

L 001-65  
ACQUISITION NO: AP4043324

graphite (6), and anhydrous aluminum oxide (7). The materials were molded into parallelepipeds and their wear resistance, impact strength, bending strength, hardness, creep, and acid absorption were tested. To obtain a homogeneous mixture, the components were mixed in a colloidal grinder. The wear resistance of all samples increased considerably. Fillers 6, 4, 1, and 2 were the most effective and 7 and 3 the least effective. The hardness of the test materials with 15-25% filler increased 1.5-1.8 times. Hardness decreased sharply when filler content exceeded 25%. Maximum hardness was obtained with fillers 6, 3, and 2, while fillers 5, 4, and 1 were the least effective. Water and acid absorption by the material was greatest with fillers 6 and 4; no significant changes were observed with the others. Increased acid concentration resulted in greater absorption of materials. The impact strength of the materials decreased with the introduction of fillers. The most noticeable change occurred with fillers 6, 3, 7, and 4. The introduction of fillers 3, 1, and 2 up to 15% did not affect the materials; with content greater than 15% the impact strength decreased sharply. The bending strength decreased with the introduction of 15-20% of

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1 B 11-65  
ACCESSION NO. AP4043324

Fillers 6, 3, 2, and 3. In all cases, an increase in filler content resulted in reduced strength. Orig. art. has 7 tables.

ASSOCIATION: None

SUBMITTED: 00

ATD PRESS: 3101

ENCL: 00

SUB CODE: IX, FF

NO. REF COPY: 000

OTHER: 000

L 1432-65 EMB(j)/EWP(e)/EWI(m)/EPF(c)/EPR/EP 1)1/EWP(b) PS-1/ST-1/PS-1  
ACCESSION NR: AP40482098SD/ASD(m)-3/AS(mp) 2 8/0191/64/000/011/6037/6039  
WW/RM/WH

AUTHOR: Gans, B. N.; Parikhomenko, V. I.

TITLE: A study of the deformation of filled fluoroplast materials

SOURCE: Plasticheskiye massy\*, no. 11, 1964, 37-39

TOPIC TAGS: fluoroplast, molybdenum disulfide, boron nitride, talc, graphite, aluminum oxide, fluoroplast filler, fluoroplast creep, plastic creep/Fluoroplast-4

ABSTRACT: The creep of filled fluoroplasts (samples 20 mm in length and 10 mm in diameter) was determined by an accelerated method on a special apparatus, which is described and illustrated. In addition to powdered fluoroplast-4 type B, the following materials were used as fillers: molybdenum disulfide, boron nitride, ground coke, talc, colloidal graphite and anhydrous aluminum oxide. The filler content of the fluoroplast ranged from 10 to 45%. A study of the relative deformation with time under an instantaneous tensile stress of 75 kg/cm<sup>2</sup> at 18-20C showed that, depending on its nature, the filler decreases the creep of fluoroplast-4 considerably, but that the character of the relative deformation vs. time curves remains analogous for all compositions. After 20-25 hrs., the deformation of the samples varied only slightly. A plot of the relative deformation at

1 143 9-65

ACCESSION NR: AP4048209

100 mg/cm<sup>2</sup> and 75 mg/cm<sup>2</sup> against the amount and type of filler shows that the minimum creep is found at a 25-30% filler content. A further increase in the filler content decreases the mechanical strength of the material and leads to its failure. The deformation data are tabulated in detail for graphite-filled fluoroplast. With increasing temperature, the deformation of the samples increases. The sample containing 20% colloidal graphite shows a sharp increase in relative deformation up to 95°C and higher, with increasing time. Since this combination shows the minimum deformation at all temperatures, it is suitable for a study of the quantitative relationships between deformation, compression, filler content and time. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 40

ENCL: 00

SUB CODE: MT

NO. OF SOV: 02

OTHER: 000

Card

2/2

PARKHOMENKO, V.D., inzh.; GANZ, S.N., kand. tekhn. nauk

Effect of temperature on the friction and wear of filled  
fluoroplastic materials. Izv. vys. ucheb. zav.; mashinostr.  
no.9:130-133 '63. (MIRA 17:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut.

1-51/1-65 - EPR(s)-2/DWT(m)/EPP(e)/EAP(s)/EPR/EM(s)/T - Ps-1/Pr-1/Ps-1/PL-10  
ACQUISITION NR A41011131 BOOK EXPLOITATION S/ 63

Author: Leon Kuzovitch; Ivan'yev, Miron Stepanovich; Parkhomenko Vladimir  
Dnepropetrovsk 61

Plastics in instrument manufacture (Plastmassy v apparostroyenii), Khar'kov, <sup>15</sup>  
Izdat'svo Khar'kovskogo univ., 1963, 198 p. illus., biblio. Errata slip  
inserted, 7,000 copies printed.

TOPICS: polyethylene, polyisobutylene, polystyrene, fluoropolymer, glass  
fiber reinforced plastic, epoxy resin, phenolic resin, faolite, plastics <sup>15</sup>  
machining, plastics joining, protective coating, graphite filled plastic, pump,  
fan, centrifuge, polyvinylchloride tube, corrosion resistance

PURPOSE AND COVERAGE: This book presents data on the physical-chemical properties  
and corrosion resistance of construction plastics and the areas of their  
application are indicated. Considering the properties of plastics, methods of  
machining them, applying protective coatings on materials and certain problems  
of fabricating equipment from plastics are included. The book is intended for  
workers in the chemical, coke, petroleum, and other industries in which it is  
necessary to protect equipment from aggressive media.

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ACCESSION NR AM 044431

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Ch. II. Machining, welding, and gluing of plastics -- 73

Ch. III. Protective coatings on metals -- 94

Ch. IV. Equipment and machines made of plastics -- 140

Bibliography -- 193

SUBMITTED: 15 Nov 63

SUB CODE: MT, OO

NO REF SOV: 046

OTHER: Oct

Card 2/2

GANZ, S.N., doktor tekhn.nauk; PARKHOMENKO, V.D., kand.tekhn.nauk; GLOZMAN, L.F.,  
kand.

Investigating the antifriction filled polyfluoroethylene materials.  
Vest.mashinostr. 45 no.9:41-44 S '65.

(MIRA 18 10)



PARKHOMENKO, Vasilii Georgiyevich; ARKHANGEL'SKIY, N.A., prof., retsenzent;  
BULGAKOV, N.V., prof., retsenzent; ZAYTSEV, V.G. (Moskva), kand.tekhn.  
nauk, retsenzent; SHEKLAKOV, D.M. (Moskva), prepodavatel', retsenzent;  
PISHCHANSKAYA, B.A. (Odessa), prepodavatel', retsenzent; GUTAN, M.K.,  
prepodavatel', retsenzent; GOL'DIN, A.E., prepodavatel', retsenzent;  
KHRYPOV, N.N. (Sverdlovsk), prepodavatel', retsenzent; DERYABINA,  
L.I., prepodavatel', retsenzent; YEMEL'YANOV, D.M. (Leningrad), pre-  
podavatel', retsenzent; GONCHAROVA, I.D. (Simferopol'), prepodavatel',  
retsenzent; MATVEYEV, Ye.P., prepodavatel', retsenzent; ALEKSEYEV,  
I.M., prepodavatel', retsenzent; DUDINSKIY, S.L. (Leningrad), pre-  
podavatel', retsenzent; BABUN, V.B. (Khar'kov), kand.tekhn.nauk,  
retsenzent; CHERNOV, N.V., prof., doktor tekhn.nauk, spetsred.;  
BORISOVA, G.A., red.; SUDAK, D.M., tekhn.red.

[Introduction to the study of commercial wares] Vvedenie v tovarov-  
vedenie promyshlennykh tovarov. Moskva, Gos.izd-vo torg.lit-ry,  
1959. 135 p. (MIRA 12:7)

(Commercial products)

PARKHOMENKO, Vasilii Georgiyevich; ARKHANGEL'SKIY, N.A., prof.,  
retsensent; [deceased]; BULGAKOV, N.V., prof., retsensent;  
ZAYTSEV, V.G., retsensent(Moskva); SHEKLAKOV, D.M., prepoda-  
vatel' tekhnikumov sovetskoy trgovli, retsensent(Moskva);  
KOZLOVA, Z.V., retsensent (Moskva); PISHCHENSKAYA, B.A., re-  
tsensent (Odessa); GUTAN, M.K., retsensent; GOL'DIN, A.E.,  
retsensent; KHRYPOV, N.N., retsensent(Sverdlovsk); DERYABINA,  
L.I., retsensent; YEMEL'YANOV, D.M., retsensent (Leningrad);  
GONCHAROVA, L.D., retsensent(Simferopol'); MATVEYEV, Ye.P.,  
retsensent; ALEKSEYEV, I.M., retsensent; DUDINSKIY, S.L.,  
retsensent(Leningrad); BABUN, V.B., kand. tekhn. nauk, re-  
tsensent(Khar'kov); CHERNOV, N.V., prof., doktor tekhn. nauk,  
spets. red.; BORISOVA, G.A., red.; GROMOV, A.S., tekhn. red.

[Introduction to a knowledge of manufactured goods]Vvedenie v  
tovarovedenie promyshlennykh tovarov. Izd.2., dop. i perer.  
Moskva, Gostorgizdat, 1962. 142 p. (MIRA 16:1)  
(Commercial products)

ПАРФУМЕНКО, В. И.

"Investigation of the Elements of Magnetic Recording and the  
Reproduction of Coded Information." *Engng Tech Sci, Moscow Electric  
and Engineering Inst of Communications, Min Communications, Moscow,*  
1955. (KL, No 19, Mar 56)

SO: Sum. No. 679, in Ser 55-Survey of Scientific and Technical Dis-  
sertations Defended at USSR Higher Educational Institutions (15)

**PARKHOMENKO, V. I.**

**Doc/ Electronics -- Measuring instruments**

**Card 1/1**      **Pub. 89 - 20/28**

**Authors**      :      **Parkhomenko, V., and Vetchirkin, A.**

**Title**          :      **Recording infrasonic frequencies**

**Periodical**   :      **Radio 4, 40-42, Apr 1955**

**Abstract**      :      **The recording of infrasonic frequencies, i. e. frequencies below the audible range is discussed, and a description is presented of electromagnetic tape recorders and oscillographic instruments utilized for the above purpose. Graph; drawing; circuit diagrams.**

**Institution**   :      **.....**

**Submitted**    :      **.....**

PARKHOMENKO, V.I.

AGALINA, M.S., inzh.; AKUTIN, T.K., inzh.; APRESOV, A.M., inzh.; ARISTOV,  
S.S., kand. tekhn. nauk.; BELOSTOTSKIY, O.B., inzh.; BERLIN, A.Ye., inzh.;  
BESSKIY, K.A., inzh.; BLYUM, A.M., inzh.; BRAUN, I.V., inzh.; BRODSKIY,  
I.A., inzh.; BURAKAS, A.I., inzh.; VAYNMAN, I.Z., inzh.; VARSHAVSKIY,  
I.N., inzh.; VASIL'YEVA, A.A., inzh.; VORONIN, S.A., inzh.; VOYTSSEKHOVSKIY,  
L.K., inzh.; VRUBLEVSKIY, A.A., inzh.; GERSHMAN, S.G., inzh.;  
GOLUBYATNIKOV, G.A., inzh.; GORLIN, M.Yu., inzh.; GRAMMATIKOV, A.N., inzh.;  
DASHEVSKIY, A.P., inzh.; DIDKOVSKIY, I.L., inzh.; DOBROVOL'SKIY, N.L., inzh.;  
DROZDOV, P.F., kand. tekhn. nauk.; KOZLOVSKIY, A.A., inzh.; KIRILENKO,  
V.G., inzh.; KOPELYANSKIY, G.D., kand. tekhn. nauk.; KORETSKIY, M.M., inzh.;  
KUKHARCHUK, I.N., inzh.; KUCHER, M.G., inzh.; MERZLYAK, M.V., inzh.;  
MIRONOV, V.V., inzh.; NOVITSKIY, G.V., inzh.; PADUN, N.M., inzh.;  
PANKRAT'YEV, N.B., inzh.; PARKHOMENKO, V.I., kand. biol. nauk.; PINSKIY,  
Ye.A., inzh.; POILUBNYI, S.A., inzh.; PORAZHENKO, F.F., inzh.; PUZANOV,  
I.G., inzh.; REDIN, I.P., inzh.; REZNIK, I.S., kand. tekhn. nauk.;  
ROGOVSKIY, L.V., inzh.; RUDEIMAN, A.G., inzh.; RYBAL'SKIY, V.I., inzh.;  
SADOVNIKOV, I.S., inzh.; SEVER'YANOV, N.N., kand. tekhn. nauk.; SEMESHKO,  
A.T., inzh.; SIMKIN, A.Kh., inzh.; SURDUTOVICH, I.N., inzh.; TROFIMOV,  
V.I., inzh.; FEFER, M.M., inzh.; FIALKOVSKIY, A.M., inzh.; FRISHMAN,  
M.S., inzh.; CHERESHNEV, V.A., inzh.; SHESTOV, B.S., inzh.; SHIFMAN,  
M.I., inzh.; SHUMYATSKIY, A.F., inzh.; SHCHERBAKOV, V.I., inzh.;  
SPANCHENKO, I.K., otv. red.; LISHIN, G.L., inzh., red.; KRAVTSOV, Ye.P.,  
inzh., red.; GRIGOR'YEV, G.V., red.; KAMINSKIY, D.N., red.; KRASOVSKIY,  
I.P., red.; LEYTMAN, L.Z., red. [deceased]; GUREVICH, M.S., inzh., red.;  
DANILEVSKIY, A.S., inzh., red.; DEMIN, A.M., inzh., red.; KAGANOV,  
S.I., inzh., red.; KAUFMAN, B.N., kand. tekhn. nauk. red.; LISTOPADOV,  
N.P., inzh., red.; MENDELEVICH, I.R., inzh., red. [deceased];  
(continued on next card)

AGALINA, M.S.... (continued) Card 2.

