SHENDEROVICH, V.A.; SKURKOVICH, O.V.; GOLOSOVA, T.V.; LOSEVA, R.A.

Therapeutic use of the aerosols lysozyme and ecmonovocillin.
Trudy TSIU 80:90-92 '65. (MIRA 18:11)

SHEMPF, E.G. [Schempf, E.G.]; ROBERTSON, K.A.; LOSEVA, R.I. [translator]

The seismic magnetic integrator (from "World Petroleum," 29, No.3, 1958). Biul.nauch.-tekh.inform.VIMS no.1:47-50 '60. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki.
(United States--Geophysical instruments)

LOSEVA S. M.

LOSEVA, S. M., GIRSHBERG, L. S.

Postwar rheumatism. Ter. arkh. 22:3, May-June 50. p. 17-21

1. Of the Department of Hospital Therapy (Head--Prof. L. S. Girshberg), Smolensk Medical Institute.

CLML 19, 5, Nov., 1950

LOSEVA, S. S.

USSR/Metals
Titanium Compounds
Nitrogen

"Nitrogen in Titanium Carbide and Titanium Tungsten Hard Alloys," A. N. Zelikman, Candidate in Technical Sciences, S. S. Loseva, T. Geytina, Engrs, Ministry of Nonferrous Metallurgy and Gold, and the Institute of Hard Alloys, 8pp (N. Ya)

"Tavetnyye Metally" No 4, 1947

Titanium tungsten is the hard alloy used to coat the cutting edges of steel-working tools. The production of these hard alloys has therefore considerably increased. Tables of the percentage composition of various types of hard alloys and four photographic plated showing the microstructure of four samples of this alloy. Decarbonization of titanium carbide is conducted in furnaces at temperatures of 1200 - 1800degress. Nitrogen appears to be the only effective decarbonization agent at temperatures of 1800 - 2000 degrees. Nitrogen does not decrease the cutting efficiency of hard alloy tools.

PA-24T74

LOSEVA, T.

Some factors determining the increase of the need of specialists in industry. Nauch. trudy TashGU no.206:72-92 '62. (MIRA 16:6)

(Uzbekistan—Industries)

LOSEVA, T.

Structural changes in the production and their effect on the need of specialists. Nauch. trudy TashGU no.206:93-120 '62. (MIRA 16:6)

(Uzbekistan—Professional education)

YEFIMOVA, N.P.; LOSEVA, T.A.

Selecting an effective immunization system on the basis of the physiological features of immunogenesis. Zhur.mikrobiol.epid. i immun., supplement for 1956:6-7 '57 (MIRA 11:3)

1. Iz Molotovskogo instituta vaktsin i syvorotok.
(VACCINATION) (IMMUNITY)

YEFIMOVA, N.P.; MAL'TSEVA, Z.I.; LOSEVA, T.A.; ALEKSANDROVSKAYA, L.A.

Electro- and immunophoretic study of antitoxic sera. Zhur. mikrobiol.epid.i immun. 32 no.1:77-81 Ja '61. (MIRA 14:6)

1. Iz Permskogo instituta vaktsin i syvorotok.
(SERUM)

YEFIMOVA, N.P.; LOSEVA, T.A.

Precipitated antigens are the basis for efficient immunization.
Zhur. mikrobiol. epid. i immun. 32 no.6:135-136 Je '61.
(MIRA 15:5)

1. Iz Permskogo instituta vaktsin i syvorotok.
(ANTIGENS AND ANTIBODIES) (IMMUNITY)

1. ARTAMONOV, P. A.: LOSEVA, T. K., Engs. BORODINA, O. O.

2. USSR (600)

4. Water Gas

7. Purifying water gas with a solution of mono-ethylamine. Masl. zhir. prom. 17 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

LOPATIN, K.I., kandidat tekhnicheskikh nauk; ASKINAZI, Z.M., inzhener; BLINER, L.G., inzhener; PETROV, Ye.M., inzhener; LOSEVA, T.K.; SEVAST'YANOV, I.F.

Purification of water gas by triethanolamine. Masl.-zhir.prom.22 no.4:12-13 '56. (MLRA 9:9)

1.Leningradskiy khimiko-farmatsevticheskiy institut (for Lopatin). 2.Leningradskiy zavod "Salelin" (for Askinazi, Bliner, Petrov, Sevast'yanov).
(Water gas) (Ethanol)

LEVIT, M.S., kand.tekhn.nauk; BLINER, L.G., inzh.; LOSEVA, T.K., inzh.

Determining content of small amounts of soap in oils during refining. Masl.-zhir.prom. 24 no.11:35-36 '58. (MIRA 12:1)

1. Leningradskiy zavod "Salolin."
(Oils and fats--Analysis) (Soap)

ZEYDENBERG, V.K.; LOSEVA, T.S.; KOBELEV, V.V., inzh., retsenzent

[English-Russian dictionary on computers] Anglo-russkii slovar' po vychislitel'noi tekhnike. Moskva, In-t tochnoi mekhaniki i vychislitel'noi tekhniki Akad.nauk SSSR. No.1. 1958. 93 p. (MIRA 13:12)

(Electronic calculating machines--Dictionaries)
(English language--Dictionaries--Russian)

LOSEVA, V.A.

LEVIN, M.M., professor; LOSEVA, V.A.

Effectiveness of vitamin D_2 in the treatment of psoriasis. Vrach. delo no.9:991 S '57. (MIRA 10:9)

1. Smolenskiy oblastnoy kozhno-venerologicheskiy dispanser
(VITAMINS--D) (PSORIASIS)

LEVIN, M.M., prof.; LOSEVA, V.A.

Materials on the so-called salvarsan jaundice. Trudy SMI 16:105-112 '63. (MIRA 18:1)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - prof. M.M. Levin) Smolenskogo gosudarstvennogo meditsinskogo instituta.

L 8958-66 EWT(m)/EWP(j)/T RM

ACC NR: AP5026529 SOURCE CODE: UR/0286/65/000/019/0070/0070

AUTHORS: Yeliseyeva, V. I.; Il'ichev, O. I.; Karpeyev, Ye. P.; Metelkin, A. I.; Zharkov, M. N.; Petrova, S. A.; Ionova, N. I.; Gorina, F. A.; Khandoshko, Ye. N.; Zurabyan, K. M.; Loseva, V. A.; Mogulis, I. A.; Arkhangel'skaya, A. P.; Kryuchkova, M. P.

ORG: none

TITLE: Method for obtaining film-forming materials and impregnating materials for trimming and filling of natural and artificial leather. Class 39, No. 175227

