fitted with a rigid dynamometer is shown in form of a drawing. This dynamometer can as a rule be considered to be completely rigid. The material to be investigated is filled into the space between the core and the outer cylinder of the elastoviscosimeter. The linear displacements of this outer cylinder are increased to from 20 to 40 times their extent by means of a system of levers, after which they are increased 3000-fold by a special device, and are fixed by means of a photoregistration chamber, by means of part of the device it is possible to investigate the shearing moduli of the material under investi-

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AUTHORS: Vinogradov, G.V., Pavlov, V.P. 69-58-2 -22, 23

TITLE: The Problem of Fluidity and Stability of Structural Discerse Systems (K voprosu o tekuchesti i prochnosti strukturirovan-

nykh dispersnykh sistem)

PERIODICAL: Kolloidnyy zhurnal, 1958, Vol XX, Nr 2, pp 248-253 (USSR)

ABSTRACT: This article contains a discussion on problems of modern

rheology. The dependence of the shear stress on the defirmation of bitumens which are highly viscous, weakly elastic, and structural disperse systems, is dealt with. Different methods give slightly different results. The elementary apparatus used for the investigations under discussion gives reliable results only for systems with low elastic deformations and may not always be applied to rheological processes taking place in highly elastic bodies. The juxtaresition of systems with large (aluminum naphthenate sels, etc.)

and small (bitumens) elastic deformations must be met with

great caution.

Card 1/2

The Problem of Fluidity and Stability of Structural Disperse Systems

There are 4 graphs and 14 Soviet references.

SUBMITTED: July 12, 1957

1. Dispersion systems—Stability 2. Dispersion systems—Fluidity

Card 2/2

SOV/20-122-4-30/57 5(4)

Povlov, V. P., Vinogradov, G. V. AUTHORS:

The Elastic- and Strength-Properties of Plastic Dispersed TITLE:

Systems in Connection With the Phenomenon of Thirotropy (Uprugo prochnostnyje svojstva plastichnykh lispersnykh

sistem v svyazi s yavleniyem tiksotro; ii)

Doklady Akademii nauk SSSR, 1958, Vol 127, Mr 4, p; (46-64) PERIODICAL:

(USSR)

The investigations were carried out by means of an elasto-ABSTRACT:

viscosimeter with concentric cylinders. The authors determined the function  $\tau(\gamma)$  and the shear coefficient 7 of various Ilastic lubricants at 20° under static conditions and also for steady and non-steady revolutions of the cylindrical core of the dynamometer.  $\tau$  denotes the shear stress and  $\gamma$ the deformation. A diagram shows the function  $\tau(\gamma)$  of fatty lubricant grease found for  $n = 2.4.10^{-4}$  revolutions per minute.

An other diagram gives the results obtained by measuring the coefficients of the shear of fatty lubricant grease after filling the measuring apparatus with this substance, during

its relaxation, and during the tests. After the stopping of Card 1/2

SOV/20-122-4-30/57

The Elastic- and Strength-Frozerties of Plastic Dispersed Systems in Connection With the Phenomenon of Thixotropy

the revolution of the dynamometer core, an increase in g is observed because of the thixotropic restoration of the lubricant structure. Even for  $n\sim 10^{-5}$  revolutions per minute, the values of g were by 10 % lower than the corresponding values found under static conditions. The coefficient of shear g and the shear strength  $\tau_{\rm str}$  depend differently on the deforma-

tion of plastic bodies. The elasticity- and the shear-strength are caused by different kinds of bonds between the particles of the dispersed phase. There are 4 figures and 4 references, 4 of which are Soviet.

PRESENTED: May 17, 1957, by A. V. Topchiyev, Academician

SUBMITTED: May 17, 1957

Card 2/2

SOV/179-59-2-18/40

AUTHORS: Vinogradov, G.V. and Pavlov, V.P. (Moscow)

TITIE: Elastic and Strength Properties of Soft Bodies (Uprugiye i prochnostnyye svoystva myagkikh tel)

PERIODICAL: Izvestiya Akademii nauk SSSR OTN, Mekhanika i mashinostroyeniye, 1959, Nr 2, pp 134-141 (USSR)

World Congress on Rheology, September 1958. Experiments were carried out in a rotational elasto-viscometer with concentric cylinders, the space between which was filled concentric cylinder investigation. In some experiments, with the material under investigation. In some experiments, the inner cylinder was fluted, but in others it was plain. The speed of rotation could be varied from 4 x 10 to to to the speed of an optical magnification device. The rotation by means of an optical magnification device. The rotation could be started and stopped almost instantaneously, thus could be started and stopped almost instantaneously, thus permitting the stress relaxation properties to be determined. The stress/deformation/time curves are given for a grease and for pastes of bentonite in water, and deformation/velocity/ time curves for the grease. The dependence of shear modulus and limiting shear strength on the deformation velocity is

Card 1/2

5 7 1 July 12 1 11

. 5(4), 10(4)
AUTHERS: Pavlov, V. P., Vinogradov, G. V.

