

S/137/61/000/011/097/i23  
A060/A101

AUTHORS: Khar'kov, Ye. Y., Kuzmenko, P. P.

TITLE: New high-sensitivity method for studying electric migration in metals and alloys

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 41, abstract 11I277 ("Visnyk Kyivs'k. un-tu", 1960, no. 3, ser. fiz. ta khimii, no. 1, 36 - 42; Ukrainian, Russian summary)

TEXT: Two new methods for studying the electric migration in alloys and metals are described. Two cylindrical specimens with diameter 2.5 mm, length 4 mm, with polished butt surfaces are clamped in the holders of a special vacuum installation and are pressed to each other by the butt surfaces. After passage of the current heating up to the specimens, they are extracted and separated precisely along the same surface along which they had been joined before the experiment. From knowing the change in weight of the cathode and the anode halves of the specimen, caused by the passage of direct current, it is possible to determine the mass of the matter transferred. In the second method, one deposits a thin radioactive layer of a substance onto the polished butt ends

Card 1/2

S/185/62/007/012/014/021  
D234/D308

AUTHORS: Vasilenko, T.V. and Khar'kov, Ye.Y.  
TITLE: Diffusion of Ag in liquid Bi  
PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7,  
no. 12, 1962, 1345 - 1349

TEXT: A tube with an internal diameter of 3mm was filled with liquid Bi containing small additions of radioactive Ag, and a capillary, 0.5 - 1.0 mm in diameter, filled with Ag only, was inserted into it. The tubes were subjected to diffusion annealing. The thin capillary was then cut into parts and the activity was determined. Using this method, diffusion coefficients were determined for 300 - 700° C. The diffusion equation was found to be  $D = 6.2 \times 10^{-3} \exp(6400 \pm \pm 800/RT) \text{ cm}^2 / \text{sec}$ . At 311 - 400° C the experimental points deviate from the theoretical curve towards lower activation energies. There are 3 figures and 1 table.

Card 1/2

Diffusion of Ag in liquid Bi

S/185/62/007/012/014/021  
D234/D308

ASSOCIATION:

Kyyivs'kyi derzhuniversytet im. T.H.  
Shevchenka (Kiev State University im.  
T.H. Shevchenko)

SUBMITTED:

May 29, 1962

Card 2/2

KHAR'KOV, Yu.V.

Eight-spindle screw-thread cutting machine with expanding  
spindles. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.  
nauch.i tekhn.inform. 18 no.11:26-28 N '65.

(MIRA 18:12)

VIRNIK, D.I., starshiy nauchnyy sotrudnik; KHAR'KOVA, A.G., mladshiy nauchnyy sotrudnik; SHAKHNAZAROVA, M.Sh., mladshiy nauchnyy sotrudnik; VLASOV, A.P., inzh.; ROSTOVTSEVA, V.I., inzh.; CHEKANOVA, G.V., inzh.; Prinizali uchastkiye: ARTEMOVA, N.N.; TSYPIA, N.D.; KUST, Ye.F.

Preparation of gelatin from raw materials processed with the acid method. Trudy VNIIMP no.13:52-63 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskoy promyshlennosti (for Khar'kova, Shakhnazarova, Artemova).
2. Moskovskiy zhelatinovyy zavod (for Vlasov, Postovtseva, Chekanova, Tsykina, Kust.).

*KHAR'KOVA, A. P.*

USSR / Plant Diseases--Cultivated Plants

0

Abs Jour: Ref Zhur-Biologiya, No 16, 1958, 73306

Author : Khar'kova, A. P., Rudenko, N. M.

Inst : All-Union Institute of Plant Growing

Title : New Data on a Disease of Potato Tubers in Murman-  
skaya Oblast

Orig Pub: Byul. Vses. in-ta rastenievodstva, 1957, No 3,  
36-38

Abstract: A disease which has been given the name "black skin" has brought great loss to potato growing in Murmanskaya Oblast. The carrier is a fungus *Oospora pustulans*. The damage caused by the disease appears in the lower seed quality of the tubers.

Card 1/2

KHAR'KOVA, A.P.

Biology of *Oospora pustulans* Owen et Wakef., the causative organism  
of skin-spot disease of potatoes. Bot. zhur. 46 no.3:399-407  
Mr '61. (MIRA 14:3)

1. Polyarnaya opyt'naya stantsiya Vsesoyuznogo instituta  
rasteniyevodstva, Khibiny Murmanskoy oblasti.  
(Murmansk povince--Potatoes--Disease and pests)  
(Fungi, Phytopathogenic)

KHAR'KOVA, A.P.

Effect of different factors on the behavior of the fungus *Oospora pustulans* Owen et Wakef. and susceptibility of potatoes to *Oospora* infections. Bot. zhur. 46 no.10:1508-1516 1961. (MIRA 14:9)

1. Polyarnaya opytnaya stantsiya Vsesoyuznogo Instituta rasteniyevodstva, Khibiny.

(Fungi, Phytopathogenic) (Potatoes--Diseases and pests)



KHAR'KOVA, A.P., kand.sel'skokhozyaystvennykh nauk; RUDENKO, N.M., mladshiy  
nauchnyy sotrudnik

Granosan in controlling the Oospora infection of potatoes. Zashch.  
rast. ot vred. i bol. 7 no.3:34-35 Mr '62. (MIRA 15:11)

1. Polyarnaya opytnaya stantsiya.

(Murmansk Province--Oospora)

(Murmansk Province--Potatoes--Diseases and pests)

(Granosan)

KHAR'KOVA, G. V.

18(0,7): 25(1) PHASE I BOOK EXPLOITATION SOV/2106  
 Akademiya nauk Ukrainy SSR, Institut metallofiziki  
 Voprosy fiziki metallor i metallovedeniya (Problems in the Physics  
 of Metals and Metallurgy) Kiev, Izd-vo AN Ukrainy SSR,  
 1969. (Series: Itazhornik naukovykh robot, Nr 9) Errata  
 slip inserted. 3,000 copies printed.

Ed.: V.L. Shkurko; Tech. Ed.: M.I. Yefimova;  
 Editorial Board: V.M. Sveshnikov, Academician, Academy of Sciences  
 Ukrainian SSR (Resp. Ed.); S.D. Gertsarik, Doctor of Physical  
 and Mathematical Sciences; and I.Ya. Deshtyar, Doctor of  
 Technical Sciences.

PURPOSE: This collection of articles is intended for scientific  
 workers, scientists, and engineers in the fields of the physics  
 of metals and metallurgy, metallography, and metallography  
 to students of advanced courses in metallurgical and physical  
 faculties.

COVERAGE: This collection of articles deals with the following  
 topics: effect of high-speed heating, heat treatment, deforma-  
 tions, and crystallization conditions on phase transformations,  
 structures, and properties of metals and alloys; the effect of  
 additional alloying components on volumetric and intercrystalline  
 diffusion in alloys; and the effect of repeated and intercrystalline  
 and redox treatment and ultrasonic treatment on the physical proper-  
 ties of alloys. No personalities are mentioned. References  
 follow several of the articles.

Sveshnikov, V.M., and A.Ye. Shastko. Investigation of  
 Transformations in the Solid State of Cobalt-rich Co-Cr  
 Alloys 105  
 Changes in cobalt-base solid solutions and a more precise  
 determination of phase ranges in equilibrium diagrams of  
 the Co-Cr system are investigated. The microstructure of  
 alloy samples is discussed.

Sveshnikov, V.M., Yu.A. Koshchynskiy, Ye.Ye. Mystrychenko,  
 V.K. Pan, and A.K. Murzin. Investigation of the Cr-Ni-V  
 Alloy System 120  
 Constitution diagrams and microstructures of various  
 binary and ternary alloys were investigated. Changes  
 or hardness with changes of temperature are shown.

Lemik, A.G., and G.Y. Khar'kova. Displacement of  
 Equilibrium Curves of  $\alpha$ - and  $\gamma$ -phases in the Fe-Cr Alloy  
 System Due to Prolonged High-temperature Heating of the  
 $\gamma$ -Phase 133  
 Electrolytic chromium and iron were used for making the  
 alloys. Spiral samples, 20mm. long, were heated in a vacuum  
 (10<sup>-6</sup> mm. Hg), and electrical resistivity was measured. The  
 drop of resistivity at the  $\alpha$ -transformation is discussed.