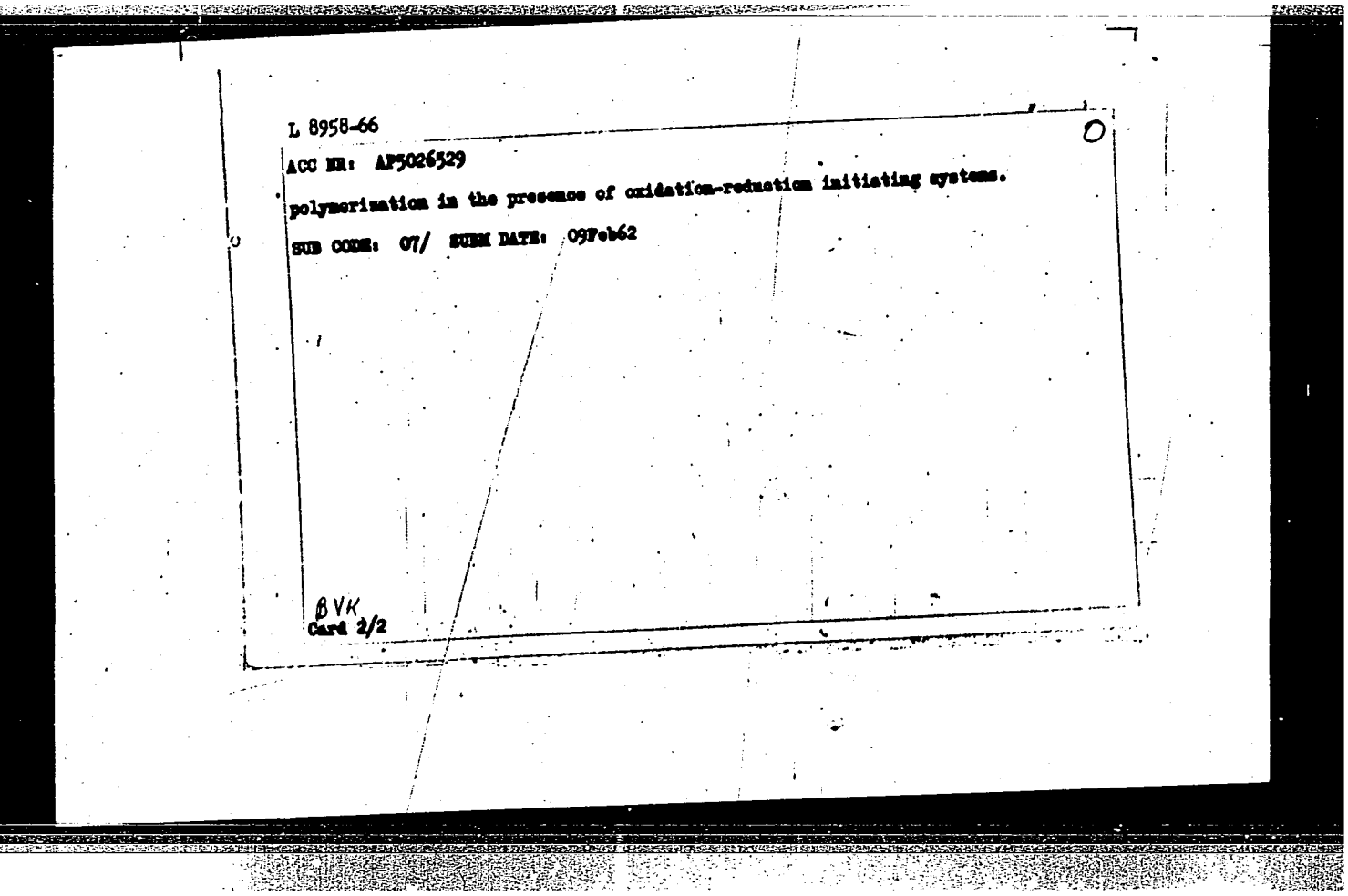
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 70

TOPIC TAGS: leather, polymer, protein, vinyl plastic, acrylic plastic

ABSTRACT: This Author Certificate presents a method for obtaining film-forming and impregnating materials for trimming and filling of natural and artificial leather by modification of vinyl, for instance, acrylic and methacrylic monomers by means of proteins. To increase the thermal, acetone, and water stability of coatings and the durability and filling of the material structure, the starting monomers are emulsified in an aqueous protein solution. The emulsification is followed by

UDC: 678.744.32-416
677.862.524.1

Card 1/2



L 8958-66

ACC NR: AP5026529

polymerization in the presence of oxidation-reduction initiating systems.

SUB CODE: 07/ SUBM DATE: 09Feb62

BVK
Card 2/2

ZHUKOVSKIY, S.G.; YEFIMOVA, L.F.; ROZANOVA, A.A., agronom; LOSEVA, V.G., agronom; RUDENKO, D.K., kand. sel'skokhoz. nauk; KAPUSTINSKIY, A.F., fitopatolog; MELESHKO, A.I., mladshiy nauchnyy sotrudnik

Brief information. Zashch. rast. ot vred. i bol. 8 no.3:24, 53-54 Mr '63. (MIRA 17:1)

1. Vsesoyuznyy institut zashchity rasteniy (for Zhukovskiy, Yefimova, Rudenko, Meleshko). 2. Biolaboratoriya karantinnoy inspektsii UzSSR (for Rozanova, Loseva).

LOSEVA, Ye.A.; SKOBLOV, G.Z.

Stereophotogrammetric method of determining deformations in houses built of plastic materials. Osn., fund. i mekh.grun. 8 no.1:25-26 '66.

(MIRA 19:1)

KOMARDINA, M.G.; LOSEVA, Ye.I.; YEREMITSKAYA, N.A.

Occurrence of the tick Hyalomma asiaticum asiaticum infected with plague on a camel. Biul.MOIP.Otd.biol. 67 no.4:157-158 Jl-Ag '62. (MIRA 15:10)

(ARAL SEA REGION--TICKS AS CARRIERS OF DISEASE)
(PARASITES--CAMELS)

LOSEVA, E.I.

Stratigraphy of Quaternary sediments in the upper Mezen'.
Izv. Komi. fil. Geog. ob-va SSSR no.8:15-22 '63.
(MIRA 17:6)

KUSOV, V.N.; LOSEVA, Ya.I.; KAMARDINA, M.G.; ROMANOVSKIY, I.D.; SKVORTSOVA, P.G.

Distribution of the tick Ornithodoros tartakovskyi Olenev in Kzyl-Orda Province. Trudy Inst. zool. AN Kazakh. SSR 19: 161-172 '63. (MIRA 16:9)

(Kzyl-Orda Province—Ticks)

LOSEVA, Ye.I.

Ixodid ticks of Kzyl-Orda Province. Trudy Inst. zool. AN Kazakh. SSR 19:180-190 '63. (MIRA 16:9)

(Kzyl-Orda Province--Ticks)

BRONSHTEYN, Ye.Z.; LOSEVA, Ye.V.

Belloid and bellaspon poisonings at home. Sud.-med. eksp. 8 no.3:34-35 Jl-S '65. (MIRA 18:9)

1. Kafedra sudebnoy meditsiny (zav.- prof. V.M. Smol'yaninov) II Moskovskogo meditsinskogo instituta imeni Pirogova.

LOSEVA, Ye.V.

[Influenza and its prevention] Gripp i ego preduprezhdenie. Moskva, Medgiz, 1952. 46 p. (MLRA 6:7) (Influenza)

LOSEVA, Yu.P.

Utilization of the electrohydraulic effect in the paper industry.
Bum.prom.32 no.9:8-9 S '57. (MIRA 10:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
(Paper industry) (Electric discharges)

USSR / Cultivated Plants. Technical, Oleaceous, Sugar Bearing Plants. M-6

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58675

Author : Loseva, Z. E.
Inst : All Union Scient.-Res. Institute of Bast Crops
Title : The Effect of Growing Conditions on the Monoeciousness of Hemp of the Middle Russian Type

Orig Pub : Len i konoplya, 1957, No 5, 30-31

Abstract : The effect of mineral food, of the soil moisture and of the amount of daylight on the monoeciousness of hemp was studied at the All-Union scient.-res. institute of bast crops in 1954-1956. About 99% of monoecious plants were obtained when full mineral fertilization was applied. The least percentage of monoeciousness (75.7) was obtained, when nitrogen was introduced experimentally in different phases. The introduction

Card 1/3

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58675

of 1/3 nitrogen during sowing and 1/3 during budding and blooming was accompanied by a greater formation of female (momoecious female plant) than male momoecious plants. This contributed to an increase in the yield of seeds of momoecious hemp. A full supply of nitrogen at the beginning of the development of plants and periodic introductions of potassium and phosphorus contributed to a more intensive growth and development of male plants (monoecious feminized hemp) than of female plants. The most favorable condition for the formation of monoecious plants is a soil moisture representing 60-80% of full capacity (according to the data based on vegetation experience). At that degree of moisture, the percentage of monoecious plants reached 72, and almost the entire feminized hemp was

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58675

converted into monoecious plants. This increases considerably the yield of seeds of monoecious hemp. The number of monoecious plants increased and the yield of seeds improved when the hemp received more daylight. -- A. M. Smirnov

LOSEVA, Z. YE., CAND AGR SCI, "~~DEVELOPMENT~~ Evidation OF CONDITIONS ~~FAVORING~~ promoting INCREASE OF MONOECISM IN MONOESCIOUS HEMP." KIEV, 1960. (MIN OF AGR UKSSR, UKRANIAN ACAD OF AGR SCI). (KL, 3-61, 225).