TITLE: The Thermal Effect During the Motion and the Stopphie for Flow of Amenalously Viscous Bodies (Teplovyye effectly its

techenii i ostanovke potoka anomaline waskich tele

PERIODICAL: Doklady Akademii nauk SSUR, 1959, Vol 125, Nr 1,

pp 1061 - 1064 (USSE)

ABSTRACT: The processes of heat liberation in a flew are lest invertigated in the case of high homogeneity of the first of

shearing stresses. In the present paper the thereal effects were therefore investigated by means of a rotation viscous meter already previously described (Ref 3). The operational surfaces of the cylinder were ground. The temperature increase (T) in the flow was determined with an accuracy of up to ± 0.005° by means of a differential thermocouple. The time dependence of T was recorded on photographic water by

dependence of T was recorded on photographic larger by means of a mirror galvanometer and a photographic carer. A typical photograph illustrates the results obtained by

Card 1/4 periments carried out with Newton liquids. Temperature in-

AND THE PROPERTY OF THE PROPER

The Thermal Effect During the Motion and the Stoppage Soldier of a Flow of Anomalously Viscous Bodies

the entire energy supplied is transferred to the therm so the in form of heat and. The const holds. Next, temperature the tion in the flow is investigated by analysis. The entire specific power input N is assumed to be transferred in the that. One part of this power is used for heating the adjunction, the other is conveyed to the transferred that the heat balance of the process may be expressed by the equation.

$$D' = c \frac{d(T)}{dt} + k \cdot T.$$

Here c denotes the specific heat of the subject ander the tigation (referred to the volume), and k - the coefficient of the heat transfer from this substance to the liquid fix the thermostat. Herefrom it follows for the slowing too. If

Card 2/4

$$0 \frac{d(T)}{dt} + k_1 \wedge T = 0.$$

The Thermal Effect During the Metics and the Stoppen of a Flow of Anomalously Viscous Bodies

By integration of this equation t.

$$c \perp T_s = -k \int_{t_s} Tdt = kmS_1 = E_1$$

is obtained, where m denotes a proportional factor. For topurpose of determining the coefficient k the authors involve gated the dependence of  $\Delta T_{\rm q}$  on DM. The test objects used

were Newton liquids (petroleum), plastic dispersive systems of the type of consistent lubricants, concentrated solutions of ethyl cellulose and aluminum naphthenate in some solvents, as well as other substances. It was confirmed that the equation D=k bolds and that k does not depend on Dy and the

rheological properties of the substances to be investigated. Next, the phenomena accompanying slowing down if a flow of highly complicated structural systems is investigated. A diagram gives data concerning the time dependence of the integral and differential thermal effects, which are 'pix diagrams'.

Card 3/4

The Thermal Effect During the Motion and the Stoppage of a Flow of Anomalously Viscous Bodies

of such substances, after a sudden stoppage of the The authors thank Academician V. A. Kargin for discussing this paper and for his valuable advice. There are 3 features. I table, and 3 Soviet references.

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nari SSSI (Institute for Petroleum-Chemical Syntheses of to Alademy of Sciences, USSA)

PRESENTED: January 5, 1959, by V. A. Kargin, Academician

SUBMITTED: December 17, 1958

Card 4/4

SOV/20-127-2-35/70 5(4) Vinogradov, G. V., Mamakov, A. A., Pavlov, V. P. AUTHORS:

The Flow of Anomalous Viscous Systems Under the Action of Two

Pure Shearing Stresses in Mutually Perpendicular Directions

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp 362-365 PERIODICAL:

(USSR)

TITLE:

In the clearance between two coaxial cylinders, both an axial ABSTRACT:

and a radial flow are possible. Thus, the possibility is given of comparing different forms of flow of anomalous viscous systems under different shearing stresses and at different velocity gradients in one and the same apparatus. Grease-"solidol" consisting of 86.2% spindle oil, 12% Ca-soaps of cottonseed oil, and 1.8% water, was the material used for the experiments. A high-viscosity Newton liquid, an extract of resins and polycyclic aromatic hydrocarbons from petroleumdistillation residues, served as control liquid. The measurement was made in a system with two rotary viscosimeters with coaxial cylinders, differing by the size of the cylinders' working surfaces. Concerning the shearing stress for axial

flow it holds according to references 3 - 5: Card 1/4

The Flow of Anomalous Viscous Systems Under the SOV/20-127-2-35/70 Action of Two Pure Shearing Stresses in Mutually Perpendicular Directions

