KREPKOGORSKIY, L.N., dots.

Some questions in hygienic aspects of surface runoff in central Kazakhstan. [with summary in English]. Gig.i san. 23 no.6:6-10 Je '58 (MIRA 11:7)

1. Iz kafedry gigiyeny Kazanskogo instituta usoverhenstvovaniya vrachey imeni V.I. Lenina.
(WATER SUPPLY,
in Russia, hyg. evaluation of surgace water (Rus))

VYLEGZHANIN, N.I., dotsent (Kazan'); KREPKOGORSKIY, L.N., dotsent (Kazan')

"Pollution of the atmospheric air by carcinogenic substances" by L.M. Shabad, P.P. Dikun. Reviewed N.I. Vylegzhanin. Kaz. med. zhur. no. 4:93-96 Jl-Ag '60. (MIRA 13:8)
(AIR--POLLUTION) (CARCINOGENS) (SHABAD, L.M.) (DIKUN, P.P.)

KREPKOGORSKIY, L.N.

Fluorine in the surface waters of Kazakhstan. Gidrokhim. mat. 30:32-42 '60. (MIRA 13:9)

1. Kafedra gigiyeny Kazanskogo gosudarstvennogo instituta usovershenstvovaniya vrachey im.Lenina.
(Kazakhstan--Water--Composition) (Fluorine)

KREPKOGORSKIY, L.N., otv. red.; EPSHTEYN, T.D., red.; MUKHUTDINOV, I.Z., red.; STANKEVICH, Ye.F., red.; PETUKHOV, N.I., red.; OVRUTSKIY, G.D., red.

[Transactions of the Conference on Problems in Studying the Water Resources of the Tatar A.S.S.R. and the Hygiene of Water Supply] Trudy Nauchnoi konferentsii po voprosam izucheniia vodnykh resursov TASSR i gigieny vodosnabzheniia. Kazan', Kazanskii in-t usovershenstvovaniia vrachei im. V.I.Lenina, 1964. 106 p. (MIRA 18:5)

1. Nauchnaya konferentsiya po voprosam izucheniya vodnykh resursov TASSR i gigiyeny vodosnabzheniya, Kazan', 1963. 2. Kazanskiy Gosudarstvennyy institut dlya usovershenstvovaniya vrachey im. S.M.Kirova (for Krepkogorskiy). 3. Zaveduyushchiy Kafedroy terapevticheskoy stomatologii Kazanskogo meditsinskogo instituta (for Ovrutskiy). 4. Geologicheskiy institut AN SSSR, gorod Kazan' (for Stankevich). 5. Kafedra obshchey gigiyeny Kazanskogo Meditsinskogo instituta (for Petukhov).

KREPKOGORSKIY, S.S., inzh.; GOLOVANOV, A.L., inzh., red.; KHITROV, P.A., tekhn.red.

[Vertical vibrations in the truck structure of rolling stock and their effect on the track] Vertikal'nye kolebaniia nadressornogo stroeniia podvizhnogo sostava i vliianie ikh na put'. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 170 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.152) (MIRA 11:7)

(Railroads--Rolling stock) (Railroads--Track)

ALEKSEYEV, M.V.; VERIGO, M.F., prof.; YERSHKOV, O.P.; KREPKOGORSKIY, S.S.; FILIPPOVA, L.S., red.; GROMOV, Yu.V., tekhn. red.

[Evaluating the action of present-day diesel and electric locomotives on track] Otsenka vozdeistviia na put' sovremennykh elektrovozov i teplovozov. [By] M.V.Alekseev i dr. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 42 p. (MIRA 15:3)
(Railroad engineering)

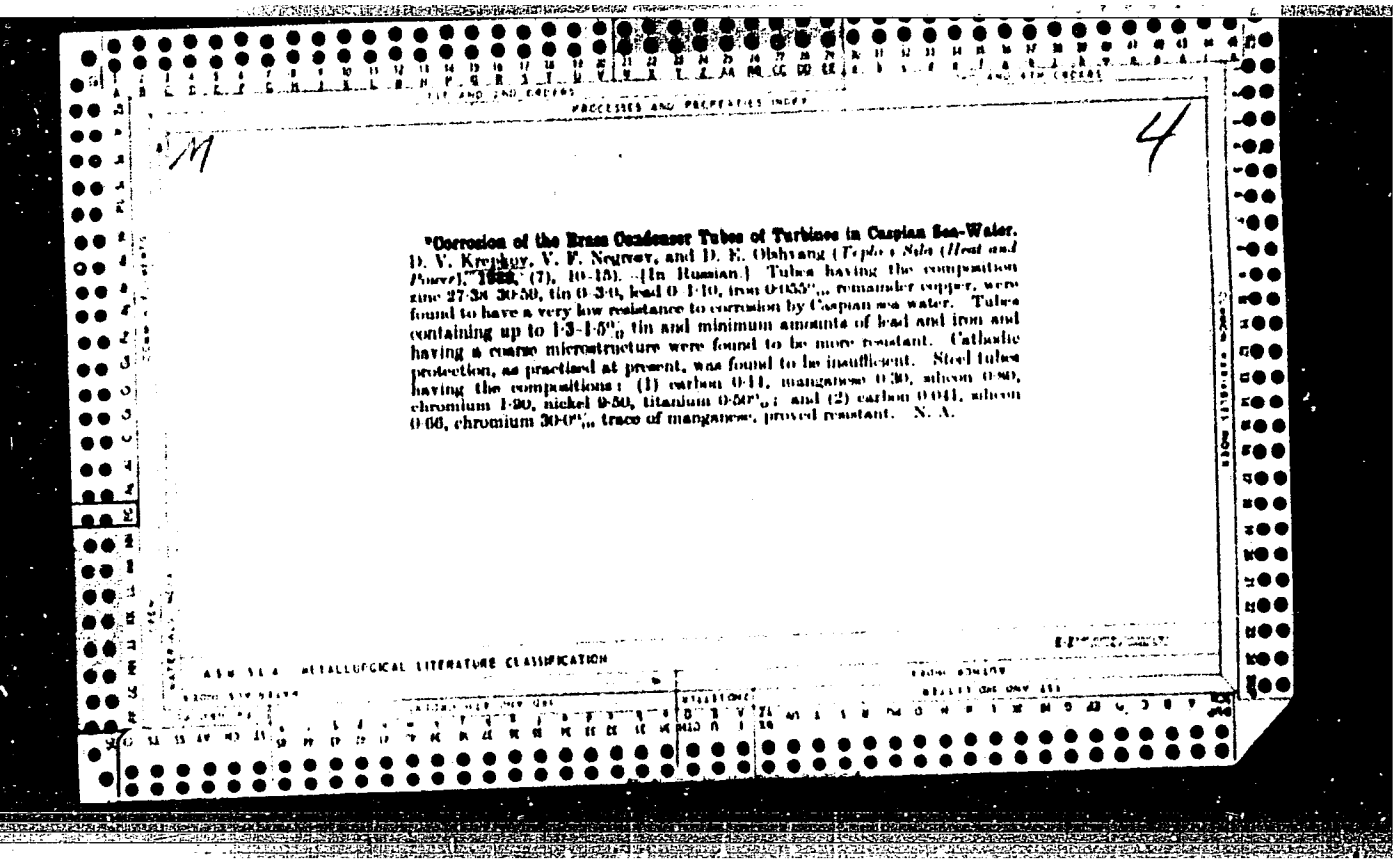
ANDRIYEVSKIY, S.M., kand.tekhn.nauk; ZOL'NIKOV, S.S., kand.tekhn.nauk; KISELEV, A.I., inzh.; KOROLEV, K.P., doktor tekhn.nauk, prof.; KRYLOV, V.A., kand.tekhn.nauk; SHESTAKOV, V.N., kand.tekhn.nauk; VERIGO, M.F., doktor tekhn.nauk; KREPKOGORSKIY, S.S., kand. tekhn.nauk; IVANOV, V.V., doktor tekhn.nauk, retsenzent; ORLOVA, I.A., inzh.red.; VOROB'YEVA, L.V., tekhn.red.

[Truck-type locomotive underframes for high-speed traffic] Telezhechnye ekipazhi lokomotivov dlia povyshennykh skorostei dvizheniia. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1962. 303 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodorozhnogo transporta. Trudy, no.248). (MIRA 16:2)
(Locomotives--Design and construction)
(Railroad engineering)

MEKHTIYEV, R.A., inzh.; KRAPKOV, A.D., inzh.

Friction welding of the connecting ends of drill pipes. Svar. proizv. no.12:20-22 D '65. (MIRA 18:12)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut neftyanogo mashinostroyeniya.



"Corrosion of the Brass Condenser Tubes of Turbines in Caspian Sea-Water. D. V. Kreyhur, V. F. Negrev, and D. E. Olshvang (*Teploe Delo* (*Heat and Power*), 1958, (7), 10-15). (In Russian.) Tubes having the composition zinc 27-38 30-50, tin 0-3-0, lead 0-1-10, iron 0-055%, remainder copper, were found to have a very low resistance to corrosion by Caspian sea water. Tubes containing up to 1·3-1·5% tin and minimum amounts of lead and iron and having a coarse microstructure were found to be more resistant. Cathodic protection, as practised at present, was found to be insufficient. Steel tubes having the compositions: (1) carbon 0·11, manganese 0·30, silicon 0·80, chromium 1·90, nickel 0·50, titanium 0·50%; and (2) carbon 0·041, silicon 0·66, chromium 30·0%, trace of manganese, proved resistant. N. A.

KREPKOV, D.V.

ABDULLAYEV, M.A., kandidat tekhnicheskikh nauk; KREPKOV, D.V., kandidat tekhnicheskikh nauk; PETROSYAN, V.A., kandidat tekhnicheskikh nauk; KHAIME, F.G., kandidat tekhnicheskikh nauk; UDALYY, A.M., redaktor; MEKHRALIYEV, K.M., tekhnicheskiy redaktor.

[New friction surface and its use in deep well pumps] Novaia poverkhnost' treniia i ee primenenie v glubinnom nasose. Baku, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, Azerbaidzhanskoe otd-nie, 1953. 28 p. (MIRA 8:4)
(Surfaces) (Oil well pumps)

SOV/137-57-6-10914

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 216 (USSR)

AUTHORS: Buzdakov, A. P., Vlasova, T. Kh., Krepkov, D. V., Shanina, T. M.

TITLE: The Corrosion of Iron in Sea Water (O korrozii chuguna v morskoy vode)

PERIODICAL: Tr. Azerb. n.-i. in-t po dobyche nefti, 1955, Nr 2, pp 414-419

ABSTRACT: Results are presented of tests of several grades of iron (I) subjected to the action of sea water (Caspian) for the purpose of checking their corrosion strength. In all 11 samples were tested. Corrosion strength is determined by difference in weight before and after the experiment. The experiments are conducted with total immersion in sea water and in the splash zone above the water. The following conclusions are drawn from the tests: Austenitic I of the Ni-resist type shows the highest corrosion strength (13-14 times as high as that of steel); followed by 0.41% Ni I, having 5 times the corrosion strength of steel. Next comes I with small additions of Cu and Al which is 2-3 times as resistant as steel. Inoculated I is 50% more corrosion-resistant in sea water than steel. On total immersion in sea water, ordinary gray I displays the same corrosion resistance as carbon steel.

