USSR/Farm Animals. Cattle.

Q

Abs Jour: Ref Zhur-Biol., No 17, 1958, 78725.

Author : Demchenko, P.Y.

Inst Title

: Increase of Early Maturity of Cattle - An Important

Economic Factor.

Orig Pub: Zhivotnovodstvo, 1957, No 9, 29-35.

Abstract: It is recommended to conduct the first covering

at the age of 15-16 months, in order to obtain the first calving from the cows at 24-26 months.

Card : 1/1

DEMCHENEO, P.V., kand.sel'skokhozyaystvennykh nauk.

A discussion on the protein problem to be concluded. Zhivotnovodstvo 20 no.8:19-23 Ag '58. (MIRA 11:10)

, (Proteins). (Feeding and feeding stuffs)

DEMCHENKO, P.V., kand.sel'skokhozyaystvennykh nauk

International conference on protein problems in stockbreeding
(concluded). Zhivotnovodstvo 20 no.9:38-45 S '58. (MIRA 11:10)
(Froteins) (Feeding and feeding stuffs)

DENCHENKO, P.V., kand. sel'skokhozyaystvennykh nauk

Evolution of the mixed feed industry under the seven-year plan.

Zhivotnovodstvo 21 no.1:45-49 Ja '59. (MIRA 12:2)

1. Zaveduyushchiy laboratoriyey kombikormov Vsesoyuznogo nauchnoissledovatel skogo instituta zhivotnovodstva.

(Feeding and feeding stuffs)

DEMCHENKO, P.V. kand.sel'skokhozyaystvennykh nauk

Nitrogen metabolism in growing cattle. Zhivotnovodstvo 21 no.8:15-22
AE '59.

(Cattle—Feeding and feeds) (Nitrogen metabolism)

DEMCHENKO, P. V., Doc Agr Sci -- (diss) "Matter and energy metabolism in large horned cattle in the periods of their growth, development, and first year of lactation." Leningrad-Pushkin, 1960. 37 pp; (Ministry of Agriculture RSFSR, Leningrad Agricultural Inst); 180 copies; free; bibliography on pp 36-37 (18 entries); (KL, 50-60) 735)

1.10元 的过去,可以结构对这种的特别的的比较级。 **1.000 为以对非常的变形的,也可以可能是是** 1.000元 1.00元 1.00元

DEMCHRIKO. Patr Vasil'yevich: KADIYEVA, Ye.V., red.; PEVZNER, V.I., tekhn.red.

[Weeding high-productive cows] Kormlenie vysokoproduktivnykh korov. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 182 p.

(Gows--Feeding and feeds)

ZAKHARCHENKO, A.L.; DEMCHENKO, P.V.; YAKUKHINA, A.F.; SOLOV'YEV,
B.F.; KINSH, A.S.; MINENKOVA, V.R., red.; PEVZNER, V.P.,
tekhn. red.; TRUKHINA, O.N., tekhn. red.

[Reference book on corn]Spravochnik po kukuruze. Moskva,
Sel'khozizdat, 1962. 519 p. (MIRA 16:4)

(Corn (Maize))

## POLYVANNYY, I.R.; DEMCHENKO, R.S.

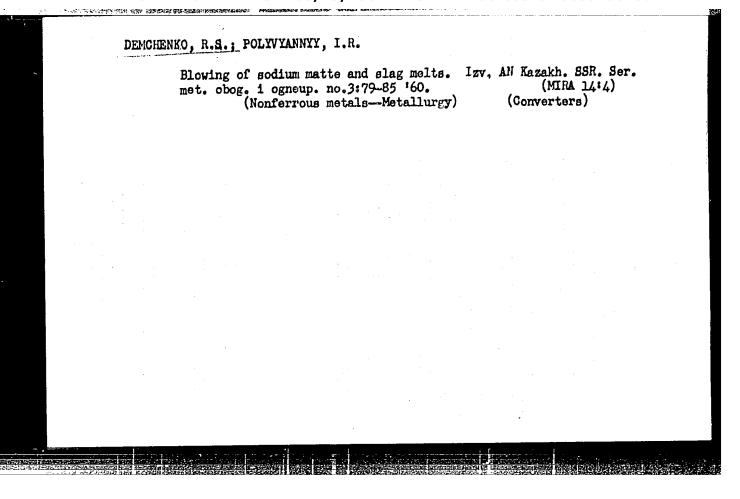
Rate of reduction of sodium sulfate. Isv.AN Kasakh.SSR. Ser.met.obog.i ogneup. no.2:34-42 60. (MIRA 13:8) (Sodium sulfate)

POLYVYANNYY, I.R.; DEMCHENKO, R.S.; PONOMAREV, V.D.

Sodium sulfate method of treating lead concentrates. Izv. AN Kazakh.SSR. Ser. met. obog. i ogneup. no.3:52-63 '601 (MIRA 14:4) (Lead—Metallurgy) (Sodium sulfate)

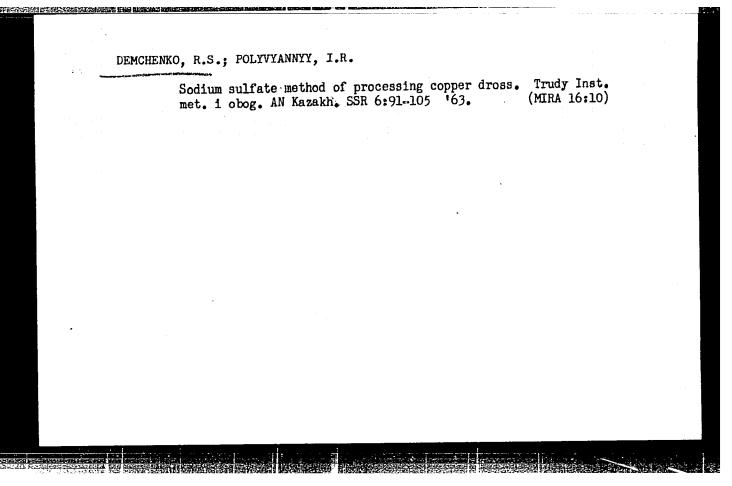
TARABAYEV, S.I.; DEMCHENKO, R.S.; SHCHUROV, K.A.

Equilibrium in sulfide - chloride systems. Izv.AN Kazakh.SSR.
Ser.met.,obog.i ogneup. no.2a13-25 '58. (MIRA 16:2)
(Systems (Chemistry)) '(Hydrometallurgy)



POLYVYANNYY, I.R.; DEMCHENFO, R.S.; SOLOV'YEVA, V.D.

Over-all recovery of metals from the intermediate products of lead industry. Izv. AN Kazakh. SSR. Ser. met., obog. i ogneup. no.3: 20-26 '61. (MIRA 15:1) (Ilonferrous metals--Metallurgy) (Lead industry--By-products)



POLYVYANNYY, I.R.; MALKIN, Ya.Z.; PONCMAREV, V.D.; SOLOV'YEVA, V.D.; SOSNIN, A.P.; DEMCHENKO, R.S.

AND THE CONTRACTOR OF THE PROPERTY OF THE PROP

Leaching arsenic from arsenic dust by sedium sulfide solutions.
Trudy Inst.met.i obog. AN Kazakh.SSR 11:90-100 64.

(MIRA 18:4)

DEMCHENKO, R.S.; POLYVYANNYY, I.R.; TSEFT, A.L.

Investigating the kinetics of the thermochemical decomposition of sodium carbonate. Trudy Inst.met.i obog. AN Kazakh.SSR 11:101-106 \*64. (MIRA 18:4)

POLYVYAHNYY, I.R.; DEMOHENKO, E.S.; MILYIPTINA, N.A.