 $\mathcal{T}_{ax} = \Delta p \frac{H}{2L}$  ( $\Delta p$  = pressure drop per unit of length of the cleft in axial direction, H = cleft width, L = length of cylinder surface). For the velocity gradient it holds:

 $\overline{D}_{ax} = Q(2\pi RH^2)^{-1}$  (Q = amount of flow, R = radius of the inner cylinder). Checking revealed that the method applied yielded well reproducible results. Experimental results with "solidol" are shown in logarithmic coordinates in figure 1. Table 1 contains the values for  $\overline{D}_{ax}$ . With simultaneous axial and radial flow,  $\Delta$ p and the moments of resistance are measured at different  $\overline{D}_{rad}$  (Fig 2). Curves 1 show the flow in the case of a purely axial flow ( $\overline{D}_{rad}$  = 0), curves 2 - 7 show the dependence  $\overline{D}_{ax}$  ( $\overline{T}_{ax}$ ) for given  $\overline{D}_{rad}$ . In the case of a homogeneous shearing stress field all over the clearance, the radial flow brings out a destruction of the structure and transforms the plastic body into an anomalous-viscous liquid.

Card 2/4

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The Flow of Anomalous Viscous Systems Under the SOV/20-127-2-35/70 Action of Two Pure Shearing Stresses in Mutually Perpendicular Directions

The higher D<sub>rad</sub>, the lower becomes viscosity. Hence, at given D<sub>ax</sub> with rising D<sub>rad</sub> the shearing stress T<sub>ax</sub> drops, whereas at given T<sub>ax</sub> with rising D<sub>rad</sub> also D<sub>ax</sub> increases strongly. In the case of a radial flow the plastic systems were found capable of flowing out axially under the action of much lower pressures, as compared to the absence of a radial flow. A remarkable fact is that in the case of low T<sub>ax</sub> there is a direct proportionality between D<sub>ax</sub> and T<sub>ax</sub>. If D<sub>ax</sub> is very large as compared to D<sub>rad</sub>, and assuming high temperatures, The effect of the radial flow becomes unimportant. The effect of the axial flow on the radial is shown in figure 3. Figure 4 depicts the superposition of T<sub>rad</sub> and T<sub>ax</sub>. In the case of a combined shear the flow curves lie in a fork which is formed by the curves of the purely radial and

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The Flow of Anomalous Viscous Systems Under the Action of Two Pure Shearing Stresses in Mutually Perpendicular Directions sov/20-127-2-35/70

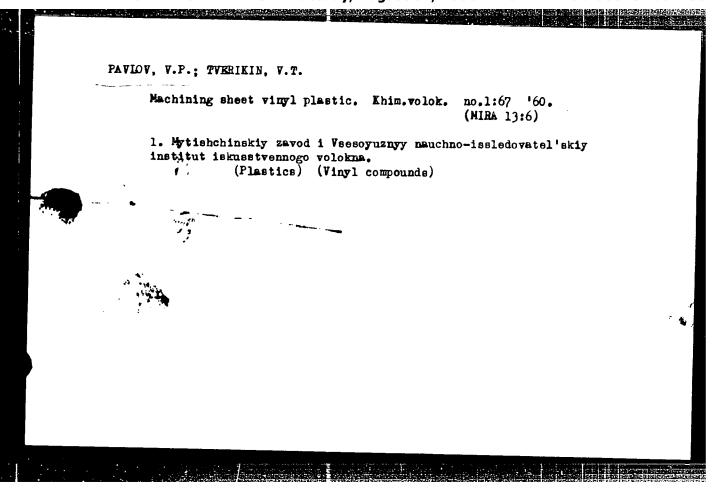
purely axial flow. The authors thank Academician V. A. Kargin for advice. There are 4 figures, 1 table, and 7 references,

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petroleum-chemical Synthesis of the Academy of

PRESENTED: March 2, 1959, by V. A. Kargin, Academician

SUBMITTED: March 21, 1959 (sic)