Card 1/1

Yu. R.

KREPKOV, D.V.

SUBJECT: USSR/Welding 135-5-13/14

AUTHORS: Krepkov D.V., Engineer, Khaime F.G., Engineer and Buzdakov A.P. Engineer.

TITLE: "ГОСТ 6996-54" and the "Rules for Examining Welders" Need Revision! (Peresmotret' ГОСТ 6996-54 i "Pravila ispytaniya svarshchikov!")

PERIODICAL: Svarochnoye Proizvodstvo", 1957, # 5, p 29 (USSR)

ABSTRACT: The standard "GOST 6996-54"-"Methods for Testing Welding Seams" and the "Rules for Examining Welders" issued in 1954 by the "Gosgortekhnadzor" contradict each other in several points, contain many errors and by far do not satisfy all requirements of industrial testing welding seams. The contradictions cause great confusion in testing welded connections.

The article contains some examples of contradictions and some requirements which practically annot be satisfied.

Comparing the "GOST" standard with the "Rules" it may be found that according to "GOST" butt welds of tubes with a wall thickness of 6 mm and less are to be tested as a whole, and accord-

Card 1/3

TITLE: "ГОСТ 6996-54" and the "Rules for Examining Welders" Need Revision! (Peresmotret' ГОСТ 6996-54 i "Pravila ispytaniya svarshchikov!")

ing to the "Rules", butt welded tubes of a wal' thickness up to 6 mm are to be tested as a whole.

Actually the testing of butt welds of tubes is governed not by the wall thickness but by the diameter of the tubes. However, it must be admitted that butt welds of thin-walled tubes (4-5mm) of great diameters have to be tested, yet none of the available testing machines has grips for tubes with more than 70 mm diameter. At the same time the powerful testing machines permit to perform tests of butt welds of small-diameter tubes with any wall thickness. In addition there are tubes of small diameter with a wall thickness exceeding 6 mm. According to the "Rules", samples must be cut from the butt welds of these tubes (because of the wall thickness requirement) which have to be machined to rectangular shape according to the test specifications which is practically impossible.

The editors of "Svarochnoye Proizvodstvo" support the statements made by the authors and ask the readers to give

135-5-13/14

TITLE: "ГОСТ 6996-54" and the "Rules for Examining Welders" Need Revision! (Peresmotret' ГОСТ 6996-54 i "Pravila ispytaniya svarshchikov!"

their views.

ASSOCIATION: Azerbaydzhan Research Institute for Exploitation of Oil Fields.

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 3/3

AKHUNDOV, B.M.; MERKOVICH, S.Sh.; BUZDAKOV, A.P.; KREPKOV, D.V.; MANAKHOVA, T.Kh.; NEGREYEV, V.F.

Industrial testing of lift well tubing zinc coated by the thermal diffusion process. Trudy AzNII DN no.6:240-246 '57. (MIRA 12:12)

(Zinc) (Pipe)

AUTHORS: Buzdakov, A.P., Krepkov, D.V. SOV-128-58-8-16/21

TITLE: The State Standard for Casting Gray and Modified Iron (O GOSTe na otlivki iz serogo i modifitsirovannogo chuguna)

PERIODICAL: Liteynoye proizvodstvo, 1958, Nr 8, pp 22-23 (USSR)

ABSTRACT: The State Standard, GOST 1412-54, for gray and modified iron, is based on the resistance values obtained in stretching and bending tests. The checking of the test results has shown that the bending resistance in cast iron type SCh 21-40 is 7-13 kg/mm^2 higher than in the State standard, in type SCh 24-44 - 510, in SCh 28-48 - 46 kg/mm^2.

1. Cast iron--Specifications 2. Cast iron--Properties

Card 1/1

BUZDAKOV, A.P.; KREPKOV, D.V.

Causes of the breakdown of a bucket-crane bridge. TSement 26 no.4:21-25 Jl-Ag '60. (MIRA 13:11)
(Cranes, derricks, etc.)

L 48582-65 EWT(m)/EPF(c)/EPF(n)-2/T/EWP(t)/EWP(b)/EWA(c) Pr-4/Pu-4 IJP(c)
JD

ACCESSION NR: AP5008653 S/0064/65/000/003/0201/0203

AUTHOR: Kurdyumov, G. M.; Molochko, V. A.; Krepkov, P. N. 36 B

TITLE: Study of the distribution of admixtures of arsenic and phosphorus in the case of the directional crystallization of germanium tetrachloride

SOURCE: Khimicheskaya promyshlennost', no. 3, 1965, 201-203

TOPIC TAGS: arsenic, phosphorus, crystallization, germanium, germanium compound, directional crystallization

ABSTRACT: The distribution of phosphorus and arsenic impurities in directional crystallization of germanium tetrachloride (freezing point -49.5°C) was studied using the radioactive tracer method. The selection of these impurities was based first of all on their effect on the semiconductor properties of germanium and also on the probability of their presence in noticeable amounts in the initial product, this being especially true of arsenic. The radioactive tracers used were phosphorus-32 (half-life of 14.3 days) in the trichloride form and arsenic-76 (half-life of 26.8 hours) in the form of arsenic anhydride. Germanium tetrachloride containing $P^{32}Cl_3$ or $As^{76}Cl_3$ was poured into a polyethylene container which was then

Card 1/2

L 48582-65

ACCESSION NR: AP5008653

sealed. The container was lowered at a rate of 2.5 cm/hr into a narrow copper beaker filled to the top with acetone and placed in a Dewar flask containing a mixture of dry ice and acetone. In order to create the nucleus for crystallization the lower part of the container was immersed in liquid nitrogen before conducting the directional crystallization. Upon completion of the process the ingot of germanium tetrachloride in the container was extracted from the refrigerating agent, cooled again in liquid nitrogen, and cut into equal parts. The latter were placed in fluoroplastic vessels; after the germanium tetrachloride melted and reached room temperature, the activity was measured; In the test the phosphorus and arsenic were forced into the upper end of the ingot, this being the case especially with the phosphorus (and also of a series of other impurities including the chlorides of Ca, Mg, Fe, and Al). Orig. art. has: 2 figures, 7 equations.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: 88, IC

NO REF SOV: 005 OTHER: 002

Card 2/2

KREPL, A.

DPX 4 hydraulic brake. p. 196.

Improvement and adjustment of combines. p. 197.

Vol. 6, no. 10, May 1956

SBORNIK. RAD A MECHANISACE A ELETRIFIKACE ZEMEDELSTVI A LESNICTVI

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 11 Nov. 1956

USSR / General Problems of Pathology. Shock. U-4

Abs Jour : Ref Zhur - Biol., No. 10, 1958, No 46759

Author : Krepogorskiy, A. S.; Balandina, A. I.
Inst : Stalingrad Institute of Medicine.
Title : Traumatic Shock and Its Control in the Light of I. P. Pavlov's Teachings.

Orig Pub : Sb. nauchn. rabot teor. i klinich. kafedr Stalingr. med. in-ta, Stalingrad, 1956, 110-123.

Abstract : No abstract.

Card 1/1

KREPOSTYAK, N.S. (Sokolovka, Vinnitskoy obl.)

Reflected pains in suppurative processes of the lungs. Vrach. delo, no.5:533 My'58 (MIRA 11:7)
(LUNGS-ABSCESS)

KREPOV, D.V., inzhener; KHAIME, F.G., inzhener; BUZDAKOV, A.P., inzhener.

The All-Union State Standard 6996-54 and "Rules for testing welder" should be revised. Svar. proizv. no.5:?9 My '57. (MLRA 10:6)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.
(Electric welding--Equipment and supplies--Standards)

KREPOV, M., kapitan

Composition and organization of an American infantry division; survey of the foreign military press. Voen.vest. 33 no.4:77-81 Ap '54. (MIRA 12:3)

(United States--Army--Infantry)

STUCHEVSKIY, M.; KREPS, A.S., otvetstvennyy redaktor; SAL'MONT, I.P., redaktor; PRUMKIN, P.S., tekhnicheskiy redaktor

[Estimating costs in ship building] Planirovanie sebestoimosti v sudostroenii. (Leningrad] Gos. izd-vo sudostroitel'noi lit-ry, 1951. 90 p. (MLRA 8:7)

(Shipbuilding--Costs)

KREPS, Abram Samoylovich; DORMIDONTOV,F.K., redaktor; KAMOLOVA,V.M., tekhnicheskiy redaktor

[Economics of shipbuilding] Ekonomika sudostroitel'noi promyshlennosti. Leningrad, Gos.soiuznoe izd-vo sudostroitel'noi promyshl,1955. 227 p. (MLRA 9:2)
(Shipbuilding--Costs)

KREPS, Abram Samoylovich; BORKHERT, V.V., kand.ekonom.nauk, nauchnyy red.; MISHKEVICH, G.I., red.; SHISHKOVA, L.M., tekhn.red.

[Economics of the shipbuilding industry] Ekonomika sudostroitel'noi promyshlennosti. Izd.2., perer. pod red. V.V.Borkherta. Leningrad. Gos.soiuznoe izd-vo sudostroit.promyshl., 1959. 235 p. (MIRA 13:3)

(Shipbuilding) (Economics)

KREPS, B.A.

Universal electrocardiographic ruler. Vrach.delo no.8:857-859 Ag '59.
(MIRA 12:12)

1. Baltskaya rayonnaya bol'nitsa Odesskoy oblasti i fakul'tetskaya terapevticheskaya klinika (zav. - zasluzhenny deyatel' nauki, prof. M.A. Yasinovskiy) Odesskogo meditsinskogo instituta.
(ELECTROCARDIOGRAPHY--EQUIPMENT AND SUPPLIES)

KREPS, B. I.

USSR/Metals - Plating, Testing Dec 50

"Measuring the Thickness of Electroplated Coatings by Electrical Method," S. S. Palley, B. I. Kreps

"Zavod Lab" No 12, pp 1442-1445

Describes new electromagnetic thickness-measuring instr based on measuring secondary emf with application of control plate. Device permits highly precise detn of any thickness of coating (except nickel) from 2 to 60 microns. Error does not exceed 2 microns. Each measurement takes 1-2 sec.

182T87

KREPS, B.L.

KALASHNIKOV, V.P., professor; KREPS, B.L., kandidat farmatsevticheskikh nauk

"Factory-compounded pharmaceuticals" by P.V.Ogorodnikov, A.M. Preobrazhenskii [deceased]. Reviewed by V.P.Kalashnikov, B.L.Kreps. (MIRA 10:11)
Apt.delo 6 no.5:91-94 S-O '57.
(PHARMACY) (OGORODNIKOV, P.V.)
(PREOBRAZHENSKII, A.M.)

KREPS, E.; KYHLICKA, E.; PROCHAZKA, J.

The relocation of a road in the area of Lipno Dam.

P. 4, (Silnice) Vol. 6, no. 7/8, July/Aug. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

KREPS, E.M.

Science and prosperity of mankin. Mir nauki no.3/4:31-37 '60. (MIRA 14:10)
(Science and civilization)

[illegible], S. M.