Investigating the aqueous leaching of tungsten-molybdenum containing molten sedium matte. Trudy Inst. met. i obog. AN Kazakh. SSR 12:154-160 '65. (MIRA 18:10)

VZNUZDAYEV, S.T.; DEMCHENKO, R.V.

Regionalization of artesian waters in Moldavia for the purpose of their utilization for irrigation. Izv. AN Mold. SSR no.8: 40-52 163. (MIRA 18:5)

L 25238-65 EMU(1)/EMU(r)/EMT(m)/EFF(c)/EFF(n)-2/EFR/EMP(1)/T/EMA(h)/EMA(1)  FC-1i/Fe-5/Fr-1i/Fs-1i/Fb-1i/Peb RPL CO/RM/WM  ACCESSION NR: AP5002750 S/0073/64/030/012/1318/1321  AUTHOR: Kornev, K.A.; Kachan, A.A.; Chervyatsova, L.L.; Polak, L.S.; Mertvichenko, Ye. F.; Demchenko, 8.S.  TITLE: Kinetics of the radiochemical graft copolymerization of crylonitrile with capron fiber  SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 30, no. 12, 1964, 1319-1321  TOPIC TAGS: vapor seeding copolymerization, capron fiber, acrylonitrile vapor, copolymerization constant, radiation polymerization, graft copolymer, polyacrylonitrile merization constant, radiation polymerization, graft copolymer, polyacrylonitrile vapor at 80 mm Hg, room temperature, 0, 25 Mrad) and exposed to an arrylonitrile vapor at 80 mm pressure in a study of the kinetics of vapor seeding graft copolymerization which does not involve formation of a homopolymer. Graphs illustrate the merization which does not involve formation of a homopolymer. Graphs illustrate the vapor pressure (30-80 mm Hg, 0-10 hrs). The authors calculated constants for the rate vapor pressure (30-80 mm Hg, 0-10 hrs). The authors calculated constants for the rate of chain growth, rate of chain disruption, the apparent activation energy (1.9 Kcal/mol), of chain growth, rate of chain growth and chain disruption, the average distance between initiation centers (120 A) and the average lengths of chains. An increase in monomer Cord 1/2		
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	" ACCESSION N	R: AP5002750	)				•	:	
	An increase in in radiation do A. Ya. Rozovi 4 figures and	temperature sage above 2 ski <u>y fo</u> r partic I formula.	orease in the question decreased the a Mrad had little ilpating in the elements of the molekulyarn.	effect. "T valuation o	ha authors a the results"	re indebte . Orig. a	i to rt. has:		
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KORHEV, K.A.; KACHAM, A.A.; CHERVYATSOVA, L.L.; POLAK, L.S.; MERTVICHENKO, Ye.F.; DEMCHENKO, S.S.

Kinetics of the radiation-chemical graft copolymerization of acrylonitrile with capron fibers. Ukr. khim. zhur. 30 no.12: 1318-1321 '64 (MTRA 18:2)

1. Institut vysokomolekulyarnykh soyedireniy AM UkrSSR.

L 14492-66 EWT(m)/EWP(j)/T WW/GS/RM ACC NR: AT 6006237 SOURCE CODE: UR/0000/65/000/000/0015/0017 AUTHOR: Mertvichenko, Ye. F.; Demchenko, S. S. ORG: Institute of the Chemistry of Macromolecular Compounds, AN UkrSSR, Kiev (Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR) TITLE: Physical and mechanical properties of capron fiber modified by grafting of polyacrylonitrile SOURCE: AN UkrSSR. Modifikatsiya svoystv polimerov i polimernykh materialov (Modification of the properties of polymers and polymeric materials). Kiev, Naukova dumka, 1965, 15-17. TOPIC TAGS: nylon, caprone fiber, acrylonitrile, graft copolymer ABSTRACT: A study has been made of the strength of capron-fiber-acrylonitrile graft copolymers prepared by radiation-induced gas-phase graft-copolymerization. Acrylonitrile in the gaseous state was grafted to capron cord no 34.5 which had been preirradiated with γ-rays from a Co<sup>60</sup> source. Dose rate was 100 rad/sec. The effect of the number and length of grafted chains on the strength of the copolymer was studied. The number of grafted chains was varied by controlling the irradiation dose. The grafted chain length was modified by controlling the reaction time. The results of tensile tests showed that: 1) irradiation of the original fiber lowers its tensile strength by increasing the number of surface defects, and 2) the Card 1/2

grafted la The highes The study of a "heal	of the modi yer and d at strength resulted i ing" of it	lfied fiber loes not de n was exhib in the conc s surface (	pend on th ited by fi lusion tha defects by	e number a bers conta t strengtl	and length sining 4 the mening of	of the g to 5% poly the fiber	rafted clacrylonic is the	hains. trile. result Orig.
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<b>Card</b> 2/2								

#### DEMCHENKO, S.V.

Gonadotropic function of the pituitary body in males with diabetes mellitus. Probl. endok. i gorm. 11 no.2:36-41 Mr-Ap '65. (MIRA 18:7)

1. Otdel vozrastnoy endokrinologii (rukovoditel' - kand. med. nauk S.V.Maksimov; nauchnyy konsul'tant - prof. M.A.Kopelo-vich) Ukrainskogo instituta eksperimental'noy endokrinologii (direktor - kand. med. nauk S.V.Maksimov), Khar'kov.

## DEMCHENKO, T.A.

Wassermann reaction with erythrocytes of northern deer. Vest. vener., Moskva no.2:44-45 Mar-Apr 1953. (CLML 24:3)

1. Of the Experimental Biology Department (Head -- Prof. P. G. Oganesyan) of The Republic Scientific-Research Dermato-Venereological Institute (Acting Director -- A. A. Kondrat'yeva).

Name: DEMCHENKO, T. A.

Dissertation: Complement fixation reaction with reindeer erythrocytes

Degree: Cand Med Sci

State Order of Lenin Inst of Advanced Training for

Physicians imeni S. M. Kirov

Darense Date, Place: 1956, Leningrad

DEMCHENKO, T.A.

Source: Knizhnaya Letopis', No 51, 1956

DEMCHENKO, T.A., mladshiy nauchnyy sotrudnik

Complement fixation test with reindeer erythrocytes. Vest.derm. i ven. 31 no.2:37-41 Mr-Ap '57. (MIRA 12:12)

1. Iz eksperimental'nogo otdela Respublikanskogo nauchno-issledovatel'-skogo kozhno-venerologicheskogo instituta Ministerstva zdravookhraneni-ya RSFSR (rukovoditel' - prof. P.G. Oganesyan).

(COMPLEMENT

fixation test with erythrocytes of polar deer)

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OGANESYAN, P.G.; DEMCHENKO, T.A.

Development of antibiotic resistance in Staphylococci. Eksp. i klin.
issl. po antibiot. 1:203-208 '58. (MIRA 15:5)

(ANTIBIOTICS) (STAPHYLOCOCCUS)

Use of aminopeptide for preparing nutrient media. Eksp. i klin. issl. po antibiot. 2:217-220 '60. (MIRA 15:5) (PEPTIDES) (BACTERIOLOGY—CULTURES AND CULTURE MEDIA)

Use of bone shaving po antibiot. 2:22 (BONE)	ngs for preparing culture medi 1-224 '60. (BACTERIOLOGYCULTURES AND	(MIRA 15:5)
	•	

DEFCHENKO, T.A., kand.med.nauk; GRUDININA, S.H.; YERMILOVA, ie.N.