PENTKOVSKIY, M.I., inzh., red.; ROZEMBERG, B.M., inzh., red.; SLAVIN,  
D.S., inzh., red.; FEDOROV, M.P., inzh., red.; TSYMBAL, A.V., inzh., red.;  
SMIRNOV, L.V., red. izd-va.; PROZOROVSKAYA, V.L., tekhn. red.

[Mining ; an encyclopedic handbook] Gornoe delo; entsiklopedicheski  
spavochnik. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po ugol'noi  
promyshl. Vol. 3. [Organization of planning; Construction of surface  
buildings and structures] Organizatsiia proektirovaniia; Stroitel'stvo  
zdani i sooruzhenii na poverkhnosti shakht. 1958. 497 p. (MIRA 11:12)  
(Mining engineering)  
(Building)

PARKHOMENKO, V. I.

APOLLONOVA, L.P., red.; VAYBOYM, V.S., red.; VASILEVSKIY, D.P., red.;  
VROBLEVSKIY, A.A., red.; GRIBKOVA, S.A., red.; GRIGORASH, G.L.,  
red.; KAZNACHEY, B.Ya., red.; PARKHOMENKO, V.I., red.; FUSSET, L.A.,  
red.; REGIRER, Ye.I., red.; ROZENBLAT, M.A., red.; MALKIN, B.Z.,  
red.

[Methods for testing magnetic tape recorders] Metodika ispytaniya  
magnitofonov. Moskva. 1958. 78 p. (Akademiya nauk SSSR, Morskoi  
gidrofizicheskiy institut. Trudy, vol. 14). (MIRA 12:7)  
(Magnetic recorders and recording—Testing)



FARKHOMENKO, Vladimir Ivanovich; KOZYREV, A.V., red.; VORONIN, K.P.,  
tekhn.red.

[Magnetic recording heads] Magnitnye golovki. Moskva, Gos.  
energ.izd-vo, 1960. 70 p. (Massovaya radiobiblioteka, no.365).  
(MIRA 13:6)

(Magnetic recorders and recording)

LAZAREV, Vladimir Ivanovich; ~~PARKHOMENKO, Vladimir Ivanovich~~  
TAGER, P.G., red.; EUL'DYAYEV, N.A., tekhn. red.

[Magnetic recording of television images] Magnitnaia zapis'  
televizionnykh izobrazhenii. Moskva, Gosenergoizdat, 1963.  
86 p. (Massovaia radiobiblioteka, no.462) (MIRA 16:5)  
(Video tape recorders and recording)

ACC NR: AP6035535

SOURCE CODE: UR/0292/66/000/010/0047/0050

AUTHOR: Abramishvili, D. A. (Engineer); Brzhezanskiy, V. O. (Engineer);  
Parkhomenko, V. I. (Engineer)

ORG: none

TITLE: Electrical characteristics of the micaplastic with heat-resistant binders

SOURCE: Elektrotehnika, no. 10, 1966, 47-50

heat resistant material,

TOPIC TAGS: mica product / slyudoplast mica product

ABSTRACT: The "slyudoplast" or micaplastic (MP) sheet insulating material consists of small phlogopite flakes and one of these heat-resistant binders: (A) aluminum phosphate, (B) same, plus an artificial-corundum filler, (C) silicone, and (D) A-plus-C combination. Resistivity, breakdown voltage, water absorption, moisture absorption, and lifetime of these binders are

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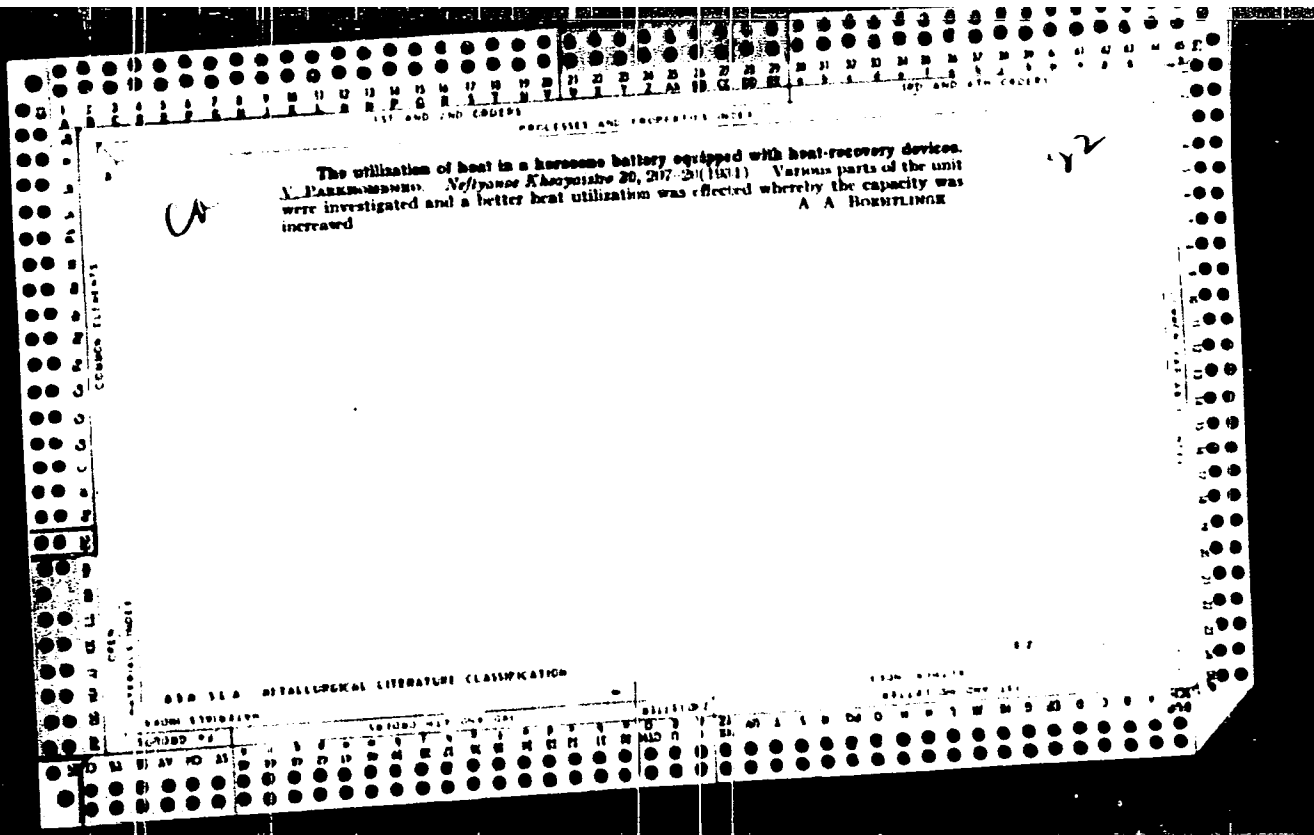
UDC: 621.315.613.1.001.5

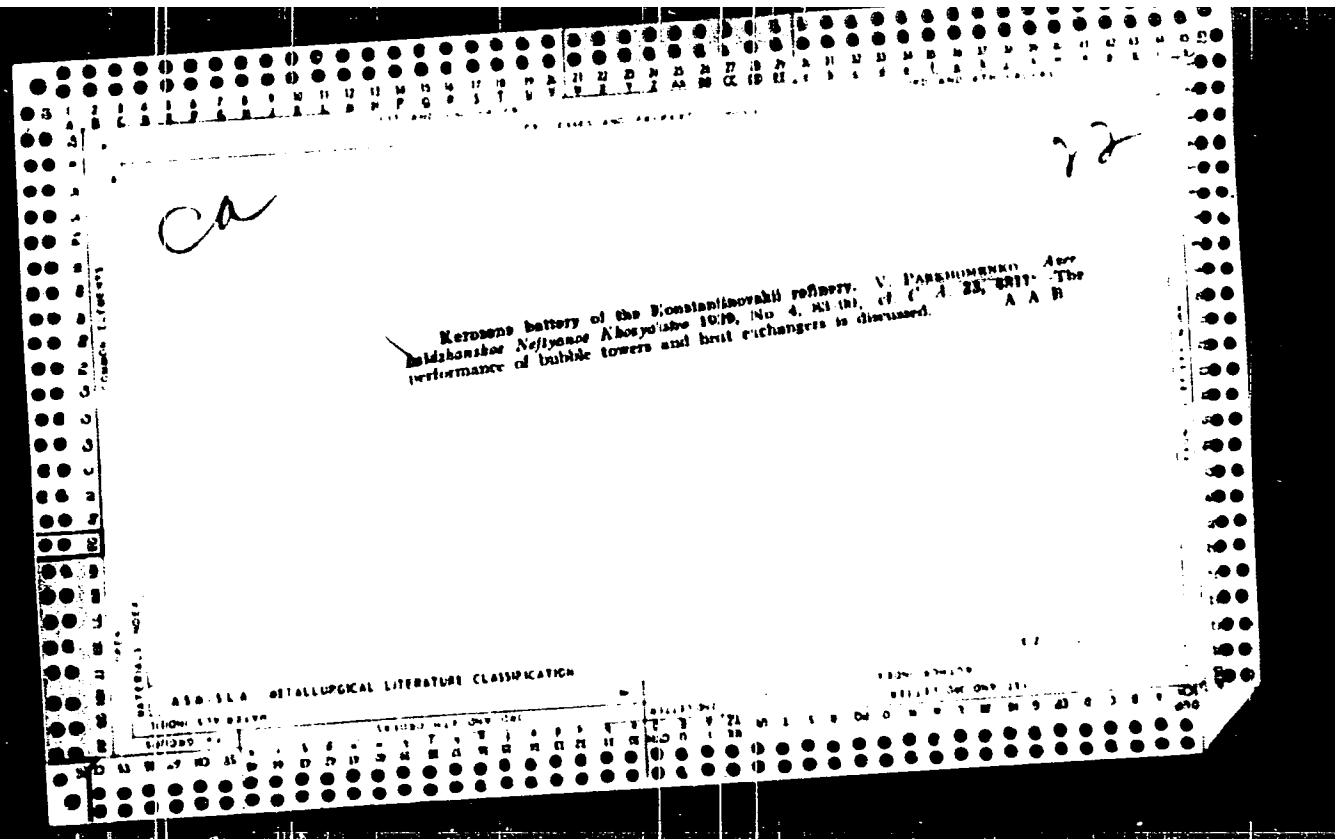
ACC NR: AP6035535

tabulated. Electrical characteristics ( $\epsilon'$ ,  $\beta''$ , breakdown voltage), weight loss and swelling of the above MP's heated and 1000-hr aged at 500C or subjected to high humidity or high vacuum were determined. Findings: (1) MP with any of the above binders can be used for continuous (1000 hrs) work at 500C in air or in vacuum; or for short-time work at 750C; (2) Inorganic or near-inorganic binder is recommended for MP intended for working in vacuum at 500C; (3) Products molded (at 280C) from A-binder MP and intended for high-temperature operation should receive an additional thermal treatment at 500C; (4) The above MP's can be used as elastic molded insulation of slots, magnets, windings, etc., operating at 500C. Orig. art. has: 6 figures and 3 tables.