KOSHAUKIN, A. A.

Khimiya i Primeneniye Fosfororganicheskikh Soyedineniy (Chemistry and Application of Organophosphorus Compounds) A. Ye. Arbuzov, Ed. publ. by Kazan' Affil, Acad. Sci. USSR, Moscow, 1962 638pp.

Collection of complete papers presented at the 1959 Kazan Conference on Chemistry of Organophosphorus Compounds.

MARKOV, S.M.; LOSHADKIN, N.A.; RAMZHAYEV, A.V.

Kinetics of interaction of a true cholinesterase of erythrocytes with organophosphorus inhibitors. Zhur.VKHO 6 no.3:357-358 '61. (MIRA 14:6)

(Cholinesterase) (Phosphorus organic compounds)

MARKOV, S.M.; LOSHADKIN, N.A.; CHISTOVA, M.A.; KNUNYANTS, I.L., akademik

Some problems of nucleophilic substitution in the phosphorus atom in the reactivation of phosphorylated cholinesterase. Dokl. AN SSSR 147 no.2:484-487 N '62. (MIRA 15:11)
(Phosphorus) (Substitution (Chemistry)) (Cholinesterase)

L 12594-63 EWA(b)/EWT(m)/BDS APGC Pa-4 RM

ACCESSION NR: AP3002630 S/0218/63/028/003/0402/0406

AUTHOR: Markov, S. M.; Loshadkin, N. A.; Chistova, M. A. 61 59

TITLE: Interaction kinetics of organophosphorous inhibitors with cholinesterases

SOURCE: Biokhimiya, v. 28, no. 3, 1963, 402-406

TOPIC TAGS: nitrophenyl esters, phosphoric acid, phosphinous acid, cholinesterase, armin, phosphacol, interaction kinetic, organophosphorous inhibitor

ABSTRACT: Nitrophenyl esters of phosphoric and phosphinous acids used in insecticides and medical preparations are inhibitors of cholinesterases and have some toxic effect on warm blooded animals. Of particular interest are the action mechanisms and the chemical affinities of these compounds. Many studies have been made of the interaction kinetics of organophosphorous inhibitors with pseudo and true cholinesterases, but they are based on different methods making comparison of results difficult. This work investigates the interaction kinetics of armin (ethyl-p-nitrophenyl ester of ethylphosphinic acid) and phosphacol (O,O-diethyl O-(p-nitrophenyl) phosphate) with pseudo cholinesterase of horse blood serum and true

Card 1/2

L 12594-63
ACCESSION NR: AP3002630

2

cholinesterases of rabbit erythrocytes and cat cerebrum. Aldridge's (bibliography 3, 4, 5) manometer method was used. Tables 1-4 give data on the interaction kinetics experiments. The affinity of armin and phosphacol for the given cholinesterases differs. Phosphacol interacts with cat brain cholinesterases at different rates although activation energy values are practically identical. Kinetic data on armin interaction with cat brain cholinesterases from in vitro and in vivo experiments is compared. No conclusions on the data are drawn. "The authors express their gratitude to Academician I. L. Knunyants and to Professor M. K. Baranaev for consultation." Orig. art. has: 2 figures, 4 tables.

ASSOCIATION: None

SUBMITTED: 18May62 DATE ACQ: 12Jul63 ENCL: 00

SUB CODE: CH, AM NO REF SOV: 009 OTHER: 007

Card 2/2

MAKLYAYEV, F.L.; SMIRNOV, I.V.; MARKOV, S.M.; LOSHADKIN, N.A.; ANIKIYENKO, K.A.

Reactivity of the nitrophenyl esters of phosphoric and phosphinic acids. Zhur.ob.khim. 33 no.12:3833-3838 D '63. (MIRA 17:3)

KNUNYANTS, I.L., akademik; IOSHADKIN, N.A.

Mutations and heredity. Priroda 54 no.9:2-12 S '65.
(MIRA 18:9)

POLEKHIN, A.M.; BARANAYEV, M.K.; LOSHADKIN, N.A.; MARKOV, S.M.

Simple method of calculating the reaction rate constants of the first-order reaction (modified Guggenheim method). Zhur.VKHO 10 no.4:467-469 '65.

(MIRA 18:11)

YAKOVLEV, Viktor Andreyevich; LOSHADKIN, N.A., red.

[Kinetics of enzymatic catalysis] Kinetika fermentativnogo kataliza. Moskva, Nauka, 1965. 247 p.
(MIRA 19:1)

L 36475-66 EWT(1) RO

ACC NR: AP6027047 (N) SOURCE CODE: UR/0390/66/029/001/0072/0076

AUTHOR: Markov, S. M.; Loshadkin, N. A.; Imasheva, M. A.

ORG: none

TITLE: Kinetics of the armin and phosphacol interaction with cholinesterases of different organs and tissues

SOURCE: Farmakologiya i toksikologiya, v. 29, no. 1, 1966, 72-76

TOPIC TAGS: cholinesterase, phosphate, cat, chemical reaction kinetics, brain, biochemistry

ABSTRACT: This study continues the effort on the affinity of phosphate and phosphonate to various cholinesterases. The kinetics of the interaction of armin (O-ethoxypnitrophenylethylphosphonate) and phosphacol (O,Odiethoxypnitrophenyl-phosphate) with the cholinesterases of internal organs and various sections of the brain of cats was investigated. The affinity of the phosphate and phosphonate to these cholinesterases differs: phosphonate shows a more marked affinity for true cholinesterase than for pseudocholinesterase whereas with phosphate the opposite is true. Phosphacol and armin react with the cholinesterases of different sections of brain of cats at dissimilar rates. The kinetic data are obtained compared with the results of tests in vivo. It is shown that the suppression of cholinesterases of various organs and tissues in these experiments is in agreement

Card 1/2

UDC: 615.739.16-015.2: 612.015.14

0917 0035

L 36475-66

ACC NR: AP6027047

with the results of in vitro experiments on the varying degree of affinity of phosphacol and armin for different cholinesterases. From the study of the action of small doses of phosphacol on the activity of cholinesterases of different sections of the brain of cats it was shown that in addition to a lowering of the activity, a slight but definite increase in activity occurs in certain sections of the brain immediately after introduction. Orig. art. has: 2 tables and 1 figure. [JPRS: 36,455]

SUB CODE: 06 / SUBM DATE: 22Dec64 / ORIG REF: 005 / OTH REF: 007

Card 2/2 mlp

L 06515-67 EWT(m)/EWP(j) RM

ACC NR: AP7000477 SOURCE CODE: UR/0079/66/036/006/1098/1104

MARKOV, S. M., POLEKHIN, A. M., LOSHADKIN, N. A., KOSTENKO, G. A., MOROZOVA, Z. V., YAKUBOVICH, M. M.