Three years work experience in a consolidated serological laboratory. Vest.derm. i ven. 20.9:71-73'62. (MIHA 16:7)

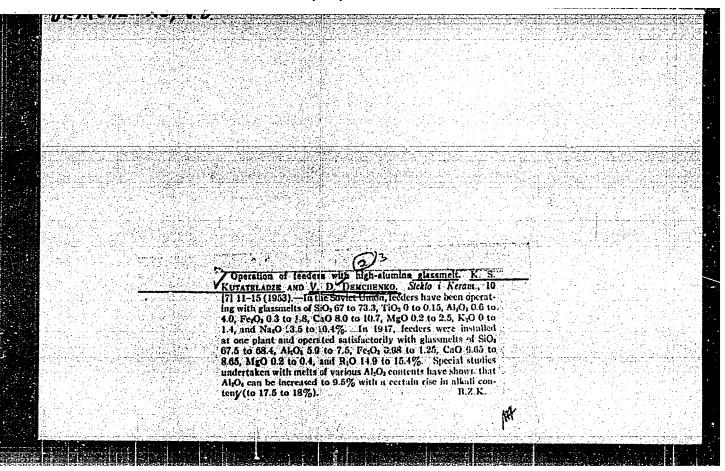
1. Iz mezhrayonney serologicheskoy laboratorii pri kozhnovenerologicheskom dispinsere no.3 Leningrada. (LENINGRAD—SEROLOGY)

	First results. Fin. SSSR 37 no.8:68-72 Ag '63. (MIRA 16:9)				
	1. Zamestitel' zaveduyushchego Vladimirskim sel'skim oblastnym finansovym otdelom.  (Vladimir Province—Finance)				
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KALITA, N. (Kiyev); DEMCHENKO, V. (Kiyev)

Research of Ukrainian economic scholars. Vop. ekon. no.5:156-159 My \*63. (MIRA 16:6)

(Ukraine-Economic research)



DESYATOV, V.G., arkhitektor; DEMCHENKO, V.D., arkhitektor

Buildings in a metallurgical plant serving cultural and public needs. Sbor. trud- NII po stroi. ASiA [Sverd.] no.8:43-49 '63. (MIRA 16:10)

DEMCHENKO, V.D., arkhitektor

Design features and distribution of eating areas in industrial enterprises. Sbor. trud. NII po stroi. ASiA [Sverd.] no.8: 50-63 '63. (MIRA 16:10)

SIVACHEK, N.I.; DEMCHENKO, V.F.; KRYNSKIY, I.I.; RYSHCHENKO, A.V.

Mechanizing the operation of shaft grates. Sbor.rats.predl.
vnedr.v proizv. no.5:5-8 '60. (MIRA 14:8)

1. Trest "Dzerzhinskruda", rudoupravleniye "Ingulets".
(Mining machinery—Technological innovations)

L 55316-65   ENT(1)/ENG(v) - Po-4/Pa-5/Pq-4/Pg-4 GN ACCESSION NR: / AT5014772 UR/2552/65/000/043/0114/0121	
AUTHOR: Lukaychenko, P. I.; Denchenko, V. F.	
AUTHOR: Lukaychenko, P. I.; Denchenko, V. F.  ZITLE: New sea-bottom gravimeter 8	
SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki. Prikladnaya geofizika, no. 43, 1965, 114-121	
TOPIC TAGS: sea gravimeter, electromechanical gravimeter, elastically compensated gravimeter, gravimeter design, ultramicrometer	
ABSTRACT: A new, sea-bottom, quartz gravimeter has been developed at the VNITgeo- fiziki. The electrostatic device usually used to compensate for gravity variation has been replaced by an elastic-mechanical device similar to those in GAK gravimeters used on land. The elastic force of the spring is adjusted by a	
cal ultramicrometer significantly simplifies the construction of the elastic quartz system of the pendulum; namely, the quartz system need not be covered by	
metal. The article presents the electromechanical diagrams of the elastic and remote control systems of the gravimeter, shows its external appearance, lists the parameters of two of the experimental devices, presents the temperature stability	
Card 1/2	

TL 55376-65 ACCESSION NR: AT5014772	
	one of them, and reports tabulated data from comparative
meesurements using new an	d old KDG gravimeters at land and underwater test
sites, as well as data fr	om field test measurements. The results show that the
then that of present Sovie	asurements made on 9-10 hour runs is 2.5-3 times higher et-made gravimeters. In addition, the new devices are
more reliable, and the pro-	ocessing of data obtained with them is simpler. Recommen-
detions for design changes	s which would further improve these gravimeters are briefly 5 figures and 3 tables. [08]
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ACCESSION NR: AP5024438	04.66	UR/0286/65/000/015/016	69/0169
AUTHORS: Demchenko, V. F.	Jukavchenko, P. I.	14,05	18
TITLE: Ground quartz grav SOURCE: Byulleten' izobre	17 44.65	rol. Class 42, No. 152316 v, no. 15, 1965, 169	8
TOPIC TACS: gravimeter 10			
ABSTRACT: This Author Cer	tificate presents a gro	und quarts gravimeter with	remote
micrometer screw is connected and the screw is provided the screw is provided and is connected to the score of the score o	ted through a reductor ded at the end points o Another identical elect cted to a counter. Con	to a synchronous de electrif its travel with microswit ric motor is mounted on the trol for the one-way feed o ed relay and an electric la	c ches
micrometer screw is connec motor. The screw is provi for stopping this motor. control panel and is conne	ted through a reductor ded at the end points o Another identical elect cted to a counter. Con	to a synchronous do electri f its travel with microswit ric motor is mounted on the trol for the one-way feed o	c ches

L 39687-66 EWT(1) GW/GD-2

ACC NR: AP6009541 (A,N)

SOURCE CODE: UR/0413/66/000/005/0075/0076

AUTHOR: Lukavchenko, P. I.; Demchenko, V. F.; Belkin, M. A.

ORG: none

TITLE: A well gravimeter Class 42, No. 179486

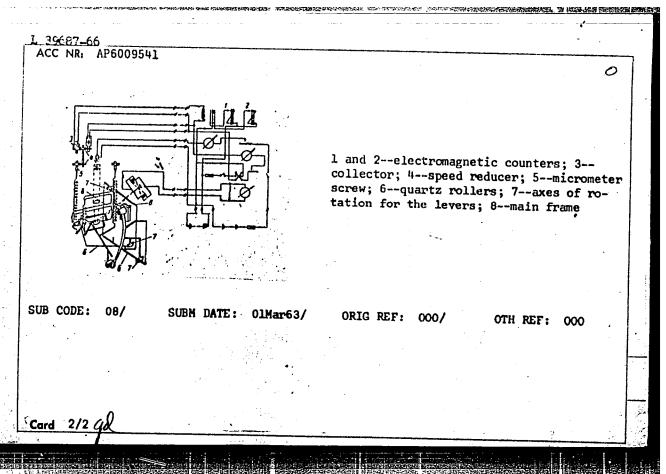
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 75-76

TOPIC TAGS: gravimeter, earth science instrument, electronic measurement

ABSTRACT: This Author's Certificate introduces a well gravimeter which contains a quartz clastic sensing system, a temperature compensator, an optical system and a measuring device. The accuracy of the instrument is improved and remote measurements are facilitated by electromagnetic counters in the measuring device which are connected through a sign-sensitive relay, collector and speed reducer to the micrometer screw of the measuring system. The temperature compensator is made in the form of seriesconnected quartz frames with levers whose axes of rotation are rigidly connected to the principal frame of the sensitive system.

UDC: 550.831

Card 1/2



ROGOZHIN, A.P.: DEMCHENCO, V.G.: SHIBAYEV, B.N.; KORNIYENKO, Yu.A.; SHUSTOV, V.A.; BRODOVSKIY, S.S.; KALASHNIKOV, I.V.