SUB CODE: 11, 09 / SUBM DATE: none / ORIG REF: 003

Card 2/2





PARKHOMENKO, Vladimir Mikhailovich, inzh.pedagog; SHAFARENKO, Mark  
Samylovich, inzh.-pedagog; MAKSAKOV, M.F., red.; SEGOVA, Z.D.,  
red. izd-va; SHIBKOVA, R.Y., tekhn. red.

[Engineering and economic calculations in wood processing]  
Tekhniko-ekonomicheskie raschety po derevoobrabotke. Moskva,  
Goslesbumizdat, 1962. 148 p. (MIRA 15:12)

1. Tekhnicheskoye uchilishche No.6 goroda Kiyeva (for Parkhomenko,  
Shafarenko).

(Wood-using industries—Tables, calculations, etc.)



LARIONOV, A.D., assistant; PARKHOMENKO, V.N., student 5-go kursa

Results of a compound hormone and drug treatment of rheumatic fever. Uch. zap. Stavr. gos. med. inst. 12:354-355 '63.  
(MIRA 17:9)

1. Kafedra fakul'tetskoy terapii (zav. dotsent N.A. Aushev)  
Stavropol'skogo gosudarstvennogo meditsinskogo instituta.

ISHCHENKO, I.N., prof., zaslushenny deyatel' nauki, otv.red.; PARKHOMENKO, V.N., dotsent, red.; ALEKSEYENKO, I.P., dotsent, red.; BRATUS', V.D., dotsent, red.; KOLOMIYCHENKO, M.I., prof., zaslushenny deyatel' nauki, red.; NOVACHENKO, N.P., prof., zaslushenny deyatel' nauki, red.; FEDOROVSKIY, A.A., prof., red.; LEVCHUK, G.A., red.; LOKHMATYY, Ye.G., tekhred.

[Transactions of the Ninth Congress of Ukrainian Surgeons] Trudy IX s"yezda khirurgov Ukrainiroy SSR. Kiev, Gos.med.izd-vo USSR, 1960. 645 p. (MIRA 14:12)

1. S"yezd khirurgov Ukrainiroy SSR. 9th, Dnepropetrovsk, 1958.
2. Chlen korrespondent AN USSR (for Ishchenko). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Novachenko). (UKRAINE--MEDICINE, INDUSTRIAL) (PEPTIC ULCER)  
(PANCREAS--DISEASES) (SURGERY)

GORCHAKOV, A.K. [deceased]; PARKHOMENKO, V.N.; CHEREN'KO, M.P.

Functional state of some endocrine glands in malignant tumors.  
Uch.zap. KRROI 7:220-224 '61. (MIJA 16:8)  
(CANCER RESEARCH) (ENDOCRINOLOGY)

GORCHAKOV, A.K., prof., zasluzhennyi deyatel' nauki; PARCHOMENKO, V.N., dots.

Tumors of the adrenal cortex and their treatment. Vrach. delo no.1:  
51-55 '59. (MIRA 12:4)

1. Khirurgicheskaya klinika stomatologicheskogo fakul'teta (zav. -  
zasl. deyatel' nauki, prof. A.K. Gorchakov) Kiyevskogo meditsin-  
skogo instituta.

(ADRENAL CORTEX--TUMORS)

DMITROCHENKO, Aleksandr Petrovich, doktor sel'khoz. nauk; NAUMOV,  
Petr Andreyevich, doktor sel'khoz.nauk; KRYLOV, Vladimir  
Mikhaylovich, kand. sel'khoz. nauk; PAKHOMENKO, V.S.,  
red.; PRESNOVA, V.A., tekhn. red.

[Feeding suckling pigs] Podkoraka porosiat pod matkami.  
Leningrad, Lenizdat, 1963. 20 p. (MIRA 16:6)  
(Swine--Feeding and feeds)

PARKHOMENKO, V.V.

Byalovezhska Pushcha. Nauka i zhyttia 8 no.8:39-41 Ag '58.  
(MIRA 12:1)

(Byalovezhska Pushcha)

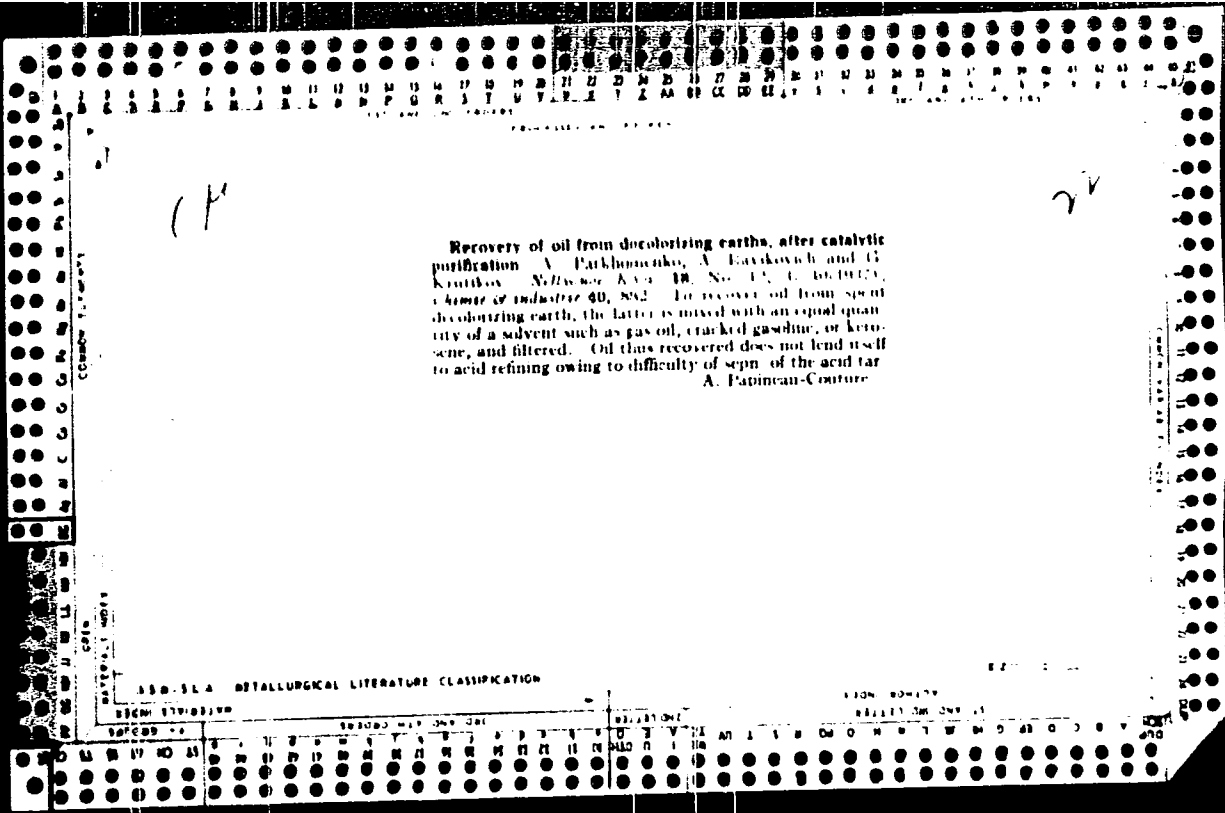
PARKHOMENKO, V.V.

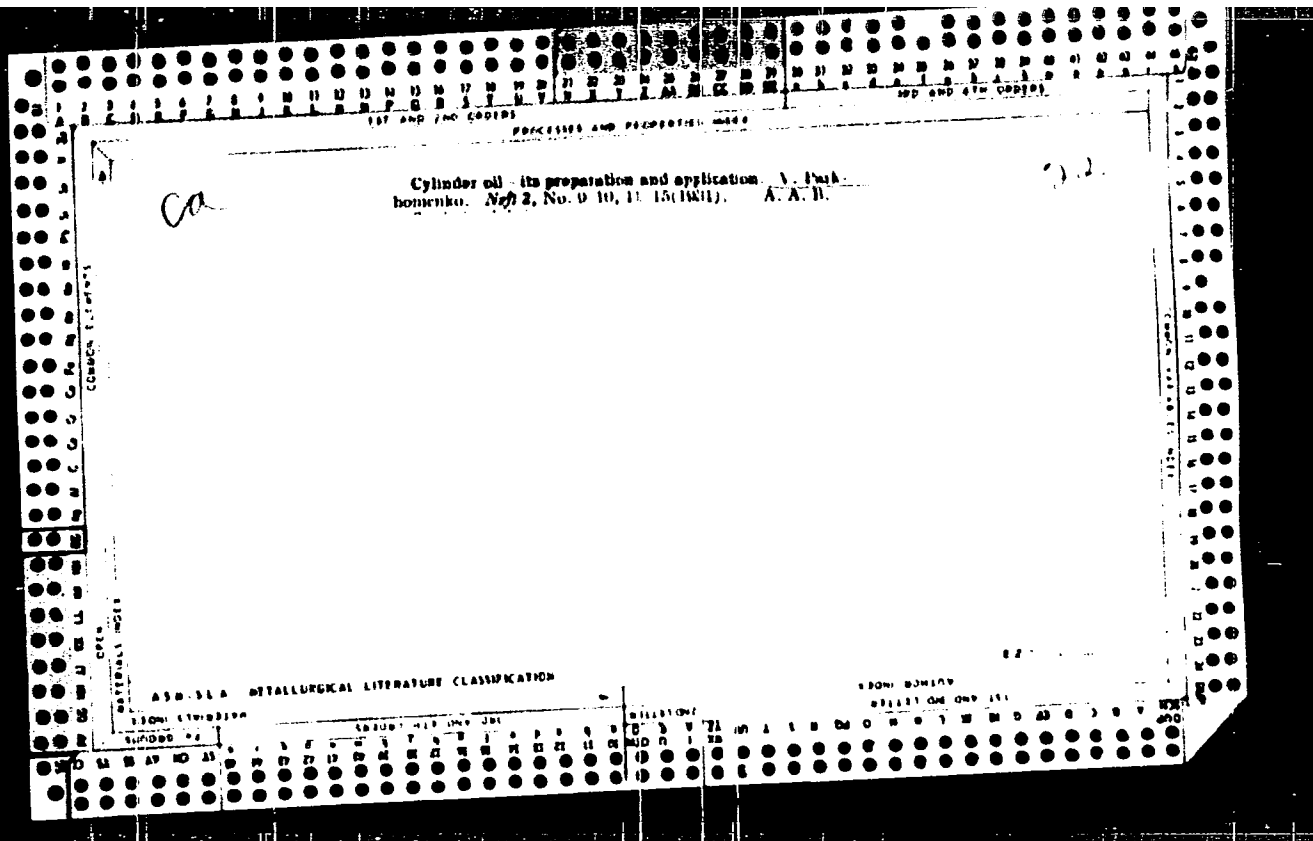
Present distribution of the black grouse in the Ukraine.  
Mat.pro okhor.pryr.na Ukr. no.1:112-116 '58. (MIRA 13:3)  
(Ukraine--Grouse)

