DVORNIKOV, A.G.

Types of mercury-dispersiom halos in the southeastern part of the Donets Basin. Dokl. AN SSSR 154 no.5:1110-1112 F'64. (MIRA 17:2)

1. Predstavleno akademikom D.I. Shcherbakovym.

DVORNIKOV, A.G.

Distribution of mercury, arsenic, and antimony in the rocks of the Bokovo-Khrustal'skii region (Donets Basin). Geokhimiia no.6:695-706 Je '65. (MIRA 18:7)

1. Institute of Mineral Resources of the Academy of Sciences of U.S.S.R., Simferopol.

DVORNIKOV, A.I., kand. ekon. nauk, dots.

Planning labor productivity and the work force at an industrial enterprise. Trudy Khar'. inzh.-ekon. inst. 9:153-213 '57. (Machinery industry) (MIRA 11:6)

DVORNIKOV, A. L.

"Analysis of Control Methods." Cand Tech Sci, Moscow Order of Labor Red Banner Higher Technical School imeni Bauman, Min Higher Education USSR, Moscow, 1955. (KL, No 18, Apr 55)

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

BYKOV, B.Z., inzh.; DVORNIKOV, A.L., kand.tekhn.nauk, dotsent; SEMIBRATOV, M.N., kand.tekhn.nauk, dotsent

Methods for calculating the kinematic indices in the grinding and polishing of spherical surfaces. [Trudy] MVTU no.110 27-39 '62. (MIRA 16:6)

(Grinding and polishing)

DVORNIKOV, E.

Directional antenna for three frequency bands. Radio no.4:22-25 Ap '60. (MIRA 13:8)

(Antennas (Electronics))

DVORNIKOV, E.

Determination of azimuth for the direction of antennas. Radio no.4:21-22 Ap '62. (MIRA 15:4)

(Radio—Antennas)

[illegible] technika eksperimenta, no. 4, [illegible]

[illegible]ransistorized crystal-controlled oscillator, wide-band amplifier, [illegible] oscillator, [illegible] crystal oscilla-[illegible]

[illegible] of operation and the circuit of a transistorized crystal-[illegible] amplifier [illegible] stain-[illegible]

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411630008-8"

DVORNIKOV, G.

These villages did not exist before. Sel'.stroi. 15 no.4:13-14 Ap '60. (MIRA 16:1)

1. Direktor sovkhoza "Takhtalym" Kunashakskogo rayona Chelyabinskoy oblasti.
(Chelyabinsk Province—Rural planning)

DVORNIKOV, I.

Contact with life as a basis for legal work. Okhr. truda i sots. strakh. 3 no.5:53-56 My '60. (MIRA 13:12)

1. Zaveduyushchiy pravovym sektorom Vsesoyuznogo tsentral'nogo soveta profsoyuzom.
(Trade unions) (Labor laws and legislation)

DVORNIKOV, I.

"Collected labor laws." Reviewed by I.Dvornikov. Sots.trud 8 no.3: 153-155 Mr '63. (MIRA 16:3)

(Labor laws and legislation)

DVORNIKOV, I.S.; DZHELOMANOV, V.S.; NOVOSPASSKIY, V.V., red.; GOLICHENKOVA, A.A., tekhn.red.

[Trade-union worker's reference book] Spravochnik profsoiuznogo rabotnika. Moskva, Izd-vo VTsSPS Profizdat, 1960. 607 p. (MIRA 14:2)

(Trade unions--Handbooks, manuals, etc.)

DVORNIKOV, Ivan Semenovich; DZHELOMANOV, Vasiliy Semenovich; SHTYL'KO, Anatoliy Aleksandrovich; NOVOSPASSKIY, V.V., red.; SHADRINA, N.D., tekhn. red.

[Trade unions of the U.S.S.R.; a brief Handbook] Professional'nye soiuzy SSSR; kratkii spravochnik. Moskva, zd-vo VTsSPS Profizdat, 1961. 127 p. (Bibliotechka profsoiuznogo aktivista, no.13) (MIRA 14:9)

(Trade unions—Handbooks, manuals, etc.)

BORYCHEV, N.I.; ZAV'YALOV, P.F.; DVORNIKOV, I.S., retsenzent; ZHELEZNOV, B.I., retsenzent; POKROVSKAYA, I.M., red.izd-va; PROZOROVSKAYA, V.L., tekhn. red.; BOLDYREVA, Z.A., tekhn. red.

[Handbook on labor safety in coal mines] Okhrana truda na ugol'-nykh shakhtakh; spravochnoe posobie. Izd.2., perer. i dop. Moskva, Gosgortekhizdat, 1963. 427 p. (MIRA 16:7)

1. Profsoyuz rabochikh ugol'noy promyshlennosti. TSentral'nyy komitet. 2. Otdel okhrany truda TSentral'nogo komiteta profsoyuza rabochikh ugol'noy promyshlennosti (for Borychev,Zav'yalov).
(Coal mines and mining—Safety measures)

DVORNIKOV, I.S.

New data on fellow workers' courts. Sov. profsoiuzy 20 no.2:42-44 Ja'64. (MIRA 17:2)

1. Zamestitel' predsedatelya Komissii Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov po pravovym voprosam.

ALIMOV, O. D., doktor tekhn. nauk; DVORNIKOV, L. T., inzh.;
KOLODYAZHNYY, N. S., insh.