28
B

"Nucleophilic Substitution at the Tetrahedral Phosphorus Atom. II. General Problems of Kinetics of Alkaline Hydrolysis of Derivatives of Phosphorus Acids"

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 6, 1966, pp 1098-1104

Abstract: The kinetics of the alkaline hydrolysis of fluorides and nitrophenyl esters of phosphorus atoms was studied as a function of the pH. A modified Guggenheim method was proposed for calculating the rate constants of first-order reactions. Sample calculations were performed for ethoxymethylfluorophosphonate, butoxymethylfluorophosphonate, and diisopropylfluorophosphonate. The values of E, log A, $\Delta S^{\neq}$, and $\Delta G^{\neq}$ of the alkaline hydrolysis of these phosphorus-containing compounds and the standard deviations of these quantities were calculated by the method of least squares. The temperature dependence of the rate constant was also studied for the alkaline hydrolysis of fluorides and nitrophenyl esters of phosphorus acids; it was found to obey an Arrhenius equation. Orig. art. has: 4 figures, 14 formulas and 3 tables.

[JPRS: 37,023]

ORG: none

TOPIC TAGS: hydrolysis, nonmetallic organic derivative, organic phosphorus compound

Card 1/1 UDC: 546.18:541.634:543.878 547.3 SUBCODE: 07/SUBM DATE: 05MAR64/ ORIG REF: 005/ OTH REF: 013

L 06514-67 EWT(m)/EWP(j) RM
ACC NR: AP7000478 SOURCE CODE: UR/0079/66/036/006/1105/1113

LOSHADKIN, N. A., MARKOV, S. M., POLEKHIN, A. M., NEYMYSHEVA, A. A., MAKLYAYEV, F. L., KNUNYANTS, I. L.

38
36
B

"Nucleophilic Substitution at the Tetrahedral Phosphorus Atom. III. Relationship between the Structure and Reactivity of Phosphorus-Containing Compounds. Role of the Vacant 3d-Orbitals of the Phosphorus Atom"

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 6, 1966, pp 1105-1113

Abstract: A study of the alkaline hydrolysis of nitrophenol esters and halides of phosphorus acids indicated that the free energy change is less sensitive to changes in the influence of substituents bonded to the phosphorus atom than the activation energy and steric factor. The effects of changes in the structure of the substituent were investigated: effect of replacement of the oxygen atom in the P=O group by a sulfur atom; effect of the structure of alkyl groups bonded to the phosphorus atom; effect of replacement of an alkyl group bonded to the phosphorus atom by an alkoxy group; effect of structure of the alkoxy group. The standard deviations of the rate constant of hydrolysis, activation energy, and steric factor calculated indicated a significant difference of these quantities, depending upon the structure of the organophosphorus compound. The introduction of substituents capable of participating in p_{pi}-d_{pi} conjugation (RO group) next to the phosphorus atom leads to a relatively

Card 1/2 UDC: 547.18:541.63 + 543.878

0923 1190

L 06514-67

ACC NR: AP7000478

2

small, but significant increase in the energy and entropy of activation. The presence of a compensation dependence of the change in the activation energy and entropy of alkaline hydrolysis of nitrophenyl esters and fluorides of phosphorus acids was demonstrated. Orig. art. has: 3 figures and 3 tables. [JPRS: 37,023]

ORG: none

TOPIC TAGS: activation energy, organic phosphorus compound, hydrolysis

SUB CODE: 07 / SUBM DATE: 27Jul64 / ORIG REF: 017 / OTH REF: 019

Card 2/2 LS

SHEVYAKOVA, N.I.; LOSHADKINA, A.P.

Variation of the sulfhydryl group content in plants under the effect of salinization. Fiziol. rast. 12 no.2:332-339 Mr-Ap '65. (MIRA 18:6)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva.

LOSHAK, A.I.

[Alternating-current electric crane equipment; reference manual] Kranovoe elektrooborudovanie peremennogo toka; spravochnoe rukovodstvo. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1953. 340 p. (MLRA 6:10)
(Electric cranes)

ACCESSION NR: AT4042669 S/0000/63/000/000/0134/0135

AUTHOR: Gilinskiy, V. Ya.; Chapek, A. V.; Kozlova, A. G.; Kulikova, N. M.; Loshak, A. Ya.

TITLE: The effects of small concentrations of carbon monoxide on the human organism in airtight cabins of passenger aircraft

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy* konferentsii. Moscow, 1963, 134-135

TOPIC TAGS: carbon monoxide effect, pressure chamber, man, higher nervous activity, passenger aircraft

ABSTRACT: In order to study the effects of small concentrations of carbon monoxide, experiments were performed on 82 persons in pressure chambers and 185 persons in aircraft. Experiments have shown that after 3 hours, the presence of carbon monoxide in concentrations of 0.01 mg/l and higher causes certain negative shifts in the functional condition of a number of organs and systems. In the area of higher nervous activity, it was found that the presence of carbon monoxide resulted

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ACCESSION NR: AT4042669

in a lowering of the ability to differentiate, a decrease in memory, a shortening of the attention span, and an increase in the time for carrying out assigned tasks. In the area of visual and vestibular analyzers, it caused an increase in the latent period, a diminution in the retention of the afterimage, and a diminution in the time of counter rotation illusion. In the metabolic processes, it caused changes in body temperature. In the cardiovascular system, it caused changes in arterial pressure, changes in the functions of the cardiac muscle, etc. It caused a weakening of the muscles. It caused formation of carboxyhemoglobin in the blood and other changes in the composition of blood elements. On the basis of these data, it is suggested that 0.01 mg/l of carbon monoxide be established as the maximum allowable in the cabins of passenger aircraft.

ASSOCIATION: none

SUBMITTED: 27Sep63 ENCL: 00 SUB CODE: LS

NO REF SOV: 000 OTHER: 000

Card 2/2

ACCESSION NR: AP4042483 S/0240/64/000/007/0039/0044

AUTHOR: Loshak, A. Ya.; Mar'yechkin, Ye. F.

TITLE: Evaluation of working conditions on civilian airport radar installations

SOURCE: Gigiyena i sanitariya, no. 7, 1964, 39-44

TOPIC TAGS: microwave, radar, personnel safety, microwave dosimetry, airport, landing control radar, surveillance radar

ABSTRACT: The wide use of radar on civilian airport facilities has necessitated an evaluation of working conditions around installations which generate very high frequency electromagnetic energy. Using a "Medik" PO-1 device, the authors accumulated data on a dosimetric survey of various large civilian radar installations. Landing, control, and surveillance radars and their antennas were evaluated. It was evident that personnel working in close proximity to radar power sources are subjected to dispersed, nearly constant, or parasitic microwave discharges which may range in intensity from 1 to several μwatt/cm^2. The authors feel that prevention of the harmful effects

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ACCESSION NR: AP4042483

of microwaves must be based first on planned and organized countermeasures, and then on the use of protective materials which will ensure proper shielding of rooms and buildings close to radar units. It is also necessary to determine normal acceptable levels of microwave radiation which personnel can withstand, taking into consideration the periodicity, intensity, and frequency range of the microwaves. It is concluded that the high levels of microwave radiation registered from radar antennas necessitate the establishment of methods for protecting personnel from harmful radiation. Approaches to increased safety should entail theoretical calculation and dosimetric determination of microwave intensity in or around large radar installations. Orig. art. has: 2 tables.

ASSOCIATION: none

SUBMITTED: 05Apr63 ATD PRESS: 3054 ENCL: 00

SUB CODE: LS, DC, PH NO REF SOV: 009 OTHER: 002

Card 2/2

AUTHOR: Loshak, A. Ya.