Tikhonova, Ye. A. Anisotropy in the Diffusion in Cu-Au Alloys 139  
 The calculation of diffusion coefficients for alloys  
 undergoing ordering is made analytically by the method of  
 mean energies and by the configuration method.

Gertsarik, S.D., and N.P. Priznashnikov. Investigation of  
 Volumetric Diffusion of Iron in Alloys 147  
 Alloys composed of Fe + 0.27 percent Al, and Fe + 0.39  
 percent Al, were investigated. Samples, 10 x 15 x 2 mm,  
 were deformed and annealed. The mean grain size (0.5 to 1  $\mu$ m.)  
 did not change after diffusion annealing (770 to 1250°C).  
 The polished surfaces of the samples were coated with radio-  
 active iron (1 to 2  $\mu$ ions thick). The depth of the diffu-  
 sion layer (100 to 140  $\mu$ m) varied with temperature and  
 time of annealing.

Gertsarik, S.D., T.K. Yatsenko, and L.P. Shastko. In-  
 vestigation of Diffusion of Cobalt and Iron Along Grain Boundaries  
 of Cobalt, Nickel, and Iron 154  
 The absolute values of diffusion coefficients for Co-Co,  
 Co-Ni, Co-Fe, Fe-Fe, and Fe-Ni, i.e., diffusion with  
 respect to time and temperature of annealing, were obtained  
 for grain-boundary diffusion and volumetric diffusion. The  
 relationship between coefficients for both diffusions is  
 discussed.

137-58-6-13284

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 302 (USSR)

AUTHORS: Lesnik, A.G., ~~Khar'kova, G.V.~~, Ostrovnikaya, T.S.

TITLE: Effect of High-temperature Heating on Nichrome Properties  
(Vliyaniye vysokotemperaturnogo nagreva na svoystva nikhromov)

PERIODICAL: Sb. nauchn. rabot In-ta metallofiz. AN UkrSSR, 1957, Nr 8,  
pp 70-76

ABSTRACT: An investigation of the effect of prolonged high-temperature heating on the microstructure, hardness, and parameters of the lattice of three different nichromes: Ni-Cr (24.85% Cr), Ni-Cr-Mo (Cr 19%, Mo 1.77%), and Ni-Cr-W (Cr 22.0%, W 3.3%). Specimens were heated in sealed quartz ampoules at 1170-1200°C. It was established that high-temperature heating of nichromes and subsequent holding within the temperature range between 600 and 840°C causes a change in the parameter of the lattice of the initial solid solution, which indicates its decomposition. This phenomenon has no connection with the presence of incidental impurities. Nichromes containing > 20% Cr are not completely balanced systems, and a prolonged heating at high temperatures causes their transition into a balanced condition. N.K.

1. Nickel alloys--Temperature factors 2. Nickel alloys--Test results

Card 1/1

SKVORCHOK, V.P.; KHAR'KOVA, G.V.

X-ray determination of secondary stresses and the size of blocks in thin permalloy films. Sber. nauch. rab. Inst. metallofiz. AN URSR no.18:187-188 '64 (MIRA 17:8)

L 24445-66 EWT(m)/ENP(w)/T/ENP(t) IJP(c) JD/HM/JG/GS  
ACC NR: AT6010580 (N) SOURCE CODE: UR/0000/65/000/000/0143/0152

AUTHOR: Tikhonov, L. V.; Khar'kova, G. V.

ORG: Institute of Physics of Metals, AN UkrSSR (Institut metallofiziki AN UkrSSR)

TITLE: The part played by flaws in the initial crystalline structure in thermal fatigue of cast alloys

SOURCE: AN UkrSSR. Mekhanizm plasticheskoy deformatsii metallov (Mechanism of the plastic deformation of metals). Kiev, Naukova dumka, 1965, 143-152

TOPIC TAGS: crystal structure, thermal fatigue, cast alloy, chromium alloy, nickel alloy, cyclic test, metal heat treatment, crystal structure defect

ABSTRACT: Experimental data are given from a study of crack formation as a function of defects in the crystal structure generated during thermocyclic treatment. The specimens were coarse-grained cast chromium-nickel alloy bars 50 mm long. The specimens were subjected to thermocyclic treatment under the following conditions: upper temperature of the cycle -- 960°C (heating in air), lower temperature of the cycle -- 20°C (cooling in water), time of the cycle -- 7 minutes. The x-ray

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L 24445-66

ACC NR: AT6010580

analysis procedure is briefly described. Photomicrographs of the specimens in the initial state and after 30 cycles of thermocyclic treatment are compared. The experimental results show that the nature of the formation and development of cracks during thermocyclic treatment of cast alloys is considerably dependent on the flaws in the crystalline structure of the alloy in the initial state. Orig. art. has: 5 figures.

SUB CODE: 11,20/ SUBM DATE: 05Oct64/ ORIG REF: 003/ OTH REF: 003

Card 2/2

RATINOV, A.G.; KHAR'KOVA, N.M.

Certain carbohydrate metabolism disorders in plague intoxication.  
Vop. med. khim. 6 no. 6:603-610 N-D '60. (MIRA 14:4)

1. Pathophysiological Laboratory of the Antiplague Research Institute  
for Caucasian and Transcaucasian Region.

(PLAGUE) (CARBOHYDRATE METABOLISM) (TOXINS AND ANTITOXINS)

KRATINOV, A.G.; KHAR'KOVA, N.M.

Species differences in carbohydrate and ascorbic acid metabolism disorders in rodents with plague intoxication. Biul. eksp. biol. i med. 51 no.5:63-67 My '61. (MIRA 14:8)

1. Iz laboratorii patofiziologii (zav. - prof. A.G.Kratinov) Nauchno-issledovatel'skogo protivochumnogo instituta Kavkaza i Zakavkaz'ya (dir. - V.N.Ter-Vartanov), Stavropol'. Predstavlena deystvitel'nym chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym.  
(CARBOHYDRATE METABOLISM) (ASCORBIC ACID)  
(PLAGUE)

**KRATINOV, A.G.; KHAR'KOVA, N.M.**

New data on the reactivity of the body to histamine in plague  
intoxication. Zhur. mikrobiol., epid. i immun. 32 no.9:135-136  
S '61. (MI.A 15:2)

1. Iz Nauchno-issledovatel'skogo i protivichumnogo instituta Kavkaza  
i Zakavkaz'ya. (HISTAMINE) (PLAGUE)



KRATINOV, A.G.; KHAR'KOVA, N.M.

Glycemic reactions to adrenaline, insulin and histamine in  
plague intoxication. Vop. med. khim. 7 no.3:277-285 My-Je  
'61. (MIRA 15:3)

1. Laboratory for Pathophysiology of the Anti-Plague  
Institute of the Caucasus and Transcaucasus.  
(PLAGUE) (BLOOD SUGAR) (ADRENALINE)  
(INSULIN) (HISTAMINE)

KHAR'KOVA, R. M.

KHAR'KOVA, R. M.: "Unconditioned secretion of the salivary glands in pre-school children in various typological orientations of higher nervous activity and in various functional states of the cerebral hemispheres." Inst of Higher Nervous Activity, Acad Sci USSR. Moscow, 1956  
(Dissertation for the Degree of Candidate in Medical Sciences)

So: *Enizhnaya letopis'* No 17, 1956

KHAR'KOVA, R.M., kand. med. nauk

Unlimited and dosed artificial feeding of children in a nursery during their first year of life. *Pediatrics* 42 no.6:20-24 Je'63  
(MIRA 17:1)

1. Iz otdela fiziologii (rikovoditel' - kand. med. nauk V.G. Kislyakovskaya) Gosudarstvennogo nauchno-issledovatel'skogo pediatricheskogo instituta (dir. - kand. med. nauk V.P. Spirina) Ministerstva zdravookhraneniya RSFSR.