Universal stand for laboratory testing of rotary drills.
Izv. vys. ucheb. zav.; gor. zhur. 5 no.8:100-106 '62.
(MIRA 15:10)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S. M. Kirova. Rekomendovana kafedroy gornykh mashin i rudnichnogo transporta.

(Boring machinery—Testing)

ALIMOV, O.D.; ALIMOVA, A.A.; DVORNIKOV, L.T.

Investigating hole drilling conditions with the use of nomograms. Fiz.-tekh. probl. razrab. pol. iskop. no.4:81-84 '65. (MIRA 19:1)

1. Institut gornogo dela Sibirskogo otdeleniya AN SSSR, Novosibirsk i Tomskiy politekhnicheskiy institut. Submitted April 15, 1965.

DVORNIKOV, M.

AID P - 739

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 6/21

Author : Dvornikov, M., Lt. Col. of the Guard

Title : To bring a fighter plane out from a complicated position

Periodical : Vest. vozd. flota, 10, 34-37, O 1954

Abstract : Special orders and detailed instructions regulate the method of bringing out by instruments a fighter plane from complicated positions. These instructions, however, have a number of deficiencies. The author indicates in examples how various instrument readings should be done, and how aircraft maneuvers should be executed. Diagrams.

Institution : None

Submitted : No date

DVORNIKOV, M.

AID P - 958

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 2/21

Author : Dvornikov, M., Guards Lt. Col.

Title : Notes of a pilot-inspector: 1. Against subjectivity and lack of coordination in the evaluation of the expertness of a pilot

Periodical : Vest. vozd. flota, 12, 8-13, D 1954

Abstract : In this article some problems of checking and evaluating the technique of aircraft piloting are considered. The author stresses objectivity, coordination and uniformity of checking. He criticises some units for lack of co-ordination. He cites examples of well-performed checking in some units, and mentions the difficulty of a good classification.

Institution : None

Submitted : No date

DVORNIKOV, M.

AID P - 1553

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 6/18

Author : Dvornikov, M., Guards Lt. Col.

Title : Training of masters of air combat and sharpshooting

Periodical : Vest. vozd. flota, 2, 36-41, F 1955

Abstract : The author briefly describes the fundamentals of contemporary air combat and then discusses suitable training in detail. He stresses the necessity of flying and training in complicated weather conditions. Examples are given and some names are mentioned.

Institution: None

Submitted : No date

DVORNIKOV, M.

AID P - 1811

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 6/18

Author : Dvornikov, M., Guards Lt. Col.

Title : Notes of a flight instructor. 3. Special features of training in the piloting of aircraft in overcast

Periodical : Vest. voz. flota, 3, 24-27, Mr 1955

Abstract : The author suggests a general method of training consisting of a well-defined program. He gives some examples of the application of his method and stresses the importance of blind flying. Some names are mentioned. Dvornikov's photo.

Institution: None

Submitted : No date

DVORNIKOV, Makar Matveyevich; KLITSA, B., red.

[Mechanization of free floating drive; from practices of the Makar'ev Floating Station] Mekhanizatsiia molevogo splava; iz opyta Makar'evskoi splavnoi kontroy. [n.p.] Kostromskoe knizhnoe izd-vo, 1963. 38 p. (MIRA 18:9)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411630008-8"

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411630008-8"

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411630008-8"

DVORNIKOV, N., and P'YANKOV, N.

They achieved positive results. Mias. ind. 23, No 4, 1952.

DVORNIKOV, O. I.; KOROTENITS'KA, S., redaktor; BEZP'YATOV, R., tekhnichniy redaktor

[Planning labor productivity and labor force in machine manufacturing plants] Planuvannia produktyvnosti pratsi i chysel'nosti robitnykiv na mashynobudivnomu zavodi. Kyiv, Derzh.vyd-vo tekhn.lit-ry URSR, 1957. 62 p. (MIRA 10:9)

(Labor productivity) (Machinery industry)

DVORNIKOV, P.I. [redacted]

USSR/Cultivated Plants. Potatoes. Vegetables. Melons M-5

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1615

Author : P.I. Dvornikov
Inst : Not Given
Title : The Early Tiraspol'skiy, a New Cucumber Variety

Orig Pub : Tr. Mold. ovoshche-kartof. orosit. opyt. st. Kishinev, Gosizdat Moldavii, 1956, 225-230

Abstract : The new variety was obtained through hybridization of one of the species of Chinese cucumbers with the variety Nerosimyye. Part of the hybrids selected were repeatedly pollinated with the pollen of the Neshchinskiy variety with subsequent selection having free-re-pollination. The Early Tiraspol'skiy has a high crop yeild and ripens earlier (6-14days) as compared with the Nezhinskiy variety. It is suitable for summer and post-harvest sowing after winter wheat, for peas after green peas, and others. The variety is allocated to the rayons of the Central and Southern parts of Moldavia.

Card : 1/1

DVORNIKOV, P. F.

For increased viability of forest stock. Les. khoz. 5, No 8, 1952.

1. DVORNIKOV, P. P.

2. USSR (600)

4. Spindle Tree

7. Use every means to raise the level of spindle tree cultivation, Les khoz., 5, No 12, 1952.

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

TIKHOMIROV, Boris Nikolayevich; KOROPACHINSKIY, Igor' Yur'yevich; FALALEYEV, Eduard Nikolayevich; DVORNIKOV, P.P., red.; SVETLAYEVA, A.S., red. izd-va; LOBANKOVA, R.Ye., tekhn. red.