Increasing the control of brake relays to 540 a on type G cars of the subway. Prom. energ. 12 no.7:22 Jl '57. (MIRA 10:8)

(Electric railroads--Drakes)

DEMCHENKO, V.N. USSR/Agriculture Card 1/1 Pub. 86 - 8/40 : Demchenko, V. N. Authors ! Utilization of desert lands Title Periodical : Priroda 3, 70-73, Mar 1954 ! The problems of converting the arid desert lands extending north and Abstract north-west from the foothills of the Alatau country to the shores of the Balkhash Lake, an area of about 5 million hectares, into arable land, are discussed. Examples are cited of certain small districts of the Kazakh-SSR, which were successfully transformed into fruit bearing areas. Illustrations. Institution : Academy of Sciences Kez-SSR, Scientific Research Institute, Iliysk Submitted

DEMCHENKO, V. 11.

Decem!

"The Introduction of Fruit-Berry, Decorative Wood, and Brushwood Plants on the Desert of the Southern Balkhash Region." Cand Biol Sci, Inst of Botany, Iliysk Sci Res Base, Acad Sci Kazakh SSR, Alma-Ata, 1955. (KL, No 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

DEMCHENKO, V.N. [deceased]

Growing berry plants in the desert of the southern Lake Balkhash Region. Trudy Inst.bot.AN Kazakh.SSR 14:93-117 '62.

(MIRA 16:4)

(Balkhash Lake region-Berries)

DEMCHENKO, V.N. [deceased]; OSPANOV, S.O.

Results of testing some trees and shrubs in the southern Balkhash region. Trudy Inst.bot.AN Kazakh.SSR 17:22-28 '63. (MIRA 17:3)

GROMASHEVSKAYA, L.L.; GETTE, Z.P.; TAT'YANKO, N.V.; DEMCHENKO, V.N.; MIRONOVA, Ye.M.

Enzymic reactions in differential diagnosis of infectious hepatitis and machanical jaundice. Vop.med.virus. no.9:329-337 164. (MIRA 18:4)

1. Institut infektsionnykh bolezney Ministerstva zdravookh-raneniya UkrSSR.

GROMASHEVSKAYA, L.L.; DEMIN, V.I.; GETTE, Z.P.; DEMCHENKO, V.N.; MIRGNOVA, Ye.M.

Serum enzymus in Bc+kin's infectious hepatitis. Vop.med.khim. 10 no.3:246-252 My-Je \*64. (MIRA 18:2)

1. Institut infektsionnykh bolezney Ministerstva zdravockhraneniya UkrSSR, Kiyev.

PROTASOV, N.F.; STEFANOV, V.Ye.; DEMCHENKO, V.P.; SHIYAN, V.A.;
KRISHTAFOVICH, P.D.

Rolling SVP-17 and 27 shapes with a greater incline of the walls.
Metallurg 8 no.9:31-34 S '63. (MIRA 16:10)

1. Zavod "Azovstal'."
(Rolling (Metalwork))

CHUISTOV, Vladimir Mikhaylovich, kand.ekonom.nauk; DEMCHENKO, V.P., kand.ekonom.nauk, glavnyy red.

[The seven-year plan is the decisive phase in the carrying out of the principal economic objective of the U.S.S.R.]

Semyrichnyi plan - vyrishal'nyi etap v zdiisnenni osnovnoho ekonomichnoho zavdannia SRSR. Kyiv, 1959. 50 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.2, no.6)

(MIRA 12:9)

(Russia---Economic policy)

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DEMCHENKO, Valentin Petrovich, kand.ekonom.nauk; ZATSEPILIN, V.G. Zatsepilin, V.H.], kand.ekonom.nauk, glavnyy red.

[Development of the socialist national economy in the Polish People's Republic] Budivnytstvo sotsialistychnoi ekonomiky v Pol's'kii Narodnii Respublitsi. Kyiv, 1959. 70 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.l, no.28) (MIRA 12:11) (Poland-Economic conditions)

# PHASE I BOOK EXPLOITATION

sov/4214

Demchenko, Valentyn Petrovych, Candidate of Economic Sciences

多一种,我们就是我们的一种,我们就是一种,我们就是一个一种,我们就是一个一种,我们就是一个一种,我们就是一个一种,我们就是一个一个一个一个一个一个一个一个一个一

Budivnytstvo sotsialistychnoyi ekonomiky v Pol's'kiy Narodniy Respublitsi (Construction of a Socialist Economy in the Polish People's Republic). Kyyiv, 1959. 71 p. Errata slip inserted. 24,600 copies printed. (Series: Tovarystvo dlya poshyrennya politychnykh i naukovykh znan' Ukraynskoy RSR. Seriya 1, no. 28)

Chief Ed.: V.H. Zatsepilin, Candidate of Economic Sciences; Ed. of Editorial and Publishing Section: I.H. Merzlikin.

PURPOSE: This booklet is intended for the general reader.

COVERAGE: The booklet describes the pre-Communist national economy of Poland, the changeover to the present economic system, the development of Polish industry, and the cooperation of Poland with other people's republics.

No personalities are mentioned. There are 10 references: 6 Polish and 4 Soviet.

Card 1/2

ROKITKO, Anastasiya Ivanovna, kand.ekonom.nauk; DEMCHENKO, V.P., kand. ekonom.nauk, red.

[In peaceful economic competition socialism is winning] V myrnomu ekonomichnomu smahanni peremahaie sotsializm. Kyiv, 1960.
38 p. (Tovarystvo dlia peshyrennia politychnykh i naukovykh snan' Ukrains'koi RSR. Ser.2, no.1) (MIRA 13:6)
(Economic cenditions)

BULASH, Mikhail Alekseyevich, kand. ekonom. nauk; DEMCHENKO, V.P., kand. ekon. nauk, otv. red.; TUBOLEVA, M.V.[Tubolieva, M.V.], red.

[Decisive factor in the development of mankind; development and consolidation of the international socialist economic system]

Vyrishal'nyi faktor rozvytku liudstva; rozvytok ta zmitsnemnia svitovoi sotsialistychnoi sistemy hospodarstva. Kyiv, 1961. 47 p.

(Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'-koi RSR, Ser.4, no.4)

(MIRA 14:9)

(Communist countries—Economic conditions)

DEMCHENKO, V.P., kand. ekon. nauk, glav. red.; VAYNSHTEYN, Sh.I. [vainshtein, Sh.I.], red.; LISOVETS, O.M.[Lysovets', O.M.], tekhn. red.

[Economic bases of the transition to communism of the countries of the world socialist system] Ekonomichni osnovy perekhodu krain svitovoi sotsialistychnoi systemy do komunizmu. Kyiv, vyd-vo AN URSR, 1963. 265 p. (MIRA 16:9)

1. Akademiya nauk URSR, Kiev. Instytut ekonomiky. (Communist countries—Economic conditions)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000510010012-1"

PROTASOV, N.F.; STEFANOV, V. Ye.; SHIYAN, V.A.; DEMCHENKO, V.P.; KRISHTAFOVICH, P.D.

Rolling of a No. 16 c'annel by the gradual bending method.
Metallurg 9 no.1:27-29 Ja 164 (MIRA 18:1)

1. Zavod "Azovstal!".

BEMCHENKE, VS

AUTHOR: TITLE:

DEMOHENKO, V.S., KHUDOLEY, A.Ya.

32-6-16/54 A Method for the Utilization of the Corrosion Properties of

Lubricating Oils. (O metode otsenki korrozionnykh svoystv masel,

Russian)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 6, pp 693-695 (U.S.S.R.)

ABSTRACT:

The method for the determination of the corrosion properties of lubricating oils by means of the apparatus constructed by PINKIEWICH requires a long time for testing and has also other disadvantages many of which have been eliminated by the DK-2NAMJ apparatus, which was developed as a standard apparatus (HOST 8245-56). Tests are carried out in such a manner that a thin layer of oil is applied to the metal plate which is periodically in contact with air and acts upon the metal plate. The metal plate is alternatingly dipped in oil and brought into contact with the air by means of a slanting case. The oil to be tested is in a piston in which round metal plates are fixed several mm from the bottom and held by glass holders. When the case rotates, the plate is covered by the oil.