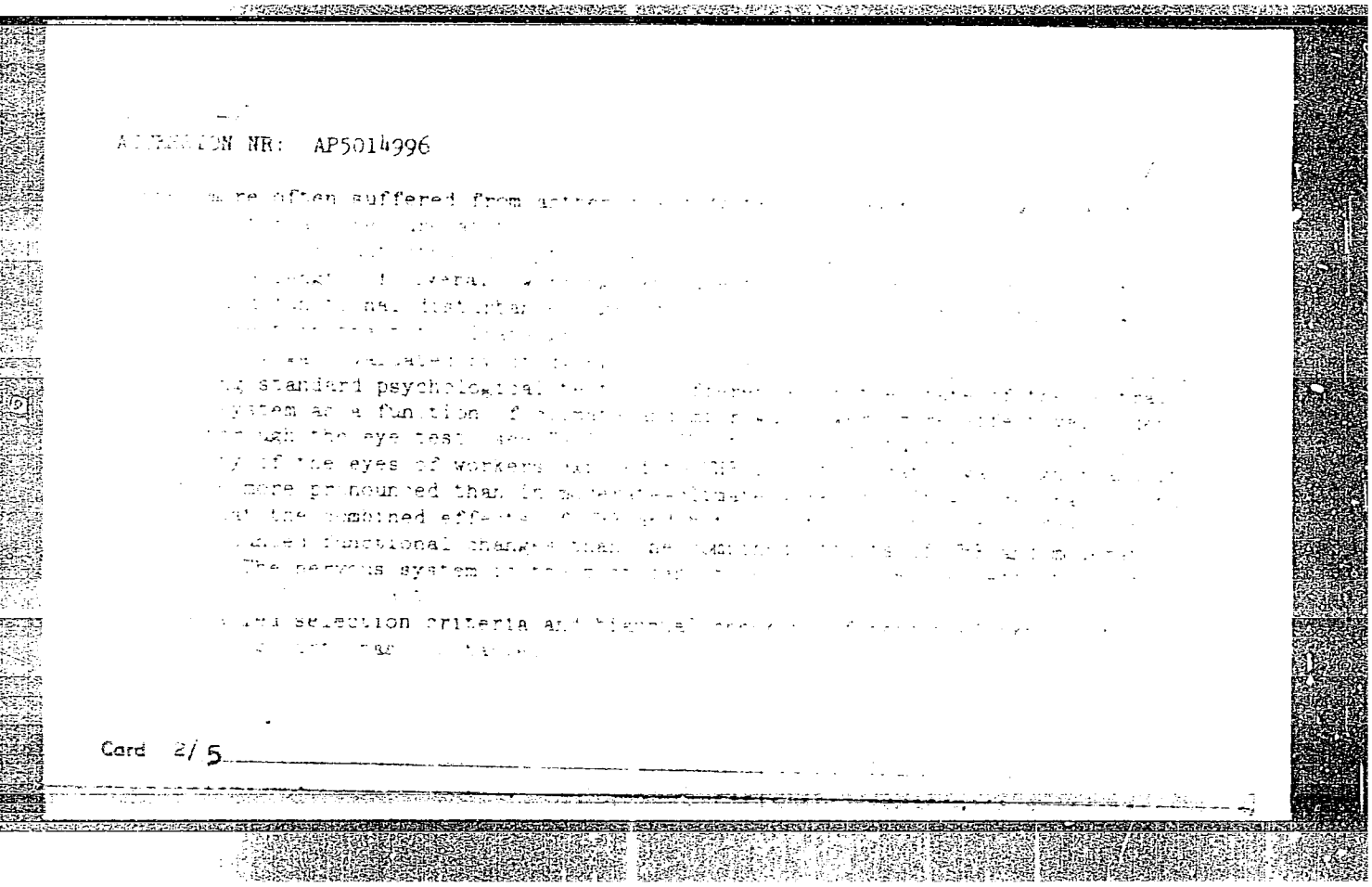
TITLE: The influence of climatic conditions under chronic UHF irradiation

SOURCE: Gigiyena i sanitariya, no. 6, 1965, 18-22

TOPIC TAGS: microwave, UHF, biological effect, climate, CNS, heat

ABSTRACT: The wide use of UHF sources in Aeroflot under varied climatic conditions led the author to investigate the combined effects of various climatic conditions and exposure to UHF on functional responses. The functional condition of 268 people working in a moderate climate (European USSR) and 134 people working in a hot climate [illegible] working exposures [illegible] years. The maximum [illegible] duration of the investigations was [illegible]. In a hot climate, indices of asthenia and autonomic disruptions tend to increase. Diencephalic disruptions were observed [illegible] investigations of the cardiovascular system [illegible]

Card 1/ 5



ACCESSION NR: AP5014996

re often suffered from

standard psychological

system as a function

with the eye test

if the eyes of workers

more pronounced than

the combined effects

visual functional changes

The nervous system

selection criteria

Card 2/ 5

ACCESSION NR: AP5014996

ASSOCIATION: Nauchno-issledovatel'skiy institut grazhdanskogo vozdushnogo flota (Scientific Research Institute of the Civil Air Fleet)

Card 3/5

L 58389-65

ACCESSION NR: AP5014996 ENCLOSURE: 01

Table 1. Frequency of functional shifts in personnel under various climatic conditions

Dullness of heart tone

L 58389-65

ACCESSION NR: AP5014996

ENCLOSURE: 02

Table 2. Electrical sensitivity of the eyes in experimental and control personnel under different climatic conditions

Group	Climate	Electrical sensitivity	
		Before work	After work
Exposed to UHF	Moderate	3.2 ± 0.15	3.6 ± 0.12
	Hot	4.0 ± 0.14	4.8 ± 0.20
Control	Moderate	1.8 ± 0.05	2.0 ± 0.11
	Hot	2.0 ± 0.10	2.3 ± 0.12

ACC NR: AT6036642 SOURCE CODE: UR/0000/66/000/000/0262/0263

AUTHOR: Loshak, A. Ya.

ORG: None

TITLE: Problem of the combined biological effect of x ray and UHF irradiation /Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966/

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 262-263

TOPIC TAGS: ionizing radiation biologic effect, microwave radiation effect, hematopoiesis, central nervous system, radiation protection

ABSTRACT:

Recent Soviet and foreign studies indicate that UHF irradiation of animals decreases their sensitivity to the subsequent effect of lethal doses of ionizing radiation. Thus the possibility of increasing the radioresistance of an organism by combining UHF and ionizing radiation effects was considered.

Card 1/3

ACC NR: AT6036642

In these experiments animals were irradiated with microwaves of nonthermal intensity in the most biologically active range—the decimeter range. (Previous works used thermal or near-thermal microwaves.) A study was made of the influence of preliminary whole-body and local radio-frequency irradiation on the survival rate of animals after x-ray irradiation with $LD_{100/30}$. Three groups of male rats weighing 120—130 g were used. The first two groups of animals were irradiated daily for two hr (for a total of 30 exposures) with pulsed decimeter waves with a power density of 1 mw/cm^2. Whole-body irradiation was conducted in the first group, and local irradiation of the head in the second. The third group served as a control. After the completion of UHF irradiation all rats were subjected to single whole-body irradiation with a 900 r dose of 180-kv x-rays.

Experimental results did not show preliminary microwave irradiation to have any protective effect (with the parameters used): on the contrary, microwaves caused more rapid death of experimental animals than was observed in the controls. No differences could be detected in the survival percentage of rats subjected to whole-body or local UHF radiation. However, the average length of life of animals in these two groups was different. After whole-body UHF irradiation rats lived an average of 11.9 ± 1.0 days, while after local irradiation they lived 17.1 ± 3.2 days (as against 20.8 ± 2.1 days in the control).

Card 2/3

ACC NR: AT6036642

The lethality curve in control rats showed a gradual increase, whereas in experimental rats the percentage of animal deaths increased in stages by the 10th and 16th days after x-ray irradiation (45% and 82% lethality for whole-body UHF irradiation and 41% and 71% after local UHF irradiation, respectively.)