[Larch forests of Siberia and the Far East] Listvennichnye lesa Sibiri i Dal'nego Vostoka. Moskva, Goslesbumizdat, 1961. 163 p. (MIRA 14:12)

(Siberia—Larch)

DVORNIKOV, S.

Ventilated keramzit-concrete roof panels. Na stroi.Ros. 6 no.2:21 F '65. (MIRA 19:1)

1. Direktor proizvodstvennogo ob"yedineniya "Stroitel'" Glavnogo upravleniya po stroitel'stvu v Moskovskom ekonomicheskom rayone Ministerstva stroitel'stva RSFSR.

DVORNIKOV, S.L., inzhener.

Experience in producing wire-reinforced concrete floor beams.
Stroi.prom. 35 no.6:30-31 Je '57. (MIRA 10:10)
(Reinforced concrete) (Floors, Concrete)

DVORNIKOV, S.L., inzh.

Plant production of rods for wire-reinforced concrete. Stroi.prom. 35 no.9:42-44 S '57. (MIRA 10:10)
(Zhukovskiy--Prestressed concrete)

DVORNIKOV, S.L., inzh.

Efficiency of using multi-hollow floorings. Stroi.prom. 36 no. 4:40-42 Ap '58. (MIRA 11:4)
(Floors, Concrete)

DVORNIKOV, V., mayor

We are increasing the mileage between overhauling operations. Voen. vest. 41 no.7:58-59 Jl '61. (MIRA 15:1)
(Tanks (Military science))

BRUSENTSEV, F.A.; DVORYANKIN, V.F.

Method of least squares in the structural analysis of crystals.
Zhur. strukt.khim. 4 no.3:465-481 My-Je '63. (MIRA 16:6)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.
(Crystallography) (Lattice theory)

DVORNIKOV, V.M.

Is it necessary to moisten the fibers in linen manufacturing? Tekst. prom. 19 no.9:64-66 S '59. (MIRA 12:12)
(Linen)

DVORNIKOV, V.M., inzh.

Efficient utilization of raw materials in flax processing enterprises. Tekst. prom. 20 no. 11:70-71 N '60.

(MIRA 13:12)

(Flax)

DVORNIKOV, V.M.

Make wider use of potentials in the primary processing of flax and hemp. Tekst. prom. 24 no.8:14-19 Ag '64.
(MIRA 17:10)

1. Starshiy inzh. Glavnogo upravleniya po snabzheniyu i sbytu syr'ya tekstil'noy promyshlennosti pri Sovete narodnogo khozyaystva RSFSR.

DVORNIKOV, V.M.

Efficient utilization of fibers obtained from the scutchers. Tekst.prom. 25 no.1:27-28 Ja '65. (MIRA 18:4)

1. Starshiy inzh. Rostglavtekstil'snabsbytsyr'ye.

DVORNIKOV, V.N., inzh.

Problems in the electrification of the Kazakhstan Railroad. Zhel. dor. transp. 43 no. 7:18-21 Jl '61. (MIRA 14:7)

1. Nachal'nik sluzhby elektrifikatsii i energeticheskogo khozyaystva Kazakhskoy dorogi.

(Kazakhstan—Railroads—Electrification)

DVORNIKOV, V.S.

Automatic machines for packing and boxing ball bearings. Stan. i instr. 28 no.12:19-21 D '57. (MIRA 10:12)
(Ball bearing) (Packing for shipment)

S/121/61/000/008/002/006
D041/D113

AUTHOR: Dvornikov, V.S.

TITLE: Pneumatic suction systems for machining the surface of various work pieces by means of steel shot

PERIODICAL: Stanki i instrument, no. 8, 1961, 7-12

TEXT: Since it is impossible to remove scale, corrosion etc. from the inner surfaces of forgings and stampings of relatively small diameter, using a broad steel-shot jet produced by rotary shot blasting installations, pneumatic suction sytems are used for this purpose. The suction system must have small dimensions, a simple design, and a short suction nozzle in which the shot is moved at not more than 0.1 m/sec. The basic factors affecting the speed of the shot ejected from the working nozzle, the amount of shot ejected per unit of time, and the rational air consumption, are the following: the vacuum in the suction chamber, air pressure, the diameter, length and shape of the working nozzle, and the diameter of the air nozzle. The experimental data obtained by TsITM indicate that the air consumption increases with increasing diameter of the air nozzle and increasing pressure in the system, while the increase in the air consumption at constant

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pressure is directly proportional to the increase of the air nozzle's cross-section. The author compared two new shot blasting installations: (1) with one working nozzle, and (2) with two working nozzles (Fig. 7) placed at an angle of 30° to each other. Cut steel spring wires of the ПК (PK) brand 1.6, 0.8 and 0.6 mm in diameter were used as shot. The shot was heated to 820°C and hardened in water. The peripheral speed of the machined surface was 2 to 2.5 m/min. The following conclusions were drawn: (1) The two-nozzle system works with a 2.5-3 times smaller consumption of power and compressed air and a 2-2.5 times higher efficiency than conventional shot blasting installations with one working nozzle. (2) Air consumption can be reduced by using a nozzle 3.5 mm in diameter instead of a 6-7 mm nozzle of the present systems. (3) The angular arrangement of the nozzles in two planes considerably increases the shot's effectiveness. There are 8 figures, 1 table and 1 Soviet reference.