KUL'TEPINA, O.S., kand.med.nauk, KHAR'KOVA, R.M.

Function of the cardiovascular system in preschool children [with  
summary in English]. *Pediatrics* 36 no.6:32-36. Je '58 (MIRA 11:6)

1. Iz otdela fiziologii (zav. - doktor med.nauk N.Ye. Ozeretskoyakaya)  
Nauchno-issledovatel'skogo instituta pediatrii Ministerstva zdavo-  
okhraneniya RSFSR (dir. - kand.med.nauk V.N. Karachevtseva).

(CARDIOVASCULAR SYSTEM, physiol.  
in child. of preschool age (Rus))

RYSKINA, Ye.B., kand.med.nauk; KHAR'KOVA, R.M., kand.med.nauk;  
SHULYAT'YEVA, Ye.V.

Use of fruits and vegetables in the nutrition of infants during  
the first six months of life. *Pediatrics* 39 no.3:63-67 Mar '61.

(MIRA 14:4)

1. Iz Nauchno-issledovatel'skogo pediatricheskogo instituta  
(dir. - doktor med.nauk A.P. Chernikova) i Tsentral'nogo doma  
rebenka (dir. Ye.B. Shulyat'yeva) Moskvy.

(FRUIT)

(VEGETABLES)

(INFANTS---NUTRITION)

VORONTSOV, A.G., red.; ZHEMELEV, L.F., red.; PANTELEYEVA, P.G., red.;  
SMIRNOV, V.I., red.; BELOZEROV, K.S., red.; TETERINA, Ye.G., red.;  
FEDOROV, A.N., red.; KHAR'KOVA, Ye.I., red.; SHUTOVA, O.I., red.;  
VORONTSOVA, Z.Z., teKHn.red.

[Economy of the Udmurt A.S.S.R.; a statistical manual] Narodnoe  
khoziaistvo Udmurskoi ASSR; statisticheskiy sbornik. Izhevsk,  
1957. 135 p. (MIRA 11:3)

1. Udmurt A.S.S.R. Statisticheskoye upravleniye. 2. Nachal'nik.  
Statisticheskogo Upravleniya Udmurskoy ASSR (for Vorontsov)  
(Udmurt A.S.S.R.--Statistics)

KHAR'KOVA, Ye.I., inzh.

Designing frame furniture and standardizing its elements. Ser. pron.  
14 no.2:5-7 F '65. (MIRA 18:6)

KHARKOVER, M.Z.; DESYATKOVA, M.A.; BARKOVSKIY, V.F.; MITROPOL'SKAYA, N.A.;  
GANOPOL'SKAYA, T.A.

Chemical-spectral determination of microgram impurities of man-  
ganese, nickel, cobalt, and copper in lanthanum oxide. Zhur. anal.  
khim. 21 no. 1:94-97 '66 (MIRA 19:1)

1. Ural'skiy gosudarstvennyy universitet imeni Gor'kogo, Sverdlovsk.



BARKOVSKIY, V.F.; KHARKOVER, M.Z.

Protonation and acid dissociation of 8-mercaptoquinoline  
in aqueous solutions. Dokl. AN SSSR 153 no.4:837-839 D '63.  
(MIRA 17:1)

1. Ural'skiy gosudarstvennyy universitet im. A.M. Gor'kogo.  
Predstavleno akademikom M.I. Kabachnikom.

L 35837-66 EWT(m)/EWT(t)/ETI IJF(c) JD/HW

ACC NR: AP6016301 (A) SOURCE CODE: UR/0075/66/021/001/0094/0097

AUTHOR: Kharkover, M. Z.; Dasyatkova, M. A.; Barkovskiy, V. F.; 31  
Mitropol'skaya, N. A.; Ganopol'skaya, T. A.

ORG: Ural State University im. A. M. Gorky, Sverdlovsk (Ural'skiy B  
gosudarstvennyy universitet)

TITLE: Chemical and spectrographic determination of micro impurities of  
manganese, nickel, cobalt, and copper in lanthanum oxide 27

SOURCE: <sup>27</sup> Zhurnal analiticheskoy khimii, v. 21, no. 1, 1966, 94-97

TOPIC TAGS: manganese, cobalt, copper, nickel, lanthanum compound,  
quantitative analysis, *METAL PURIFICATION, CHEMICAL PURITY*

ABSTRACT: The article describes the use of 8-mercaptoquinoline  
(thiooxine) for concentrating micro impurities of manganese, nickel,  
cobalt, and copper from lanthanum oxide. There is a detailed  
description of the starting materials and reagents used and their  
purification. This is followed by a discussion of the completeness of  
the extraction of manganese, nickel, cobalt, and copper. The optimum  
amount of the reagent (thiooxine) was found to be 200-fold; at this  
amount, 15 minutes was sufficient for relatively complete formation of

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UDC: 543.423

L 35837-66

ACC NR: ~~AP6016301~~ APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R00072182001

thiooxines. This is followed by a discussion of the concentration of  
the solutions and of the spectrographic determinations. Experimental  
results are shown in tabular form. Orig. art. has: 4 tables.

SUB CODE: 07/ SUBM DATE: 30Dec64/ ORIG REF: 004

no  
Card 2/2

MOSKOVSKI, St.; NEDIALKOVA, Sl.; TENCHOV, Ia.; KHARKOVSKA, Al.;  
SHOPOV, Vl.; IANEV, Sl.

Stratigraphic and lithologic studies on the nucleus  
and a part of the mantle of the Mikhaylovgrad anticline  
between Chuprenska and Rikovska Bara Rivers, Northwestern  
Bulgaria. Trudove vurkhu geol strat 5:29-67 '63.

KHARKOVSKA, Al.; TOPRANCHILEVA, V.

Granite in the core of the Mikhailovgrad anticline. Spis Bulg  
geol družh 25 no.2:129-135 '64.

1. Administration of Geologic Research.

~~KHAR'KOVSKIY, Nikolay Dmitriyevich; KHAR'KOVSKAYA, Tamara Ivanovna;~~  
TSAR'KOV, V., red.; VORONKOVA, Ye., tekhn.red.

[Holiday of the New Year's tree] Prazdnik novogodnei elki.  
Penza, Penzenskoe knizhnoe izd-vo, 1959. 110 p.

(MIRA 14:2)

(Christmas decorations)

USSR/General Problems of Pathology - Comparative Oncology U-1

Abs Jour : Ref Zhur + Biol., No. 18, 1958, 84936

Author : Popov, S. N., Grozdova, A. T., Khar'kovskaya, V.P.

Inst : ~~No institute is given~~

Title : The Problem of Multiple Primary Cancers of the Stomach

Orig Pub : Vestn. Rentgenol. i Radiol., 1957, No. 4, 79-80

Abstract : Two cases of multiple primary carcinoma of the stomach were seen in patients 51 and 55 years of age. Each patient had three tumors, whereas only two could be demonstrated radiologically, the third being discovered at operation. In the first patient all three tumors were of distinct histological structure - a solid carcinoma, a poorly-differentiated adenocarcinoma, and typical small-celled carcinoma. In the second patient, all the tumors had the structure of adenocarcinoma with foci of squamous cell carcinoma. Emphasis is given to the difficulty of X-ray diagnosis of multiple carcinoma, as the result of the superposition of shadows of tumors

Card 1/2

KHARKOVSKAYA, Ye.M.

Psychoprophylactic method in painless labor. Fel'dsher & akush, no.9:  
55-56 Sept 1953. (CLML 25:4)

1. Based on the materials of Khar'kov Second Maternity Home.

5(4)

SOV/20-127-1-39/65

AUTHORS: Khar'kovskaya, Ye. N., Borekov, G. K., Corresponding Member  
AS USSR, Slin'ko, M. G.