Card 4/4



\$/152/60/000,'003/003 '003 BO23/BO60 Vinogradov, G. V , Mamakov, A A , Pavlov, V P Homogenization and Rheological Properties of Plastic AUTHORS: Izvestiya vysahikh uchebnykh zavedeniy Neft i gaz, 5060, (Consistent) Lubricants | TITLE . TEXT: The first author has pointed out in a previous paper that the majority of industrial lubricants are micrograined systems (Ref !) In the country of industrial lubricants the cuthors set the following PERIODICAL: the study under consideration, the authors set themselves the following tasks: 1) to work out a colloid mill, where lubricants can be subjected to an intense homogenation under rigorously defined conditions; 2) to study an intense nomogenation under rigorously defined conditions, 2) the test the rheological properties of typical industrial lubricants The test objects were lubricant 201 (FOUT 6267-52)(GOST 6267.52) and Greasell objects were lubricant 201 (FOUT 6267-52) mbo rhoological conditions of the conditions of VCc -2 (USs -2) FOCT 4366-50 (GOST 4366-50). The rheological properties of fresh and homogenized lubricants were intercompared. The determination was carried out by a plastoviscosimeter (Ref 8) The temperature was 20 Fig. 1 shows the scheme and the construction of the homogenizer which is Card 1/4

s/152/60/000/001/001/001 Homogenization and Rheclogical Properties BO23/B060 thoroughly described along with the working frinciple Homogenation was thoroughly described along with the working frinciple. Homogenation we performed with an axial feed of lutricant 20°) and 3.27 10° (synthetical deformation rate of 5.25 10°) (subticant 20°). of Plastic (Consistent) Lubricants grease) Phenomena of hysteresis are observed to be common to all free from the deformation (non-homogenized) lubricante in the study of management to deformation grease) rhenomena of hysteresis are observed to be common to are reconstruction (non-homogenized) lubricants in the study of viscosity, the deformation rate varying considerably Successive increase and decrease of the deformation rate leads in graphical representation to noncoinciding flow curves. The study of homogenized lubricants revealed two tyffs To the first belongs lubricant 201 Lubricants of this type are intensively destroyed under the action of high deformation rates their rheological properties are changed irreversibly The results obtained from the study of the vision of lubricant 201 are or agreement with the determination properties are commised inteversionly the results not ained from the start of the viscosity of lubricant 201 are in agreement with the determination of the limit veloce of Aurebility (making it which do not change after the of the limit veloce of Aurebility (making it) of the viscosity of lubricant 201 are in agreement with the determination of the limit values of durability (Table 1), which do not change after the of the limit values of durability (Table 1), tubricants of the political transfer to the political transfer transfer to the political transfer transfer to the political transfer transfe lubricant has been allowed to rest", either Lubricants of the 70' tyre distinguish themselves especially by their micrograininess Jected to an intense homogenation they excer by stable theolog: a. Jected to an intense nomogenation they exce. by stable theological mechanical properties which do not change with time and are not change that the properties are not change with time and are not there is not considered the intensity of the contract of th actions, provided the intensity of such actions is lower than that of Here homogenation. The synthetic grease  $US_3$ -2 belongs to the second type Here homogenation. Card 2/4

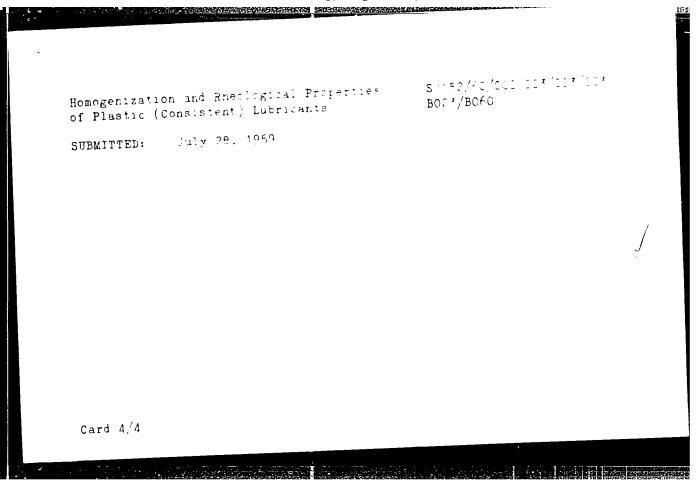
Homogenization and Rheological Properties of Plastic (Consistent) Lubrican's

\$/152/60/000/003/003/003/003 B023/B060

one may observe, besides irreversible changes, also such of larricant properties with time. In addition, also phenomena of hypercolls appear here after an intense mechanical action. The principal characteristic is however, that these lubricants, when intensively homogenized, may be regarded as Newton's liquids. The viscosity of these lubricants does not depend upon the length of the "resting" period. Table 1 shows the change of the limit values of durability for both types with time. The inferences between the lubricants of the first and the second type are interrelated with the differences in the structure of the disperse phase. The decisive factor, however, is the coarse-grained structure of the 201 lubricant. This structure accounts for the irreversibility of the changes of theological properties. The inability of grease US<sub>3</sub>-2 to restore its rheological properties after "resting" is to be explained by the fact that particles of the disperse phase of a colloidal dimension are present in grease. There are 3 figures, 2 tables, and 9 Soviet references.