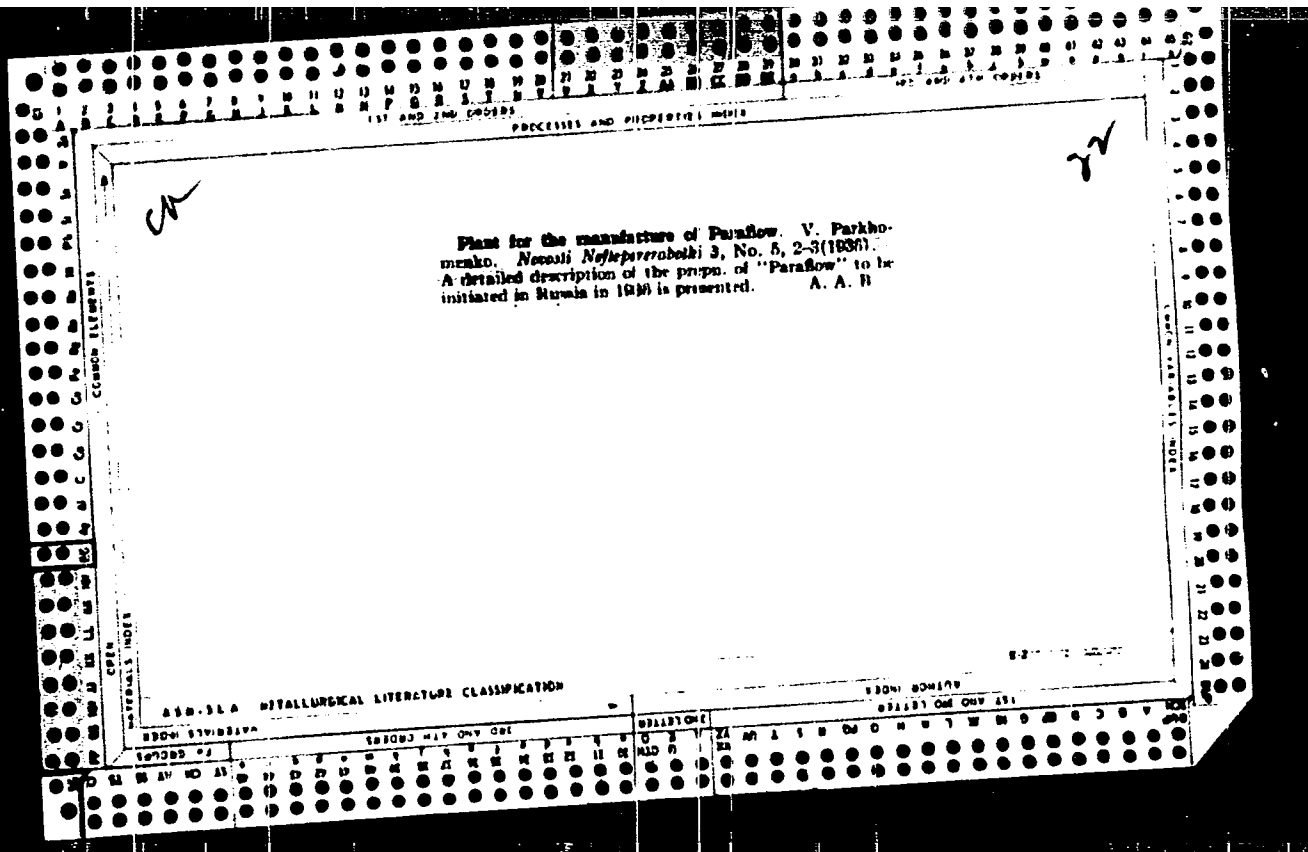


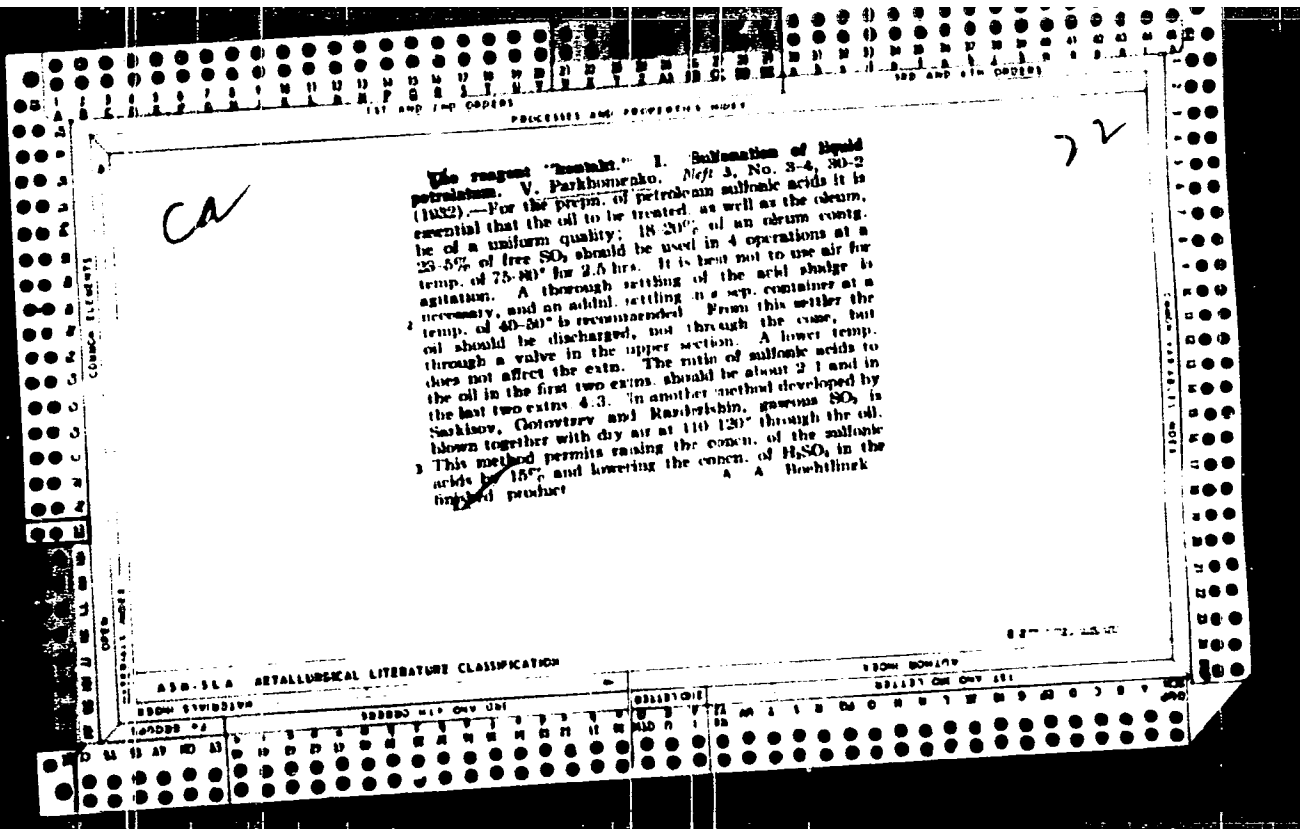
*Parkhomenko, V.V.*  
RADCHUK, V.V., otvetstvennyy red.; VOINSTVENSKIY, M.A., red.; KISTYAKOVSKIY,  
A.B., red.; KORNEYEV, A.P., red.; SOKUR, I.T., red.; ~~PARKHOMENKO~~  
V.V., red.; DOBROVOL'SKIY, A.A., red.; GRIB, P.M., khudozhestvenno-  
tekhn. red.

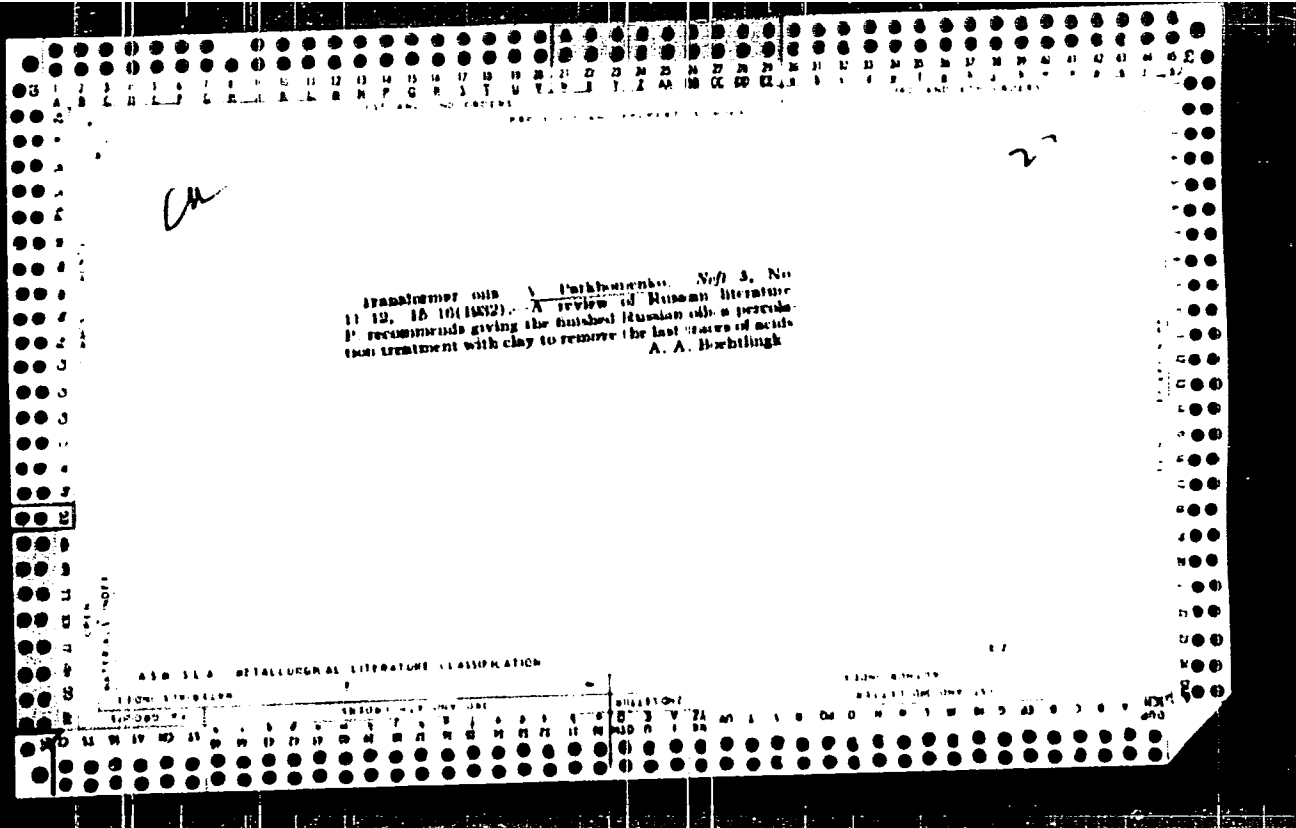
[Hunting in the Ukraine] Okhota na Ukraine. Izd. 2-oe. Kiev,  
Gos. izd-vo sel'khoz. lit-ry USSR, 1957. 325 p. (MIRA 11:2)  
(Ukraine--Hunting)

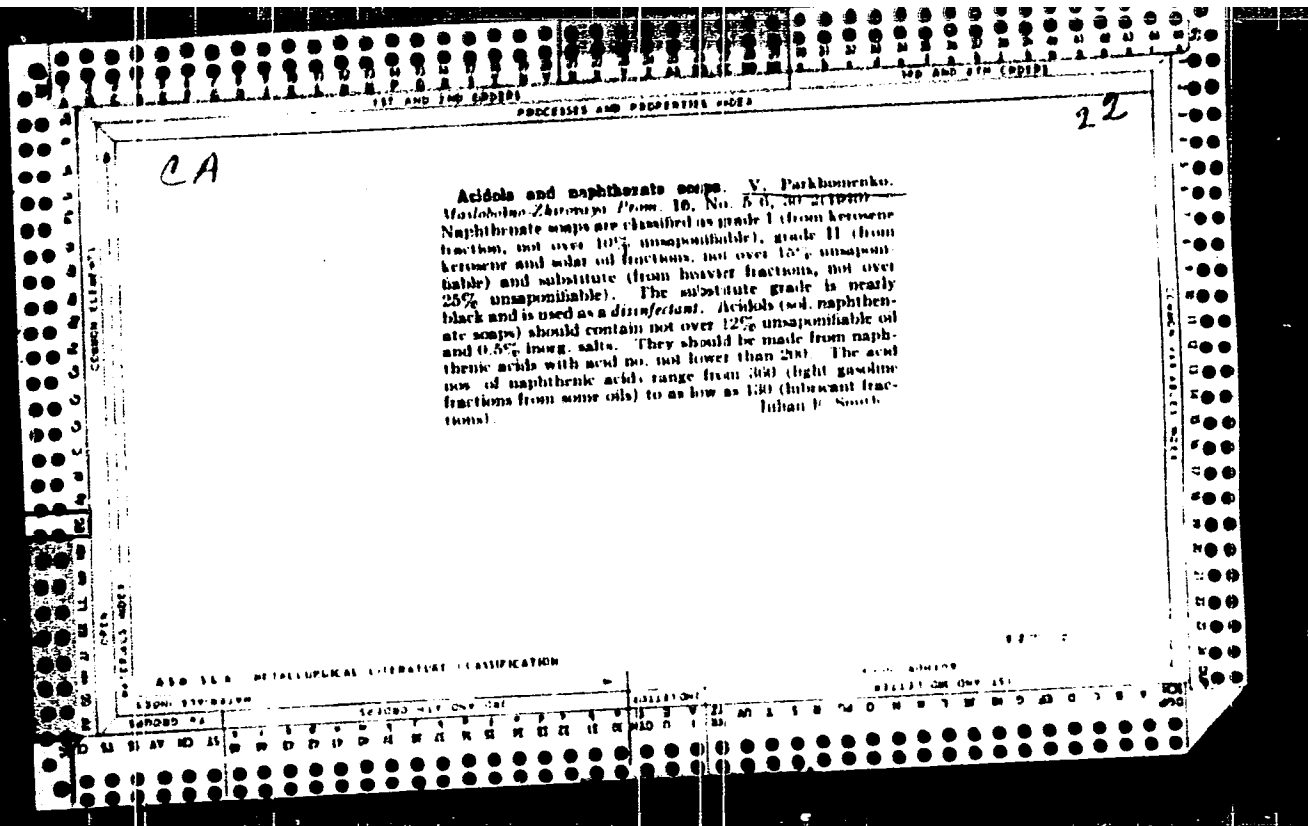
















22

A new method of preparing emulsion cutting oils V. E. Parkhomenko. *Nefi* 7, No. 3, 26-6 (1961). - Water-sol. oils yielding a stable and thick emulsion (on addn. of H<sub>2</sub>O) were prepd. from alkali sludge obtained by neutralization of acid-treated lubricating oil and addn. of spindle or other com. oils. The mixt. was prepd. by treating the alkali sludge with 17°Bé NaOH, discarding the aq. alkali soln. and mixing the org. layer with the oil at 60-65° till a semisolid white mass was obtained. This was used for cutting metals after diln. with H<sub>2</sub>O. A new method of preparing emulsion oils. *Ibid.* No. 5, 25. - The alkali sludge obtained after NaOH treatment of H<sub>2</sub>SO<sub>4</sub>-treated transformer, spindle and turbine oils is "salted out" with NaOH (35-40°Bé) (NaCl must not be used to avoid corrosion) and the upper layer is then used for the prepn. of emulsions directly or after the addn. of the required amt. of oil (10-100%). The mixing is carried out at 60-70°.