Results: Machine lubricating oil after a test period of 10 to 20

hours has a corrosion of 45 g/m<sup>2</sup>.

Card 1/2

DEMCHELLY, V.J.

BRUSYANTSEV, Nikolay Vasil'yevich, CHERNOZHUKOV, N.I., doktor tekhn.nauk, retsenzent, DAVYDOV, P.I., kand.tekhn.nauk, retsenzent, GULIN, Ye.I. kand.tekhn.nauk, retsenzent, DEMCHENKO, V.S., kand.tekhn.nauk, retsenzent, SHTEPAN, M.G., kand.tekhn.nauk, retsenzent, PAPOK, K.K. doktor tekhn. nauk, red.; NAKHIMSON, V.A., red.izd-va., UVAROVA, A.F., tekhn.red.

> [Motor vehicle and tractor fuels and lubricants]. Avtotraktornye topliva i smazochnye materialy. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958 . 340 p. (Motor fuels) (MIRA 11:9)

(Labrication and lubricants)

CIA-RDP86-00513R000510010012-1" APPROVED FOR RELEASE: 03/13/2001

28(5) AUTHORS:

Demchenko, V. S., Novikov, V. K.

507/32-25-6-34/53

TITLE:

Device for the Determination of the Ability of Corroding of Lubricating Oils With an Inconsiderable Wear of the Material to Be Tested (Pribor dlya opredeleniya korrozionnosti smazochnykh masel s nebol shim raskhodom ispytuyemogo produkta)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 6, pp 741-742 (USSR)

ABSTRACT:

160 g of the testing substance are necessary for determining the corroding ability of lubricating oils according to Pinkevich's method (GOST 5162-49), 73 g in the case of the method NAMI (GOST 8245-56). A new device was constructed in the case of which for two parallel tests of this kind only 10 g of the substance are consumed. A standard apparatus DK-2 NAMI (GOST 8245-56) is used in a somewhat modified form. The change consists in a reduction of the size of the L-shaped pistons and lead plates (Fig). From the data mentioned it may be seen (Table) that the test results achieved by means of the standard device are in good agreement with the device for small amounts as suggested here. The data show that various

Card 1/2

Device for the Determination of the Ability of Corroding SOV/32-25-6-34/53 of Lubricating Oils With an Inconsiderable Wear of the Material to Be Tested

oils were investigated and various additions used in this connection (AzNII-4, TsIATIM-339, VNII NP-360, IP-22). There are 1 figure and 1 table.

Card 2/2

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S/065/60/000/004/009/017 E071/E435

CENTRAL CONTRACTOR CON

AUTHORS: Demchenko, V.S. and Novikov, V.K.

TITLE: The Influence of Resins Contained in Oils on Their Corrosive Activity

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No.4, pp.40-43

TEXT: The role of resinous compounds in oils in the process of corrosion of antifriction alloys by lubricating oils was investigated. Resins were separated from oil MT16 produced from the Emba crudes by the Yaroslavskaya refinery and from sulphurous crudes produced by the Novokuybyshev refinery. The separation was done by adsorption of silica-gel and subsequent extraction with an alcohol-benzene mixture after removing the adsorbed naphthene-paraffinic and aromatic hydrocarbons with iso-octane. The main properties of the isolated resinous compounds are given in the text. Physico-chemical properties of oils before and after the removal of resinous compounds are given in Table 1; the dependence of corrosive activity and acid number of oils on the content of resinous compounds are given in Table 2. It was Card 1/2

S/065/60/000/004/009/017 E071/E435

The Influence of Resins Contained in Oils on Their Corrosive Activity

found that a high corrosive activity o. oils from the Emba crudes is due to their increased content of relanous compounds which sharply increase the process of oxidatic of oils and their corrosive activity. Therefore, to improve the stability of these oils, a more complete extraction of resinous compounds is necessary. Resins separated from MT16 oils made from sulphurous oils have little influence on the corrosive activity of oils. corrosive activity of these oils is due to properties and a high content of aromatic hydrocarbons which on oxidation form products of phenolic nature, inhibiting the process of oxidation of oil as a whole thus decreasing its corrosive activity. In the presence of resins separated from the oil from the Emba crudes, the resistance to oxidation of aromatic hydrocarbons and the anticorrosive properties of natural sulphurous compounds in oils from sulphurous crudes sharply decrease. There are 2 tables and 3 Soviet references.

Card 2/2

# Pactors determining the economic effectiveness of using (poly) functional additives. Khim.i tekh.topl.i masel 5 no.12:41-47 D 160. (MRA 13:12) (Labrication and lubricants--Additives)

MOROZOV, Georgiy Andreyevich; <u>DEMCHENKO</u>, V.S., kand. tekhn. nauk, retsenzent; GULIN, Ye.I., kand. tekhn. nauk, red.; YURKEVICH, M.F., red. izd-va; SPERANSKAYA, O.V., tekhn. red.

[Use of sulfurous fuels in diesel engines] Primenenie sernistykh topliv v dizeliakh. Moskva, Mashgiz, 1961. 145 p. (MIRA 14:12) (Diesel fuels)

26523

S/065/61/000/008/008/009 E194/E135

11.9700

AUTHORS:

Demchenko, V.S., Morozov, G.A., Ivanov, L.F., and

Mikutenok, Yu.A.

TITLE:

Assessment of the lacquer forming tendencies of

lubricating oils

PERIODICAL: Khimiya i tekhnologiya topliv i masel,

1961, No.8, pp. 53-58

TEXT: The authors discuss laboratory tests for assessing the effectiveness of multi-functional additives in heavy duty diesel engine lubricants. One method that has been proposed is due to K.K. Papok; it has been described in FOCT (GOST) 4953-49. Later the test was modernised and issued as GOST 9352-60. A very interesting method was described by S.K. Kyuregyan in his dissertation of 1959. Kyuregyan's apparatus preserves all the positive features of the revised Papok method and makes it possible to oxidise the oil in a thin layer on sliding metal surfaces. The present article gives test results with different lubricants on both instruments (Papok and Kyuregyan). The tests were made with lubricant MT-16 (MT-16) made from Emba crude at Card 1/6

Assessment of the lacquer forming ...

的,我们还没有10%的内部的现在,我们就是我们就是不是一个人,我们就是这种的时候的时候,我们就有多少的人,你就会是一个人,不是不会,不是不会的。

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the Mendeleyev refinery and grade AC-11 (DS-11) of high sulphur crude at the Novo-Kuybyshev refinery. The tests were made with experimental additives received from the VNII NP (All-Union Scientific Research Institute of the Petroleum Industry). Papok instrument to GOST 9352-60 the thermal and oxidation stability is expressed as the time in minutes during which the oil is converted to a lacquer residue under the test conditions. lacquering tendency is also measured by the amount of lacquer formed at the end of the test time. Kyuregyan's instrument is illustrated in Fig.1. The oil sample is a thin (0.1 mm) layer on a ground steel ring 7, placed on a rotating plate 6 which is heated to a given temperature, and the time required for the oil to lose its lubricating properties by evaporation and lacquer formation is measured. The test is continued until there is a sharp increase in the angle of rotation of the loading disc 9, which is supported from the test ring by three aluminium (or iron or brass) supports 8 and is connected by the shaft 10 to the damper 11 and spring 12 which prevent the disc 9 from turning during the test. The time in minutes during which, under Card 2/6