ASSOCIATION: Kazanskiy knimiko-tekhnologicheskiy institut im S.M. Kirova (Kazan Institute of Chemical Technology imeni S. M. Kirova

Card 3/4



29山8 S/081/61/000/017/150/166 B117/B110

11.9000

AUTHOR:

Pavlov, V. P.

TITLE:

Thermal effects accompanying the flow of plastic lubricants

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 17, 1961, 473, abstract 17M227 (Tr. 3-y Vses. konferentsii po treniyu i iznosu v

mashinakh, M., AN SSSR, v. 3, 1960, 277-284)

TEXT: A fundamental difference was established between normal liquids and structural disperse systems (plastic lubricants) while studying heat liberation during a flow of lubricants in capillary tubes and rotary viscosimeters. Heat liberation (heating) of deformable plastic lubricants (aliphatic and synthetic greases, Li lubricants, and others) passes through a maximum after a certain period, once the material flux is stopped. Heat liberation is retarded due to the energy expended to destroy the lubricant structure in the flow. Heat liberation, however, corresponds to the energy of lubricant structure formation in the state of rest. It was shown that the conversion of plastic energy stored at the beginning of deformation of plastic lubricants into heat is of no essential importance,

Card 1/2

PAVIOV, V.P.

Physical region of a five-tail in terms of five invariants.

Zhur. eksp. i teor. fiz. 45 no.5:1606-1611 N '63. (MIRA 17:1)

1. Matematicheskiy institut imeni V.A. Steklova AN SSSR.

BEZBOROD'KO, M.D.; VINOGRADOV, G.V.; PAVIOV, V.P.

Effect of lubricants and antiwear additives on the abrasive wear of metals in sliding friction. Izv.vys.ucheb.zav.; neft' i gaz 3 no.2:73-79 '60. (MIRA 13:6)

1. Voyennaya ordena Lenina akademiya bronetankovych voysk im.

(Lubrication and lubricants)

DETHEGA, Yu.F.; DUMANSKIY, A.V.; VINDGRADOV, G.V.; PAVLOV, V.P.

Dielecectric and rheological properties of disperse plastic systems.

Koll.zhur. 22 no.1:16-22 Ja-F '60. (MIRA 13:6)

1. Institut obshchey i neorganicheskoy khimii AN USSR, Kiyev.

(Olls and fats)

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1274,1333,1263

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B003/B056

54400 AUTHORS:

Osokina, D. N., Gzovskiy, M. V., Vinogradov, G. V., and

Pavlov, V. P.

TITLE:

Investigation of the Processes of Plastic Deformation by Means of Ethylcellulose \Solutions and Gels and Optical

Polarization

PERIODICAL: Kolloidnyy zhurnal, 1960, Vol 22, No. 4, pp. 434-442

TEXT: The investigations described in the present paper deal with the problem as to whether it is, in principle, possible to study shear stress and rate of deformation in plastically deformable soft bodies by the method of optical polarization. The results obtained may be usefully applied in the mechanics of disperse systems, of tectonic physics, etc The measurements were carried out in a device designed by V P Pavlov (Ref 13) and constructed by the Institut fiziki Zemli AN SSSR (Institute of Geophysics of the AS USSE), which simultaneously, fulfilled the function of a plastoviscosimeter and a dynamooptimeter. The device schemat-

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Investigation of the Processes of Plastic S/069/60/022/004/004/005/XX Deformation by Means of Ethylcellulose Solutions and Gels and Optical Polarization

ically shown in Fig. 1 and described in detail in the original paper contains, among other things, a KCN-5 polariscope (KSP-5), as well as a Berek compensator for measuring the optical effect. The dependence of shear stress on deformation as well as the deformation-kinetic diagrams were ascertained with the help of Pavlov's elastoplastoviscosimeter (Ref. 14). The material used was Soviet ethylcellulose of the type K-290

(K-290) with a molecular weight of 7.7.10<sup>4</sup> and a substitution degree of 46.25%. The viscosity of a 5% alcohol benzene solution was -290 centipoise at 20°C. The ethyl cellulose was used in a dissolved state in benzyl alcohol (of different concentrations) and/or in benzyl alcohol dibutyl-alcohol (of different concentrations) and/or in benzyl alcohol dibutyl-phthalate mixtures (whose mixing ratio was varied in a 30% concentration) The measured results are shown in the diagrams of Figs. 2 - 5. The modulus of shear of the ethyl cellulose solutions was between 0.01 and

 $1 \text{ kg/cm}^2$ , the viscosity between  $10^2$  and  $10^7$  poise. Owing to their mechanical properties, the solutions in benzyl alcohol corresponded to highly viscous Newton liquids having a completely linear dependence of

Card 2/3

Instrument for a simultaneous study of dielectric and rheological properties of viscoplastic materials. Zav.lab. 26 no.3:353-356 (MIRA 13:6) '60.