AFANAS'YEV, G.D.; AFANAS'YEV, L.M.; BELIKOV, B.P.; KOPTEV-DVORNIKOV, V.S.; MIKHAYLOV, N.A.; MONICH, V.K.; FAVORSKAYA, M.A.; prinimali uchastiye: DISTANOVA, A.N.; YELISEYEVA, O.P.; MARFUNIN, A.S.; YUNAKOVSKAYA, Yu.V.; USTIYEV, Ye.K., doktor geol.-min. nauk, otv. red.; NEMANOVA, G.F., red. izd-va; BYKOVA, V.V., tekhn. red.

[Principles of the geological mapping of intrusive and extrusive formations as exemplified by petrographic studies in Kazakhstan, Transbaikalia, the Northern Caucasus, and Maritime Province] Printsipy geologicheskogo kartirovaniia intruzivnykh i effuzivnykh formatsii na primere petrograficheskikh issledovanii Severnogo Kavkaza, Kazakhstana, Zabaikal'ia i Primor'ia. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po geol.i okhrane nedr, 1960. 341 p. (MIRA 14:5)

1. Akademiya nauk SSSR. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii. 2. Sotrudnik Instituta geologicheskikh nauk AN Kaz. SSR (for Monich). 3. Sotrudnik Vsesoyuznogo geologicheskogo instituta (for Mikhaylov) 4. Sotrudniki Moskovskogo gosudarstvennogo universiteta (for Yunkovskaya, Distanova)

(Rocks, Igneous)

DVORNIKOV, V.S.

Step-by step toothed accumulating conveyer for transporting straight shafts. Stan.i instr. 32 no.7:10-13 Jl '61. (MIRA 14:6)

(Conveying machinery)

DVORNIKOV, V.S.

Pneumatic suction system for peening surfaces of various objects with steel shot. Stan.i instr. 32 no.8:7-12 Ag '61. (MIRA 14:8)

(Shot peening)

DVORNIKOV, V.S.

Vertical rack-type step-by-step conveyer. Stan.i instr. 32 no.10:19-20 O '61. (MIRA 14:9)

(Conveying machinery)

L 44414-66 EWT(d)/FSS-2/EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6024902 (A) SOURCE CODE: UR/0317/66/000/007/0054/0061 40

AUTHOR: Dvornikov, Yu., (Colonel, Corps of Engineers); Kudashev, G., (Lieutenant Colonel, Corps of Engineers, Candidate of Technical Sciences) 38 B

ORG: none

TITLE: Preservation and storage of communication equipment

SOURCE: Tekhnika i vooruzheniye, no. 7, 1966, 54-61

TOPIC TAGS: communication equipment, equipment preservation, equipment storage, silica gel

ABSTRACT: Methods of protecting communication equipment by means of silica gel against high relative humidity are recommended. The equipment is stored with the silica gel under a sealed cover made of organic film of low penetrability. Calculations and experiments have demonstrated that in the moderate climate of central USSR covers made of a 0.15-mm thick polyethylene film preserves equipment for about three years if it is covered with 1 to 1.2 kg of silica gel for each

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L 44414-66

ACC NR: AP6024902

1 m^2 of the cover surface. It is recommended that the polyethylene film of the cover should be 0.15—0.2 mm thick. All the apertures and slots of automobile and armored transport bodies are plastered with a water resistant material and 1.0—1.5 kg of silica gel for each 1 m^2 of the sealed surface is placed inside the body. This method is used for communication equipment inside the automobiles. The automobiles themselves should be kept in unheated sheds. Tank gauze, tank glue, and polyethylene tape are used as sealing materials. The relative humidity is checked by the color of the silica gel inside the body which turns rose when the humidity reaches about 55%. In general, the permissible humidity for any method of preservation should not exceed 55%. When this limit is exceeded the moist silica gel has to be replaced. Orig. art. has: 4 figures. [DW]

SUB CODE: 11/ SUBM DATE: none/

Card 2/2

DVORNIKOVA, G.G.

KODZHAKULIYEV, G.K.; DVORNIKOVA, I.M.

Effect of "chal", a lactate product, on the enzymic activity of intestines in health and in pathology. Zdrav. Turk. 8 no.2:12-15 F'64 (MIRA 17:4)

1. Iz kafedry gospital'noy terapii (zav. - dotsent G.K. Khodzhakuliyev) Turkmenskogo gosudarstvennogo meditsinskogo instituta.

DVORNIKOVA, I.V.; STARTSEV, G.P.; GOLOVANOVA, M.N.

Measuring the concentration of atoms in a d.c. arc from the self-reversal of spectrum lines. Fiz.sbor. no.4:61-64 '58. (MIRA 12:5)

1. Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I.Vavilova.

(Electric arc) (Spectrum, Atomic)

Sov/51-4-4-1/24

AUTHORS: Dvornikova, I.V. and Nagibina, I.M.

TITLE: Determination of the Degree of Non-uniformity in DC and AC Arc Discharges (Opredeleniye stepeni neodnorodnosti dugovogo razryada postoyannogo i peremennogo toka)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol IV, Nr 4, pp 421 - 429 (USSR).