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Assessment of the lacquer forming ... S/065/61/000/008/008/009 E194/E135

the test conditions, the oil loses its lubricating properties and is converted into a lacquer film is termed the lacquer formation time. The test results show that the ratio of the Kyuregyan lacquer formation time to the Papok thermal-oxidation stability is not a constant one but the order of rating of the different base oils with and without additives is the same in the two tests. In carrying out tests on the Kyuregyan instrument it was found that the curve of change of angle of rotation of the loading disc with time is different for different specimens. The form of this curve was found to depend primarily on the intensity of the accumulation of oxidation products in the oil. The significance of the shape of this curve was studied by making tests with different kinds of additives including the following and their components: thiophosphorus containing types AΦ-1 (DF-1), MN-22 (IP-22), B-353 (V-353), 8-354 (V-354) and 3MT-1 (ZIT-1). Alkyl-phenolic types B-350 (V-350), 'A3HИИ-7 (AzNII-7). Sulphonate types A3HUИ-5 (AzNII-5) and MC-19 (PMS-19). Some of the additives tested were mixtures of thiophosphorus containing compounds and alkylphenols. Thus additive  $\tilde{R}$ -360 (V-360) consists of the components Card 3/6

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Assessment of the lacquer forming ... S/065/61/000/008/008/009
E194/E135

of V-350 and V-354. Additive B-361 (V-361) is made up of V-350 and V-353. Additive A3-H $\mu$ U-8 (Az-NII-8) is produced by mixing sulphurised alkyl-phenolate of barium (additive A3HUN-7 (AzNII-7) and barium sulphonate (the surface active component of additive A3HIMH-5 (AZNII-5). The additives containing thiophosphorus compounds, which are good anti-oxidants, gave slow reduction in the angle of rotation of the disc in the early part of the test. Oils with alkyl phenols and sulphonates show a marked reduction in the angle of rotation of the disc because these are not antioxidant additives and oxidation products are formed from the start of the test. It was found that additives containing thiophosphorus compounds are the best suppressors of lacquer formation. Particularly good results were obtained by adding to the oil an ester of thiophosphoric acid (component V-353) and zinc dithiophosphate (component V-354). The influence of sulphonate additives and mixtures of sulphonate with alkyl phenol is much less but is greater with some feed stocks than with others. Additives and components of the alkyl phenol type (V-350 and AzNII-7) are intermediate in their ability to improve the stability Card 4/6

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E194/E135

of a thin layer of oil. Test results obtained on a Kyuregyan instrument were in satisfactory agreement with the results of engine tests.

There are 3 figures, 1 table and 5 Soviet references.

Card 5/6

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11.9100		8/081/62/000/006/094/117 .B162/B101	
AUTHORS:	Demchenko, V. S., Novikov,	7. K.	
TITLE:		lfur compounds on the corrosive	
PERIODICAL:	Referativnyy zhurnal. Khim	KU I Berrebrongwagen	
reduced volum properties of before and af	ter desulfurization. The suridation with Holo at about 200	ulfur petroleums were investigm fur compounds were removed from C in a medium of CH3COOH with	
	moval of the oxidation product	s on silica gel. Desulfurisa- id to previously deresinated oil ped by 45%, and in the second, by deresinated oil rises	•

8/081/62/000/006/094/117 Effect of natural organo-sulfur ... B162/B101 approximately twice as much here as that of the non-deresinated oil. adding to the oil the resins separated from it by silica gel, its corrosiveness drops slightly, despite the rise in its acid number. The corrosiveness of the desulfurized oils is 7-14 times lower than that of the oil MT-16 from Emba petroleum, which is attributed to the comparatively high aromatic hydrocarbon content in the desulfurized oil, which effectively slows down the oxidation of the naphthene-paraffin hydrocarbons (NPH). On adding desulfurized oils and the initial oil to the NPH 45 separated from the sulfur oil, the corrosiveness of the latter and their acid number dropped considerably. The addition of oils from sulfur petroleum to oils from Emba and Baku petroleum effectively improves the anticorrosive properties of the latter only when their concentration in the  $\circ$ Abstracter's note: Complete translation. Card 2/2

		S/081/62/000 B162/B101	/006/093/117	
11.9700			• •	
LUTHORS:	Demohenko, V. S., Novikov, V. K.	i i		
PITLE:	Effects of temperature and dura corrosive action of oils from su			
PERIODICAL:	Referativnyy zhurnal. Khimiya, 6M289 (Sb. "Khimiya seraorgan. s soderzhashchikhsya v neftyak i n Gostoptekhizdat, 1961, 199-205)	oyedineniy,		
AK-2 (DK-2) the variation nvestigation eum were use	rrosiveness of oils was evaluated apparatus of NAMI in the temperatu in weight of plates of lead of gr the oils MT-16 (MT-16) and A -11 d, without additives and with varir motor oils) in a concentration o	re range of 1 ade C -1 (S-1 (D-11) from sous multi-fun	00-200°C from ). For the ulfur petro- ectional	
of up to 1400 ils without	C and test periods (in accordance additives possessed low corrosiven rature and with an increase in the	with NAMI) of ees, but with	10 hrs, the a further	X

S/081/62/000/006/093/117 Effects of temperature and B162/B101	35
their corrosiveness increased substantially. Therefore, when using the cils MT-16 and D-11 on boosted engines subject to high thermal stress, effectively acting anti-corrosive additives must be added to them. Most of the additives tested greatly reduced the corrosiveness of the cils only at temperatures of up to 140°C and at NAMI test periods of 20-30 hrs. A further rise in temperature or an increase in the test period (up to 50 hrs) reduced the effectiveness of the additives. The additives UMATUM-339 (Tsiatim-339) and ABHUM-4 (Aznii-4) had inadequate anti-corrosive properties; the additives TMC 199 (PMS 197a), BHUM HW-360 (Vnii NP-360), NM-22K (IP-22K), BHUM HW-353 (Vnii NP-353), and especially the additives ABHUM-7 (Aznii-7) and ABHUM- UMATUM-1 (Aznii-Tsiatim-1) effectively reduced the corrosiveness of the cils at temperatures of up to 200°C and at NAMI test periods of up to 50 hrs. [Abstracter's note: Complete translation.]	45 V <sub>50</sub>
	55
Card 2/2	60

8/152/62/000/009/001/001 B126/B101

AUTHOR:

Demchenko, V. S.

DESTRUCTIVE FOR THE PROPERTY OF STREET, THE STREET, TH

TITLE:

Temperature coefficient of corrosion rate and temperature of

maximum oil corrosiveness

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 9,

1962, 100 - 104

TEXT: The corrosion rate of metals in lubricating oils was investigated. It was established that the temperature coefficient of the corrosion rate is lower than that of the oil oxidation. In the temperature range 100 - 160°C this coefficient is 1.2 to 1.7 for lead and 1.1 to 1.3 for cast iron and steel; these low values are due to a film of polycrystalline structure formed by the corrosion products on the metal surfaces. At high temperatures stearic or oleic acids affect the corrosive properties of oils much more than low boiling acids, as the capacity of the latter to decompose metal decreases long before their boiling point is reached. This is due to an intense volatilization of the light fractions of oxidation products at temperatures above :60 to 180°C. Thus the main reason

Card 1/2

Temperature coefficient of corrosion...

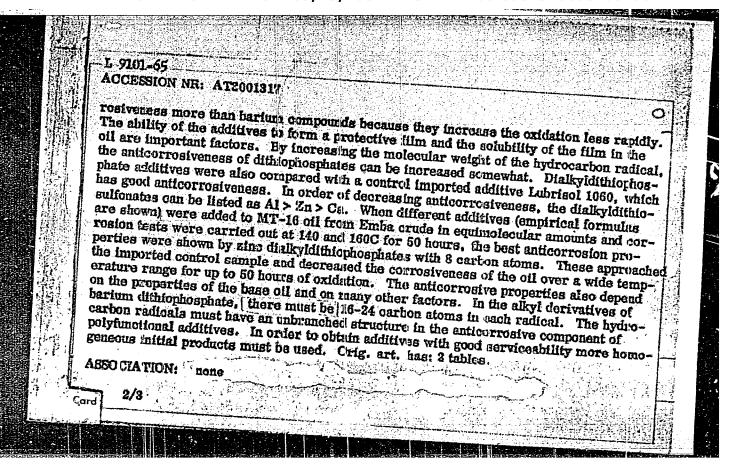
S/152/62/000/009/001/001 B126/B101

for the decrease of the corrosion rate of metals at the above temperatures is the reduced concentration of organic acids in the oil. The experiments were carried out with industrial oils using the Pinkevich, roct 5162-49 (GOST 5162-49), and NAMI, FOCT 8245-56 (GOST 8245-56), methods which after approximation gave similar results. There are 2 figures and 3 tables.