1. Institut obshchey i meorganicheskoy khimii Akademii nauk USSR. (Materials—Electric properties) (Rheology)

Wushnarev, D.M., kand. tekhn. nauk; PAVLOV, V.P., gornyy inzh.

Using igdanite and water-containing explosives in strip mines of the "Apatit" Combine. Vzryv. delo no.54/11:356-362 '64. (MIRA 17:9)

1. Gosudarstvennyy institut gornokhimicheskogo syr'ya.

## PAVLOV, V.P.

Soviet electric welding devices at an international exhibition held in Great Britain. Elektrotekhnika 34 no.10:71 0 63. (MIRA 16:11)

1. Vsesoyuznoye ob"yedineniye "Mashinoeksport".

ZAV'YALOV, O.I.; PAVLOV, V.P.

Spectral representations of inelastic amplitudes in perturbation theory. Zhur.eksp.i teor.fiz. 44 no.5:1500-1508 My '63.

(MIRA 16:6)

1. Matematicheskiy institut AN SSSR.

(Scattering (Physics)) (Invariants)

L 10215-63 EWT(1)/FCC(w)/

BDS--AFFTC/ASD--LJP(C)

ACCESSION NR: AP3000042

8/0056/63/044/005/1500/1508

AUTHOR: Zav'yalov, O. I.; Pavlov, V. P.

33

TIME: Spectral representations of a five-point diagram in perturbation theory.

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 44, no. 5, 1963, 1500-1508

TOPIC TAGS: perturbation theory, five-point diagrams, inelastic scattering, double dispersion relations

ABSTRACT: The analytical properties are studied of the inelastic scattering amplitude corresponding to a fifth-order loop diagram with arbitrary masses on the lines. It is found that the double spectral representations obtained (of the Mandelstam type) are needed even for the convergence of the partial-wave expansion of the inelastic amplitude. A method of investigation analogous to that used by Vladimirov (Ukr. Matem. Zhurn. vol. 12, 132, 1960) in application to loop diagrams of fourth order results in a single and in a double dispersion relation. Several restrictions on the masses and on the fixed invariants, necessary for the obtained Mandelstam representation to hold, are found.

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ACCESSION NR: AP3000042

Even the weakest of these restrictions are violated in the physical region, and the representation does not hold true, owing to the presence of singularities in the complex plane of the spectral invariant. Perturbation theory thus indicates that in the physical region even the one-dimensional spectral representation of the amplitude for multiple production has an extremely complicated form, and the possibility of finding a region (in part physical) in which the contribution from the complex singularities can be neglected is quite attractive. "In conclusion we express our deep gratitude to V, S, Vladimirov for a number of discussions and valuable remarks. We consider it out pleasant duty to thank A. A. Logunov, M. K. Polivanov, K. A. Martirosyan, I. T. Todorov, and V. Ya. Faynberg for discussing Orig. art. has: 24 formulas and 5 figures.

ASSOCIATION: Matematicheskiy institut Akademii nauk SASR (Mathematics Institute Academy of Sciences, SSSR)