36354 O morozoboyakh shirokolistvennykh derev'yev zimoy 1939-40 god. nauch. Metod zapiski (Sovet ministrov rsfsr, rsfsr, Glav. Upr. po zapovednikam.) Vyp. 12, 1949, S. 248-65

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

Kreps, Grigoriy Rodionovich

KREPS, Grigoriy Rodionovich; MYASNIKOV, A.A., spets.red.; KVELCH, N.Ye., red.; TSIRUL'NITSKIY, M.P., tekhn.red.

[The technology of chemical cleaning and dyeing of clothes] Tekhnologiia khimicheskoi chistki i perekrashivaniia odezhdy. Moskva, Vses.koop.izd-vo, 1957. 315 p. (MIRA 11:2)
(Cleaning) (Dyes and dyeing)

LASAR, L.; MAROS, T.; KREPS, I.

Structural changes of the nerve fibers and endings under the influence of roentgen rays. Rev. sci. med. 5 no.3/4:195-198 '60.
(PERIPHERAL NERVES radiation eff.)
(RADIATION EFFECTS experimental)

AUNAPU, I. F. (KREPS-AUNAPU, I. F.)

AUNAPU, I. F. (KREPS-AUNAPU, I. F.) "Prognosis of the Anticipative Development of Diseases of Potatoes and of Cabbage," in Prognosis of the Anticipative Development of the Most Prominent Pests and Diseases Expected to Damage Field Crops and Forests in 1935 Institute of Plant Protection, Leningrad, 1935, pp. 123-129. 464 L54

SO: SIRA, SI 90-53, 15 Dec. 1953

KONRAT-AUNAPU, I. F.

Prognosis of the Anticipative Development of Diseases of Potatoes and of Cabbage

Bibliography from
(Soviet Publications in Plant Pathology and Closely Related Fields)

SO: Institute of Plant Protection, Leningrad, No. 159, P. 109, 1935

AUNAPU, I. F. (KREPS-AUNAPU, I. F.)

AUNAPU, I. F. (KREPS-AUNAPU, I. F.) "Vegetable Diseases in 1935," in

The Principal Pests and Diseases of Crop Plants in the U.S.S.R, Institute of

Plant Protection, Lenin Academy of Agricultural Sciences, Leningrad, 1936

pp. 297-313 464 L542

SO: SIRA, SI 90-53, 15 Dec. 1953

KREPS-AKHAPU, I. F.

Kreps-Ahhap, I. F. - "The comparative fl... of the vapors of some ketones of the aliphatic series and ethyl acetate" In symposium: Issledovaniya [illegible] prom. toksikologii, Leningrad, 1948, p. 189-97 - Bibliog: 9 items

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. [illegible], 19[illegible]).

KRUPE-ANNAIU, I. F.

Krupe-Annaiu, I. F. - "Local effect of certain ketones of the aliphatic series and ethyl acetate," In the book: Issledovaniya v oblasti prom. toksikologii, Leningrad, 19[illegible], p. 19[illegible]-23[illegible] - Bibliog: [illegible] items

SO: U-3[illegible], 19 July [illegible], (Letopis 'Zhurnal 'nykh Statey, No. [illegible], 19[illegible]).

KREPS, I. F.

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Biological Chemistry

Action of antimony trioxide on the organism. I. V. Gadaskina, N. S. Dobryakova, I. F. Kreps, E. I. Lyubina, and Z. K. Pavlova (Sci. Research Inst. Ind. and Occupational Hyg., Leningrad). *Gigiena i Sanit.* 1953, No. 10, 24-7.—Expts. with rabbits and observations on human cases show that Sb_2O_3 is a toxic substance whose content in the atm. cannot exceed thousandths of mg. per/l. or less. Toxic effects are evident after prolonged inhalation of air contg. hundredths of mg./l. Skin deformations are among the symptoms of intoxication. G. M. Kosolapoff

LAZAREV, N.V.; ALEKSANDROV, I.S.; LYUBLINA, Ye.I.; AKKERBERG, I.I.; ZAKA-BUNINA, M.S.; GADASKINA, I.D.; DOBRYAKOVA, N.S.; KREPS, I.F.; KARASIK, V.M.; LEVINA, E.N.; DANISHEVSKIY, S.L.; YEGOROV, N.M.; RYLOVA, M.L., starshiy nauchnyy sotrudnik; KAHPOV, B.D.; ANDREYEV, V.V.; LYKHINA, Ye.T.; ZAMESHAYEVA, G.I.; ANISIMOV, A.N.; FRIDLYAND, I.G.; DANETSKAYA, O.L.; BOGOVSKIY, P.A.; TIUNOV, L.A.; MIKHEL'SON, M.Ya.; ABRAMOVA, Zh.I., GRIGOR'YEVA, L.M.; KLINSKAYA, K.S.

Third Leningrad conference on the problems of industrial toxicology. Farm.i toks. 16 no.2:59-62 Mr-Ap '53. (MLRA 6:6)
(Poisons)

AUTHOR: Kreps, L.I., Candidate of Technical Sciences and Dotsent.

TITLE: Investigation of the operation of a free-piston diesel-compressor. (Issledovaniye raboty svobodnoporshnevogo dizel'-kompressora.) 114-6-5/11

PERIODICAL: "Energomashinostroenie" (Power Generation Machinery Construction) 1957, Vol.3, No.6, pp. 15 - 19 (U.S.S.R.)

ABSTRACT: Free-piston engines are classified into two types: diesel compressors and gas generators. The usual applications and principles of operation are described with diagrams. A Soviet-produced free-piston diesel compressor type ДК-2 is described. It is a horizontal four-stage compressor with an output of 8 litres/minute (related to a compressed air temperature of 30 °C and an output pressure of 230 kg/cm^2). The fuel consumption is 8.8 kg/hour. The overall dimensions are length 2 630 mm, width 890 mm, height 860 mm. The dry weight is 650 kilograms. The construction is described and illustrated with a sketch. The engine is started by compressed air. The main conditions of the working process are tabulated.

The main test conditions are tabulated. Two independently controlled parameters were selected to determine the operating conditions of the diesel compressor. These were the amount of fuel supplied to the cylinder and the final pressure of compressed air. It is shown that the length of

Card 1/2

Investigation of the operation of a free-piston diesel-compressor. (Cont.) 114-6-5/11

stroke of the pistons is determined by the fuel supply and hardly depends on the air pressure. The rate of working (number of strokes a minute) is determined by the air pressure and hardly depends on the fuel supply. The output of the compressor reduced to n.t.p. is mainly governed by the fuel supply and hardly depends on the pressure. A graph is given of the change in piston travel and output of the compressor as a function of fuel supply. A graph is given of the relationship between the number of strokes per minute and the output pressure for all stable load conditions. Speed/time curves are given for the piston. Finally, a graph is given of the combined output characteristics of the compressor for various speed and load conditions as a function of the fuel consumption.

There are 6 figures and no literature references.

AVAILABLE:

Card 2/2

KREPS, L.I., kand. tekhn. nauk, .dots.

Kinematics and dynamics of free-piston engines. Vest. mash. 37 no.8: 8-14 Ag '57. (MLRA 10:9)
(Compressors) (Gas turbines) (Diesel engines)

LENIN, Igor' Mikhaylovich, prof., doktor tekhn. nauk; BOLTINSKIY, N.V., prof., retsenzent; D'YACHENKO, N.Kh., dots., kand. tekhn. nauk, retsenzent; GRIBANOV, V.I., dots., kand. tekhn. nauk, retsenzent; KREPS, L.I., dots., kand. tekhn. nauk, retsenzent; NARBUT, M.V., dots., kand. tekhn. nauk, retsenzent; ALEKSEYEV, V.P., kand. tekhn. nauk, red.; NAKHIMSON, V.A., red. izd-va; MODEL' B.I., tekhn. red.

[Theory of automobile engines] Teoriia avtomobil'nykh dvigatelei. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 270 p. (MIRA 11:10)

1. Deystvitel'nyy chlen Akademii sel'skokhozyaystvennykh nauk (for Boltinskiy).

(Automobiles--Engines)

KREPS, L.I., kand.tekhn.nauk

Parameters of the working cycle of a free-piston engine. Energomashinostroenie 4 no.3:1-5 Mr '58. (MIRA 11:5)
(Free piston engines)

KREPS, L.I., kand. tekhn. nauk

Investigating the pressure process, power balance, and efficiency in free-piston diesel compressors. Energomashinostroenie 4 no.10:18-23 O '58. (MIRA 11:11)
(Compressors)

KOSHKIN, V.K., doktor tekhn. nauk, prof.; MAYZEL', L.M., kand. tekhn. nauk; CHERNOMORDIK, B.M., kand. tekhn. nauk; KREPS, I.I., kand. tekhn. nauk, retsenzent; CHAMOV, A.N., inzh., red.; SMIRNOVA, G.V., tekhn. red.

[Free-piston gas producers for gas-turbine units] Svobodnoporshnevye generatory gaza dlia gazoturbinnykh ustanovok. Moskva, Mashgiz, 1963. 289 p. (MIRA 16:10)
(Gas turbines) (Gas producers)

(A) L 8503-66

ACC NR: AP5028550 SOURCE CODE: UR/0286/65/000/020/0163/0163

AUTHORS: Borisoglebskiy, A. I.; Bulychev, F. V.; Kreps, L. I.; Ryvkin, L. S.; Tsentsiper, M. L. 44,55 44,55 44,55 44,55 44,55

ORG: none

TITLE: Accumulating fuel pump. Class 46, No. 166199

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 163

TOPIC TAGS: engine fuel pump, engine fuel system, engine component, internal combustion engine 10,44,55

ABSTRACT: This Author Certificate presents an accumulating fuel pump for internal combustion engines (such as free piston engines). The pump contains a case with coaxially placed cartridges, each of which carries a plunger with curved dosing and conveying rims and a counterplunger connected to the piston of the accumulator. To lower the cost and improve the performance, the counterplunger is provided with an internal cutoff duct connecting the aperture between the plungers to the low pressure zone through a duct in the plunger. The plunger may also contain a duct for feeding fuel to the atomizer.

SUB CODE: 21/ SUBM DATE: 16Jun62

Card 1/1 UDC: 621.43.038.5

L 24004-66 EWT(1)/EWT(m)/EPF(n)-2/T/ETC(m)-6 WW/DJ/WE

ACC NR: AP6009921 (A) SOURCE CODE: UR/0413/66/000/004/0116/0117

AUTHOR: Shneyerov, V. S.; Kreps, L. I.