TITLE: The Kinetics of Interaction Between Hydrogen and Oxygen on  
Platinum (Kinetika reaktsii vzaimodeystviya vodoroda s  
kislorodom na platine)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 1, pp 145-148  
(USSR)

ABSTRACT: The measuring results hitherto supplied by publications  
concerning the interaction mentioned in the title are contra-  
dictory (Refs 1-5). Experiments were made within too narrow  
concentration ranges or under conditions that did not allow  
accurate measurements. The mentioned interaction was therefore  
carried out at temperatures of from 20 to 180<sup>o</sup>, pressure of  
from 50 to 750 torr and different compositions of the reaction  
mixtures in a circulation system. Investigations were made on  
hydrogen, nitrogen-hydrogen mixtures, nitrogen-oxygen mixtures  
and oxygen. Platinum was used in the form of 0.1 mm gauge wire.  
The circulation rate varied between 400 and 1100 l/h. The  
reaction rate proved to be independent of the circulation rate  
and of the nitrogen partial pressure; it depended only on the

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The Kinetics of Interaction Between Hydrogen  
and Oxygen on Platinum

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partial pressure of hydrogen and oxygen. Figs 1-3 show the measuring results for the different concentrations and temperatures as well as the influence of the pre-treatment of platinum with hydrogen at increased temperatures, figure 4 the dependence of the reaction rate on the  $H_2$ - and  $O_2$  concentration at  $180^\circ$ . Experimental data are indicative of a complicated catalytic process. In mixtures with hydrogen excess, the reaction of the first order (referred to  $O_2$ ) and its being little dependant on the pressure of  $H_2$ , permit the conclusion to be drawn that here the interaction between chemically sorbed atomic hydrogen, which covers the platinum surface, and molecular oxygen, forms the limiting stage. The oxygen reaction is made easier by interaction with the d-electrons of the catalyst (adsorption type C according to Dowden, Ref 11). If the oxygen is not altogether removed from the platinum surface, O-atoms remain adsorbed to the surface by means of the d-electrons of the metal (type B), and the activity of platinum drops. When passing over to stoichiometric  $H_2$ - $O_2$ -mixtures,

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the platinum surface is freed from hydrogen, and a chemical sorption of the oxygen with dissociation into atoms is made possible. (Type A). In this range the reaction proceeds by interaction of the atomically adsorbed oxygen with  $H_2$ ; this requires less activating energy, and causes an increased reaction rate. In the case of oxygen excess, two stationary conditions are possible, which differ by the reaction rate and dependence on concentration of the components. The readily occurring reaction is likely to be related with a chain process, in which high-energy endothermal products participate, which are regenerated in the course of reaction. On lowering the temperature and temporarily evacuating the system, these unstable products vanish, and there only remains a relatively tightly platinum-adsorbed oxygen which reacts with hydrogen slowly and with increased energy demand. The decreased

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The Kinetics of Interaction Between Hydrogen  
and Oxygen on Platinum

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reaction rate at increased oxygen pressure is probably due to a partial blocking of the platinum surface by tightly adsorbed oxygen. There are 4 figures and 11 references, 8 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im.  
L. Ya. Karpova (Scientific Research Institute of Physical  
Chemistry imeni L. Ya. Karpov)

SUBMITTED: March 30, 1959

Card 4/4

ZEL'VENSKIY, Ya.D.; KHAR'KOVSKAYA, Ye.N.

Fine purification of gas involving the removal of carbon  
dioxide by absorption at a low temperature. Khim.prom.  
no.4:293-302 Je '60. (MIRA 13:8)  
(Gas purification) (Carbon dioxide)

KHAR'KOVSKIY, A.

Venice in the Arctic regions. Znan.-sila 38 no.6:4-5 Je '63.  
(MIRA 16:8)

(Arctic regions—Cities and towns)

ABDULIN, A.; ALEKSEYEV, I.; BANTLE, O.; BOBROV, L.; BOZHANOV, B.;  
BOYKO, V.; BONDAREV, K.; BORZOV, V.; VERKHOVSKIY, N.; GUBAREV, V.;  
GUSHCHEV, S.; DEBABOV, V.; DIKS, R.; DMITRIYEV, A.; ZHIGAREV, A.;  
ZEL'DOVICH, Ya.; ZUBKOV, B.; IRININ, A.; IORDANSKIY, A.;  
KITAYGORODSKIY, P.; KLYUYEV, Ye.; KLYACHKO, V.; KOVALEVSKIY, V.;  
KNORRE, Ye.; KONSTANTINOVSKIY, M.; LADIN, V.; LITVIN-SEDOY, M.;  
MALEVANCHIK, B.; MANICHEV, G.; MEDVEDEV, Yu.; MEL'NIKOV, I.;  
MUSLIN, Ye.; NATARIUS Ya.; NEYFAKH, A.; NIKOLAYEV, G.; NOVOMEYSKIY, A.;  
OL'SHANSKIY, N.; OS'MIN, S.; PODOL'NIY, R.; RAKHMANOV, N.; REPIN, L.;  
RESHETOV, Yu.; RYBCHINSKIY, Yu.; SVOREN', R.; SIFOROV, V.; SOKOL'SKIY, A.;  
SPITSYN, V.; TEREKHOV, V.; TEPLOV, L.; KHAR'KOVSKIY, A.; CHERNYAYEV, I.;  
SHAROL', L.; SHIBANOV, A.; SHIBNEV, V.; SHUYKIN, N.; SHCHUKIN, O.;  
EL'SHANSKIY, I.; YUR'YEV, A.; IVANOV, N.; LIVANOV, A.; FEDCHENKO, V.;  
DANIN, D., red.

[Eureka] Evrika. Moskva, Molodaia gvardiia, 1964. 278 p.  
(MIRA 18:3)

MACHABELI, Sh.L., inzh.-stroitel'; KHAR'KOVSKIY, A.S., inzh.-stroitel'

Under the same roof... Nauka i zhizn' 27 no.8:65 Ag '60.  
(MIRA 13:9)

(Factories--Design and construction)

OVSYUK, G.S., TIMCHENKO, A.F., KHAR'KOVSKIY, I.G.

More on steel decoxidation by aluminum. Lit. proizv. no.6:47-48  
Je '60. (MIRA 13:8)  
(Steel--Metallurgy) (Aluminum)



KHAR'KOVSKIY, K.V.

AFONIN, K.B.; BURTSEV, K.I.; BYSTROV, S.N.; VIMETS, G.B.; VODNEV, G.G.; VORONIN, A.S.; OBYLICH, A.S.; GRYAZNOV, N.S.; GUDIM, A.F.; GUSYATINSKIY, M.A.; DVORIN, S.S.; DIDENKO, V.Ye.; DMITRIYEV, M.M.; DONDE, M.M.; DOROGOVID, G.M.; ZHDANOV, G.I.; ZAGORUL'KO, A.I.; ZELINETSIIY, A.G.; IVASHCHENKO, Ya.N.; KAPTAN, S.I.; KVASHA, A.S.; KIRBYEV, A.D.; KLISHEVSKIY, G.S.; KOZYREV, V.P.; KOLOBOV, V.N.; LOALOV, K.I.; LEYTKS, V.A.; LERNER, B.Z.; LOBODA, N.S.; LUBINETS, I.A.; MANDRYKIN, I.I.; MUSTAFIN, F.A.; NEMIROVSKIY, N.Kh.; NEFEDOV, V.A.; OBUKHOVSKIY, Ya.M.; PRITSEV, M.A.; PETROV, I.D.; PODOROZHANSKIY, M.O.; POPOV, A.P.; RAK, A.I.; REVIYAKIN, A.A.; ROZHKOV, A.P.; ROZENGAUZ, D.A.; SAZONOV, S.A.; SIGALOV, M.B.; STOMAKHIN, Ya.B.; TARASOV, S.A.; FILIPPOV, B.S.; FRIDMAN, N.K.; FRISHBERG, V.D.; KHAR'KOVSKIY, K.V.; KHOLOPTEV, V.P.; TSAREV, M.N.; TSOGLIN, M.E.; CHERNIY, I.I.; CHERTOK, V.T.; SHILKOV, A.K.

Samuil Borisovich Banne. Keks i khim. no. 6:64 '56.

(MLRA 9:10)

(Banne, Samuil Borisovich, 1910-1956)

KHAR'KOVSKIY, M. [Kharkivs'kyi, M.]