A. A. Borchtingk

22

Deemulsifiers from acid sludge obtained in the treatment of white oils. V. E. Piskunenko. *Novosti Neftepromishl 3*, No. 16, 8-6(1931).—Acid sludge from the 3rd to 7-th treatment of white oils with oilum is washed with water to remove  $H_2SO_4$ , and neutralized with a soln. of NaOH, small portions of water being used in the washing and NaOH being added also in portions under const. agitation. The deemulsifier is then improved by adding any kind of a bright petroleum product, such as kerosene, gas oil, etc., at a temp. of 50-60°. The oil extracts the tars in a very thorough manner. This deemulsifier is as efficient as naphthenic acid, and a saving of up to 10% of the treated oil is effected, while the Na test is improved. A. A. Boebtingk

ASS-31A METALLURGICAL LITERATURE CLASSIFICATION

U S A 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

U S A 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

*PARKHOMENKO, V. Ye.*

AID P - 838

Subject : USSR/Mining

Card 1/1 Pub. 78 - 23/26

Author : Parkhomenko, V. Ye.

Title : Misrepresentation in a popular scientific book

Periodical : Neft. khoz., v. 32, #9, 92-94, S 1954

Abstract : Critical comments on the book titled Black Gold by D. A. Katarenko.

Institution: None

Submitted : No date



1ST AND 2ND CODES  
3RD AND 4TH CODES  
PROCESSING AND ALTERNATE INDEX

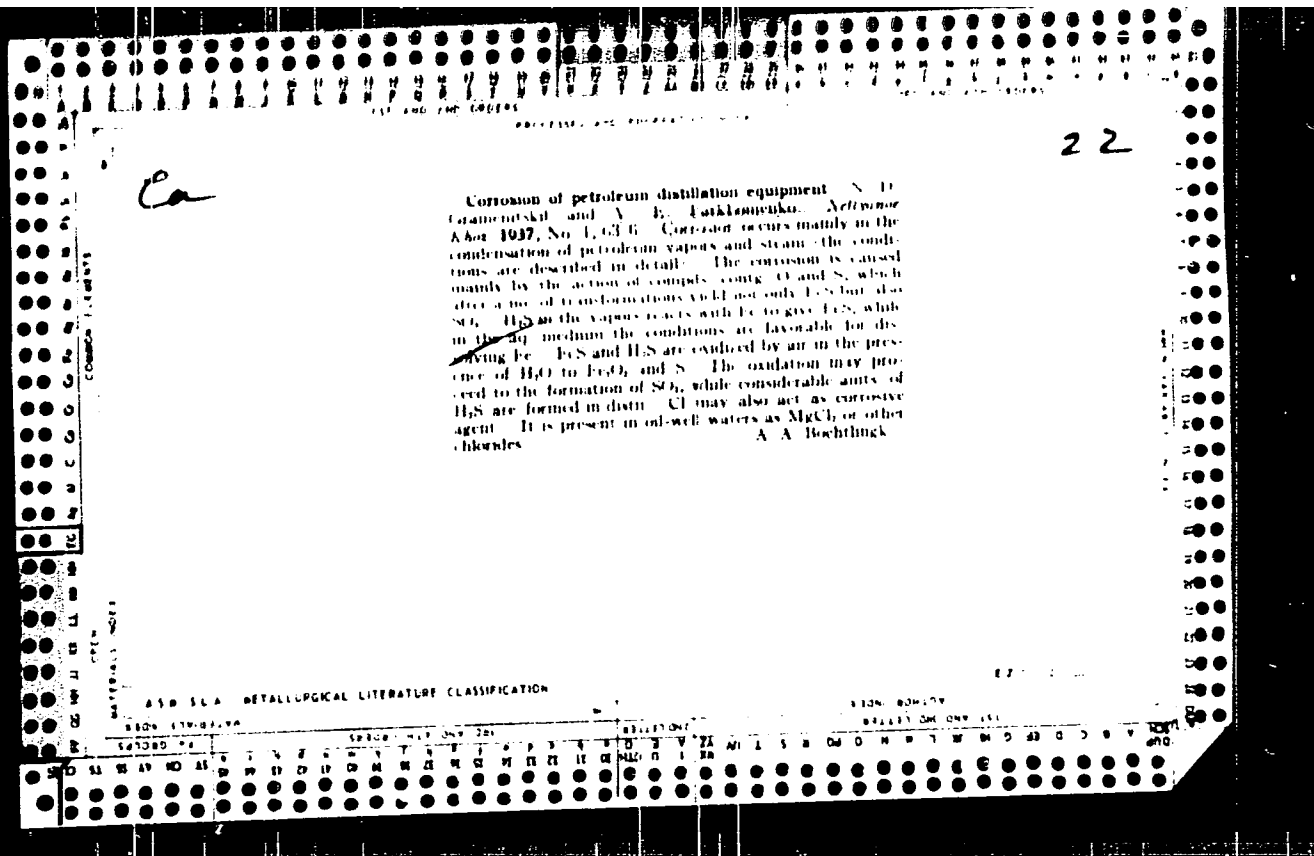
ca

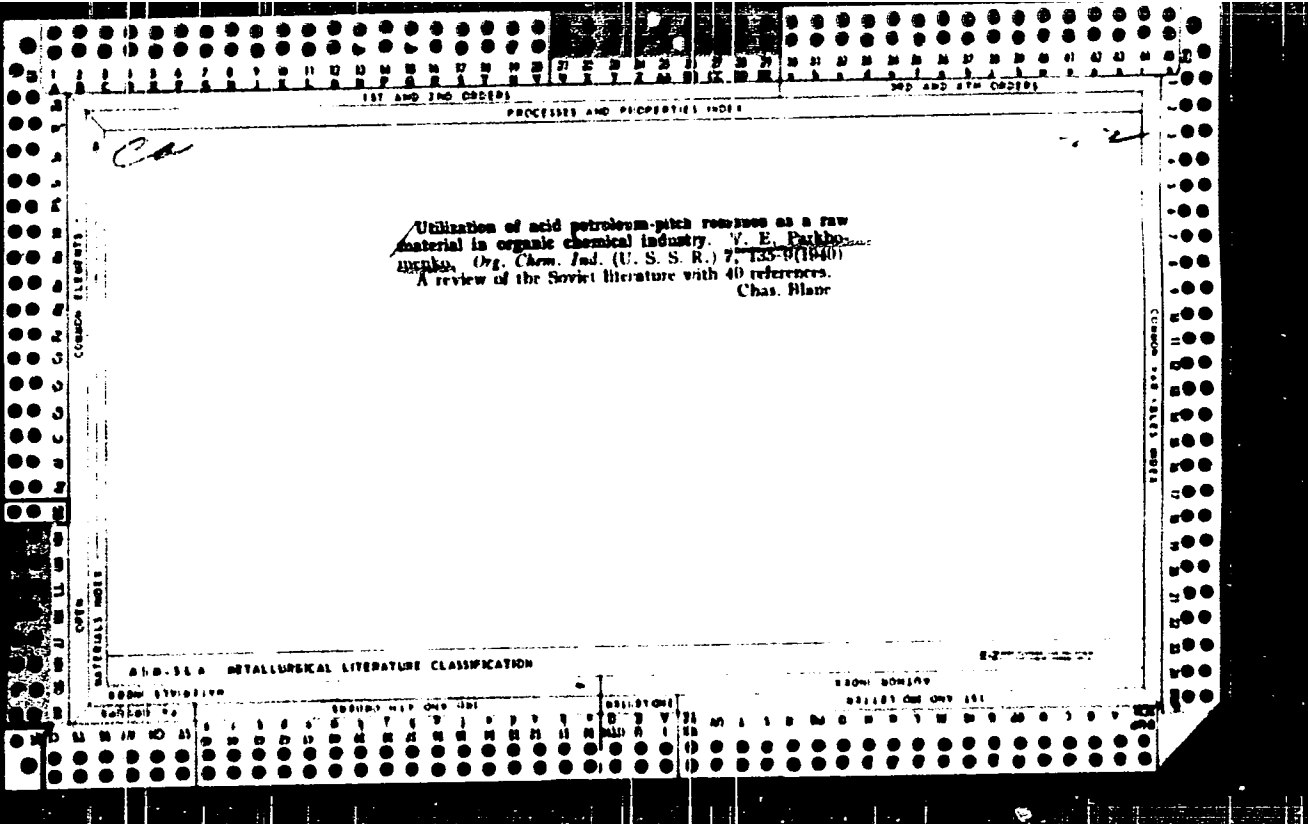
22

Utilizing the acid sludge in the Konstantinovskii refinery. Ye. E. Parkhomenko and I. D. Graner. *Neft* 6, No. 6, 17-18 (1935) -- The following processes are reviewed: (1) neutralizing acid sludge with alkali sludge, dissolving in gas oil and burning under boilers, (2) blowing acid sludge with steam, (3) washing off the acid from old acid sludges and the prepn. of asphalt, (4) sepg. acid by heating with open fire, (5) briquetting acid sludge in the prepn. of asphalt, (6) briquetting by introducing CaO, (7) prepn. axle grease, (8) briquetting in heated iron molds, (9) prepn. liquid fuel by heating with gas oil, (10) coking by the "Chemico" method with recovery of SO<sub>2</sub> and coke and (11) distg. to coke. A. A. Brezhnev's

ASB.31A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTERS  
3RD AND 4TH LETTERS  
5TH AND 6TH LETTERS  
7TH AND 8TH LETTERS  
9TH AND 10TH LETTERS





22

*ca*

**Utilization of acid sludge as boiler fuel.** V. E. Park.  
 Zhurnal Prikladnoi Khimii, No. 8, 44-46. The following methods are used in the USSR: (a) The acid sludge is heated electrically, and the sept. acid is used in breaking down crude oil emulsions, while the org. mass is not utilized. (b) Acid sludge from bright stocks is passed through separators for the sepn. of H<sub>2</sub>SO<sub>4</sub>, and the org. part is mixed with liquid fuel and burned under boilers. In Batum, acid sludge from automobile oils is mixed with 50% of cracked gasoline acid sludge and 85-90% polymers are obtained in the residn. of cracked gasoline. The mixt. is agitated with air at 90-95° with the admission of live steam. H<sub>2</sub>SO<sub>4</sub> of 50-55% is sepd. after settling (yield 50-70% of the total). The org. mass is washed (3-4 times) with water at 80° and alkali sludge from cracked gasoline. The obtained product is sol. in any proportion in oil and it is free of sediment and is suitable as fuel oil. A lab. method consists in the sepn. of the acid from automobile oil acid sludge mixed with polymers, and cracked gasoline acid sludge is then added. The acid is sepd. in Pb-lined separators. Cracked gasoline acid sludge is a good preventative for the sepn. of the product into layers.