SUBMITTED: 12Apr62

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NR REF SOV: 004

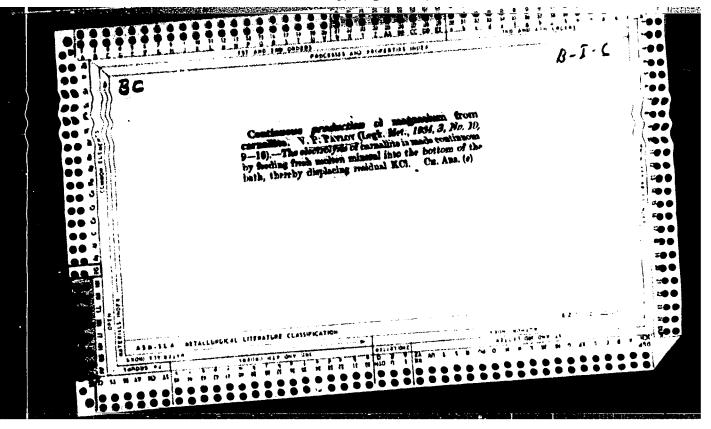
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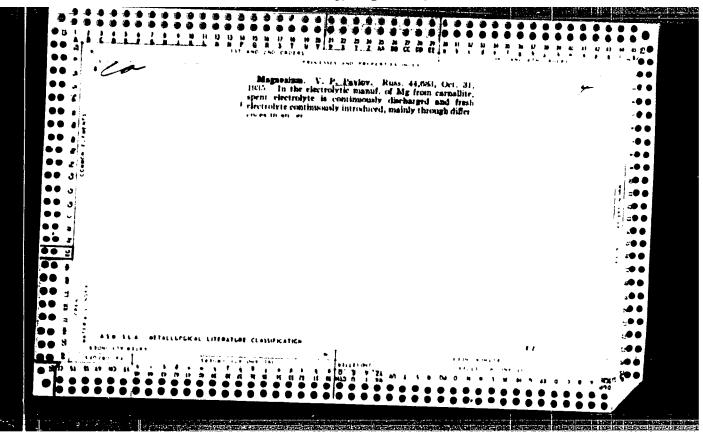
Cord 2/2

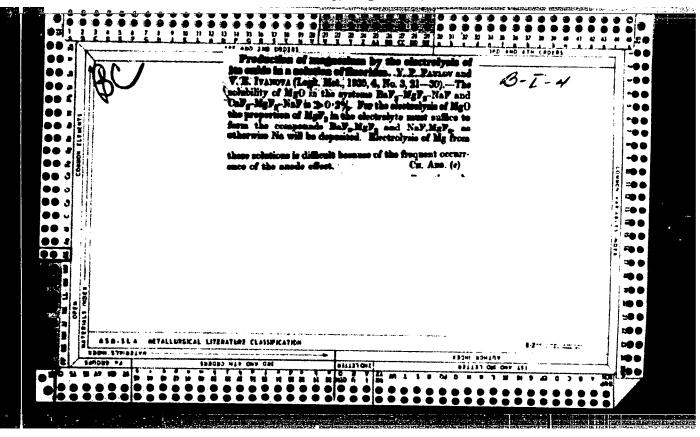
PAVLOV, V. P., agronom-entomolog (Groznyy); KAZIMIROV, A., sadoved-lyubitel', personal'nyy pensioner (Luninets, Brestskoy obl.)

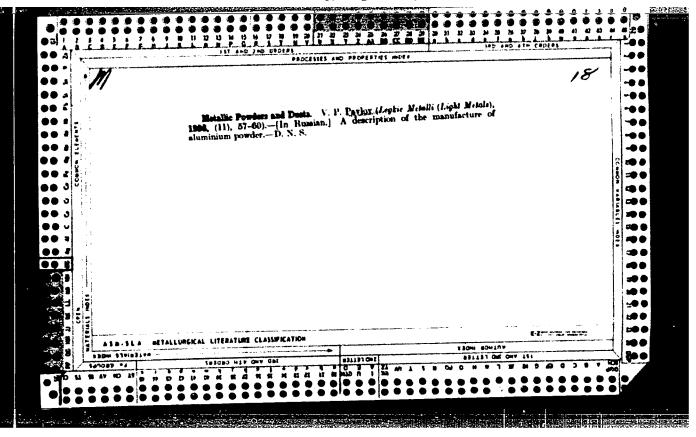
Readers' letters. Zashch. rast. ot vred. i bol. 6 no.6:13 '61. (MIRA 16:4)

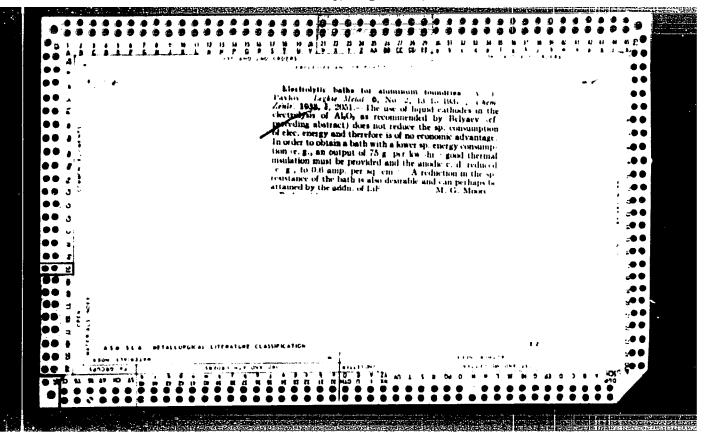
(Plants, Protection of)