Home made universal work bench. Znan. ta pratsia no. 1:16 Ja '61.  
(MIRA 14:4)

(Carpentry---Tools)

KHARKOVSKIY, N

USSR / Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi. R

Abs Jour: Ref Zhur-Biol., No 8, 1958, 35828.

Author : Khar'kovskiy, N.  
Inst : Ministry of Agriculture, Kirgiz SSR.  
Title : Colibacillosis and Paratyphoid in Calves; Ways and Means of Combatting Them.

Orig Pub: Mo-vo s. kh. KirSSR, Frunze, 1957, 36 str. ill.

Abstract: No abstract.

Card 1/1

16

~~KHAR'KOVSKIY, Nikolay Dmitriyevich; KHAR'KOVSKAYA, Tamara Ivanovna;~~

~~APPROVED FOR RELEASE: 09/17/2001~~ CIA-RDP86-00513R00072182001

[Holiday of the New Year's tree] Prazdnik novogodnei elki.  
Penza, Penzenskoe knizhnoe izd-vo, 1959. 110 p.

(MIRA 14:2)

(Christmas decorations)

KHAR'KOVSKIY, N.N. (Moskva)

Diagnostic value of laparoscopy. Klin. med. 41 no.7:71-76  
Jl'63 (MIRA 16:12)

1. Iz kafedry gosputal'noy terapii (zav. - deystvitel'nyy chlen  
AMN SSSR prof. A.L.Myasnikov) I Moskovskogo ordena Lenina medi-  
tsinskogo instituta imeni I.M.Sechenova.

KHAR'KOVSKIY, N.N.; AKZHIGITOV, G.N.

Laparoscopic cholecystocholangiography. Eksp. khir. i anest.  
no.1:57-61 '65. (MIRA 18:11)

1. Gospital'naya terapevticheskaya klinika (zav. - deystvitel'nyy  
chlen AMN SSSR prof. A.L. Myasnikov) i Tsentral'naya nauchno-  
issledovatel'skaya laboratoriya (zav. - kand. med. nauk A.S.  
Chechulin) i Moskovskogo ordona Lenina meditsinskogo inatituta  
imani I.M. Sechenova.

LAYUS, A.M.; KHAR'KOVSKIY, P.P.

Chill mold machine. Lit.proizv. no.2:9-10 F '56.(MLRA 9:6)  
(Molding machines)

Submitted : No date

KHARKOVSKIY, S.K. [Kharkivs'kyi, S.K.]

Secure productive utilization of collective farm machinery.

Mekh. sil' nos. 9 no.4:5 Ap '58.

(MIRA 11:5)

1.Golovniy inzhener Barishivs'koi mashinno-traktornoj stantsii  
Kiivs'koi oblasti,

(Kiev Province--Agricultural machinery)

KHAR'KOVSKIY, S.Ye., referent.

Slurry pump (from "Iron and Steel," Dec. 1956). Reviewed by S.E.  
Khar'kovskii. Koks i khim. no.1:62 '58. (MIRA 11:2)

1. Giprokoks.

(Pumping machinery)



KHAR'KOVSKIY, S.Ye., referent.

Improved belt conveyer idler with rollers on a curved bar (from  
"Gas World," no.3732 1956; "Iron and Coal," 4 no.633 1957). Koks  
i khim. no.1:62 '58. (MIRA 11:2)

1. Giprokoks.

(Conveying machinery)

GURO, P.Ye.; KHAR'KOVSKIY, S.Ye.

Design of foundation slabs for centrifugal pumps. Koks i khim.  
no.9:57 '62. (MIRA 16:10)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy  
koksokhimicheskoy promyshlennosti.  
(Pumping machinery—Foundations)

KHAR'KOVSKIY, S.Ye., referent.

Storage of coal in Britain (from "Coke and Gas, "No.211. 1956).  
Koks i khim. no.12:53 '58. (MIRA 11:12)  
(Great Britain--Coal--Storage)

GLUSKIN, L.I., inzh.; KHAR'KOVSKIY, V.Ya., inzh.

Automatically controlled equipment for water feed by gravity to  
percussive cable drilling machines. Gor.shur. no.9:73-74 S  
'60. (MIRA 13:9)

1. Karakubskoye rudoupravleniye, Stalinskaya oblast'.  
(Boring machinery) (Automatic control)

KYAZIMOV, A.A.; KHALDEY, Z.V.; KHAR'KOVSKIY, Yu.I.

Colorimetric method for determining furfurole in the products and  
waste water of the selective purification of oils. Khim.i tekhn.  
topl.i masel 8 no.11:61-64 N '63. (MIRA 16:12)

KYAZIMOV, A.A.; KHALDEY, Z.V.; KHAR'KOVSKIY, Yu.I.; YURIN, M.I.

Determination of the quality of raffinate at the output from an extraction column on oil selective purification units using furfural. Khim.i tekhn. i masel 10 no.1:24-26 Ja '65.

(MIRA 18:4)

1. Bakinskiy zavod im. XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza i Nauchno-issledovatel'skiy i proyektnyy institut po kompleksnoy avtomatizatsii proizvodstvennykh protsessov v neftyanoy i khimicheskoy promyshlennosti.

KHAR'KOVTSYV, G.N., redaktor; BEKKER, O.G., tekhnicheskiiy redaktor

[Wholesale price list for standard grade steel]Preiskurant optovykh  
tseñ na stal' obyknovennogo kachestva. Moskva, Gos. nauchno-tekhn.  
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1950. 375 p.  
[Microfilm] (MLRA 7:10)

1. Russia (1923- U.S.S.R.) Ministerstvo metallurgicheskoy pro-  
myshlennosti  
(Steel--Prices)

**KHAR'KOVTSSEV, G.N.**

System of payment for metals including free delivery F.O.B. at point  
of destination). Stal' 15 no.2:168-172 F '55. (MIRA 8:5)

1. Ministerstvo chernoy metallurgii SSSR.  
(Metals--Transportation--Rates) (Shipment of goods)



KHARKOV TSEV, G. N.

Card 5

113

PHASE I BOOK EXPLOITATION

**AUTHOR:** See table of contents

**TITLE:** Manual of Government Standards and Technical Specifications for Ferrous Metals (Spravochnik po gosudarstvennym standartam i tekhnicheskim usloviyam na chernyye metally)

**PUB. DATA:** Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo literatury po chernoy i tsvetnoy metallurgii, Moscow, 1956, 567 pp., 14,500 copies.

**ORIG. AGENCY:** Ministerstvo chernoy metallurgii SSSR

**EDITORS:** Matyushina, N. V.; Gordiyenko, V. K.; Editor of Publishing House: Rozentsveyg, Ya. D.; Tech. Editor: Berlov, A. P.

**PURPOSE:** This manual was compiled for design engineers, technologists, economists and supply specialists to be used as an aid in selecting and ordering ferrous metals: foundry iron, conversion pig, ferroalloys and steel bars, sheet, shapes, and wire.

Card 1/30

Manual of Government Standards and Technical Specifications for Ferrous Metals (Cont.)

**COVERAGE:** This book contains data on the most widely-used structural shapes, listing the basic requirements for production and supply (chemical composition, mechanical properties, external characteristics, marking, and packing) as determined by the standards and technical specifications established as of October 1, 1956. The manual deals with general-purpose types, shapes, and grades used by the majority of consumers, and with special-purpose types used by a large number of consumers. It does not list steel types, shapes, and grades having a narrow application in farm-machinery construction, transportation-machinery construction, in tractor, automobile, and aircraft production, in the electrical industry, etc., or data on steels for metallurgical conversion (billets, rolling stock, scalps for pipes, draw-bench tubes, cylinder tubing, etc.). Shapes and sizes which were not in production by October 1, 1956, are listed separately.

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## Manual of Government Standards and Technical Specifications for Ferrous Metals (Cont.)

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Blast-furnace ferromanganophosphorus (ChMTU 3135-52)	23
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## Manual of Government Standards and Technical Specifications for Ferrous Metals (Cont.)