ORG: none

TITLE: An accumulative fuel pump for internal combustion engines. Class 46, No. 179123 [announced by Central Scientific Research and Design Institute of Fuel Systems for Automotive and Stationary Engines (Tsentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut toplivnoy apparatury avtotraktornykh i statsionarnykh dvigateley)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 116-117

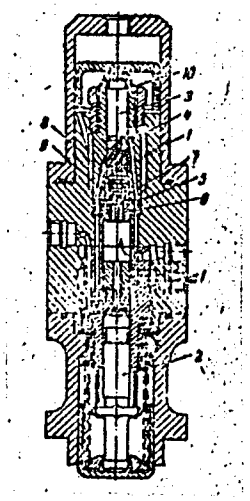
TOPIC TAGS: engine fuel system, engine fuel pump, internal combustion engine component

ABSTRACT: This Author's Certificate introduces an accumulative fuel pump for internal combustion engines based on Author's Certificate No 166199. The pump contains coaxial sleeves with a piston and a counterpiston which has a metering channel and a washer located between the sleeves with a connecting channel. The design is simplified and the reliability is improved by provision for a metering valve in the connecting channel. The counterpiston has throttling slots for connecting the accumulation cavity to the metering channel so that the cross sections of the damping slots are gradually reduced as the counterpiston is seated.

Card 1/2 UDC: 621.43.038.5

L 24004-66

ACC NR: AP6009921



1--sleeves; 2--piston; 3--counterpiston; 4--metering channel; 5--washer; 6--connecting channel; 7--metering valve; 8--throttling slot; 9--accumulation cavity; 10--piston seat.

SUB CODE: 21/ SUBM DATE: 04Jun63/ ORIG REF: 000/ OTH REF: 000

Card 2/2

L 06337-67 EWP(c)/EWP(k)/EWT(d)/EWT(m)/EWP(h)/EWP(l)/EWP(f)/EWP(v)/EWP(t)/ETI
ACC NR: AR6013844 (A,N) SOURCE CODE: UR/0276/65/000/011/B168/B168
IJP(c) DJ/JD

AUTHOR: Kreps, M. S.

TITLE: Increasing the geometric accuracy of bearing parts

45
13

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 11B1192

REF SOURCE: Tr. Seminara po vopr. progessivn. metodov shlifov. i dovodki detaley, obespech. vysok. i stabil'n. tochnost' i dolgovechn. podshipnikov kacheniya. M., 1964, 44-45

TOPIC TAGS: ball bearing, metal grinding, metal finishing

ABSTRACT: The causes of geometric inaccuracies originating during the different grinding operations in the production of ball bearing races are considered (ring grinding, grinding of the external cylindrical surface, grooves and internal surfaces); these include: inaccuracies in the machine tool, in the clamping devices, and in the set-up operation. It was established that the method of machining and the set-up procedure during grinding are not sufficiently well established and do not provide the required high accuracy. The geometric accuracy of the rings can be increased by grinding the races and running surfaces on immovable, rigid supports (excluding the effects of clamping devices on the accuracy) and also by using the same mounting base for all operations of the grinding process. The sequence of grinding

Card 1/2 UDC: 621.923:621.822.001.5

L 06337-67
ACC NR: AR6013844

operations on the external and internal ball bearing rings and the mounting methods which will provide the required accuracies are presented. 10 illustrations, 3 tables. L. Romancheva [Translation of abstract]

SUB CODE: 13

Card 2/2 mLE

KREPS, N., Sud'ya vsesoyuznoy kategorii

The requirements increased. Voen. znan. 41 no.6:39 Je '65. (MIRA 18:5)

KREPS, N.

Lessons of the Spartakiada. Voen.znan. 39 no.10:31 O '63.
(MIRA 16:11)

1. Starshiy trener Tsentral'no-sportivnogo kluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.

KREPS, R. L.

Eksperimental'noe issledovanie udara o vodu. Moskva, 1939.
32 p., illus., tables, diagrs. (TSAGI. Trudy, no. 438)
Bibliography: p. 31-32.
Title tr.: Experimental investigation of impact in landing on water.
LNACA

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

KREPS, R. L.

Udar o vodu tel klinoobraznoi formy. (Akademiia Nauk SSSR. Institut mekhaniki. Inzhenernyi sbornik, 1947, v. 4, no. 1, p. 177-187, diagrs.)
Summary in English.
Bibliography: p. 187.
Title tr.: Impact of wedge-shaped bodies in landing on water.

TA4.A37 v. 4

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

3(7)
AUTHOR: Kreps, R. L. SOV/5C-59-3-13/24

TITLE: V. G. Andreyanov "Hydrological Calculations in Projecting Small and Medium-sized Hydraulic Power Stations". Gidrometeoizdat Publishing House. Leningrad 1957 (V. G. Andreyanov "Gidrologicheskiye raschety pri proyektirovanii malykh i srednikh gidroelektrostantsiy." Gidrometeoizdat. L. 1957)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 3, pp 56 - 57 (USSR)

ABSTRACT: A. M. Gavrilov (Chapter 2) and A. K. Proskuryakov (Chapter 3) co-operated in this book. It consists of 7 chapters and enclosures, and deals with all problems arising when carrying out hydrological calculations. All characteristics connected with projecting hydraulic power stations for agricultural economy are dealt with as well. The sources of hydrological data are shown and recommendations are given for the analysis and evaluation of such data. The book further deals with the influence exerted by physical-and geographical factors and by the economic activity of man upon the economic conditions of rivers. Another subject discussed regards the main procedures to be followed for the generalization and calculation of characteristics in the dis-

Card 1/2

V. C. Andreyanov "Hydrological Calculations in Projecting Small and Medium-sized Hydraulic Power Stations". Gidrometeoizdat Publishing House. Leningrad 1957

SOV/50-58-3-19/24

changes of rivers. Also new methods devised by the author are mentioned. A description is given regarding new methods of calculating rain- and high water rivers, that have been developed by G. A. Alekseyev in the GGI, and which are described by V. C. Andreyanov in a better understandable and more convenient form to serve for working out projects. The book also shows the applicability of other formulas for the calculation of the maximum spring tide, depending on the length of the courses and the characteristics of the respective area. The problem of high water hydrographs is also thoroughly dealt with. Hydrological analogy is recommended as the basic method for hydrological calculations on unexplored rivers. Finally, some deficiencies contained in the book are pointed out. For example, mountain rivers were found to be devoted too little attention in the book.

Card 2/2

BELYAKOV, I.S.; KREPS, S.Ye.; SUKIN, P.D.; BARINOVA, O.N., red.; GORBATKIN, B.G., tekhn. red.

[Clock and watch repairing]Remont chasov. Moskva, Gosmestpromizdat, 1962. 240 p. (MIRA 16:3)
(Clocks and watches--Repairing and adjusting)

GAPEYEV, Boris Mikhaylovich; KREPS, Solomon Yevseyevich; [illegible], Pavel Dmitriyevich; IOFINOVA, TS.B., red.

[Cleaning of clocks] Chistka chasov. Moskva, Legkaia industriia, 1965. 86 p. (MIRA 18:4)

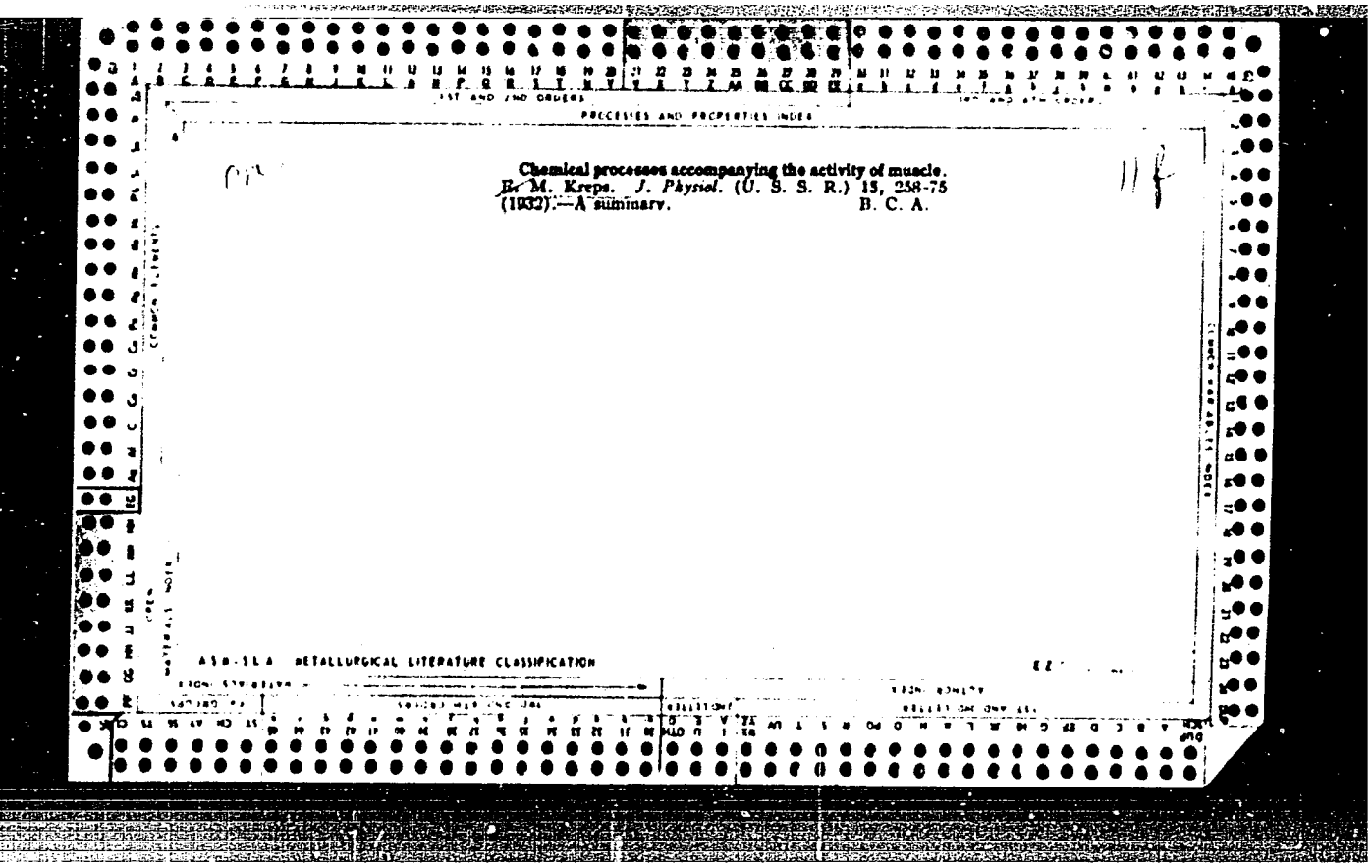
KREPS, Ye.

Objectives and tasks of the "Zhurnal evoliutsionnoi biokhimii i fiziologii". Zhur. evol. biokhim. i fiziol. 1 no.1:3-6 Ja-F '65. (MIRA 18:6)

1. Glavnyy redaktor "Zhurnala evolyutsionnoy biokhimii i fiziologii."

KREPS, Yevgeniy Mikhaylovich; PROKHODTSEVA, S.Ya., red.;
CHERNYKH, M.P., red.; KISELEVA, Z.A., red. kart;
KOSHELEVA, S.M., tekhn. red.

[The "Vitiaz'" in the Indian Ocean] "Vitiaz'" v Indiiskom okeane. Moskva, Geografgiz, 1963. 275 p. (MIRA 16:6)
(Indian Ocean—Oceanographic research)



PROCESSES AND PROPERTIES INDEX

Chemical processes accompanying the activity of muscle.
B. M. Kreps. *J. Physiol.* (U. S. S. R.) 15, 258-75 (1932).—A summary. B. C. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

KREPS, E. M.