The Krasnoarmeyskiy refinery treats acid sludge from residual oils (cylinder and aviation oils) by placing the sludge in vertical stills heated by open fire to 120° while agitating and adding some gas oil to lower the viscosity. The SO<sub>2</sub> and SO<sub>3</sub> are passed into the air while the end of the cooking is detd. by adding gas oil to the batch sample to det. the state when a ppt. is not produced, which is the end of the process. The remaining SO<sub>2</sub> is removed by blowing with air and the required viscosity of the fuel oil is reached by adding gas oil. Excess of the latter causes the pptn. of C particles. The Kapatsinskiy and Stavrov refineries burn the acid sludge directly under boilers and stills on rotating hearths. A. A. Kochetkov

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

SECTIONAL INDEX

INDEX



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

LIST AND 7th ORDER

PROCESSES AND PROPERTIES INDEX

78

Preparation of lubricating oils. V. E. PARDONIKHOV. *Nedynnoe Isdaniye*  
1932, 70.—A popular description of the manual of lubricating oils. All stages of the processes and the app. are considered. A. A. BOKHILINIK

OPEN (Cover removed)

MATERIALS INDEX

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

ALPHABETIC

1st and 7th ORDER

ALPHABETIC

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

CA

22

**Naphthenic acids.** V. E. Parkhomenko. *Neft*, No. 7, 14-16 (1932).—Naphthenic acids are sepd. from the alkali sludge according to A. I. Voronov by heating to 120-140° in an autoclave at 3-5 atm. The final sepn. of the acids was effected by H<sub>2</sub>SO<sub>4</sub>. These acids were high in mineral oil. By the method of A. E. Dreemurk naphthenic acids were sepd. by treating the crude oil with NaOH. By the use of alk. caustic the content of mineral oil was lowered to 15% and formation of emulsions was avoided. In the Vladimirskii refinery (Moscow) Embs crude oil was treated with an alk. soln. (10°Bé.) of caustic, whereby up to 97.5% of the potential naphthenic acids were removed. 90% of the alk. was recovered. Ca naphthenates were obtained from alkali sludge by treating the latter with CaCl<sub>2</sub>. The application of naphthenic acids in the soap and the tarfish industries is discussed. A. A. H.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND EDITIONS

78

ca

Bright stocks from paraffin-base crude oil of Baku. V. E. PARRHOMENKO. *Azer*  
*haldakenshoy Neftyanoy Kazayatsno* 1932, No. 10. 78-81 — Two flowcharts were worked  
 out at the exp'l. plant of the Sharples Co. and appear feasible. The first process, after  
 4 distns., dewaxing, refining with acid and earth, another distn., and percolation, yields  
 4.27% of bright stock. The second process consists of distn., refining with acid and  
 earth, distn., dewaxing, refining with acid and earth, distn. and percolation. It pro-  
 duces 11.9% bright stock. V. KALICHEVSKY

METALLURGICAL LITERATURE CLASSIFICATION

3000 3000 3000

3000 3000 3000

PARHOMENKO, V. E.

tekhnologiya perena [?] [?] [?] [?] [?] [?] [?] [?] [?] [?].  
Moskva, Gostoptekhizdat, 1972. 270 p.

SO: Monthly List of Russian Accessions, Vol. No. 5 May 1972.

1ST AND 2ND CODES      PROCESS AND PROPERTIES INDEX      3RD AND 4TH CODES

22

Composition for asphalt varnishes E. M. Velikovskaya, V. F. Parkhomenko and N. D. Pokrovskaya. Russ. 32751, Oct. 31, 1931. The composit. is prepd. from acid sludge which is originally heated to 275° and the cooled product is heated again but only to 165-275° with the addn. of 1-5% S.

62-51.4 METALLURGICAL LITERATURE CLASSIFICATION

1200-1310-014-000000

1200-1310-014-000000

BC

B-1-2

Bright steels from part 100-100 (grade oil of Baker V. E. F. (American Inst. Chem., 1938, No. 10, 70-81). Two processes, producing respectively 6.27 and 11.9% of bright steel, appear feasible.

ADD-31A METALLURGICAL LITERATURE CLASSIFICATION

FROM	TO	DATE	BY	REMARKS

AUTHOR: Parkhomenko, V. E. 552  
TITLE: Work of D. I. Mendeleev on cracking and pyrolysis of  
crude oil (On the 50th anniversary of his death).  
(D. I. Mendeleev o krekinge i pirolize nefti. (K 50-  
letiyu so dnya smerti)).  
PERIODICAL: "Khimiya i Tekhnologiya Topliva i Masel" (Chemistry and  
Technology of Fuels and Lubricants), 1957, No.2,  
pp. 68 - 71 (U.S.S.R.)

There are seven Russian references.

Card 1/1.

PARKHOMENKO, V. E.

Petroleum refining. 2. izd., perer. i dor. Moskva, Gos. nauch. -tekh. izd-vo nef'tianoi i gorno-toplivnoi lit-ry, 1948. 531 p. (49-26835)

TP690.P25 1948



PARKHOMENKO, V. E.

Technology of problems on hydraulics. Moskva, Gos. nauchno-tekhn. izd-vo nef-tianoi i gorno-toplivnoi litry, 1953. 459 p. (54-35101)

TP690.P26

1. Petroleum - Refining.
2. Gas, Natural.

PARKHOMENKO, V. E.

"Water Consumption of the Petroleum Refinery," translated from "Technology of Petroleum and Gas Refining," Gostoptekhnizdat, 1953 -- pp. 440-441

D-257607, 27 Jun 55

PARKHOMENKO, V. E.

Report on the Components of Aviation and automobile Gasolines. The material from the report was taken from the 1955 edition of V. E. Parkhomenko's "Technology of Petroleum and Natural Gas Refining," Chapter 10, pp 384-395.

SO: D-13,5970, 2 Nov 1954.

PARKHOMENKO, V. E.

"Technology of Petroleum and gas Refining," Moskva 1953, pp 236-239. Discussed are destructive contact processing methods of petroleum stock in general, and contact pyrolysis and cracking in particular, their application (deep distillation, cracking of liquid stock, etc.), the nature and properties of the catalyst, and percentual yields. Fig. 84 of the original text is reproduced. It gives in rough outline a flow-sheet of contact distillation and cracking.

Translation D-257832, 27 June 1955

PARKHOMENKO, V.I.

6(5)

PHASE I BOOK EXPLOITATION

SOV/1930

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zvukozapisi

Trudy...Vyp. 2. (Transactions of the All-Union Sound-recording Scientific Institute) Nr 2. Moscow, 1957. 164 p. Errata slip inserted. 1,000 copies printed.

Editorial Board: L.P. Apollonova, V.S. Vaymboym, D.P. Vasilevskiy, A.A. Vroblevskiy, S.A. Gribkova, L.G. Grigorash, B.Ya. Kaznachev, V.I. Parkhomenko, L.A. Pusset, Ye.I. Regirer, M.A. Rozenblat; Tech. Ed.: S.A. Gribkova.

PURPOSE: This collection of articles may be useful to scientists, engineers, specialists, and technicians dealing with sound-recording techniques.

COVERAGE: The articles are the results of research carried out at VNAIZ in 1954-1955. Most of the articles deal with magnetic recording, both for the recording of sound as well as for fixing various physical processes on tape, wire, disc, or drum. References appear separately after each article.

Card 1/7

Transactions of the All-Union (Cont.)

SOV/1930

TABLE OF CONTENTS:

Foreword 3

Eliasberg, I.I. The Present State and Possibilities of  
Improving Coated Magnetic Tapes 5

The author surveys the present state of modern magnetic tapes with regard to their characteristics and requirements and discusses the possibilities of their improvement. Special attention is devoted to a description of coating powders. There are 21 references: 5 Soviet, 10 English, 4 French, and 2 German.

Vaymboym, V.S. Ways of Increasing the Dynamic Range of a  
Sound-Reproduction Amplifier (Playback) for a High-fidelity  
Magnetic Tape Recorder 23

The author discusses the basic methods of increasing the dynamic range of playback amplifiers and explains diagrams, basic characteristics, and results of investigation of an amplifier designed by himself. There are no references.

Card 2/7

Transactions of the All-Union (Cont.)

SOV/1930

Parikhomenko, V.I. Magnetic Playback Head

42

The author explains the theory of magnetic modulations in a playback head based on the principle of frequency doubling. He illustrates the article by a description of equipment developed by VNAIZ for reproduction of code pulses at a lower speed of the tape mechanism. There are no references.

Pusset, L.A. Investigation of the Reproduction Process of Magnetic Sound Recording

56

The article describes a theoretical investigation of the reproduction process of sound recorded on any magnetic carrier. There are 2 references: 1 German, and 1 English.

Lazarev, V.I. Some Characteristics of Contactless Magnetic Recording of Sinusoidal Voltages

71

The author reports the results of his experimental investigation of contactless magnetic recording on a drum. He also explains the method he used to reduce the parasitic amplitude modulation of recorded pulses caused by the eccentricity of the drum side-wall. A description is given of the  
Card 3/7

Transactions of the All-Union (Cont.)

SOV/1930

MIZ-28 magnetic sound recorder. There are 2 references:  
1 Soviet, and 1 English.

Kotlyarevskaya, L.G. Magnetic Discs

79

In connection with the NDD-54 dictaphone developed by VNAIZ, research and development work was carried out at the Institute on magnetic discs. The author discusses in detail the production of magnetic discs. She thanks Candidate of Technical Sciences P.M. Kozlov and Senior Scientific Worker N.A. Trifonova for their assistance. There are 14 references: 8 English, 3 German, 1 Polish, 1 Indian, and 1 Soviet.

Smirnov, V.S. The NDD-54 Disc-type Dictaphone

87

The article briefly describes the NDD-54 dictaphone (VNAIZ), used for sound recording on magnetic discs. The author lists the basic technical characteristics of this equipment. There are no references.

Smirnov, V.S. A Contact Copying Machine for Mass-copy MKTM-1 Magnetic Tape Recorders

90

This magnetic tape-copying machine was developed by VNAIZ, and after a long period of production it was redesigned and modernized to secure a mass production of high-quality magnetic tape copies. There are no references.

Card 4/7



Transactions of the All-Union (Cont.)

SOV/1930

Gol'dberg, G.A., and S.V. Shul'gin. Magnetic Reverberation Chamber

93

The authors explain the basic methods of obtaining the reverberation effect by magnetic tape recording. They list the main characteristics of the reverberator designed and developed by VNAIZ, which is now successfully being employed in many organizations. At present the Institute is developing a new model of a remote controlled magnetic reverberator for lot production. There are 28 references: 12 English, 8 Soviet, 5 German, 2 French, and 1 Hungarian.

Langen, A.M., and M.A. Onatsevich. Investigation of External Electromagnetic Stray Fields Caused by Electric Motors in Sound Recording Equipment

122

The authors discuss special problems of design, selection, and application of electric motors of various types for sound recording equipment. They investigate the methods used for eliminating the effects of a-c electromagnetic stray fields. Materials concerning the effects of d-c electromagnetic stray fields will be published later. There are 4 Soviet references.

Card 5/7

Transactions of the All-Union (Cont.)

SOV/1930

Langen, A.M. On the Problem of Selecting the Type and Parameters of the Drive Motor for a Three-motor Broadcast Tape Recorder

131

The author lists and discusses the requirements of the drive motor. His article is a continuation of the previous article. There are no references.

Langen, A.M. Two-speed Synchronous Drive Motor for a Broadcast Tape Recorder

143

The author provides technical specifications and recommendations on the selection of a two-speed motor. There are no references.

Rezvyakova, Z.N. On the Audibility of Distortions of a Short Tone

149

The author reports on the results of investigation of the audibility of nonlinear distortions caused chiefly by overmodulation in recording. She also discusses the effect of distortion level and its duration on audibility. There are 5 references: 2 Soviet, 2 German, and 1 English.

Card 6/7

Transactions of the All-Union (Cont.)

SOV/1930

- Simonov, I.D., and S.G. Korsunskiy. Call Signal Apparatus 157  
The authors explain the operating principle and basic characteristics of a tuning-fork call-signal apparatus designed and developed by VNAIZ. They refer to a mechanical call-signal apparatus designed by V.T. Mal'tsev and discuss the advantages of the new apparatus, which is basically an automatic musical instrument. There are 6 references: 3 Soviet, 2 English, and 1 German.

AVAILABLE: Library of Congress

Card 7/7

JP/ad  
8-26-59

ARNOL'D, R.R.; APOLONOVA, L.P., red.; MAYBOYN', V.S., red.; VASILEVSEIY, D.P., red.; VROBLEVSKIY, A.A., red.; GRIBKOVA, G.L., red.; GRIGORASH, G.L., red.; KAZNACHNY, B.Ye., red.; PARNOMENKO, V.I., red.; FUSSET, L.A., red.; PEGIRE, Ye.I., red.; ROZENFLAT, M.A., red.; MALKIYEL', B.I., red.

[Magnetic heads for sound recording apparatus] Magnitnye golovki dlia apparatury zvukozapisi. Moskva, 1958. 153 p. (Moskva. Vsesoiuznyi nauchno-issledovatel'skii institut zvukozapisi. Trudy, no.3).