## Classification and Chemical Composition

27

## Part II. Ordinary and High-quality Steel (A. S. Kaplan, G. N. Kharkovtsev, V. S. Slavkin, Ye. A. Yavnilovich)

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## 1. Rounds

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100  
001/33-16-3-17/20

AUTHOR: Khar'kovtsev, G. N.  
TITLE: The Economy and Organization of Production. Main Points of Formation of Wholesale Prices for Iron and Steel Products (In Order of Discussion)

PERIODICAL: Stalin, 1960, Nr 3, pp 264-269 (USSR)

ABSTRACT In this article, a definite need is pointed out for rationalization of the existing system of evaluation of production costs, as an assurance of successful expansion of the ferrous metallurgical industry in the current Seven-Year Plan. The recent decentralization of plants and expansion of industry created problems on availability of raw material and fuel, its quality, and transportation, resulting in great regional differences of production costs. In an attempt to practically modernize the evaluating methods, the author suggests dividing the Soviet metallurgical industry into five groups, based on geographical

Card 1/3

The Economy and Organization of Production.  
Main Points of Formation of Wholesale Prices  
for Iron and Steel Products (In Order of  
Discussion)

72192  
SOV/133-60-3-17/24

Locations of various metallurgical plants and combines.  
Group 1--Magnitogorsk and Kuznetsk Combines (Magnito-  
zavodskiy i Kuznetskiy kombinaty); Group 2--Plants imeni  
Dzerzhinskiy (imeni Dzerzhinskogo), imeni Kirov  
(imeni Kirova), "Azovstal'", "Zaporozhstal'", Alchevsk  
(Alchevskiy), "Kryvorozhstal'", Chelyabinsk (Chely-  
abinskiy), and shop Nr 1 at Nizhniy Tagil Combine  
(Nizhne-Tagil'skiy kombinat); Group 3--Plants imeni  
Petrovskiy (imeni Petrovskogo), Staling (Stalinskiy),  
imeni Il'ich (imeni I'icha), Yenakiyevskiy (Yenakiyevskiy),  
Transcaucasian (Zakavkazskiy), Chusovaya (Chusovskoy),  
Group 4--Plants Kramatorsk (Kramatorskiy), Konstantinovka  
(Konstantinovskiy), Almaznaya (Almaznyanskiy), Satka  
(Satskiy), Kushva (Kushvinskiy), Saida (Saidinskiy),  
Beloret'sk (Beloret'skiy), Asha (Ashinskiy), Staro-  
Utkinsk (Staro-Utkinskiy), Pashino (Pashinskiy), and  
Nizhniy Tagil Combine (Nizhne-Tagil'skiy) shop Nr 2,  
Alapayevsk Combine (Alapayevskiy), imeni Serov (imeni

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The Economy and Organization of Production.  
Main Points of Formation of Wholesale Prices  
for Iron and Steel Products (In Order of  
Discussion)

78192  
SOV/133-60-3-17/24

Serova); Group 5--new enterprises: Cherepovets Plant  
(Cherepovetskiy zavod) and Orsk-Khalilovo Combine  
(Orsko-Khalilovski kombinat). Thus, evaluation of  
production costs, earning capacity, and the net  
value of each plant would be made on a regional  
basis, presenting a more realistic picture of the  
Soviet national economy. There are 7 tables.

Card 3/3

KHAR'KOVSEV, G.N.; MAKAROV, L.P.

Possibilities for the utilization of blast furnace slags. Stal'  
22 no.4:376-378 Ap '62. (MIRA 15:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy  
metallurgii.

(Blast furnaces) (Slag)

KHAR'KOVTSSEV, G.N.; YEMEL'YANOVA, E.N.

Regional differentiation in wholesale prices for ferrous metals.  
Sbor.trud.Otd. tekhn.-ekon. issl. TSNICHM no. 1:129-136 '63.  
(MIRA 17:6)

KHAR'KOVTS'EV, G.N.; MAKAROV, L.P.

Efficient way of establishing wholesale prices for blast  
furnace slag. Sbor.trud.Otd. tekhn.-ekon. issl. TSNIIICHM no.  
1:151-159 '63. (MIRA 17:6)



KHAR'KOVTSSEV, G.N.

Principles and results of the revision of wholesale prices  
for ferrous metals. Stal' 24 no.10:931-935 0 '64.

(MIRA 17:12)

KHAI, KOVSEV, G. N., SOKOLOVA, I. I.

Economic efficiency in the production of various types of  
increased-and high-strength reinforcement steel. Sbor. trud.  
TSNITOBM no.45:125-136 '65. (MTR 1249)

KHARLAB, D. Yu, inzhener

Wintertime construction of concrete bridges without use of  
housing. Avt.dor. 18 no.2:20-22 Mr-Apr '55. (MLBA 8:6)  
(Bridges, Concrete)  
(Concrete construction--Cold weather conditions)

KHARLAB, D. Yu., inzhener

Dynamic action of automobiles on road surfaces. Avt.dor.18 no.4:  
17-18 J1-Ag'55. (MLRA 8:11)

(Pavements)

KHARLAB, D.Yu., inzhener.

Using vibration pouring tubes in submarine concreting. Bet.i zhel.  
-bet. no.10:373-374 O '56. (MLBA 9:11)  
(Concrete construction) (Vibrators)

KHARJAB, D.Yu., inzh.

Accelerating the hardening of concrete. Avt.dor. 20 no.8:9-10  
Ag '57. (MIRA 12:4)

(Concrete--Testing)

~~CHARLES V. D. Reinzener.~~

Calculating tall pile grating. Avt. dor. 20 no.5:19 My '57.  
(Piling (Civil engineering)) (MLRA 10:8)

S/048/63/027/003/023/025  
B106/B23B

Narbutt, K. I., Perel'man, S. M., Praver, I. A.,  
and Kozlov, V. A.

Abstract to the original Russian report  
and the original article.

Academy of Sciences USSR. Izvestiya Akad. Nauk SSSR  
v. 21, no. 3, 1963, 13-14

TEXT: Two types of proportional counter tubes were tested, type 1 with  
its entry window in the side, and type 2 with a window in the support of  
the counter. All the windows were made of beryllium, 150 - 200  $\mu$   
thick. Type 1 instruments were filled with either argon, krypton or xenon,  
and in every case 10 % isopentane was added as an extinguisher. The anode  
filaments in type 2 were fixed straight to the support in order to reduce  
the dead space and the action of boundary effects on the amplitude re-  
solution of the counter. The filling is a krypton-isopentane mixture at a  
pressure of c. 400 mm Hg. The electronic counting device is made up of a

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S/048/00027/005/025/025  
B106/B25U

An attempt to use ...

pre-amplifier and a standard (CA (SSD) diffractometer counter unit. The amplitude distribution for characteristic K lines of various energies was studied under various conditions using a type 1 counter filled with argon. The mean pulse height was found to depend linearly on the quantum energy of the exciting radiation. The way in which the energy resolution of the instruments depends on the energy of the radiation to be recorded is also determined. The amplitude distribution of the characteristic radiation was measured for the elements K lines of the first five tubes using the three sorts of type 1 tube. In argon, a small argon loss peak occurs even in the vanadium spectrum, but L series analysis is possible from silver onwards. In krypton, the K spectra of the elements up to selenium are free of irregularities, but from rubidium onwards a distinct argon loss peak occurs. The xenon loss peak is very small in xenon filled tubes, which are therefore highly suitable for K series analyses on elements from silver onwards. The energy resolution of the counter tube is determined for all the counter tubes and the energy resolution of the pulse height analyser is also determined. The energy resolution of the pulse

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S/048/63/027/003/023/025  
B106/B238

An attempt to use ...

on the load resistance; the dependence of the resolution on the working voltage, i. e. the gas amplification factor, and on the load resistance. The resolution is practically independent of the working voltage when this is about 150 v for type 1 counters or 180 v for type 2 counters. The characteristics of these counters does not change in course of two years operation. See also 13 figures.

Card 3/3

BARONIN, V.N.; BITIN, Yu.P.; VERKHOVSKIY, B.I.; IVANOV, A.I.; FERFL'MAN, S.M.;  
FRAGER, I.A.; KHARLAKOV, V.A.; SHEKOV, L.S.