"Peculiarities of physiology of plemging animals." (p. 454) by E. M. Kreps

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie) Vol. XIV, No. 3, 1941

KREPS, E.M.

"Recent contributions to the physiology of the pituitary." (p.385) by A.A. Danilov (deceased), Rev. by E.M. Kreps

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie) Vol. XV, 1942, No.3

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

BC

a-4

Respiratory function of blood of insects. E. M. Kreps and E. J. Tschenikaeva (*Compt. rend. Acad. Sci. U.R.S.S.*, 1943, 34, 142—145).—The blood of Orthoptera has no effect on the reaction $H_2CO_3 \rightarrow CO_2 + H_2O$ but the reverse hydration reaction was strongly inhibited. The inhibitory [illegible], is not an enzyme, is thermostable, is not [illegible], and is insensitive to most enzyme poisons. Thus [illegible] CO_2 in dissolved gas mols. and favours [illegible] of CO_2 from the organism. C. J. C. B.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

KREPS, Ye. M.

"Carbon Anhydrase in Crustaceans," Dokl. AN SSSR 34, No.3, 1942

Pavlov Phys. Inst., AS USSR and Karadog Biol. Station, Ukr A S SSR

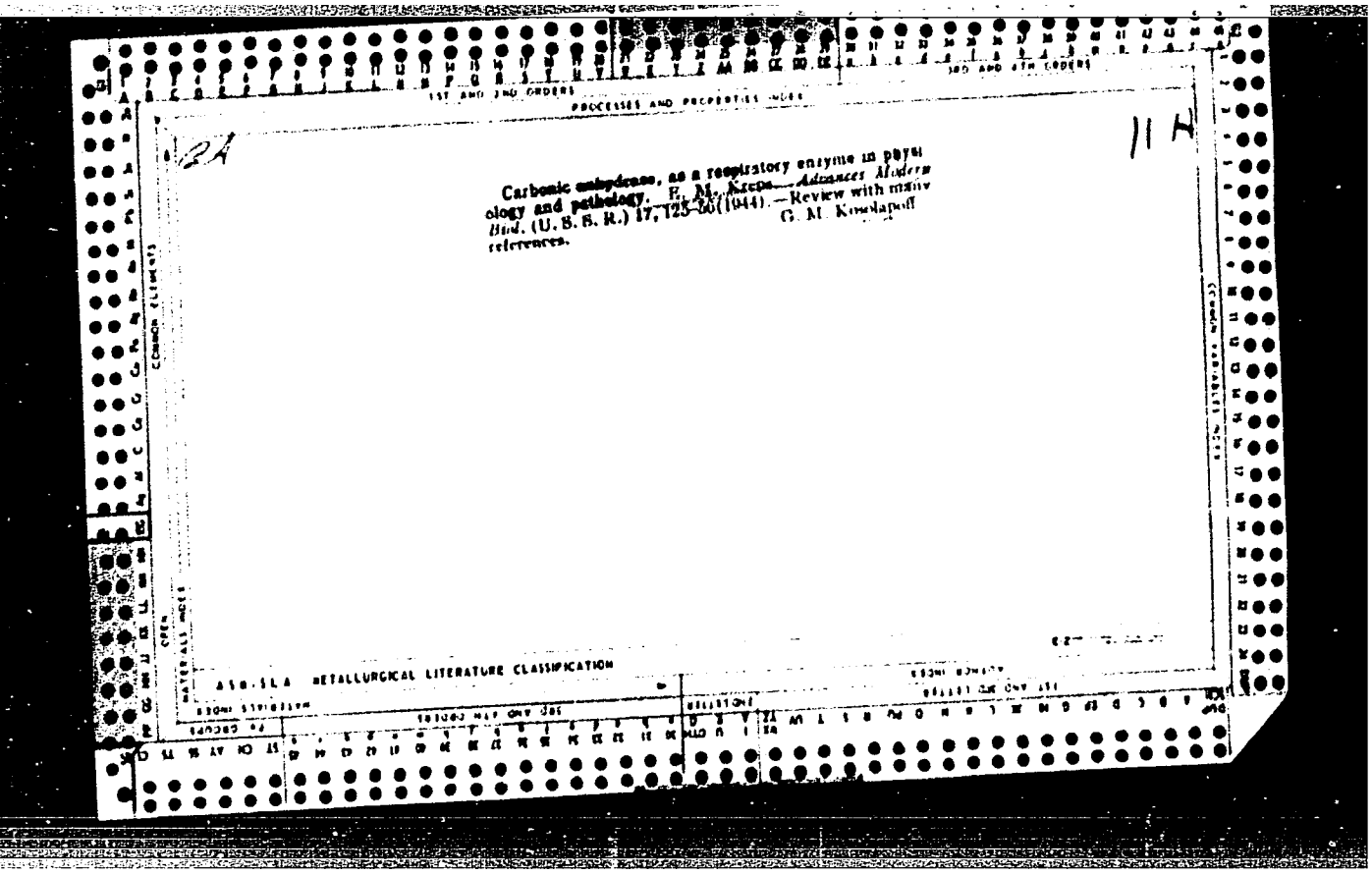
PROCESSES AND PROPERTIES INDEX

11 F

Ca

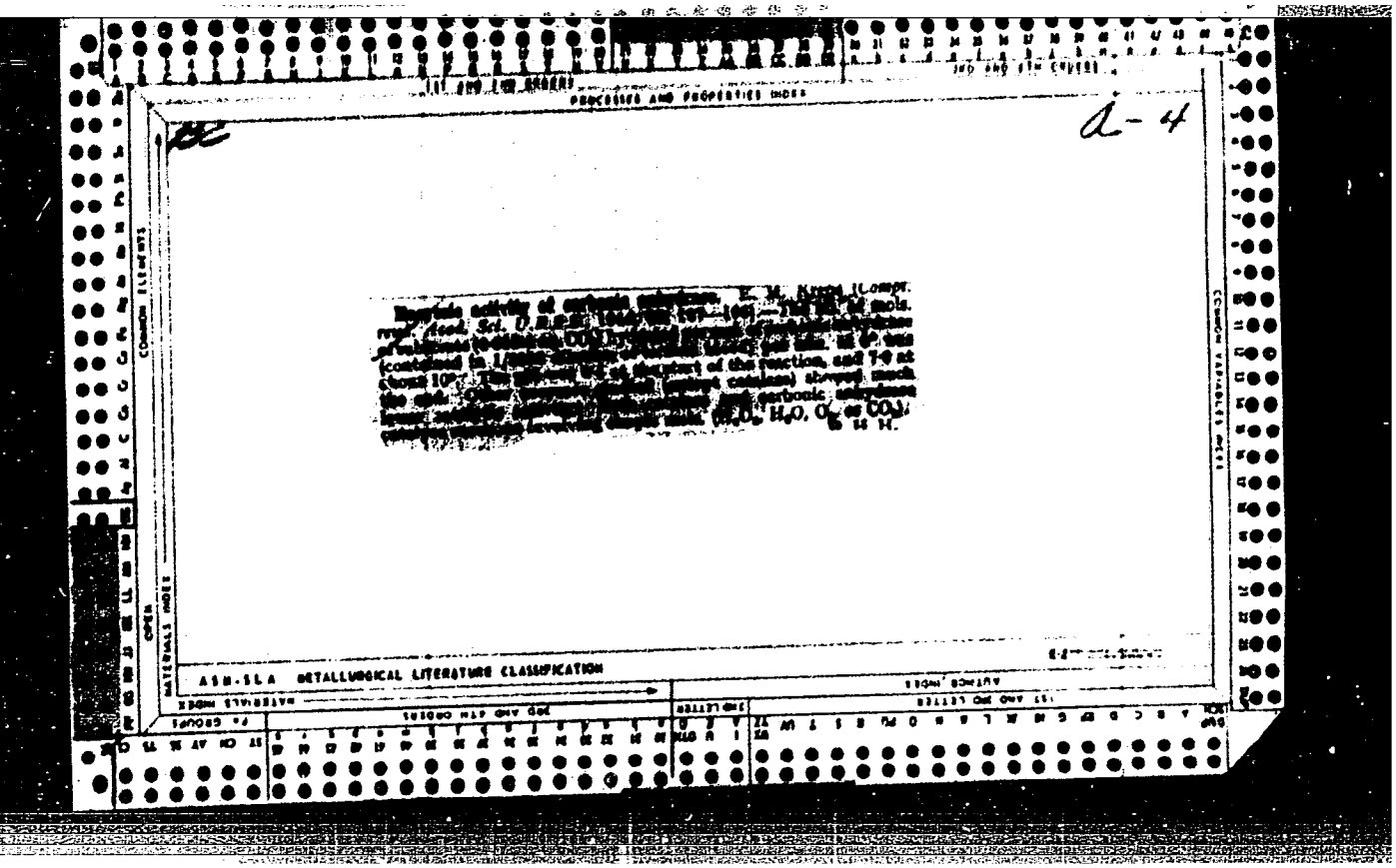
Evolution of the respiratory function of blood. B. M. Kreps. *J. Gen. Biol.* (U. S. S. R.) 4, 150–71 (in English, 171–2) (1943); C. A. 37, 1784. A review based on exptl. findings. T. Laanes

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Carbonic anhydrase, as a respiratory enzyme in pathology and pathology. E. M. Krepa. *Advances Modern Biol.* (U. S. S. R.) 17, 125-36 (1944). —Review with many references. G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