(MIRA 12:4)

(Magnetic recorders and recording--Equipment and supplies)

SKRIPNICHENKO, D.F., prof., red.; SHURINOK, A.R., prof., red.;  
GABAY, A.V., prof., red.; DMITRIYEV, M.L., prof., red.;  
KHRISTICH, A.D., prof., red.; ZAYCHENKO, I.L., prof., red.;  
SITKOVSKIY, N.B., kand. med. nauk, red.; PARKHOMENKO, V.N.,  
red.

[Problems in pediatric surgery; transactions] Problemy khirurgii detskogo vozrasta; trudy. Kiev, Gosmedizdat USSR, 1963. 257 p. (MIRA 17:5)

1. Ukrainskaya nauchno-prakticheskaya konferentsiya khirurgov detskogo vozrasta. 1st.

*Handwritten: Gorchakov, A.K.*  
GORCHAKOV, A.K., zasluzhenyy deyatel' nauki, professor; PARKHOMENKO, V.N.  
kandidat meditsinskikh nauk; TROSHINA, L.N.

Radioautography in euthyroid forms of goiter. Vrach.delo no.5:  
497-499 My '57. (MLRA 10:8)

1. Kafedra khirurgii (zav. - zasl. deyatel' nauki, prof. A.K.  
Gorchakov) stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo  
instituta  
(GOITER) (AUTORADIOGRAPHY)

FEDOROV, I.I., prof.; GRINBERG, Ye.A., dotsent; PARKHOMENKO, V.N., dotsent

Results of the work of the Sixth Broadened Governing Plenum of the  
Ukrainian Surgical Societies and of the Eleventh Republic Conference  
on Blood Transfusion. Nov.khir.arkh. no.6:135-143 N-D '59.  
(MIRA 13:4)

(UKRAINE--SURGICAL SOCIETIES) (BLOOD)

PARKHOMENKO, Vladimir Mikhaylovich; SHAFARENKO, Mark Samoylovich; OSIPOV, M.I., red.; KOVAL'ZON, F.P., red.; NESMYSLOVA, L.M., tekhn.red.

[Training of cabinetmakers and operators of woodworking machines]  
Podgotovka stolarov-krasnoderevtsev i stanochnikov po derevo-  
obrabotke. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat,  
1960. 61 p. (MIRA 13:9)

1. Starshiy master proizvodstvennogo obucheniya (for Parkhomenko).
2. Zamestitel' direktora po uchebno-proizvodstvennoy rabote tekhnicheskogo uchilishcha No.6 g.Klyeva (for Shafarenko).  
(Woodwork--Study and teaching)

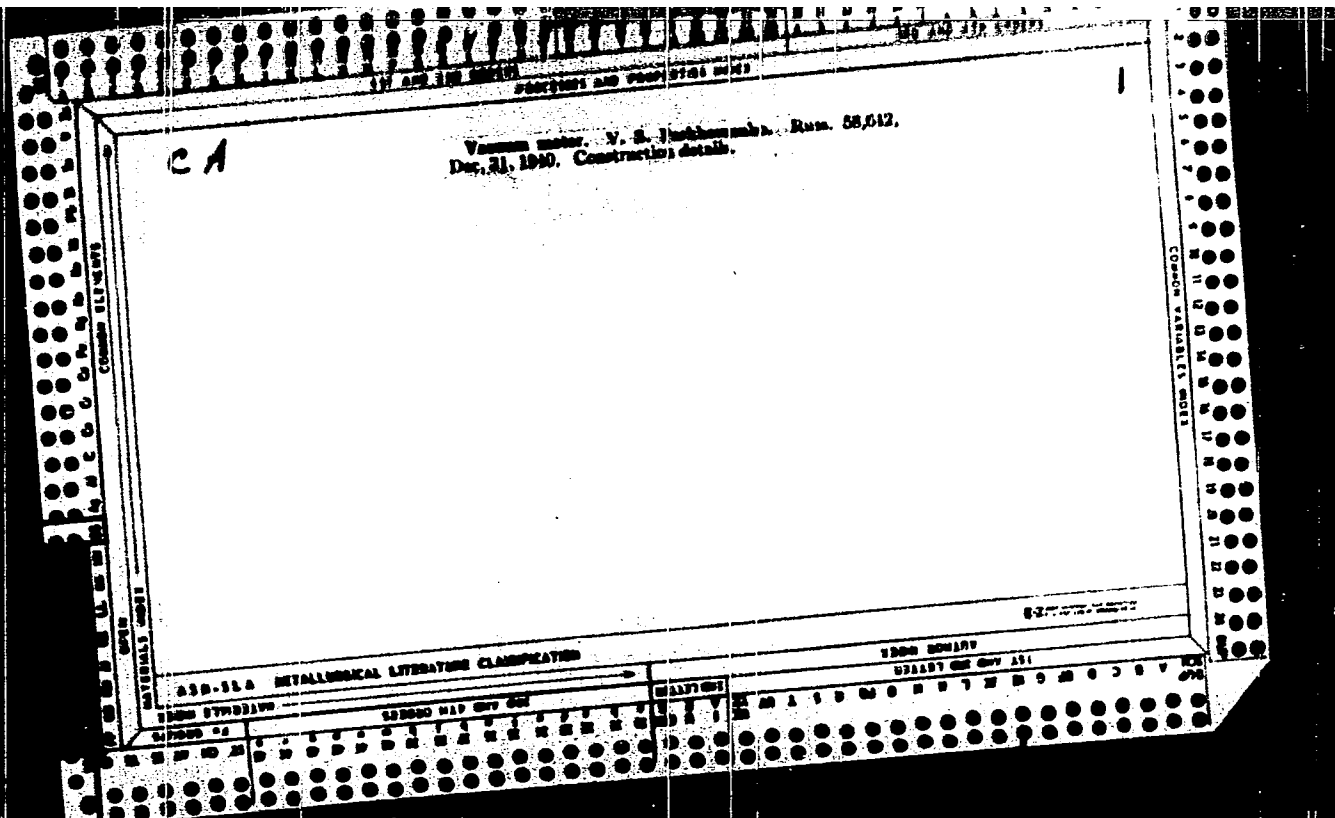


PAKHOMENKO, V.N., dotsent; MAZUROVSKAYA, B.M.

Closed injuries of the liver. Vrach.delo no.4:383-386 Ap '60.  
(MIRA 13:6)

1. Khirurgicheskaya klinika (zav. - zaslushennyy deyatel' nauki,  
Prof. A.K. Gorchakov) stomatologicheskogo fakul'teta Kiyevskogo  
meditsinskogo instituta i Pervaya Podol'skaya bol'nitsa (glavnyy  
vrach - Ye.P. Ryabova).

(LIVER--WOUNDS AND INJURIES)



PARKHOMENKO, V. S., Senior Engr.

Card. Tech. Sci.

Dissertation: "Oxide Cathode with a Core of Bronzed Wolfram." All-Union Electrical Engineering Inst, 25 Mar 47.

SO: Vecherniyaya Moskva, Mar, 1947 (Project #1736)

SOV/112-57-5-10959

9 (3)

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5,  
pp 201-202 (USSR)

AUTHOR: Bliskunov, N. A., Dobretsov, L. N., Parkhomenko, V. S.,  
Snykina, M. F., Chistyakova, M. A.

TITLE: Cathodes With an Activator in the Oxide Layer (A Preliminary Report)  
(Katody s aktivatorom v oksidnom sloye. Predvarit. soobshch.)

PERIODICAL: Tr. n.-i. in-ta, M-vo radiotekhn. prom-sti SSSR, 1956,  
Nr 1 (29), pp 48-50

ABSTRACT: Experiments with introducing the Si activator into a cathode oxide coating are described; this permits using a pure Ni base. A possibility has been verified of depositing alkali-earth metal carbonates in the presence of suspended Si granules that act as seeds for crystallization and that are uniformly distributed over the entire deposit; this fact favors the BaO reduction conditions in the cathode. The Si contents can be controlled by the size of

Card 1/2

*Parkhomenko, V.S.*  
Electronics - Electronic and Ionic Emission

H-2

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 12275

Author : Parkhomenko, V.S.

Inst : -

Title : Preliminary Results of an Investigation of an Oxide Cathode with Various Activators in the Core and in the Oxide.

Orig Pub : Tr. N.-1. in-ta, M-vo radiotekhn. prom-sti SSSR, 1956, vyp. 2-3 (30-31), 73-81

Abstract : Data are given on the service life of oxide cathodes with various activators in the core (nickel-calcium, nickel-tungsten, and nickel-aluminum-manganese) and cathodes with cores made of pure electrolytic nickel, containing various activators directly in the oxide in the form of minute powders (silicon, aluminum, tungsten, thorium, copper plus aluminum, and copper oxide plus aluminum). Graphs are used to show the time variation of the following quantities:

Card 1/2

PARKHOMENKO V. S.

Investigation of the emission properties of oxide cathodes made on cathodes from new base nickel alloys. Parkhomenko, M. A. Christyukha, G. A. Vostokov, M. S. Kuznetsova. Izvest. Akad. Nauk SSSR Ser. Fiz. Khim. 1987, 112-118 (1987).

The emission and life properties of oxide cathodes made on base metals Ni-Ca contg. 0.15-0.25% Si; Ni-Ca contg. up to 0.08% Fe; Ni-Se contg. 0.15% Se; Ni-W contg. 2.55-4.0% W, 0.01% Si. Other parameters tested were pulse emission, interelectrode resistance, low heat emission, noise, etc. Oxide cathodes made on Ni-Ca base have, on an average, higher and more stable characteristics than do those made on "A" nickel base. An unfavorable characteristic of Ni-Ca cathodes, which prevents their practical application, is a considerable increase in heater-cathode leakage. The properties of the Ni-Se cathodes are identical to those of Ni-Ca and this last material being cheaper is recommended for tubes in which the cathode is electrically connected to the heater. Ni-W alloy cathodes have shown on test long life, high emission and particularly good stability.

Handwritten initials: "C" and "P" with a checkmark.

Handwritten number "4" and "October 2 1987".

Handwritten signatures and initials at the bottom right of the page.

SOV/109-3-8-11/18

AUTHORS: Parkhomenko, V.S., Vostrov, G.A. and Chistyakova, M.A.

TITLE: Oxide Cathode with a Pure-nickel Core and with  
Activating Agents in the Coating (Oksidnyy katod s  
kernom iz chistogo nikelya i aktiviruyushchimi prisadkami  
v pokrytii)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 8,  
pp 1046 - 1057 (USSR)

ABSTRACT: In a number of Soviet investigations (Ref 16), it was  
found that the oxides which contain an activating  
admixture in the coating have the following advantages  
over the normal oxide cathode: 1) the use of a pure-  
nickel cathode core eliminates the formation of an inter-  
phase resistance layer; 2) the presence of the agents  
results in a uniform and easy activation of the cathodes;  
3) the action of the activators does not depend on the  
diffusion through the nickel; 4) the introduction of  
the activators does not present any difficulties and  
5) the cores can be made of the purest nickel. The  
choice of the activators is based on the calculations  
of barium-vapour pressure at a temperature of  $1273^{\circ}\text{K}$   
by the method indicated in Ref 21. From these calculations,

Card 1/3

SOV/109-3-8-11/18

Oxide Cathode with a Pure-nickel Core and with Activating Agents  
in the Coating

it follows that the ensuing elements have good barium-oxide reducing properties: Th, Mg, Be, Hf, Sc, Y, Sr, Nd, Pr, La, Zr, U, Al and Si. The experimental investigations of the cathode characteristics containing activators in the oxide layer were carried out on a special diode. This had a cylindrical-type construction; the dimensions of the various parts of the diode are indicated in Table 1. The coating had a weight of about 4 mg, a thickness of 40-50  $\mu$  and a roughness of 15-17  $\mu$ . The life tests of the cathodes are illustrated by the experimental curves of Figures 2, 3, 4 and 5, where the abscissae are linear up to 1 000 hours and logarithmic above 1 000 hours. From the figures, it is seen that the best emission characteristics are secured with the cathodes containing Th, Nb, Cu + Al and Zr in the coating. The diodes with such cathodes give stable, static parameters over long periods. In view of the outstanding characteristics of the cathodes with Th and Cu + Al activators, a special investigation was carried out with these cathodes. The conditions of tests are specified in Table 2, where the third column gives

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SOV/109-3-8-11/18

Oxide Cathode with a Pure-nickel Core and with Activating Agents  
in the Coating

the heater voltage, the fourth column shows the anode voltage, the fifth column gives the anode current, the sixth column refers to the cathode temperature and the seventh column indicates the number of tubes used in a test. The results of these tests are shown in Figures 6, 7 and 8. For the purpose of comparison, the saturation current (as a function of time) of the oxide cathode with thorium activator and without the activator is shown in Figure 9. From the experiments, it is concluded that the cathodes provided with Th or Al activators in the oxide coating can give stable current densities of

50 - 100 mA/cm<sup>2</sup> over a period of 10 000-20 000 hours. There are 9 figures, 2 tables and 21 references, 12 of which are Soviet, 8 English and 1 French.