ABSTRACT: The present paper describes experimental investigation of non-uniformity in spatial distribution of excited and normal atoms and ions in arc discharges. The investigation is based on the theory of emission by a non-uniform source given by Cowan and Dieke (Ref 5) and on new experimental data of distribution of temperature of neutral atoms across an arc discharge (Refs 3, 4). The non-uniformity is determined from the depth of dips of self-reversed multiplet lines. The AC and DC arcs were burning at atmospheric pressure. Non-uniformity was determined for neutral atoms of chromium and manganese and ions of calcium and strontium. To measure the dip in self-reversal lines, a Fabry-Perot etalon was used together with spectrographs of high dispersive power. The optical apparatus used to study DC arcs is shown in Figure 4, while that used for AC arcs is shown in Figure 5. In both figures light from arc 1 was directed by a lens 2 onto a Fabry-Perot etalon 3. A

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focusing lens 4 projected a sharp image of interference rings onto a spectrograph slit 5. To study DC arcs, an auto-collimating spectrograph with a diffraction grating (600 lines/mm) 6 and a plane mirror 8 were used (Figure 4). Dispersion of the spectrograph 6 was 4 Å/mm in the second order. In the apparatus for study of AC arcs (Figure 5) a triple-prism glass spectograph G-50 was used (see Ref 7). In the visible region silvered mirrors with a coefficient reflection of 90% were used in the Fabry-Perot etalon; in the ultra-violet region, aluminized mirrors with 83% relfectivity were used. Separation between the etalon plates was caried from 2 to 5 mm. The DC arc discharge was produced between a copper anode and a nickel-chromium alloy or calcium cathode. The AC arc was produced between spectrally pure carbon electrodes. The multiplets of Ca II, Sr II, Cr I and Mn I are listed in Table 1. Figure 6 shows photographs of self-reversed lines of green and violet triplets of chromium. By way of example, Table 2 shows the results of determination of the degree of non-uniformity in the arc discharges, n (as defined in Ref 5) from the data for lines Ca II at 3968.5 and 3933.7 Å. Table 3

gives the results of calculation of n based on the green triplet of chromium. All results are summarized in Table 4. The following conclusions are made: 1) AC and DC arc discharges exhibit only a small degree of non-uniformity (n = 1.5 for neutral atoms of chromium and manganese); 2) Variation of the arc current and concentration of atoms in the arc produces some change in the degree of non-uniformity; 3) For ions the arc discharges are found to be more uniform than for neutral atoms (e.g. n = 1.3 for Ca II); ions are distributed in the central portion of the arc discharge where temperature varies only slightly.

The authors thank V.K. Prokof'yev for valuable advice and S.A. Orlova for her help in this work.

Sov/51-4-4-1/24

Determination of the Degree of Non-uniformity in DC and AC Arc Discharges

There are 6 figures, 4 tables and 10 references, 5 of which are Soviet, 3 German, 1 Dutch and 1 in English.

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S.I. Vavilov (State Optical Institute imeni S.I. Vavilov) Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: May 6, 1957

Card 4/4 1. Electric arcs--Physical properties

AUTHOR: Dvornikova, I. V. SOV/48-22-6-10/28

TITLE: The Dependence of the Full Intensity of Spectral Lines on the Absolute Concentration of Atoms in the Arc Discharge (Zavisimost' polnoy intensivnosti spektral'nykh liniy ot absolyutnoy kontsentratsii atomov v dugovom razryade)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958, Vol. 22, Nr 6, pp. 677-680 (USSR)

ABSTRACT: According to what the authoress says, the said dependence with respect to arc-, spark- and other special light sources used in spectral analysis has not been sufficiently well investigated because for the construction of the corresponding growth curves reliable methods are as yet not available for the purpose of determining the concentration of atoms within the discharge area. The attempt is therefore made by the present paper to determine the concentration of atoms in the inter-electrode domain from the reabsorption of the spectral lines. The authoress here refers to the theory developed by Cowan and Dieke (Kovan and Dike) (Ref 2), according to which the contours of the reabsorbed

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line can be determined for any p (parameter of absorption in the source) and n (parameter of the inhomogeneity of the source). It is further taken into consideration that with an increase of the atom concentration of an element in the light source the reabsorption of the spectral lines of this element increases as well; there follows a broadening and self-reversal of these lines. When using the mathematical expression of the theory by Cowan and Dicke the ratios between the width of the spectral line and the p-value as well as between the p-parameter and the dip of the self-reversal line can be determined. It is further pointed out that in the USSR special experiments were carried out in order to check the above mentioned method of determining absolute atom concentrations from the reabsorption of spectral lines also by the "crutch" method (metod kryukov) developed by Rozhdestvenskiy. Results were found to agree. (This was mentioned at the X. congress on spectroscopy). Furthermore, a device for determining atom concentration is described, which consists of the following parts: Source, lens, interferometer, objective, spectrograph, and

additional lens. From the diagrams given it may be seen that the width of the lines increases in accordance with the increase of the p-value. Similar statements were made also by I. M. Nagibina (Ref 5) in an earlier paper. There are 4 figures and 5 references, 4 of which are Soviet.

1. Spectroscopy--Effectiveness --Equipment 2. Spectrographic analysis

ABRAMOVA, T.G.; BOBOK, B.D.; DVORNIKOVA, L.L.; ROMANOVA, V.P.; FILENKO, R.A.

Natural conditions and some problems of the development of agriculture in the central part of the Karelian Isthmus. Vest.LGU 17 no.6:109-120 '62. (MIRA 15:4)
(Karelian Isthmus--Agriculture)

DVORNIKOVA, L.L.

Soils of southwestern Vologda Province as exemplified by the land use on one of the collective farms in Ustyuzhna District. Vest.LGU no.12:135-147 '61. (MIRA 14:6)
(Vologda Province--Soils)

DVORNIKOVA, L.L.