1ST AND 2ND ORDERS

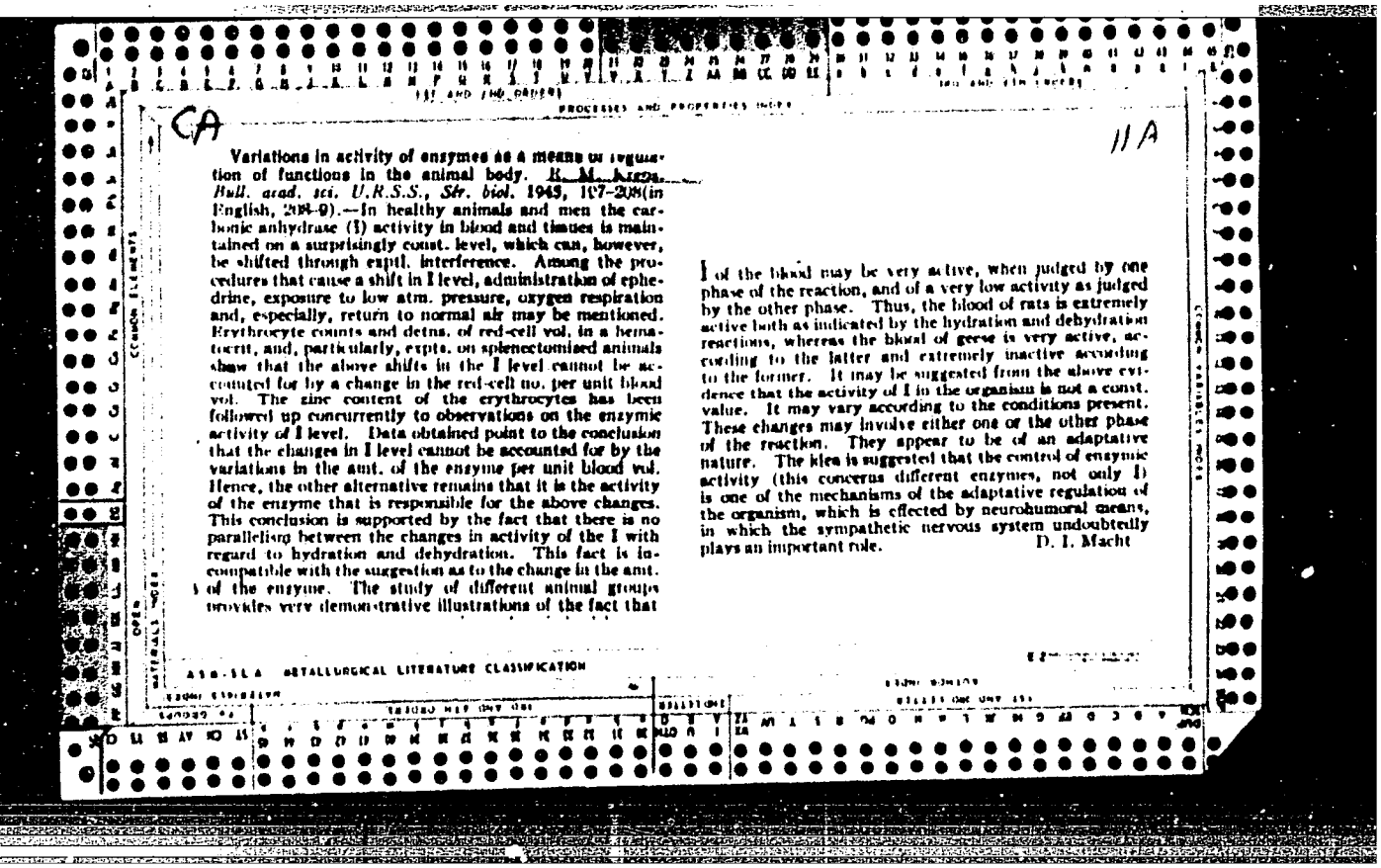
PROCESSES AND PROPERTIES INDEX

CA

11A

Enzymic activity of carbonic anhydrase. E. M. Kreps. *Doklady Akad. Nauk S.S.S.R.* 45, 210-12(1944); *Compt. rend. acad. sci. U.R.S.S.* 45, 197-8(1944)(in English). One mol. of carbonic anhydrase was shown to be capable of effecting conversion of at least 8 × 10^5 mols of substrate per min. The expts. were carried out with human blood dild. 1:8000, with initial CO_2 concn. of 0.0025 *M*, reaction temp. 0°, and pH ranging from 8.4 initially to 7.0 finally. Under these conditions, the carbonic anhydrase decreased the time required to establish equil. between CO_2 and its hydrated form from 120 sec. to 30 sec. Cf. *C. A.* 34, 1996[8]. J. W. Perry

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

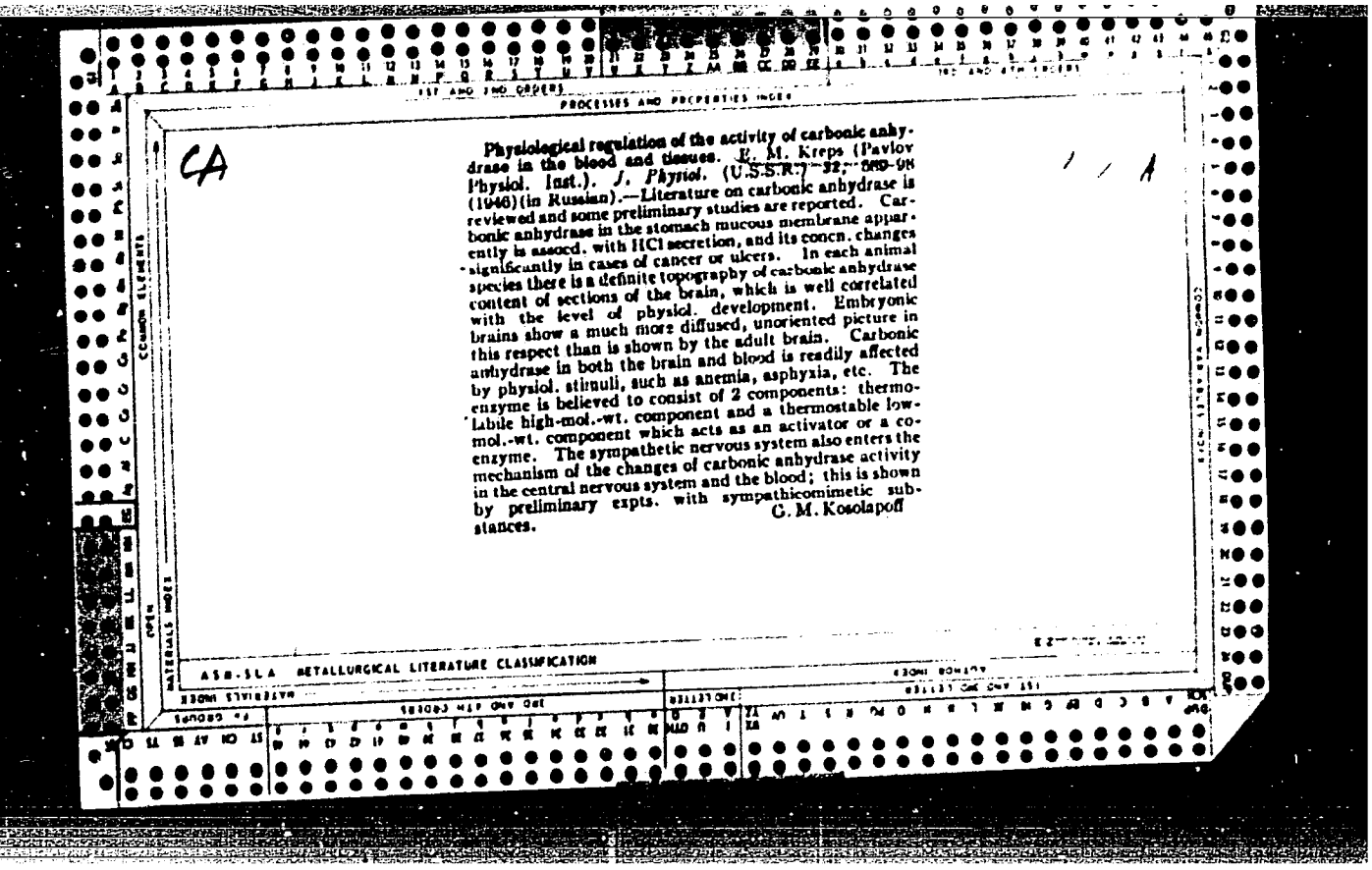


CA

11A

Variations in activity of enzymes as a means of regulation of functions in the animal body. K. M. Kiyon. *Bull. acad. sci. U.R.S.S., Sér. biol.* 1945, 197-208(in English, 208-9).—In healthy animals and men the carbonic anhydrase (I) activity in blood and tissues is maintained on a surprisingly const. level, which can, however, be shifted through exptl. interference. Among the procedures that cause a shift in I level, administration of ephedrine, exposure to low atm. pressure, oxygen respiration and, especially, return to normal air may be mentioned. Erythrocyte counts and detns. of red-cell vol. in a hematocrit, and, particularly, expts. on splenectomized animals show that the above shifts in the I level cannot be accounted for by a change in the red-cell no. per unit blood vol. The zinc content of the erythrocytes has been followed up concurrently to observations on the enzymic activity of I level. Data obtained point to the conclusion that the changes in I level cannot be accounted for by the variations in the amt. of the enzyme per unit blood vol. Hence, the other alternative remains that it is the activity of the enzyme that is responsible for the above changes. This conclusion is supported by the fact that there is no parallelism between the changes in activity of the I with regard to hydration and dehydration. This fact is incompatible with the suggestion as to the change in the amt. of the enzyme. The study of different animal groups provides very demonstrative illustrations of the fact that I of the blood may be very active, when judged by one phase of the reaction, and of a very low activity as judged by the other phase. Thus, the blood of rats is extremely active both as indicated by the hydration and dehydration reactions, whereas the blood of geese is very active, according to the latter and extremely inactive according to the former. It may be suggested from the above evidence that the activity of I in the organism is not a const. value. It may vary according to the conditions present. These changes may involve either one or the other phase of the reaction. They appear to be of an adaptative nature. The idea is suggested that the control of enzymic activity (this concerns different enzymes, not only I) is one of the mechanisms of the adaptative regulation of the organism, which is effected by neurohumoral means, in which the sympathetic nervous system undoubtedly plays an important role. D. I. Macht

A10-11A METALLURGICAL LITERATURE CLASSIFICATION



CA

Physiological regulation of the activity of carbonic anhydrase in the blood and tissues. E. M. Kreps (Pavlov Physiol. Inst.). *J. Physiol.* (U.S.S.R.) 32, 689-98 (1946)(in Russian).—Literature on carbonic anhydrase is reviewed and some preliminary studies are reported. Carbonic anhydrase in the stomach mucous membrane apparently is assocd. with HCl secretion, and its concn. changes significantly in cases of cancer or ulcers. In each animal species there is a definite topography of carbonic anhydrase content of sections of the brain, which is well correlated with the level of physiol. development. Embryonic brains show a much more diffused, unoriented picture in this respect than is shown by the adult brain. Carbonic anhydrase in both the brain and blood is readily affected by physiol. stimuli, such as anemia, asphyxia, etc. The enzyme is believed to consist of 2 components: thermolabile high-mol.-wt. component and a thermostable low-mol.-wt. component which acts as an activator or a coenzyme. The sympathetic nervous system also enters the mechanism of the changes of carbonic anhydrase activity in the central nervous system and the blood; this is shown by preliminary expts. with sympathicomimetic substances.

C. M. Kosolapoff

KREPS, Ye. M.