These data show the considerable decrease in resistance of the rat organism to the combined effect of low-intensity decimeter waves and ionizing radiation. This decreased resistance is especially noticeable during whole-body irradiation. This may be explained by the similar direction of morphological and functional changes in organs and tissues (chiefly in the hematopoietic system) occurring under the influence of electromagnetic radiation in the decimeter range and x-ray irradiation. The life spans of experimental animals were characteristic of hematopoietic injury, and thus confirmed this hypothesis. The less-pronounced biological effect of local UHF irradiation is connected with the absence of a direct microwave effect on the hematopoietic organs, especially bone marrow.

Further studies must be conducted to determine the combined effect of radiofrequency fields and ionizing radiation using different types of radiation in various ratios. [W. A. No. 22; ATD Report 66-116]

SUB CODE: 06,18 /-SUBM DATE: 00May66 /

Card 3/3

BOBROV, A.A., DVORETSKIY, A.I., ZELIKMAN, V.G., LOSHAK, B.O., red., SYROMYATNIKOV, I.A., SHUKHER, S.M.; BORUNOV, N.I., tekhn. red.

[Handbook for studying operating regulations for electric power stations and systems] Posobie dlia izucheniia pravil tekhnicheskoi ekspluatatsii elektricheskikh stantsii i setei v semi vypuskakh. Moskva, Gos. energ. izd-vo. Pt. 1. [Transportation and fuel management in electric power plants] Toplivno-transportnoe khoziaistvo elektrostantsii. 1958. 286 p. (MIRA 11:10)
(Electric power plants)

SOV/112-59-1-8

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 1 (USSR)

AUTHOR: Nekrasov, A. M., Loshak, B. O., and Steklov, V. Yu.

TITLE: Forty Years of Soviet Electric Power Engineering

PERIODICAL: V sb.: Energ. str-vo SSSR za 40 let. M.-L., Gosenergoizdat, 1958, pp 7-33

ABSTRACT: Bibliographic entry.

Card 1/1

LOSHAK, B.O., inzh.

New norms for the engineering designs of thermal electric power plants. Elek. sta. 32 no.11:7-10 N '61. (MIRA 14:11)
(Electric power plants)

LOSHAK, B.O., inzh.

Administrative structure and personnel of thermal electric power plants. Energetik 10 no.11:7-10 N '62. (MIRA 15:12)
(Electric power plants—Management)

LOSHAK, B.O., inzh.

Changes in the technological norms in the "New regulations for operating electric networks and power plants. Energetik 9 no.6: 1-4 Je '61. (MIRA 16:7)

(Electric power plants)
(Electric power distribution)

AVRUKH, Abram Yakovlevich; LOSHAK, B.O., red.; LARIONOV, G.Ye., tekhn. red.

[Problems in the production costs of electric and thermal energy] Problemy sebestoimosti elektricheskoi i teplovoi energii. Moskva, Gosenergoizdat, 1963. 303 p. (MIRA 16:8)

(Electric power production--Costs)
(Electric utilities--Rates)

LOSHAK, B.O., inzh.

Planning of the mechanization of repair operations in thermal electric power plants. Energetik 12 no.10:1-4 O '64. (MIRA 17:11)

TEODOROVICH, Ya.; LOSHAK, I., glavnyy mekhanik tresta.

Producing local portland cement. Stroi.mat., izdel.i konstr. 2 no.6:7-9 Je '56. (MLRA 9:8)

1. Upravlyayushchiy stroytrestom No. 98 (for Teodorovich)
(Portland cement)

LOSHAK, I.A., inzh.

Performance of building machinery. Mekh. stroi. 18 no. 1:20-22 Ja '61. (MIRA 14:2)

1. Nachal'nik otdela glavnogo mekhanika i energetika Glavrostovstroya.
(Cranes, derricks, etc.)

YEVDOKIMOV, Yu.A., kand.tekhn.nauk; LOSHAK, I.A., inzh.; SLATIN, V.A., inzh.

Use of nylon sleeve bearings on construction equipment. Mekh. stroi. 19 no.4:20-22 Ap '62. (MIRA 15:9)
(Nylon) (Bearings) (Construction equipment)

L 2443-66 EWT(d)/EWP(h)/EWP(l)

ACCESSION NR: AP5020030 UR/0100/65/000/008/0023/0023
629.1--43

AUTHORS: Loshak, I. A. (Engineer); Beyzym, Ya. T. (Engineer)

TITLE: Tri-axle tractor with trailer of high cross country mobility

SOURCE: Mekhanizatsiya stroitel'stva, no. 8, 1965, 23

TOPIC TAGS: transportation, construction machinery, tractor / MAZ 529B tractor, 2PP 25 semitrailer, YaAZ M206A engine

ABSTRACT: The Konstruktorsko-tekhnologicheskoye byuro (Construction Technology Bureau) of the Rostov Directorate of Construction, Glavsevkavstroy, completed the development and construction of a 25-ton vehicle designed for off-the-road use. The vehicle consists of the single-axle tractor MAZ-529B and the dual-axle semi-trailer 2PP-25 of the Saratov Assembly Factory. The tractor-trailer combination is intended for use in transporting heavy construction equipment. The tractor is powered by the two-stroke, six-cylinder, 180 hp engine YaAZ-M206A. The tractor features a linking device of the fork type and can turn through an angle of 20° to either side of the trailer center line. The trailer has dual transversely balanced axles and a suspension system allowing axle motion in a vertical plane

Card 1/2

L 2443-66

ACCESSION NR: AP5020030

about the horizontal axis. The trailer also features a pneumatic braking system as well as a parking brake on all four sets of rear wheels. A special welded and bolted collar is used to join the trailer to the tractor; a supplementary chain linkage is provided so that the semitrailer may be used with ordinary dual axled tractors. A list of additional characteristics (dimensions, capacity, speed, tire sizes, operating characteristics, etc) of the combination is given. Tests of the vehicle indicate high mobility, reliability, maneuverability, and ease of control. Orig. art. has: 2 photographs.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: GO

NO REF SOV: 000 OTHER: 000

BVK

Card 2/2

SHIMANSKIY, N.K., kand.biologicheskikh nauk; LOSHAK, I.F.; FASTOVETS, L.S.

Effect of fertilizers on the yield and oil content of sunflower seeds. Agrobiologiia no.6:849-853 N-D '61. (MIRA 15:2)

1. Vsesoyuznyy selektsionno-geneticheskiy institut, Odessa.
(Sunflower seed)

LOSHAK, L.N., inzh.

Calculating the machining capacity of machine tools in modernizing industrial equipment. Vest.mash. 41 no.3:78-79 Mr '61. (MIRA 14:3)
(Industrial equipment—Technological innovations)

ACC NR: AP7009128 SOURCE CODE: UR/0413/67/000/003/0117/0117

INVENTOR: Khotyaintsev, N. P.; Loshak, M. G.; Korsakevich, N. I.

ORG: None

TITLE: An installation for impact fatigue testing. Class 42, No. 191187 [announced by the Ukrainian "Order of the Red Banner of Labor" Scientific Research Institute for the Design and Technology of Superhard Synthetic Materials and Tools (Ukrainskiy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy konstruktorsko-tekhnologicheskiy institut materialov i instrumenta)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1967, 117

TOPIC TAGS: test facility, fatigue test, impact test, electric measuring instrument

ABSTRACT: This Author's Certificate introduces a fatigue testing installation which contains an electromagnet with an armature, a block on which this armature acts and a specimen holder. Test productivity is increased and impact duration is controlled by mounting the armature on an elastic suspension and connecting the electromagnet to a source of alternating current with a frequency equal to that of the mechanical system formed by the mass of the armature and the rigidity of the suspension. A flat spring connects the armature to the striking block.