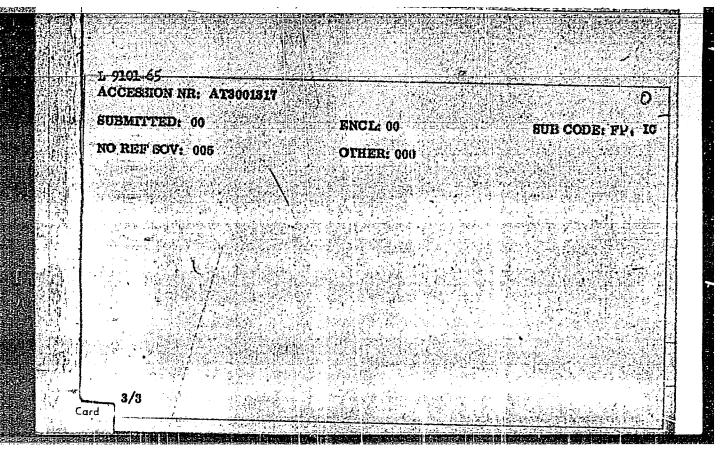
SUBMITTED: April 16, 1962

Card 2/2

ACCESSION NR	AT3001317		
AUTHOR: Demo	henko, V. s.	8/2933/63/005/000/	)219/02 <u>74</u>
	ect of sulfur- and phosphorus	5-containing compounds o	2
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TOPIC TAGS: bu dithiophosphate,	bricating off, off additive, a dialky! dithlophosphate, off (	ulfir, phosphorus, Emba	off, sulfonate.
ABSTRACT: Exp and phosphorus-o	erimental data obtained by to ontaining pulylunctional addi	esting the anticorrosive p	revention roperties of sulfur-
sulfonates (Ba, Co isocetylhenzene, i	i, Sr, Co, Ca, Pb) is analyz socetylnapidhalese and isoc	te suifo salt on the anticorsed. The anticorrosive p	reperties of calcium
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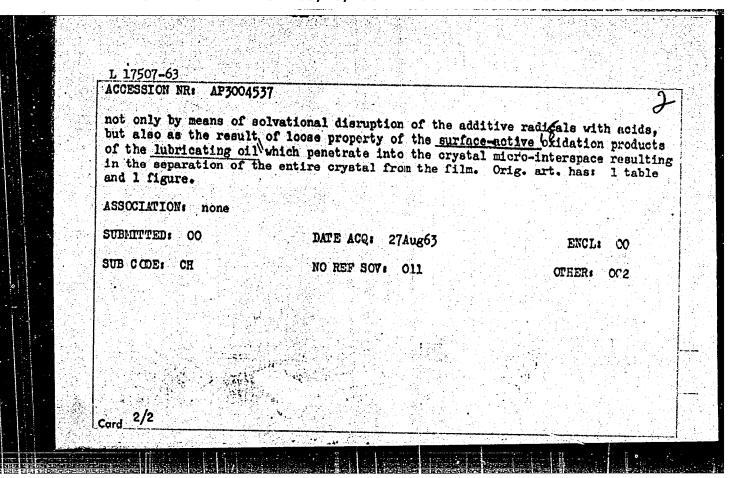


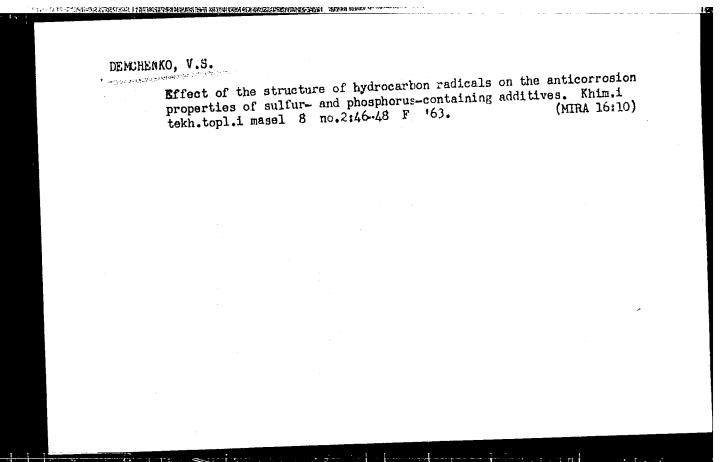
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AFFTC/ASD/APGC EPF(c)/EWP(q)/EWT(m)/BDS L 17507-63 ACCESSION NR AP3004537 AUTHORS: Demchenko, V. S.; Shchemelev, V. N. TITLE: Electron diffraction analysis of films formed on lead by anticorresion additives, SOURCE: Khimiya i tekhnologiya topliv i masel, no. 8, 1963, 64-69. TOPIC TAGS: electron diffraction analysis, lead, anticorrosion additive, dimethylsulfide, DF-1 additive, DF-8 additive, TsIATIM-339 additive, VNII-additive, NP-371 additive, BFK-1 additive ABSTRACT: The effect of anticorrosion additives, which are added to lubricating oils depends to a great extent upon the properties and structure of the protective films formed by these additives. The films formed on the metal surface are very thin. The thickness of the film formed with diphenylsulfide on the surface of lead is only 300 angstrom. These films were analyzed by electron-diffraction method. It was found that the films formed by the studied anticorrosion additives DF-1, DF-8, Ts IATIM-339 consist of a multitude of disarranged fine crystals and the films from additives VNII, NP-371, and BFK-1 consist of crystals oriented in a definite direction. Destruction of the protective film apparently takes place Card 1/2





EWT(m)/EPF(c)/EWP(1)/EWA(d)/T/EWP(L)/EWP(z)/EWP(b)/EWA(c) Pr-4 IJP(c) MJW/JD/WB/DJ ACCESSION NR: AP5011693 UR/0065/65/000/005/0052/0055 539.27:66.022.38 AUTHOR: Demchenko, V. S. On the electronographic investigations and the mechanism of the destruction of films formed on metals by anticorrosion additives SOURCE: Khimiya i tekhnologiya topliv i masel, no. 5, 1965, 52-55 TOPIC TAGS: lubricant, lubricant additive, anticorresion additive, anticorresion agent, protective coating, metal corrosion, ferrous metal, nonferrous metal, antifriction alloy/ TsIARIM 339 additive, VNII NP 371 additive, BFK 1 additive, PMS additive, DF 1 additive, DF 8 additive, MNI IP 22k additive, MF 16 oil, DS 11 oil, K 17 lubricant, K 19 lubricant, NG 203A lubricant, St 3 ferrous alloy, SCh21 40 ferrous alloy, M 3 nonferrous alloy, ASM antifriction alloy, BrOTa5 5 5 antifriction alloy ABSTRACT: Diffraction patterns of 50 different films formed on various metals due to the metal reaction with machine oils and lubricants containing anticorrosive of additives were investigated in an effort to verify the statement made by 7. I. Shor (Khim. i tekhnol topliv i masel, No. 1, 1964) to the effect that the mechanism of Card 1/3