SUBMITTED: January 29, 1958

Card 3/3

1. Oxide cathodes--Materials
2. Oxide cathodes--Coatings
3. Oxide cathodes--Performance
4. Nickel--Effectiveness

SOV/109-3-8-12/18  
AUTHORS: Arshanskaya, N.G., Parkhomenko, V.S. and Raskina, N.I.  
TITLE: Technology of the Preparation of Matrix nickel-oxide  
Cathodes and the Results of Their Investigation  
(Tekhnologiya izgotovleniya gubchatykh nikelovo-  
oksidnykh katodov i rezul'taty ikh issledovaniya)  
PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 8,  
pp 1058 - 1063 (USSR)

ABSTRACT: Two types of nickel-oxide cathodes were produced and investigated. Both cathodes employed nickel, type LNC, NIKA or NIVO as their core material. One of the cathodes was cylindrical and it was prepared in a special graphite jig (Figure 1). The matrix for this cathode was prepared from nickel powder having grain sizes of 45-60, 60-70 and 70-80  $\mu$ . The other cathode was in the form of a circular plate and was also prepared in a special jig (Figure 2); the same nickel powder was used for its matrix. The thickness of the matrix was about 200-250  $\mu$  and its porosity was about 70-75%. The oxidation of the cathode was done by using the normal, triple or double-carbonate, either pure or with admixture of an activating agent. The triple carbonate was introduced into the matrix by cathaphoresis. In the case of the double

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Technology of the Preparation of Matrix nickel-oxide Cathodes  
and the Results of Their Investigation

carbonate, the active mass was introduced into the pores of the matrix by "rubbing-in" the material into a revolving cathode. The cathodes were investigated in actual, electronic devices and in special, experimental diodes. One of the experimental diodes was a "lighthouse" tube, furnished with a copper radiator. The results of the tests on such tubes are shown in Figures 4, 5, 6 and 7. Figure 4 shows the anode current  $I_a$ , the pulse emission current  $I_n$  and the slope of a number of tubes as a function of the operation time; the full curves correspond to the cathodes of triple carbonate with Th, while the 'dashed' curves show the parameters for the cathodes without Th; these curves were taken for the cathodes made with LNO-nickel cores. Similar curves for NIKA- and NIVO-nickel cores are given in Figures 5 and 6, respectively. From the tests, it is concluded that the cathodes can give stable current densities of about  $0.5 \text{ A/cm}^2$ . It is therefore possible to employ the

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Technology of the Preparation of Matrix nickel-oxide Cathodes  
and the Results of Their Investigation

cathodes under the conditions where the normal oxide  
cathodes become unreliable due to the sparking phenomena  
and lack of strength.

There are 8 figures (1 photograph) and 8 references,  
4 of which are Soviet, 3 English and 1 French.

SUBMITTED: January 29, 1958

Card 3/3

1. Oxide cathodes--Preparation
2. Oxide cathodes--Performance
3. Oxide-cathodes--Test results
4. Nickel--Effectiveness

LAPINA, E.A.; PARKHOMENKO, V.S.; CHISTYAKOVA, M.A.

Use of color pyrometry methods in measuring the temperature  
of oxide cathodes. Izv. AN SSSR. Ser. fiz. 28 no.8:1367-1372  
Ag '64 (MIRA 17:8)

L 6815 65 EWO( )/EWI(1)/EWO(2)/EWI(m)/EPA(sp) 2/EPT(o)/EPT(n)-2/EPR/T/EMA/  
 EWP(a)/EWP(b) Pr-1/Ps-1/Pu-1/Pz-1/Pub-2h LP(c)/ASD(f)/AS(wp)-2/AFMDC/  
 AEDC(b)/RAEM(a)/EWL/ESD(t)/RAEM(t) AT/RWR/JT  
 ACCESSION NR: AP-044658 S/0048/64/028/008/1367/1372

AUTHOR: Lapina, V.A.; Parkhomenko, V.S.; Cristjhalovs, M.A. 112

TITLE: Use of color pyrometry for measuring the temperature of oxide-coated cathodes  
 Report, Third All-Union Conference on Semiconductor Compounds held in Kishinev 16-21 Sep 1963/

SOURCE: AN BSSR. Izv. Seriya fizicheskaya v.23, no.8, 1964, 1367-1372

TOPIC TAGS: oxide cathodes, temperature measurement, pyrometry, infrared pyrometer, 10

ABSTRACT: The feasibility of employing infrared (0.9 to 2.2  $\mu$ ) color pyrometry to measure the temperatures of oxide-coated cathodes in the temperature range from 600 to 900°C was investigated experimentally. Oxide coatings of commercial type and thickness from 50 to 120 microns were deposited on 0.54 cm diameter 15 cm long nickel or molybdenum cylinders of 50 microns wall thickness. Each cylinder was provided with a 1.5 to 2 mm diameter opening in the wall midway between the ends for pyrometric observation of the interior temperature. The emissivity of this opening was corrected for the finite size of the opening and the cylinder by a formula given by J.C.De-Vos (Physica Deel, 20, No. 10, Oct. 1954, 691). The model cathode was heated

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ACCESSION NO: AP-041655

by regulated direct current in vacuum ( $10^{-6}$  mm Hg) and observations were made with an infrared spectropyrrometer calibrated in brightness temperature. Correction was made for reflection by the glass wall of the vacuum chamber. The temperature within the cathode was determined from the brightness temperature of the radiation issuing from the opening, from the color temperature of this radiation, and by means of a thermocouple located within the cylinder but not in contact with the wall. The relative emissivity (with respect to a black body at the temperature of the interior of the cathode) of the oxide surface was measured at five wavelengths between 0.9 and 2.9  $\mu$ , and the results are tabulated for six different cathodes. The relative emissivities range from 0.15 to 0.42, but they do not vary greatly with wavelength for a single cathode. The color temperatures and the brightness temperatures of the oxide surfaces are compared with the true interior temperatures. The color temperatures differed from the true interior temperatures by only a few degrees, the deviation exceeding  $10^\circ$  in only one case. The brightness temperatures were typically 150 to 300° lower than the true interior temperatures. It is concluded that the oxide coating is sufficiently transparent and has a sufficiently low emissivity that the measured color temperature corresponds to the temperature of the hottest region next to the base, and that the base temperature can be reliably determined by infra-

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ACCESSION NR: AP4044655

red color pyrometry. The surface temperature can be calculated from the base temperature and the heat conductivity, transparency, and thickness of the coating, but it cannot be determined from the quality of the radiation. To determine the applicability of the method to the measurement of the temperature of other types of cathode coatings, a similar investigation with each different type of coating will be required. Orig.art.has: 7 formulas and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC,EN

NR REF 50V: 003

OTHER: 001

3/3



CHEREVAN', Stepan Ivanovich; PARKHOMENKO, V.S., red.; PRESNOVA, V.A.,  
tekhn. red.

[Hog woman Tabakova's school] Shkola svinarki Tabakovoi. Le-  
ningrad, Lenizdat, 1962. 26 p. (MIRA 16:2)

1. Glavnyy zootekhnik sovkhoza "Vyborgskiy" Leningradskoy oblasti  
(for Cherevan').

(Swine)

DOBRYAKOV, Nikolay Vasil'yevich, kand. sel'khoz. nauk; PARKHOMENKO,  
V.S., red.; ONOSHO, N.G., tekhn. red.

[Loose housing of cows] Bespriviaznoe sodержanie korov.  
Leningrad, Lenizdat, 1962. 36 p. (MIRA 16:6)  
(Cows)

GAVRILOV, I.S.; PARKHOMENKO, V.S., red.; PRESNOVA, V.A., tekhn. red.

[Intensive feed lot and pasture fattening of livestock] Intensivnyi otkorm i nagul skota. Leningrad, Lenizdat, 1963. 69 p.  
(MIRA 16:7)

(Leningrad Province--Swine--Feeding and feeds)  
(Leningrad Province--Beef cattle--Feeding and feeds)

YEVDOKIMOV, Petr Dmitriyevich, doktor veter. nauk; PARKHOMENKO,  
V.S., red.; SHERMUSHENKO, T.A., tekhn. red.

[Use of iodinol and iodized starch in veterinary medicine]  
Primenenie iodinola i iodistogo krakhmala v veterinarii.  
Leningrad, Lenizdat, 1963. 57 p. (MIRA 17:1)

DOBROCHAYEVA, D.M. [Dobrochaieva, D.M.] , kand., biolog, nauk; LYALITSKAYA, S.D. [Lyalits'ka, S.D.]; PARKHOMENKO, V.V.; SOKUR, I.T., kand. biolog. nauk; USPENSKIY, G.O. [Uspens'kiy, G.O.]; SVECHNIKOVA, N.I. [Sviechnikova, N.I.], red.; KLOKOVA, S.M., tekhn.red.; HERBENETS', P.P., tekhn. red.

[In Ukrainian preserves] Po zapovidnykh miststakh Ukrainy. Kyiv, Vyd-vo TsK IKSMU "Molod', 1960. 207 p. (MIRA 14:7)  
(Ukraine--Natural history)

PARKHOMENKO, V.V.

Ample resources of game. Nauka i zhyttia 10 no.9:34-36  
S '60. (MIRA 13:9)

1. Glavnyy okhotoved Glavnogo upravleniya lesnogo khozyaystva  
i lesozagotovok pri Sovete Ministrov USSR.  
(Ukraine--Game and game birds)

PARKHOMENKO, V.V.

A game preserve. Nauka i zhyttia 9 no.8:34-35 S '59.  
(MIRA 13:1)

(Zhitomir Province--Game protection)  
(Uzh Valley--Beavers)

PARKHOMENKO, Vladimir Vladimirovich; NEMCHENKO, Ye.M., redaktor; KALASHNIKOVA, O.G., tekhnichny redaktor.

[Nature's calendar] Kalendar pryrody. Kyiv, Dersh.uchbovo-pedagog.  
vyd-vo "Radians'ka shkola," 1955. 73 p. (MLRA 10:5)  
(Nature study)



KOBYAKOV, B.S., kand. tekhn. nauk; PARKHOMENKO, V.V., inzh.

Two-channel ash content  $\gamma$ -analyzer operating as a transducer  
in an automatic control system. Izv. vys. ucheb. zav.; gor.  
zhur. 6 no.10:101-102 '63. (MIRA 17:2)

1. Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i  
vychislitel'noy tekhniki.

PARKHOMENKO, V.V.; KURILENKO, O.D.

Sorption processes on cation exchangers from alcohol-aqueous solutions. Ukr. khim. zhur. 31 no.4:372-375 '65.

(MIRA 18:5)

1. Kiyevskiy tekhnologicheskij institut pishchevoy promyshlennosti.

PARKHOMENKO, V.V.

Black grouse in the Ukraine. Priroda 43 no.5:117 My '54. (MLBA 7:5)

1. Upravleniye okhotnich'yego khozyaystva Ministerstva sel'skogo khozyaystva USSR. (Ukraine--Black grouse) (Black grouse--Ukraine)

PARKHOMENKO, V. V.  
USSR/Zoology

Card 1/1

Author : Parkhomenko, V. V.

Title : The Woodcock in the Ukraine

Periodical : Priroda, 5, page 112, May 1954

Abstract : Hunting during Czarist Russia led to an almost complete extinction of the woodcock. Only the prohibition of hunting woodcock, issued after the socialistic revolution, saved these birds from total extinction. Today, greater numbers of woodcocks are found in the Chernigov region in the Ukraine, on the right shore of the Desna River. Woodcock can be found all over the northern Kiev region and also at the Dnieper-Desna delta. This serves as proof that through rational planning of hunting and by forbidding the hunting of certain birds and animals, will it be possible to enrich the fauna of the USSR.

Institution : Ministry of Agriculture Ukr-SSR, Hunting Department

Submitted : .....



1. PARKHOMENKO, V. VV
2. USSR (600)
4. Coots - Korma, Lake
7. Interesting experiment. Priroda, 42, no. 2, 1953.

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

PARKHOMENKO, V.V.

The neriia (Serinus canaria serinus Lin.) in Kiev. *Isuk. zap. Kiev. un.*  
9 no. 6:162 '50. (Kiev--Canaries) (MIRA 9:10)