UDC; 620.178.353

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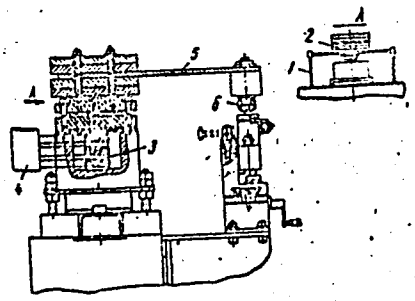
ACC NR: AP7009128



1--elastic suspension; 2--armature; 3--electromagnet; 4--source of alternating current; 5--flat spring; 6--striking block

SUB CODE: 09, 13, 14/ SUBM DATE: 27Nov64

Card 2/2

Loshak, M.Z.

GAVRILICHEV, P.A.; LOSHAK, M.Z.

Attachments used in milling opening of rotary pump wheels. (MIRA 10:12)
Stan. i instr. 28 no.12:33-34 D '57.
(Milling machinery--Attachments)

LOSHAK, M.Z.

AUTHORS: Gavrilichev, P.A. and Loshak, M.Z. 121-4-19/32

TITLE: Special 10-Spindle Head for a Capstan Lathe (Spetsial'naya 10-shpindel'naya golovka dlya revol'vernogo stanka)

PERIODICAL: Stanki i Instrument, 1958, No.4, p. 35 (USSR).

ABSTRACT: A 10-spindle drilling head suitable for attaching to the capstan saves the transfer of a component with 10 holes to a drilling machine. The design is illustrated in cross-section.

There are 3 figures.

AVAILABLE: Library of Congress

Card 1/1

1. Machine tools-Design

SOV/122-58-6-11/37

AUTHORS: Lyubchenko, V.A. and Loshak, M.Z., Engineers

TITLE: Two-stage Pump of Recent Design (Dvukhstupenchatyy nasos novoy konstrukstii)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 6, p 33 (USSR)

ABSTRACT: A new, two-stage pump, developed by the "Gidroprivod" Works in Kharkov, is described with the help of a cross-sectional drawing. The pump consists of: 1) a gear pump stage developing a pressure of up to 20 kg/cm^2, at a delivery of 100 litres/min; 2) a superimposed swash-plate-type plunger pump, developing up to 320 kg/cm^2 at a delivery of 8 litres/min. The pump, designated N-476-202, has a maximum speed of 1 460 rpm and works with industrial mineral oils in the temperature range between 10 and 45 °C.
There is 1 figure.

Card 1/1 1. Pumps--Design

MARAKIN, N.F.; LOSHAK, M.Z.

The N-18 cam-operated plunger pumps used in hydraulic presses. (MIRA 11:12)
Biul.tekh.-ekon.inform. no.11:28-29 '58.
(Hydraulic presses) (Pumping machinery)

BOGDANOV, L.V.; LOSHAK, M.Z.

The ThA-1010-type six-spindle drilling-machine unit. Biul. tekh.-ekon.inform. no.12:29-30 '58. (MIRA 11:12)
(Drilling and boring machinery)

LOSHAK, M.Z.

LOSHAK, M.Z.; OGOBLIN, M.I.

The AP-2 pneumatic grinding machine. Stan.i instr. 29 no.1:20-21 Ja '58. (MIRA 11:1)

(Grinding machines)

GAVRILICHEV, P.A.; LOSHAK, M.Z.

Special ten-spindle heads used in turret lathes. Stan. i instr. 29 no.4:35 Ap '58. (MIRA 11:5)
(Lathes--Attachments)

LOSHAK, M.Z.; MARAKIN, N.F.

Regulated high-pressure plunger pumps. Stan. i instr. 29 no.10: 19-20 O '58. (MIRA 11:11)
(Reciprocating pumps)

FILATOV, R.A., inzh.; LOSHAK, M.Z., inzh.

High-pressure eccentric single-plunger pumps. Vest.mash. 38 no.10:42-43 O '58. (MIRA 11:11)
(Pumping machinery)

YUDIN, I.K.; PLIATOV, R.A.; SHMIDKEIY, V.F.; LOGHAK, H.Z.

Hydraulic jacks used in thin-seam coal mountings. Biul.tekh.-ekon. inform. no.4:6 '59. (MIRA 12:7)
(Coal mining machinery)

MARAKIN, M.F.; LOSHAK, M.[illegible]

The PA-472-101 twin [illegible] for hydraulic press units. Biul.tekh.-ekon. inform. no.4:17-17 '[illegible]. (MIRA 12:7)
(Hydraulic presses)

MARAKIN, N.F.; LOSHAK, M.Z.

The PA-476-001 device for the automatic control of presses. (MIRA 13:3)
Biul. tekh. ekon. inform. no.9:26-27 '59.
(Hydraulic presses) (Hydraulic control)

GOLOVKO, P.T.; LOSHAK, M.Z.

The N P4M-7 piston pumps with electric controlers for broaching machines. Biul. tekh.-ekon. inform. no.10:32-34 '59. (MIRA 13:3)

(Oil hydraulic machinery)
(Broaching machines--Hydraulic driving)

SKRITSKIY, V.Ya.; LOSHAK, M.Z.

The N-518 high-duty piston pump. Biul.tekh.-ekon.inform. no.11:39-40 '59. (MIRA 13:4)
(Oil-hydraulic machinery)

S/193/60/000/002/005/013
A004/A001

AUTHORS: Marakin, N. F., and Loshak, M. Z.

TITLE: The H-451 (N-451) pump for hydraulic presses

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 2, 1960, 14-15

TEXT: The N-451 pump has been designed by the Special Designing Office No.7. A pilot model was fabricated in 1959 at the "Gidroprivod" Plant of the Khar'kov Sovnarkhoz. The pump (see illustration) consists of cast iron casing 1, eccentric shaft 3 mounted on spherical ball bearings 2, coupled by grooved clutch 4 to driving shaft 5 of the auxiliary gear pump. Shaft 3 has two eccentric journals and eccentric sleeve 6 fastened by a key. To compensate for unbalance, three cams are located at an angle of 120° to each other. Needle bearings 7 are mounted on the eccentric journals and on the outer surface of sleeve 6. Cylindrical steel block 8 is fastened to the casing. Plungers 8, ball-type suction valves 10 and delivery valves 11 are placed in the bores of the cylindrical blocks. Gears 12 and 13 suck the oil from the oiltank and deliver it at a pressure of some 3 kg/cm^2 through the suction valves into hollow (a) under the plunger. The design provides for a ball-type safety valve protecting the delivery line of the gear pump from

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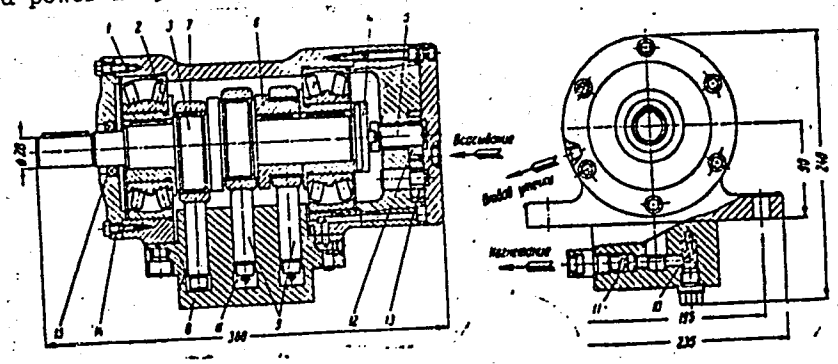
S/193/60/000/002/005/013
A004/A001

The H-451/(N-451) pump for hydraulic presses

excess loads. Cup-shaped seal 15 placed in cover 14 prevents the oil flowing out from the casing. The pump operates on mineral oil of the "Industrial'noye 30" or "45" grades with a temperature range of +10 to +50°C. The pump capacity is 8 l/min, the maximum working pressure 500 kg/cm^2, the shaft speed is 960 rpm, the required power is 9 kw. There is 1 figure.