The fourteenth session dedicated to the 40th anniversary of the Great October Socialist Revolution. Vest. LGU 13 no.6:150-151 '58. (MIRA 11:5)

(Geography)

DVORNIKOVA, L.L.

Characteristics of arable lands in the northwestern part of Vologda Province. Vest. LGU 14 no.24:142-153 '59.
(MIRA 12:12)

(Vologda Province--Soils)

DVORNIXOVA, L.L.

Soil zoning of the western part of Vologda Province. Vest. LGU 17 no.12:89-94 '62. (MIRA 15:7)
(Vologda Province--Soils)

DVORNIKOVA, L.L.

Soil cover and soil regionalization in Vologda Province.
Nauch. dokl. vys. shkoly; biol. nauk no.4:180-185 '64.
(MIRA 17:12)

1. Rekomendovana Nauchno-issledovatel'skim geograficheskim institutom Leningradskogo gosudarstvennogo universiteta im. A.A. Zhdanova.

L 10655-63

EWT(q)/EWP(m)/BDS--AFFTC/ASD--Ir-4--WW/JW/JG

ACCESSION NR: AP3001215 S/0078/63/008/006/1345/1354

62

AUTHOR: Ambrozhiy, M. N.; Dvornikova, L. M.

TITLE: Thermal decomposition of smarium and tetravalent cerium hydroxides

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 6, 1963, 1345-1354

TOPIC TAGS: samarium, cerium, tetravalent cerium hydroxides, dissociation products

ABSTRACT: Thermal decomposition curves for samarium and for tetravalent cerium [illegible] are given. The composition of the thermal dissociation products was [illegible] primarily by the third component [illegible] kite-water. [illegible] hydroxides at ambient temperature [illegible] and Ce(OH) [illegible] and Ce(OH) sub 4. Orig. art. has [illegible] figures and [illegible] equations.

ASSOCIATION: Saratovskiy gosudarstvenny*y universitet im. N. G. Cherny*shevskogo (Saratov State University)

SUBMITTED: 25Aug62 DATE ACQD: 01Jul63 ENCL: 00

Card 1/3

L 05722-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AR6020541 SOURCE CODE: UR/0081/66/000/001/B068/B068

AUTHOR: Dvornikova, L. M.

TITLE: Thermographic study of hydroxides of certain rare earth elements

SOURCE: Ref zh. Khim, Part I, Abs. 1B483

REF SOURCE: Tr. molodykh uchenykh. Saratovsk. un-t. Vyp. khim. Saratov, 1965, 92-99

TOPIC TAGS: praseodymium compound, neodymium compound, thermographic analysis, hydroxide

ABSTRACT: The thermographic characteristics of the decomposition of Pr and Nd hydroxides are given. The composition of the products of thermal dissociation has been refined by studying the systems rare earth hydroxides - water - NaCl by the third-component method. It was found that under ordinary temperature conditions freshly obtained Pr and Nd hydroxides have the respective compositions $Pr(OH)_3 \cdot H_2O$, $Nd(OH)_3 \cdot H_2O$. The detachment of water with the formation of $Pr(OH)_3$ and $Nd(OH)_3$ takes place only at ~ 100°. Authors' summary. [Translation of abstract]

SUB CODE: 07

Card 1/1

AMBROZHIY, N.M.; DVORNIKOVA, L.M.; LAZAREVA, L.S.

Europium and gadolinium hydroxides and products of their thermal decomposition. Zhur.neorg.khim. 11 no.1:86-89 Ja '66. (MIRA 19:1)

1. Saratovskiy gosudarstvennyy universitet i Nauchno-issledovatel'skiy institut khimii, kafedra neorganicheskoy khimii. Submitted February 1, 1964.

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CP

111

The role of carbohydrate in heart muscle. D. Ferdman and P. Dvornikova. *Bull. biol. méd. expt. U. S. S. R.* 5, 82-4 (1938) (in German).—Glycogen increases in the heart of hibernating marmots while it decreases in the liver and muscle during hibernation. The lactic acid content of the heart muscles at the same time is considerably lower than during the summer period. S. A. Karjala

A.S.M. - S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

11 E

The chemical composition of the brain. D. L. Ferdman and P. D. Dyomikova. *Biochem. J.* (Ukraine) 15, No. 1, 79-81 (in Russian, 81-82; in English, 82-3) (1940).—The creatinephosphoric and the adenosine triphosphoric acid content of the brain of a hibernating animal, frozen *in situ*, is higher than that of the narcotized control. The acid content is greatly reduced when the brain is removed from the decapitated animal's skull into liquid air, and that of the controls still remains lower than the hibernates. The lactic acid content is higher in the controls. Siberian marmots were used.

B. Gutoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

11F

Data on the glycogen content in the tissues of hibernating animals. P. Dr. Dvornikova. Biochem. J. (Ukraine) 15, No. 1, 85-90(in Russian, 90-1; in English, 91)(1940). The glycogen content is reduced in the liver and muscles during hibernation, and is raised in the lungs and the cardiac muscle. Possibly the glycogen accumulation creates favorable conditions for the heart and lung activity upon waking.

B. Gutoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CA

11A

Isolation in the crystalline state and some properties of adenosinetriphosphate-arginine transphosphorylase. E. T. Smirnov, P. D. Dvornikova, and R. G. Degtyar. *Doklady Akad. Nauk S.S.S.R.* 67, 341-4(1949).—Muscle of claws and legs of crayfish minced at 0° are extd. with ice water for 40 min., squeezed out, and centrifuged. The soln. treated with $(NH_4)_2SO_4$ (43.2 g. 100 ml.) and rapidly filtered gives in 24 hrs. 2 sets of crystals, largely bipyramidal and some cubic. The sepn. is complete in 5-10 days in the cold, when the bipyramids reaching large dimensions collapse; the mixt. is centrifuged just before this takes place and the product is stored in small vol. of $(NH_4)_2SO_4$ soln. (0.6 satd.). Yield is 1.36 g./kg. The sepn. of the 2 forms: the original soln. is kept 40-8 hrs. at 0° to complete crystn. of cubic form, which is sepd. by centrifuging and let stand several hrs. at 20° when the bipyramidal form crystallizes in the pure state. The latter catalyzes the reaction arginine phosphate + adenosinediphosphate ⇌ arginine + adenosinetriphosphate in glycine buffer at pH 9.1. The product contains 2700-3000 transphosphorylase units per mg. The enzyme is inactivated by 10 min. at 50° and on its dialysis against distd. water an inactive ppt. forms, while dialysis against 0.5-1.0% KCl leads to partial denaturation; dialysis against $(NH_4)_2SO_4$ does not denature the product, and 0.015 *M* arginine stabilizes it to 10 min. at 50°. The isoelec. point is pH 3.5. The equil. const. of the above reaction system at pH 9.1 is 6, at pH 6.1 500; at pH 9.1 0.01 *M* Mg increases it to 12, 0.01 *M* Ca to 24, 0.01 *M* Mn 54. The cubic crystals have isoelec. point at pH 5.8 (pptn. takes place only on warming in the acetate buffer, in contrast to the other form) and the material has no transphosphorylase activity in the above system, but gains it on addn. of 0.01 *M* Mg or 0.005 *M* Mn, which vanishes after 3 crystns. Spectral analysis of both forms shows 0.267% Mn and traces of Mg and Si. G. M. K.

InstBiochemistry im A.N. Bakh,
AS USSR

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411630008-8"

DVORNIKOVA, P.D.

VENDT, V.P.;DVORNIKOVA, P.D.;ANIKA, I.A.

Spectrophotometric studies on protein solutions in various pH of medium. Doklady Akad nauk SSSR 86 no. 6:1167-1170 21 Oct 1952. (CIML 23:3)

1. Presented by Academician A. V. Palladin 19 August 1952. 2. Institute of Biochemistry, Academy of Sciences Ukrainian SSR.

DVORNIKOVA, P. D.

Isolation of crystalline myogen A and B from the muscles of hogs and their separation by fractional crystallization. P. D. Dvornikova (Inst. Biochem., Acad. Sci. Ukr.S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 25, 157-70(in Russian, 170-2)(1953).—The freshly obtained muscles, chilled and ground, were extd. with cooled water (mixing occasionally) for 40-60 min.; the strained ext. was kept for 10-15 days at 3-5°; $(NH_4)_2SO_4$ was added to 0.4-0.6 of satn., the product filtered, and dissolved in cold water and neutralized with 0.2*N* KOH to pH 6.4-6.6 for myogen A and 5.7-5.8 for B, and filtered. Phosphate buffer (0.2*M*) had to be added (for filtration) and $(NH_4)_2SO_4$ soln. was added to the filtrate to cloudiness. Crystals appeared after 5-30 days (at 3-0°); when seeded, after 5-24 hrs. The crystals of A, in the form of a bipyramid in a hexagonal system (like those of the rabbit) required a concn. of about 20% of protein; myogen B crystd. from a more dil. soln. (6-10%) in long, thin plates. The A form had a high aldolase activity; B (recrystd. 5 times) showed none. In electrophoresis, B behaved as a single component; A showed an addnl. (smaller) peak after 90 min., indicating nonhomogeneity. The mol. wt. of A (osmotic) was about 148,000. The isoelec. points of A and B were pH 6.2-6.5. The mixed, crude fractions contained aldolase, phosphoglucomutase, dehydrogenase of α-glycerophosphate, adenosinetriphosphate-creatinoferase, and, apparently other enzymes. The B myogen had none of these.

B. Gutoff

NARNIKOVA, P.D.

NORNKOVA, P.D.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411630008-8"

DUBAIKEVA, KD.

The properties of crystalline phosphofructokinase of rabbit's

DVORNIKOVA, P.D.; GULIY, M.F.; POPADYUK, O.Ya.

Phosphofructokinase from the muscles of rabbits [with summary in English]. Ukr.biokhim.zhur. 29 no.1:42-53 '57. (MLRA 10:5)

1. Institut biokhimii Akademii nauk Ukrains'koi RSR, Kiiv.
(PHOSPHOFRUCTOKINASE) (MUSCLE)

GULYY, M.F.; DVORNIKOVA, P.D.; POPADYUK, Ye.Ya.

Increasing the aldolase activity of myogen A by various purified and crystalline proteins [with summary in English]. Ukr.biokhim. zhur. 29 no.2:152-165 '57. (MLRA 10:7)

1. Institut biokhimii Akademii nauk Ukrainskoy SSR, Kiyev.
(ADOLASE) (MYOGEN)

DVORNIKOVA, P.D.

GULIY, M.F.; DVORNIKOVA, P.D.; POPADYUK, O.Ya.