L 53615-65 ACCESSION NK: AP5011693

Card 2/3

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formation and destruction of the protective films formed on metals was clarified entirely in his previous works. The films studied were formed by the additives; Talarim-359, VNII NP-371, BFD-1, PMS, DF-1, DF-8, MNI MP-22k (and others) added to Talarim-359, VNII NP-371, BFD-1, PMS, DF-1, DF-8, MNI MP-22k (and others) added to the MT-16 Emba oil or DS-11 sulfurous oil and to the lubricants K<sub>1</sub>17, K-19, NG-203A, the MT-16 Emba oil or DS-11 sulfurous oil and to the lubricants K<sub>1</sub>17, K-19, NG-203A, on metallic plates made of lead) ferrous metals St3 and Sch21-40, the M-3 honferrous on metallic plates made of lead) ferrous metals St3 and Sch21-40, the M-3 honferrous on metall and the antifriction alloys ASM and BrCM-5-5-1. The films formed were multimetal and differed noticeably in respect to the structure of metals on which they layered and differed noticeably in respect to the structure produced by different metals were similar, while compositions and structures produced by different additives on the same metal at 20-50C were dissimilar. Identifying the films ent additives on the same metal at 20-50C were dissimilar. Identifying the films was possible only by comparing their diffraction patterns to those of substances of was possible only by comparing their diffraction patterns to those of substances of known compositions. The most complete discussion of these processes was given by known compositions. The most complete discussion of these processes was given by known compositions. The most complete discussion of these processes was given by known compositions. The most complete discussion of these processes was given by known compositions. The most complete discussion of these processes was given by known compositions. The most complete discussion of these processes was given by known compositions. The most complete discussion of these processes was given by known compositions. The most complete discussion of these processes was given by known compositions and structures produced by different metals was complete

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oxidation penetrating int	fied by the action of surface-active poor the microscopic fissures in the film ration of single crystals. (It is concern the process of protective film growth and should be investigated further.	luded that, contrary and destruction has
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Respect tion of alumebratholite. Zap. V. to. min. in 14 no.6:727-732 165.
l. Dailnevoutochnyy goologicheskry insviict autoresian oudeleniya av 8888, Vladivostok.
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DEMCHENKO, V.T. (Berdichev)

Work acheivements and problems of the workers of the Berdichev No.1 Clothing Factory. Shvein.prom. no.2:9-11 Mr-Ap '61.

(Berdichev-Clothing industry) (Efficiency, Industrial)

Short summary of the primary study of grape varieties in the desert of the southern Balkhash region. Trudy Inst. bot. AN Kazakh. SSR 17: 139-145 '63. (MIRA 17:3)					
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DEMCHENKO, V.V., inzh.

New Tuchkov Bridge across the Malaya Neva River in Leningrad. Sbor. rab.Lengiproinzhproekta:23-29 0 161. (MIRA 18:1)

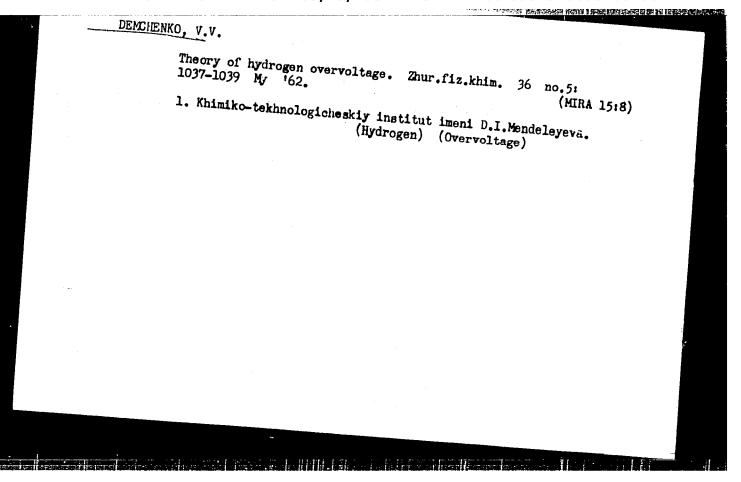
OSTROUKHOV, I.I., gornyy inzh.; DEMCHENKO, V.V., gornyy inzh.

Using new types of equipment to develop strip mines for exploitation.

(MIRA 15:2)

Gor. zhur. no.ll:22-25 N '61.

Trest Nikopol\*-Marganets, g. Marganets.
 (Nikopol\* region (Dnepropetrovsk Province)--Manganese mines and mining--Equipment and supplies)



Compressibility of metals, '62.	. Zhur.fiz.khim.	36 no.10:2251-2252 0					
1. Moskovskiy khimiko-tekh	(MIRA 17:4)  1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.						
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DEMCHENKO, V.V.

Theory of surface tension. Part 1. Zhur. fiz. khim. 36 no.11:2524-2526 N'62. (MIRA 17:5)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

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DEMCHENKO, Viktor Vasil'yevich, insh.; PECHKOVSKIY, Vsevolod Ivanovich, kand.tekhn. nauk; CHERNEGOV, Aleksandr Aleksandrovich, insh.; NECHITAYLO, Aleksandr Aver'yanovich, insh.; KAL'CHIK, Georgiy Semenovich, insh.; HELYAKOV, Yu.I., kand. tekhn. nauk, retsenzent; SEMENENKO, M.D., insh., red.izd-va; STARODUB, T.A., tekhn. red.

[Improvement of open-pit manganese mining in the Ukrainian S.S.R.] Sovershenstvovanie otkrytykh razrabotok margantsevykh rud USSR. Kiev, Gostekhizdat USSR, 1963. 119 p.

(MIRA 16:8)

(Nikopol' region--Manganese mines and mining)

# DEMCHENKO, V.V.

Relation between the activation energy of some electrochemical and catalytic processes and the properties of metals. Zhur.fiz.khim. 37 no.8:1849-1851 Ag '63. (MIRA 16:9)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva.

(Catalysis) (Metals) (Chemical reaction, Rate of)

DENCHENKO, V.V.

On the theory of surface tension, Part.2. Znur.fiz.khim. 37 no.10:2299-2300 ± 0'63. (MIRA 17:2)

1. Khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva, Moskva.

### DEMCHENKO, V.V.

Activation energy of self-diffusion in metals. Zhur. fiz. khim. 38 no.3:719-720 Mr '64. (MIRA 17:7)

1 Khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva, koskva.

#### DEMCHENKO, V.V.

Parachor. Zhur. fiz. khim. 39 no.9:2114-2116 S '65.

(MIRA 18:10)

1. I Moskovskiy institut stali i splavov.

3776-67 EWT(m)/EWP(t)/ETI IJP(c) JD
ACC NR AP6023707 SOURCE CODE: UR/0126/66/021/004/0634/0636

MUTHOR: Demchanko, V. V.

ORG: Moscow Instituto for Steel and Alloys (Moskovskiy institut stali i splavov)

TITLE: Relation between the work function and surface tension of a metal

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 4, 1966, 634-636

TUPIC TAGS: work function, surface tension, electron emission

ABSTRACT: A relationship between the work function () and surface tension of of a metal is derived

 $\varphi = 9.6 \pi R^2 \sigma/Z_2$ 

where R is the atomic radius and Z is the number of electrons per atom. It was found that the equation is in good agreement with the experimental data of V. V. Demchenko and N. Ye. Khomutov (Trudy MKhTI im. D. I. Mendeleyeva, 1962, 39, 115). It was also found that the dependence of  $\phi$  on the degree of deformation  $\epsilon$ .

 $\left[\Delta \phi = \phi - \phi_0 = \phi_0 \left[ \left( \frac{1}{1+\epsilon} \right)^{1/\epsilon} - 1 \right] \right]$ 

derived from the above equation, was also in satisfactory agreement with the results

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of L. A. Andreyev and Ya. Palige (DAN SSSR, 1963, 152, 1086). Orig. art. has: I table and 10 equations.						1		
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