Figure:



Card 2/2

LOSHAK, M.Z.

Exhibits at the Industrial Exhibition in Hannover. (MIRA 13:8)
Mashinostroitel' no.6:48 Je '60.
(Hannover--Exhibitions)
(Machine tools)

MALICH, F.A.; LOSHAK, M.Z.; POSTERNYAK, Ye.F., inzh., red.; SHILLING, V.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Hydraulic headstock for circular grinding machine] Gidravlicheskaia peredniaia babka dlia kruglosholifoval'nogo stanka. Leningrad, 1961. 7 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Modernizatsiia i remont oborudovaniia, no.3) (MIRA 14:7)

(Grinding machines)

S/193/61/000/001/006/008
A005/A001

AUTHORS: Skritskiy, V.Ya., Loshak, M.Z.

TITLE: Piston Pump of High Pressure

PERIODICAL: Byul. tekhn.-ekon. inform., 1961, No. 1, pp. 38-40

TEXT: The Konstruktorskoye byuro No. 7 (Design Office No. 7) of the Khar'kovskiy sovnarkhoz (Khar'kov sovnarkhoz) constructed and the Khar'kovskiy zavod im. Malysheva (Khar'kov Works im. Malyshev) manufactured in 1960 the three-section piston pump НП3 -001 (NPZ-001) of high pressure, which delivers an operating liquid (mineral oil) into hydraulic systems of various hydraulically operated machines; the pump serves as hydraulic drive of the auxiliary units of the diesel locomotive ТЭ -10 (TE-10). The pump represented by the figure consists of the following main components: the cam shaft 1, the radial roller bearing 2 (No. 42322) on the eccentric cam, two counterweights 3 on the camshaft, the piston groups 4, the valves 5 and 6, the inlet 7, the outlet 8, the throttle 9 of the cooling oil, and the annular grooves a, b, and c. The pump has a welded steel housing; the components of the piston groups are placed in radial bores. The eccentric cam shaft 1 is supported by two radial swivel bearings (No. 3522) mounted in the cast iron

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S/193/61/000/001/006/008
A005/A001

Piston Pump of High Pressure

bearing caps. Two radial roller bearings 2 (No. 42322) are forced on the eccentric cam of the shaft. Two counterweights 3 are mounted on the shaft with feathers; they discharge the radial bearings from centrifugal forces. The pump has 20 pistons of 36 mm and 5 ones of 32 mm diameter distributed in two series. Every piston group 4 has a hollow piston, a bronze ball base, a steel footstep bearing, a spring, a support, a stopper, and a ball retaining valve. The bronze ball base contacts the footstep bearing over a spherical surface, and the roller bearing outer race along a line; the lubrication of the bronze ball is performed by pressure oil from the pressure chamber through openings. The three sections of the pump have the following numbers of pistons: 1) 15 ones of 36 mm in diameter; 2) 5 ones of 36 mm, and 3) 5 ones of 32 mm. The suction and discharge valves, 5 and 6, have equal dimensions and are spring-loaded. The pistons travel to and fro under the action of the springs and the oil pressure of 2-3 atm and under the action of the roller bearings respectively. Oil circulates through the pump crankcase cooling the rubbing components; the amount of the cooling oil is controlled by the throttle 9.

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S/193/61/000/001/006/008
A005/A001

Piston Pump of High Pressure

Technical characteristics of the pump

Operating liquid	industrial oil 20
Permissible oil temperature	from 45 to 50°C
Maximum discharge, among them:	
first section	415 l/min
second section	138 l/min
third section	109 l/min
Maximum number of revolution	850 rpm
Operating pressure	100 kg/cm^2
Power consumed	170 hp
Intake pressure	2-3 kg/cm^2
Total efficiency	0.9
Weight	480 kg

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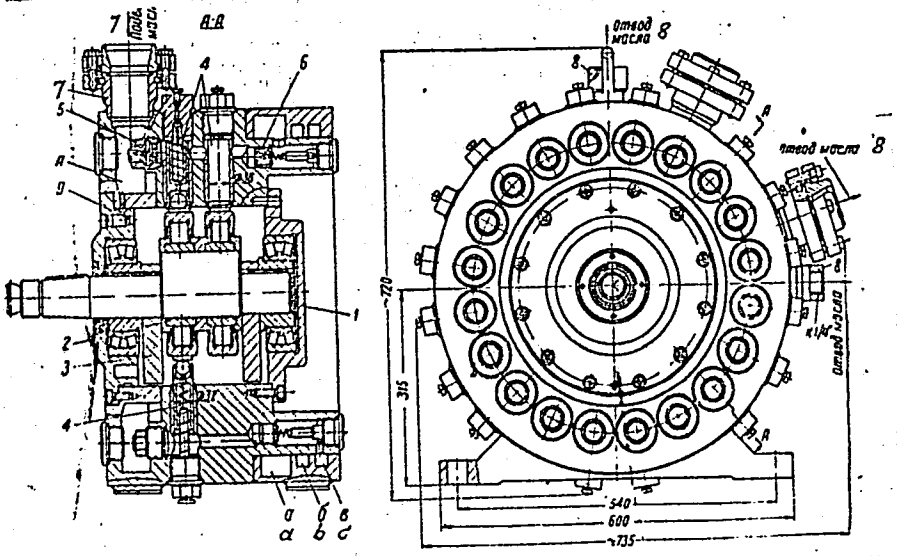
S/193/61/000/001/006/008
A005/A001

Piston Pump of High Pressure

Figure:

Three-sectional high-pressure pump



There is 1 figure.

Card 4/4

LOSHAK, M.Z.; MARAKIN, N.F.

The NP-80 high-pressure pump. Biul.tekh.ekon.inform. no.5:31-33 '61. (MIRA 14:6)
(Pumping machinery)

S/193/61/000/012/002/005
A004/A101

AUTHORS: Golovko, P. T., Loshak, M. Z.

TITLE: НПД-400 М (NPD-400M) high-pressure pump

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 12, 1961, 28-29

TEXT: The authors report on the NPD-400M high-pressure pump developed by one of the Designing Offices of the Khar'kov Sovnarkhoz and built at the "Gidropravod" Plant in 1960. The pump is intended for pressing pure mineral oil into the hydraulic drive systems of presses, machine tools and other machines which require an automatic change in capacity depending on pressure variations in the hydraulic system at a constant oil flow direction. The NPD-400M pump assembly consists of the main radial piston pump, auxiliary gear pump, safety valves and mechanism for automatic capacity change depending on the hydraulic system pressure. The authors present a brief description of the pump units and state the following technical specifications: rated capacity: at 200 kg/cm^2 pressure - 100 liter/min, at 100 kg/cm^2 pressure - 400 liter/min; rated pressure - 100-200 kg/cm^2; rated speed - 960 rpm; drive power - 60 k ; effective efficiency - 72%; gear pump capacity - 80 liter/min; valve adjustment of gear pump - 8-10

Card 1/2

НПД-400 М (NPD-400M) high-pressure pump

kg/cm^2; valve adjustment of piston pump - 220 kg/cm^2; suction height - 0.5 m; weight - 1,900 kg. The NPD-400 M pump assembly operates on mineral oil of 3 - 8°E_{50} viscosity at an oil temperature in the range of +10 to +50°C. There is 1 figure.

Card 2/2

MARAKIN, N.F., inzh.; LOSHAK, M.Z., inzh.

New design for hydraulic drive on the AT-3 asbestos-cement pipe-molding machine. Stroi. i dor. mash. 6 no.9:28-31 S '61. (MIRA 14:10)
(Molding machines--Hydraulic drive)
(Pipe, Asbestos-cement)