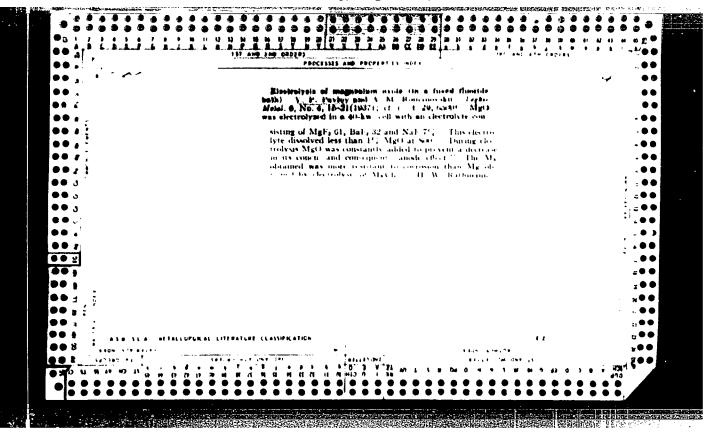


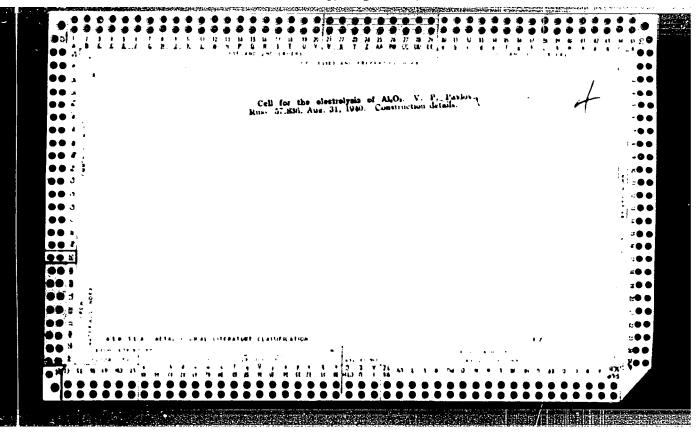


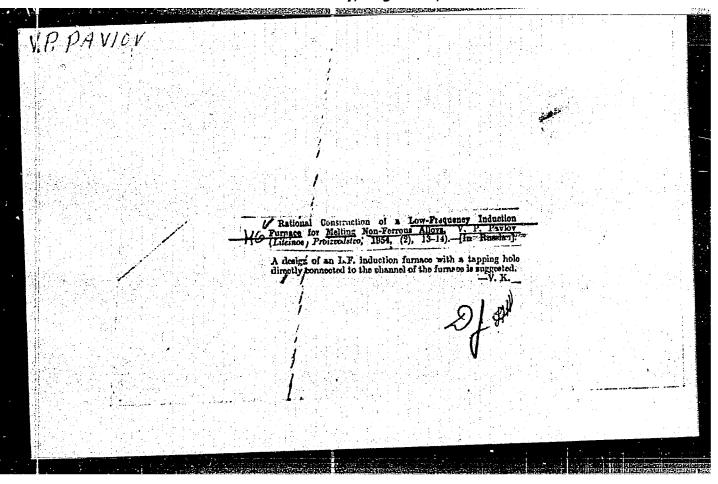


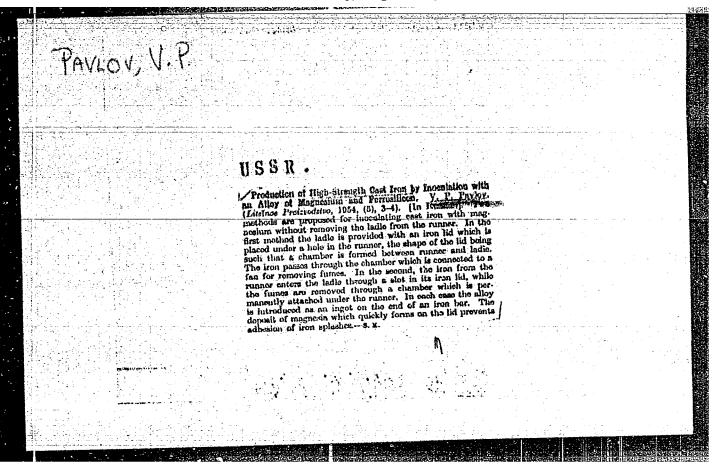












SIMPOROV, G. Te., gerny inzhener; TRNETKO, A.A., gernyy inzhener; PAVLOV, V.P., gernyy inzhener.

Measures to increase the life span of ore chutes and delivery ramps.

(Ger.zhur.ne.12:56-57 D '55.

(Krivey Reg.-Mining engineering)