Nature of the activation of the enzymic action of crystalline muscle phosphofructokinase by myogen A [with summary in English]. Ukr. biokhim.zhur. 29 no.4:392-399 '57. (MIRA 11:1)

1. Institut biokhimii AN URSR, Kiiv.
(MYOGEN) (PHOSPHOFRUCTOKINASE)

DVORNIKOVA, P.D. [DVORNYKOVA, P.D.], GULYY, M.F. [GULYI, M.F.], POPADYUK, Ye.Ya. [POPADIUK, O.IA.], MARYNENKO, F.P.

Phosphofructokinase and other crystalline proteins from cat muscles [with summary in English]. Urk.biokhim.zhur. 30 no.2:187-199 '58 (MIRA 11:6)

1. Institut biokhimii AN URSR, Kiiv.
(PHOSPHORFUCTOKINASE)
(PROTEINS)

DVORNIKOVA, P.D.

Methods of production and certain properties of crystalline muscle proteins. Acta physiol.hung 17 no.2:117-131 '60.

1. Institut biokhimii Akademii nauk USSR, Kiyev.
(MUSCLE PROTEINS chem)

BELIK, Ya.V. [Bielik, IA.V.]; DVORNIKOVA, P.D. [Dvornykova, P.D.]; SILAKOVA, G.I. [Sylakova, H.I.]

Problems in biochemistry at the Ninth Congress of the All-Union Society of Physiologists, Biochemists, and Pharmacologists. Ukr.biokhim.zhur. 32 no.1:149-164 '60. (MIRA 13:6)
(BIOCHEMISTRY--CONGRESSES)

DVORNIKOVA, P.D. [Dvornykova, P.D.]; GRIGOR'YEVA, V.A. [Hryhor'ieva, V.A.]

Incorporation of methionine-S^{35} into various enzymatic proteins of muscles. Ukr.biokhim.zhur. 32 no.2:192-202 '60. (MIRA 13:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.
(METHIONINE)
(PROTEINS)

DVORNIKOVA, P.D.; GULYY, M.F. [Hulyi, M.F.]; FEDORCHENKO, Ye.Ya. [Fedorchenko, O.Ya.]; MARTYNENKO, F.P.

Method of isolation and some properties of crystalline muscle phosphopyruvic kinase. Ukr. biokhim. zhur. 32 no.6:783-792 '60. (MIRA 14:1)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.
(PHOSPHOPYRUVIC KINASE)

SHAMRAY, Ye.F. [Shamrai, IE.F.]; LOSITSKAYA, V.M. [Losyts'ka, V.M.]; DVORNIKOVA, P.D.

Effect of galascorbin on glycolysis. Ukr. biokhim. zhur. 33 no.5: 699-708 '61. (MIRA 14:10)

1. Department of Biochemistry of Kiyev Medical Institute of the Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.

(GLYCOLYSIS) (GALASCORBIN)

KOROTKORUCHKO, V.P.; DVORNIKOVA, P.D.; ISHCHENKO, I.N.; Prinimal uchastiye: FEDORCHENKO, Ye.Ya.; LEVRESHCHUK, L.N.; FEDOROVA, A.P.; MALINOVSKIY, Yu.I.

Activity of some glycolytic enzymes in the blood of patients with cancer. Vop. med. khim. 7 no.3:273-276 My-Je '61. (MIRA 15:3)

1. First Surgical Clinic of the "A.A. Bogomolets" Medical Institute, and Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiev.
(CANCER) (GLYCOLYSIS)

DVORNIKOVA, P.D.; PECHENOVA, T.N. [Pechenova, T.M.]

Activity of some glycogenolytic enzymes in various muscles of adult rabbits and embryos. Ukr.biokhim.zhur. 34 no.1:118-129 '62. (MIRA 17:5)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev.

GULYY, M.F. [Hulyi, M.F.]; DVORNIKOVA, P.D.; FEDORCHENKO, Ye.Ya [Fedorchenko, O.IA.]; PECHENOVA, T.N. [Pechenova, T.M.]

Mechanism of enzyme activation with the interaction of purified proteins. Ukr. biokhim. zhur. 34 no.2:187-198 '62. (MIRA 16:11)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiev.

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Values of the molecular weight of a mixture of crystalline myogen A and dehydrogenase of d-glyceraldehyde-3-phosphate from the muscles of a rabbit. Ukr. biokhim. zhur. 34 no.3: 327-337 '62. (MIRA 18:5)

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GULYY, M.F. [Hulyi, M.F.]; PECHENOVA, T.N. [Pechonova, T.M.]; DVORNIKOVA, P.D. [Dvornykova, P.D.]

Formation of acetyl phosphate in liver homogenates of animals. Ukr.biokhim.zhur. 34 no.6:846-852 '62. (MIRA 16:4)

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(LIVER) (ACETYL PHOSPHATE)

GULYY, M.F., akademik; PECHENOVA, T.N.; DVORNIKOVA, P.D.

Formation of acetyl phosphate in animal liver homogenates. Dokl. AN SSSR 146 no.4:933-936 O '62. (MIRA 15:11)

1. Institut biokhimii AN UkrSSR. 2. AN UkrSSR (for Gulyy).
(LIVER EXTRACT) (PHOSPHATES)

SORENI, E.T.; DVORNIKOVA, P.S.

Isolation of two new crystalline protein fractions from rabbit-muscle plasma. Ukr. biokhim.zhur. 22 no.2:127-134 '50. (MLRA 9:9)

1. Institut biokhimii Akademii nauk URSR, Kiiv.
(PROTEINS) (MUSCLE)