"Present Day Physiology and Living," Nauka i Zhizn', No.12, 1947

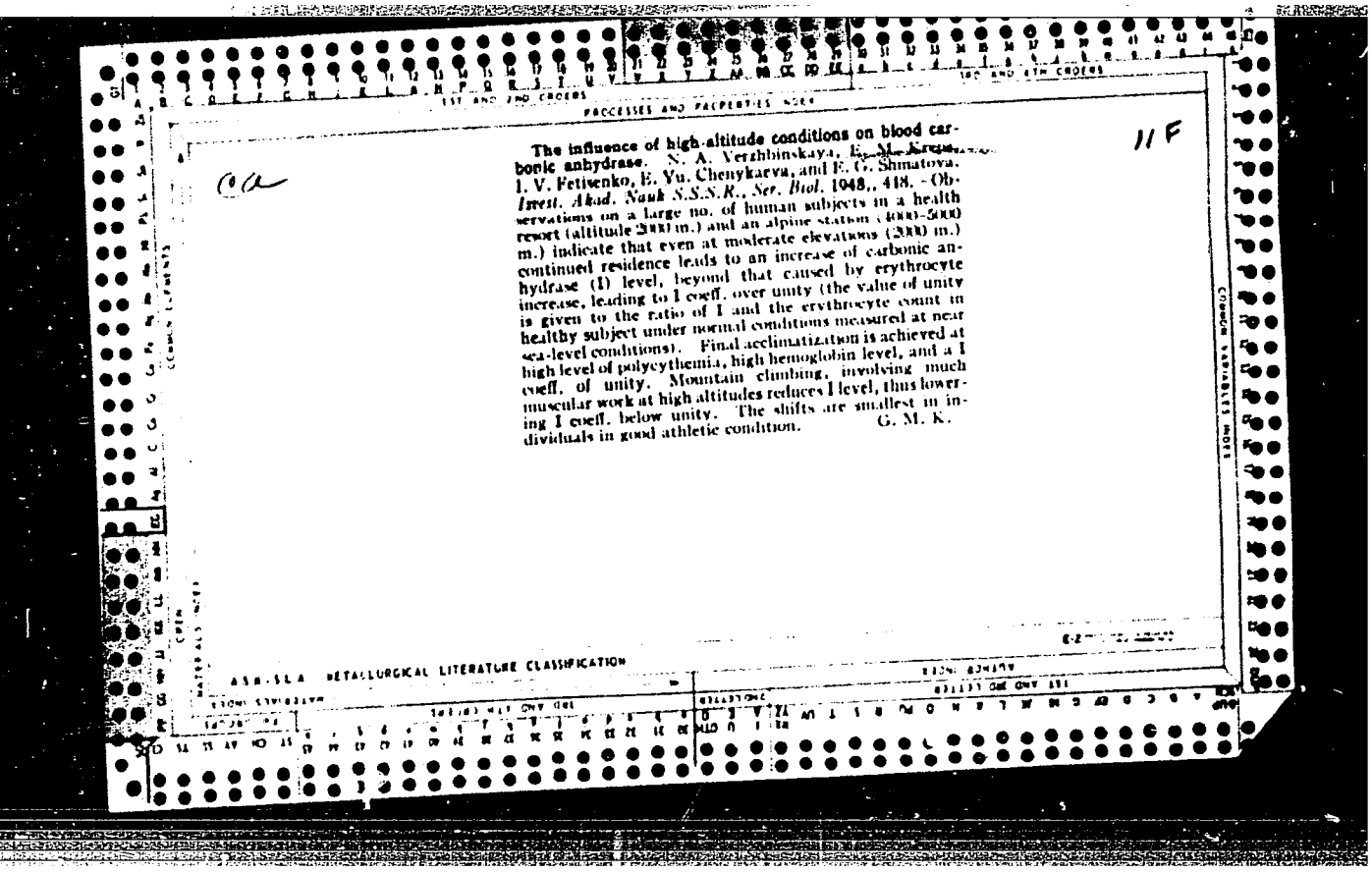
141. Kreps E. M. T. P. Pavlov Physiol. Inst. of the Acad. of Sciences, U. S. S. R.
Variations in carbonic anhydrase for body regulation American Review of Soviet Medicine
1947, 4/5 (426-435) Tables 5

So: Physiology, Biochemistry & Pharmacology, Section II, Vol. 1, No. 1-6

KREPS, E. M.

"Leon Abgarovich Orbeli (The 65th Anniversary Of Birth)". (p. 243) by Academician Pavlovsky, E.N.; Hymocinsky, A.G.; Dubnayevsky, F.R.; Kreps, E.M.; Mikhelson, N.I.; Nasonov, D.N.

SO: Journal of General Biology, Vol. VIII, No. 4 (Issues 1-6 for 1947)



PROCESSES AND PROPERTIES INDEX

11F

The influence of high-altitude conditions on blood carbonic anhydrase. N. A. Verzhbinskaya, E. M. Kreps, I. V. Fetisenko, E. Yu. Chenykaeva, and E. G. Shmatova. *Izvest. Akad. Nauk S.S.S.R., Ser. Biol.* 1948,, 418. - Observations on a large no. of human subjects in a health resort (altitude 2881 m.) and an alpine station (4000-5000 m.) indicate that even at moderate elevations (2300 m.) continued residence leads to an increase of carbonic anhydrase (I) level, beyond that caused by erythrocyte increase, leading to I coeff. over unity (the value of unity is given to the ratio of I and the erythrocyte count in healthy subject under normal conditions measured at near sea-level conditions). Final acclimatization is achieved at high level of polycythemia, high hemoglobin level, and a I coeff. of unity. Mountain climbing, involving much muscular work at high altitudes reduces I level, thus lowering I coeff. below unity. The shifts are smallest in individuals in good athletic condition. G. M. K.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

KREPS, YE. M.

USSR/Medicine - Physiology Jan/Feb 194
Medicine - Nervous System, Sympathetic

"An Re-evaluation of Several Physiological Factors," V. N. Borsuk, N. A. Verzhbinskaya, Ye. M. Dreps, N. I. Mikhel'son, V. V. Strel'tsov (Deceased), Physiol Inst imeni Academician I. P. Pavlov, Acad Sci, USSR, 2 pp

"Fiziol Zhur SSSR" Vol XXXIV, No 1

Authors discuss the question of the sympathetic nerve on the chemical processes in the skeletal muscles. Two series of experiments were conducted. In the first, an electrical current was used to irritate the motor nerves of the hind leg of a frog. In the second, an electrical current was applied to the sympathetic nerves which had been deadened with nicotine. Submitted, 12 May 1947.

PA 41T84

KREPS, Ye. M.

USSR/Medicine - Nervous System Jan/Feb 50
Brain, Physiology

155T35

"Carbonic Anhydrase in the Nervous System," Ye. M. Kreps, Physiol Inst imeni I. P. Pavlova, Acad Sci USSR, Inst of Evolutionary Physiol and Path of Higher Nervous Activity imeni I. P. Pavlov, Acad Med Sci USSR, 14 pp

"Fiziol Zhur SSSR" Vol XXXVI, No 1

Investigates carbonic anhydrase of the brain for each group of animals with central nervous system. Decides that in all classes of vertebrates maximum activity of carbonic anhydrase occurs in parts of the

155T32

USSR/Medicine - Nervous System (Contd) Jan/Feb 50

brain having greatest functional activity. Finds acute asphyxiation increases activity of carbonic anhydrase in the brain. Surmises this enzyme's physiological role in the brain is most probably concerned with maintenance of acid-base equilibrium in tissues. Includes two tables of data. Submitted 1 Jun 49.

155T35

KREPS, Ye.M.; PIGAREVA, Z.D.; CHET-VERNIKOV, D.A.; POMAZANSKAYA, L.F.

Biochemical development of the brain in ontogenesis and nervous function. Zh. vyssheĭ nerv. deiat. 2 no. 1:46-57 Jan-Feb 1952. (CIML 23:3)

1. Institute of Physiology imeni I. P. Pavlov of the Academy of Sciences USSR.

KREPS, Ye. M.

USSR/Medicine - Oxygen Concentration in the Blood Mar 52

"New Method of Determining the Saturation of Blood With Oxygen," Ye. M Kreps, Cor. Mem, Acad Sci USSR "Priroda," Vol 41, No 3, pp 75-79

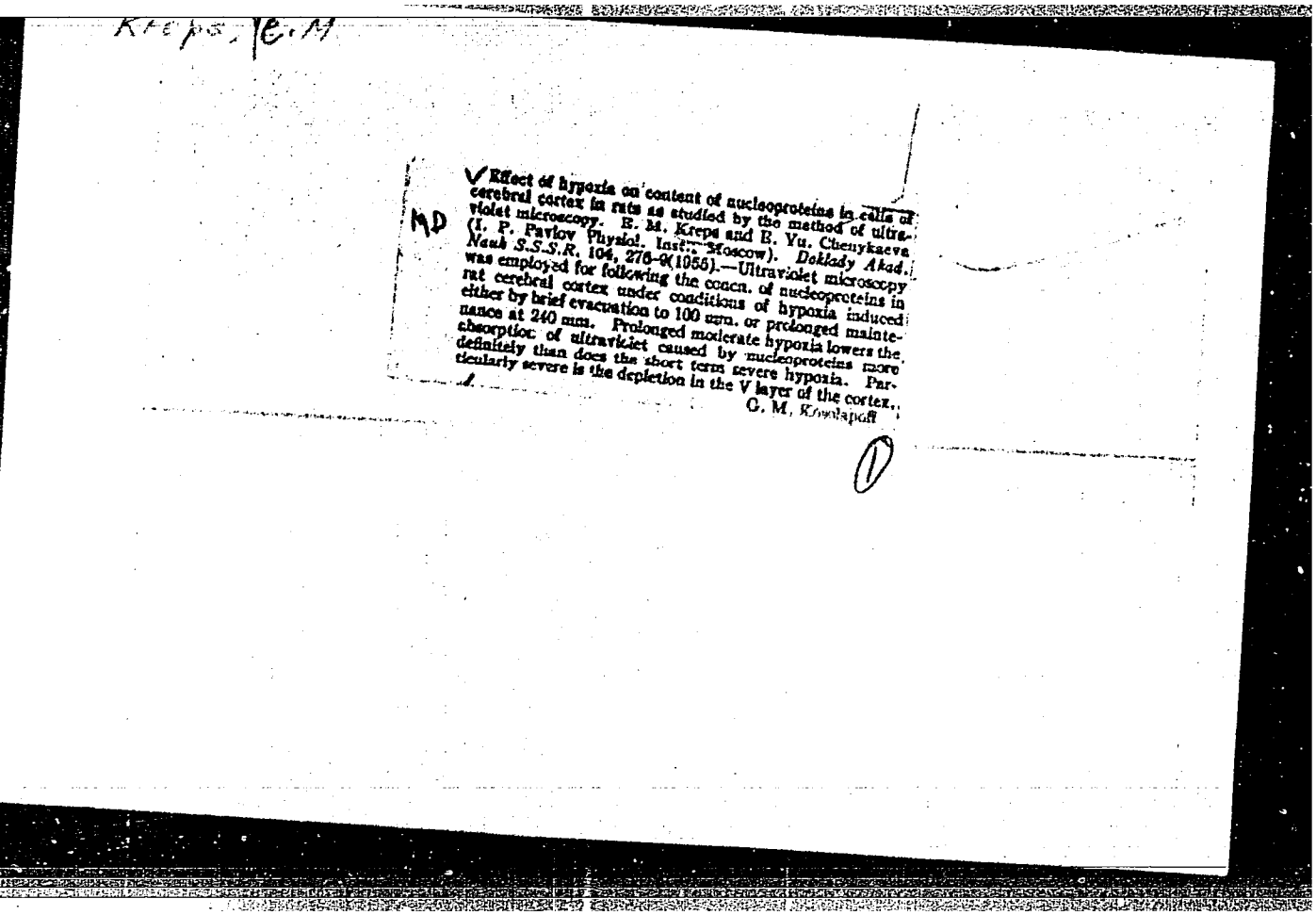
States that a new perfected cathodic photooxyhemometer has been designed by Engr Ye. A. Bolotinskiy at the Leningrad Exptl Workshops, Acad Med Sci USSR. Bolotinskiy continued work started by Ye. M. Kreps and M. S. Shipalov during World War II (cf. Kreps, Shipalov, Bolotinskiy, "Byul Eksper Biol i Med" No 7, 1951). According to Kreps, extensive exptl work on arterial hypoxemia has already been done with the use of the new instrument. Author states that it is very important for use in control of respiration during surgery of the chest, for the soln of a number of practical problems connected with work and exercise, etc.