Crystalless X-ray spectrometer with stabilization of the position  
of the amplitude of the spectrum of a proportional counter, Zav.  
Irb. 30 no.4:493-500 '64. (MIRA 17:4)

1. Konstrukterskoye byuro "TSvetmetavtomatika".

VASYUTINSKIY, A.I. [Vasiutyns'kyl, A.I.]; KHARLAMB, A.B., student

Refractometric analysis of anesthesine ointment. Farmatsev. zhur.  
15 no.1:25-27 '60. (MIRA 14:5)

1. Kafedra farmatsevticheskoy khimii Zaporozhskogo farmatsevtiche-  
nskogo instituta.  
(BENZOCAINE) (REFRACTOMETRY)

KHARLAMENKO, V.I.; GUBIN, V.Ye.

Ejection of petroleum and petroleum products from pipelines  
with piston pumps. Izv. vys. ucheb. zav.; neft' i gaz 7  
no.11:77-81 '64. (MIRA 18:11)

1. Ufimskiy neftyanyy institut.

YABLONSKIY, V.S. [deceased]; KHARLAMENKO, V.I.; GALLYAMOV, A.K.; BORODAVKIN,  
P.P.

Tensometric pressure measurement in flows of viscous and solidi-  
fying petroleum and petroleum products. Transp. i Khim. nefti  
no.7:9-12 '63. (MIRA 11:13)

1. Ufimskiy neftyanoy institut.

KHARLAMENKO, V.I.; YABLONSKIY, V.S. [deceased]

Determination of the critical Reynolds number when highly vis-  
cous petroleum products are substituted. Izv. vys. ucheb. zav;  
neft' i gaz 6 no.10:71-76 '63. (MIRA 17:3)

1. Ufimskiy neftyanoy institut.

KHARIAMENKO, V.I.; GUBIN, V.Ye.

Forcing a highly viscous liquid from short and long pipelines.  
Izv. vys. ucheb. zav.; neft' i gaz 7 no.3:87-94 '64.

(MIRA 17:6)

1. Ufimskiy neftyanoy institut.



KHARLAMENKO, V. I.; GUBIN, V. Ye.

Concerning the shock-wave phase in the process of liquid displacement in a pipeline in case of a laminar regime. Inv. vye. usheb. zar.; no. 11; part 1 no. 11; 1964 (1964, 1964)

1. Ul'ianskiy naftnyy institut.

KHARLAMENKO, V. I.; SADAYEV, N. G.; RUDNEV, V. P.

Using an ejector in pumping stations for pumping out leakage.  
Trar.sp i khran nefti no. 11:11-13 '63 (MIRA 17:5)

1. Ufinskiy neftyanoy institut.

KHARLAMENKO, V.I.; YABLONSKIY, V.S.

Propulsion of petroleum and petroleum products through pipes in  
laminar flow. Izv. vys. ucheb. zav.; neft' i gaz 5 no.6:77-84  
'62. (MIRA 16:5)

1. Ufimskiy neftyanoy institut.  
(Petroleum pipelines—Fluid dynamics)

KHARLAMENKO, V.I.; YABLONSKIY, V.S. [deceased]

Displacement of petroleum and petroleum products in pipelines  
under laminar-flow conditions. Izv.vys. ucheb. zav.; neft' i  
gaz. 6 no.5:71-78 '63 (MIRA 17:7)

1. Ufimskiy neftyanoy institut.

YABLONSKIY, V.S. [deceased]; KHARLAMENKO, V.I.; GALLYANOV, A.K.; BORODAVKIN,  
P.P.

Tensimetric pressure measurement in flows of viscous and solidi-  
fying petroleum and petroleum products. Transp. i khran. nefi  
no.7:9-12 '63. (MIRA 17:3)

1. Ufimskiy neftyanoy institut.

KHARLAMENKO, V.I.; YABLONSKIY, V.S. [deceased]

Experimental study of the displacement of high-viscosity  
petroleums and petroleum products in a laminar regime.  
Trudy NIITransneft' no.3:142-147 '64.

(MIRA 18:2)

KHARLAMOV, A.

Semiatomat for packaging oil paint. Prom.koop. 13 no.3:13 Mr '59.  
(MIRA 12:4)

1. Glavnyy inzhener arteli "Vsevolozhskiy khimik," Leningrad.  
(Paint industry--Equipment and supplies)

KHARLAMOV, A.

Rotary automatic press. Prom.koop. 14 no.9:14 S '60.

(MIRA 13-9)

1. Glavnyy inzhener arteli "Vsevolozhskiy khinik", g.Leningrad.  
(Power presses)



KHARLAMOV, A.A.

Measurements in pulsed air flow. Prib. i tekhn. eksp. no.1:102-105  
Ja-P. '57. (MIRA 10:6)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvenogo universiteta  
im. M.V. Lomonosova.  
(Air flow--Measurement) (Pulse techniques (Electronic))

SOV/124-58-10-10978

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 39 (USSR)

AUTHOR: Kharlamov, A. A.

TITLE: The Analog Simulation of Aerodynamic Effects on an Oscillating Wing in a Plane Air Flow (Modelirovaniye aerodinamicheskikh vozdeystviy na koleblyushcheyesya krylo v ploskom potoke vozdukha)

PERIODICAL: V sb. : Mezhvuz. konferentsiya po primeneniyu modelirovaniya v elektrotekhn. zadachakh i matem. modelirovaniya. Moscow 1957 p 179

ABSTRACT: Basic information on the theory of aerodynamic effects on an oscillating wing. The stationary and nonstationary theories. The paper describes electronic and electromechanical analog models of the oscillation of a wing in a plane air flow which demonstrate the aerodynamic effects in accordance with the above-mentioned theories. The results of an experimental model investigation of wing flutter and the relationship between the critical speed and frequency and changes in the parameters are presented. The results corresponding to the stationary and nonstationary theories are compared.

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Annotation

KHARLAMOV, A.A.

Modeling the aerodynamic effects on a vibrating airfoil in a plane  
stream. Nauch. dokl. vys. shkoly; fiz.-mat. nauki no.1:149-154 '58.  
(MIRA 12:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.  
(Airfoils--Electromechanical analogies)  
(Aerodynamics)

ANASTAS'IN, V.F.; ARAKELOV, A.S.; BOBROV, A.L.; VIKHOREV, Yu.V.; VIL'DER,  
S.I.; GLUSHKO, I.K.; GOKUN, A.M.; PIN'KOVSKIY, Ya.I.; PASHKOV,  
N.D.; RYABUKHA, G.K.; REBENKO, G.S.; SMUROV, Fedor Pavlovich;  
SOSKIND, D.M.; SAMSONOV, B.A.; SEMENOV, A.B.; SULEYMANOV, A.B.;  
~~KHARLAMOV, A.A.~~; TSAR'KOV, B.N.; SHIFRIN, D.L.; SHEYNMAN, V.I.;  
ABAKUMOVSKIY, Dmitriy Dmitriyevich, red.toma; SVYATITSKAYA,  
K.P., vadushchiy red.; TROFIMOV, A.V., tekhn.red.

[Petroleum equipment; in six volumes] Neftianoe oborudovanie; v  
shesti tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-  
toplivnoi lit-ry. Vol.4. 1959. 294 p. (MIRA 12:9)  
(Petroleum refineries--Equipment and supplies)

STRELKOV, S.P.; KHARLAMOV, A.A.

Studying the flutter of a wing with an aileron. Nauch.dokl.  
vys.shkoly; fiz.-mat.nauki no.3:116-125 '59.  
(MIRA 13:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Airfoils)

BENDRIKOV, G.A.; KHASHNUSHKIN, P.Ye.; REYKHRUDEL', E.M.; POTEKIN, V.V.;  
MUSTEL', Ye.R.; RZHEVKIN, K.S.; IVANOV, I.V.; KHARLAMOV, A.A.;  
TIKHONOV, Yu.V.; STRELKOVA, L.P.; KAPTSOV, L.N.; ORDANOVICH,  
A.Ye.; KHEOKHLOV, R.V.; VORONIN, E.S.; BERESTOVSKIY, G.N.; KRASNO-  
PEVTSEV, Yu.V.; MINAKOVA, I.I.; YASTREBTSEVA, T.N.; SEMENOV, A.A.;  
VINOGRADOVA, M.B.; KARPEYEV, G.A.; DRACHEV, L.A.; TROFIMOVA, N.B.;  
SIZOV, V.P.; RZHEVKIN, S.N.; VELIZHANINA, K.A.; NESTEROV, V.S.;  
SPIVAK, G.V., red.; NOSYREVA, I.A., red.; GEORGIYEVA, G.I., tekhn.  
red.