230T6

KREPS, Ye.M.

Study of the individual characteristics of the experimental animal.
Trudy fiziol. lab. 1 no.1/3:98-117 '53 (MLRA 9:5)

(CONDITIONED RESPONSE)



Krepс, E.M

MD

Effect of hypoxia on content of nucleoproteins in cells of cerebral cortex in rats as studied by the method of ultraviolet microscopy. E. M. Kreps and B. Yu. Chenykaeva (I. P. Pavlov Physiol. Inst., Moscow). *Doklady Akad. Nauk S.S.S.R.* 104, 276–9(1955).—Ultraviolet microscopy was employed for following the concn. of nucleoproteins in rat cerebral cortex under conditions of hypoxia induced either by brief evacuation to 100 mm. or prolonged maintenance at 240 mm. Prolonged moderate hypoxia lowers the absorption of ultraviolet caused by nucleoproteins more definitely than does the short term severe hypoxia. Particularly severe is the depletion in the V layer of the cortex.

G. M. Kondrapoff

[illegible], I. [illegible]

"[illegible] THE TISSUE ADAPTATION TO [illegible] HYPOXIA IN A [illegible] OF GENERATIONS"

[illegible] 267, Reports given at the [illegible] International Congress of Physiologists, Brussels, [illegible] Jul-4 Aug 5[illegible]

Translation E- 53[illegible]

KREPS, Ye.M.

Carbonic anhydrase in secretory organs. Mat. po evol.fiziol. 1: 164-173 '56.
(CARBONIC ANHYDRASE) (GLANDS) (MIRA 11:1)

USSR/Human and Animal Physiology. Respiration. V

Abs Jour: Ref. Zhur.-Biol., No 6, 1958, 26948.

Author : E.M. Kreps, E.A. Bolotinskiy, L.S. Goshteyn and N.N. Maksimov.

Inst :

Title : A Recording Oxyhemograph

Orig Pub: Vopr. med. khimii, 1956, 2, No 6, 457-461.

Abstract: In a new instrument produced since 1955 by the "Krasnogvardeyets" Factory, the O-36 oxyhemograph, the faults (the misplaced zero in particular) inherent in domestic and foreign oxyhemographs have been eliminated. The instrument operates on an alternating current system at 127 volts. It has selenium and silver sulfide photoelements; measurement is based on the recording of photoelectric changes associated

Card : 1/2

Inst Physiol. im. I.P. Pavlova AN USSR

USSR/Human and Animal Physiology. Respiration. V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 26948.

with the difference in spectral properties of Hb and HbO_2. The emf developed by the photoelements is determined by the O_2 saturation of arterial blood and is measured by comparison with a voltage taken from a calibration chart (compensation method). Both voltages are fed periodically at a frequency of 50 cps into the input of an electronic amplifier connected at the output with a reversing asynchronous motor. The direction of rotation of this motor depends on the predominance of one of the voltages, and for each value of difference in the voltages there is a definite corresponding position of the indicator arrow and pen on a scale graduated in units representing O_2 saturation of arterial blood.

Card : 2/2

EXCERPTA MEDICA Sec.2 Vol.10/10 Phy.Biochem. Oct 57
KREPS E.M.

4255. KREPS E.M. Leningrad, *Phosphatides in the nervous system (Russian text) USP.SOVR.BIOL. 1956, 41/3 (261-283) Tables 11
A concise review of the present state of knowledge of the phospholipids in the CNS. The list of references includes most of the recent American and European contributions and a full account of Russian papers on the subject.

KREPS, Ye M.

EXCERPTA MEDICA Sec.2 Vol.10/4 Physiology,etc.Apr57

1587. KREPS E.M., VERJBINSKAYA N.A., TSHENIKAYEVA E.Yu., TSHIRKOVSKAYA E.V. and GABURINA Ts K. Lab. of Comp. Biochem., 'I.P.Pavlov' Inst. of Physiol., AN, SSSR, Leningrad. *Adaptation of animals to chronic hypoxia (Russian text) FIZIOL. Ž. 1956, 42/2 (149-158) Tables 5

Rats were kept in hypoxic conditions (10.5% O_2) through 4 generations. The first generation showed a highly significant increase of Hb, erythrocyte count, colour index, and carboanhydrase in the blood, and of myoglobin, without significant

1587 CONT

changes through the 2nd to 4th generation. The cytochrome content in the heart and the cytochrome oxidase activity were not changed through 3 generations, but there was a tendency to lower activity in the 4th generation.

Simonson - Minneapolis, Minn.

KHRPS, Ye.; NASONOV, D.; TONKIKH, A., BRESTKIN, M.; ZHUKOV, Ye.

60th anniversary of birth of Aleksandr Grigor'evich Ginetsinskii.
Fiziol.zhur. 42 no.3:325-326 Mr '56. (MLRA 9:7)
(BIOGRAPHIES,
Ginetskinskii, Aleksandr G. (Rus))

KREPS, Ye.M. ~~...kaya, E.V.~~ Kreps, E.M.

Adaptation of animals to chronic hypoxia. E. M. Kreps, N. A. Verzhbinskaya, E. Yu. Cheuykaeva, B. V. Chirkovskaya, and Ts. K. Gavurina (I. P. Pavlov Physiol. Inst., Leningrad). *Fiziol. Zhur. S.S.S.R.* 42, 460-63(1956).— Rats after 4 generations under reduced O supply (10.5% O_2) show signs of gradual change of brain metabolism. The changes are difficult to detect owing to their small magnitude. For example, adenosinetriphosphate and creatine phosphate breakdown occurs more readily. Anaerobic glycolysis becomes less active and the cytochrome system tends to decline in activity. The general trend is to degradation and weakening of the activity of the organism. G. M. Kosolapoff

KREPS Y.E.M.

EXCERPTA MEDICA Sec.2 Vol.9/9 Physiology,etc.Sept56

4045. KREPS E.M., VERZJBINSKAYA N.A., TSHENIKAYEVA E.Yu. and GABURINA Ts.K. Lab of comparat. Biochem., 'I.P.Pavlov' Inst. of Physiol., Leningrad, SSSR. *Adaptation of animals to chronic hypoxia (Russian text) FIZIOL. Ž. 1956, 52/1 (69-77) Graphs 2 Tables 2 Illus. 2

In atmospheric air, the oxygen consumption of white rats acclimatized to chronic hypoxia (10.5 to 12% O_2) was not significantly different from that of controls (1.57 ± 0.06 and 1.48 ± 0.05 per g. and hr. respectively). At simulated altitude (12% O_2), however, the oxygen consumption of the acclimatized animals (1.44 ± 0.05) was significantly higher than that of the controls (1.22 ± 0.03).

Simonson - Minneapolis, Minn.

KEMP, E. M.

"The oxidative phosphorylation in cerebral tissue in the evolution of vertebrates," a paper submitted a the International Conference on Radioisotopes in Scientific Research, Paris, 9-20 Sep. 57.

KREPS, Ye.M.

The 20th International Physiological Congress. Izv.AN SSSR.Ser.biol. no.2:258-261 Mr-Ap '57. (MLRA 10:4)
(BRUSSELS--PHYSIOLOGY--CONGRESSES)

USSR/Human and Animal Physiology (Normal and Pathological)
Nervous System. Metabolism. T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26981

Author : Kreps, Ye.M.
Inst :
Title : On the Biochemical Characteristics of the Activity of the Cortex of the Large Hemispheres of the Brain.

Orig Pub : Zh. vyssh. nervn. deyat-sti, 1957, 7, No 1, 75-82

Abstract : The speed of restoration of phosphorus (SRP), phospholipids and RNA in the cortex of large hemispheres in dogs under normal conditions, under conditions of irradiating excitement and inhibition - natural and narcotic sleep were studied. Penetration of phosphates from blood into the substance of the cortex occurred 3-4 times faster than into the substance of diencephalon. In cortical terminals of motor and optic analyser, SRP was 1½ times higher than in the auditory. In auditory stimulations,

Card 1/2

USSR/Human and Animal Physiology (Normal and Pathological)
Nervous System. Metabolism. T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26981

combined with nutritional reenforcement, SRP in the auditory analyser increased. At the time of sleep, SRP decreased on the average by 25%, in stimulation - increased by the same amount. -- D.Ye. Ryvkina

Card 2/2

KREPS, E.M.

AUTHOR: None Given

25-12-18/39

TITLE: Isotopes Serve Science (Izotopy sluzhat nauke)

PERIODICAL: Nauka i Zhizn', 1957, # 12, pp 25-29 (USSR)

ABSTRACT: The international conference on the use of radioactive isotopes was held in Paris in September 1957. The Soviet delegation of 61 Soviet scientists was headed by A.V. Topchiyev, Senior Scientific-Secretary of the USSR Academy of Sciences. The Soviet scientist A.M. Kuzin lectured on radio isotopes and biological research. Of a total of 206 reports, 49 were delivered by Soviet scientists. The report by Member-Correspondent of the USSR Academy of Science, E.M. Kreps on the protein metabolism rate in the nervous system in different stages of evolution by means of phosphorus isotopes was met with great interest. Several reports dealt with radioactive carbon entering into the compound of radioactive carbon dioxide which aided to clarify the question of photosynthesis. Academician V.M. Klechkovskiy of VASKhNIL, and I.V. Gulyakin lectured on problems of radioactive contamination. It has been established that special attention must be given to strontium 90 and cesium 137, which as a result of fission, form heavy nuclei and show prolonged radiation activity. Ruthenium and zirconium were mentioned as other radioactive elements of importance.

Card 1/3

Isotopes Serve Science

25-12-18/39

Candidate of Technical Sciences, V.I. Serenkov reported on the work of the physical section pertaining to the production of radioisotopes. The reports of M.S. Petrova and other Soviet scientists about new methods of producing alpha, beta and gamma sources, as well as the report of V.I. Spitsyn on the method of extracting and concentrating cesium 137, met with great interest. K.K. Aglintsev and other Soviet scientist lectured on the results of investigations of electronic spectrums in dosimetry of beta and gamma radiation. The French scientists Benar and Loran together with the Soviet scientist A.N. Murin lectured on new processes of ion diffusion in polar crystalls and the movability of ions depending on their charge. The studies of V.S. Vavilov and other Soviet scientists on the activity of nuclear radiation of semi-conducting materials are of great importance for solving the problem of transforming energy from nuclear radiation into electrical energy. The Soviet scientist V.I. Kuznetsov read a report on the use of organic reagents as catalyzing precipitators for the elimination of small quantities of admixtures, which is of paramount importance for controlling the purity of semiconductors. The Soviet scientist V.I. Spitsyn spoke on the use of isotopes for analysing the structures and properties of inorganic substances,

Card 2/3