[Special physics practicum] Spetsial'nyi fizicheskii praktikum.  
Moskva, Izd-vo Mosk.univ. Vol.1. [Radio physics and electronics]  
Radiofizika i elektronika. Sost. pod red. G.V.Spivaka. 1960.  
600 p.

(MIRA 13:6)

1. Professorsko-prepodavatel'skiy kollektiv fizicheskogo fakul'teta  
Moskovskogo universiteta im. M.V.Lomonosova (for all except Spivak,  
Nosyreva, Georgiyeva).  
(Radio) (Electronics)

BORODIN, Mikhail Maksimovich; DUBOVSKOY, Ivan Alekseyevich; KHARLAMOV,  
Aleksandr Fedorovich; CHULITSKIY, Lev Dmitriyevich; BUKHAROV, I.V.,  
redaktor; NIKOLAYEVA, I.I., redaktor izdatel'stva; SHITS, V.P.,  
tekhnicheskiiy redaktor

[Wages in forestry] Oplata truda v Lesnom khoziaistve. Moskva, Gos-  
lesbumizdat, 1956. 127 p. (MLRA 9:11)  
(Wages) (Forests and forestry)

S/096/61/000/003/009/012  
E194/E155

AUTHOR: Kharlamov, A.G., Engineer

TITLE: Determination of the Thermal Conductivity of  
Heat-Insulating Materials up to a Temperature of  
2 000 °C

PERIODICAL: Teploenergetika, 1961<sup>8</sup>, No. 3, pp. 64-66

TEXT: Thermal conductivity tests on heat-insulating materials were made with the classic steady-state method using a central electrical heater in a cylindrical specimen with thermocouples installed at appropriate radiuses. The equipment was surrounded by a water-cooled casing which could withstand vacuum or excess pressures up to 2 atm. Details of the experimental equipment and procedure are given. The tests were made on light foam heat-insulating material of the following analysis:  $Al_2O_3$  - 76%;  $TiO_2$  - 0.6%;  $Fe_2O_3$  - 1%;  $CaO$  - 0.3%;  $MgO$  - 0.2%; remainder  $SiO_2$ . The majority of pores were of size up to 1 mm, but there were occasional pores of 3 to 5 mm. The porosity of the specimens was about 75 to 80% and their specific gravity was between 0.8 and 0.9 g/cm<sup>3</sup>. The test results are given in Fig. 3; ✓  
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S/096/61/000/003/009/012  
E194/E155

Determination of the Thermal Conductivity of Heat-Insulating Materials up to a Temperature of 2 000 °C

the upper curve relates to samples of 0.9 g/cm<sup>3</sup> and the lower to 0.8 g/cm<sup>3</sup>. The discrepancies between tests carried out in argon and in air did not exceed the experimental error, which is about 8%. The effective coefficient of thermal conductivity for this heat-insulating material is practically constant over the temperature range 200 to 1500 °C and is equal to (0.38 ± 0.03) kcal/m.hour °C for specimens of density 0.8 g/cm<sup>3</sup>, and (0.45 ± 0.04) kcal/m.hour °C for specimens of density 0.9 g/cm<sup>3</sup>. At temperatures above 1500 °C the thermal conductivity rises sharply, probably because the material melts inside the specimen. No special tests were made on the strength of the insulation but radial cracks were observed after the tests were completed. There are 3 figures and 6 references: 3 Soviet, 1 English and 2 translations from English into Russian.

Card 2/3

S/096/61/000/003/009/012  
E194/E155

Determination of the Thermal Conductivity of Heat-Insulating Materials up to a Temperature of 2 000 °C

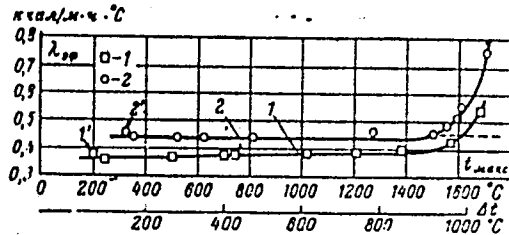


Fig. 3

Рис. 3. Зависимость эффективного коэффициента теплопроводности  $\lambda_{эф}$  высокоглиноземистого пенолегковеса от температуры ( $t_{max}$  — температура на „горячей“ стороне образца;  $\Delta t = t(R_1) - t(R_2)$  — температурный перепад на образце).  
1 —  $\gamma = 0,9$  г/см<sup>3</sup>; 2 —  $\gamma = 0,8$  г/см<sup>3</sup>. Экспериментальные точки 1' и 2' относятся к измерениям в воздухе.

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L 00731-66 EMT(1)/EWP(e)/EPA(s)-2/TIT(m)/EPT(1)/EPT(n)-2/EPF(b)/EMA(1) WJ/AF

ACCESSION NR: AP5020212

UR/0170/65/009/001/0048/0053

AUTHOR: Kharlamov, A. G.

TITLE: Thermal conductivity of pelletized ceramic packings

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 1, 1965, 48-53

TOPIC TAGS: ceramic material, packing material, heat conductivity, aluminum oxide, zirconium oxide, cast iron

ABSTRACT: The thermal conductivity of the pelletized packings was measured by the steady state method in a cylinder with external electric heating. The heating element was a tungsten rod with a diameter of 8 mm, surrounded by a thin wall ceramic tube. The coefficient of thermal conductivity was determined from the radial heat flux through the pelletized packing. The height of the cylindrical assembly was 270-290 mm and the outside diameter 35-40 mm. Temperature measurements were made with chromel/alumel, platinum/platinum-rhodium, and tungsten/iridium thermocouples. Materials tested were: pellets of aluminum oxide with a diameter of 1.0-3.2 mm, a density of 2.6-3.6 gram/cm<sup>3</sup>, a bulk  
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L 00731-66

ACCESSION NR: AP5020212

weight of 10-20 kn/m<sup>3</sup>, and a porosity of 40-60%; zirconium dioxide pellets with a diameter of 1.5 mm, density 4.5, bulk weight 25 kn/m<sup>3</sup>, porosity 45%; and cast iron pellets with a diameter of 1.5-4 mm, bulk weight 50 kn/cm<sup>3</sup>, porosity 40%. Measurements of the thermal conductivity were made in vacuum, argon, air, and helium, at temperatures from 100 to 1600C. Results are given in tabular form. The following empirical formula

$$\lambda = 0,07 + 8,4 \cdot \lambda_0 + 0,4 \sqrt{d} t^{10^{-3}} \quad (5)$$

where  $\lambda$  is the thermal conductivity coefficient of the pelletized packing,  $\lambda_0$  is the thermal conductivity of the gas at 0C, t is the average temperature 0C, and d is the diameter of the pellets, is said to be applicable for approximate calculation of the thermal conductivity coefficient for packings consisting of ceramic and metal pellets with a diameter of 1-4 mm, in various gaseous media and in vacuum, and in a temperature range of 0-1000 C. Orig. art. has: 5 formulas, 4 figures and 3 tables

ASSOCIATION: Institut atomnoi energii im. I. V. Kurchatova, g. Moskva (I. V. Kurchatov Atomic Energy Institute, Moscow)

SUBMITTED: 19Nov64

ENCL: 00

SUB CODE: MT

NR REF SOV: 010

OTHER: 002

Card2/2 (1)

KHARLAMOV, A.G., inzh.

Apparatus for measuring the heat conductivity of materials under  
conditions of controlled compression load. Toploenergetika 9  
no.1:91 Ja ' 62 (MIRA 14:12)

(Insulating materials---Testing)  
(Heat---Conduction)