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PUSHKIN, Veniamin Noyevich; ZGURSKIY, Vladimir Semenovich; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Man and automatic machine; psychology and technology]Chelovek i avtomat; psikhologiin i tekhnika. Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.6) (MIRA 16:2) (Automatic control) (Human engineering)

ZAVALISHINA, D.N.; PUSHKIN, V.N.

Mechanisms of operative thinking. Vop. psikhol. 10 no.3: 87-100 My-Je '64. (MIRA 17:9)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,

PUSHKIN, Veniamin Noyevich; IVANOV, S.M., red.

[Heuristic and cybernetics] Evristika i kibernetika. Moskva, Znanie, 1965. 47 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.6) (MIRA 18:4)

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L 37106-66 EWP(k)/EWT(d)/EWF(h)/EWP(l)/EWP(v) IJP(c) GG/BB/BC/JT/JXT(BF)/GD

ACC NR: AT6012884

SOURCE CODE: UR/0000/65/000/000/0037/0046

AUTHOR: Pushkin, V. N.

16

ORG: None

BHI

TITLE: Solving problems of complex object control

SOURCE: Sistema chelovek i avtomat (Man-automaton systems). Moscow, Izd-vo Nauka, 1965, 37-46

TOPIC TAGS: bionics, man machine communication, human psychology

ABSTRACT: The author studies the problems of establishing efficient connections between the outputs of machines and the inputs of man. Basic psychological problems in the manutomaton system are studied. These problems are sensation and perception. Man serves as a regulator in a large system. The interaction of man as a regulator with a large system is much more complex than the interaction of the outputs of an automaton and the inputs of man. The following hypothetical criteria are given for differentiating reaction from operative thinking. Operative thinking takes place if the operator or dispatcher has to reconstruct the elements mentally before reacting to one or another problem situation.

Card 1/2

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ACC NR: AT6012884

Operative thinking has to be differentiated from complex reactions. In order to increase the reliability of production systems, operative thinking must be replaced by reactions. There are systems for which it is impossible to determine all possible complex situations and methods of necessary action. For such systems operative thinking is the only solution. The mechanisms of operative thinking are close to those of the psychological problem solving mechanism. Problem solving has been studied in the psychology of thought processes for the last 70 years. The trial and error theory is most prevalent. Chess problems are used by the author as experimental material. These were chosen because they represent typical operative thinking. Chess appears to be a key to the explanation of the possibility of automating man's intellectual activity. An experiment was performed in which the eye movements of the subject were recorded as he analyzed the chess board. The path of the eye movements along the chess board was established. It is understood that not all movements are directly connected with thought processes. A certain percentage of these movements are related to perception, but it is evident that in the majority of cases they are directly related to problem solving. The perception of the elements of the problem, the chessmen, can be studied as a nearly automated process. In this experiment the eye does not act as a sensory organ but as a thought organ. It was shown that trial and error is not involved in problem solving. Orig. art. has: 3 figures.

SUB CODE: 06,09 / SUBM DATE: 02Aug65 / ORIG REF: 005

Card 2/2

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314

AUTHOR:

Rubanova, M.R., Candidate of Technical Sciences, and

Pushkin, V.P., Technician.

TITLE:

A new method of inspecting welded joints on steam piping made of austenitic steel. (Novyy metod kontrolya svarnykh stykov paroprovoda iz austenitnykh staley.)

PERIODICAL: "Energomashinostroenie", (Power Machinery Construction),

1957, No. 5, pp. 22 - 25, (U.S.S.R.)

ABSTRACT:

When using ultrasonic defectoscope methods the most difficult case is that of heavy welded joints of austenitic steel. When ultrasonic waves are propagated in thick welded metal, and particularly in the zone of thermal influence, their intensity is greatly weakened by dispersion on the boundaries of crystallites. This causes a reduction in the depth of penetration of ultrasonic waves into the metal and reduces the sensitivity of this method of inspecting welded joints. False signals, which do not really originate in a defect are also observed. are caused by the reflection of the ultrasonic waves from the boundary of separation of the main metal and the weld which represents a sharp transition from fine grain to coarse grain structure.

This article describes work carried out by the Instrument Division of the Central Scientific Research Institute of Heavy Engineering in 1956, to develop procedures for the inspection in production of welded joints on steam piping of 219 x 27 mm diameter (made from steels EI-257 and lKhl8Hl2T) by ultrasonic The development work was carried out on lengths of methods.

A new method of inspecting welded joints on steam piping made of austenitic steel. (Cont.)

piping which had been welded and heat-treated at the Podolsk engineering works. Work was also done on steam piping for super-high steam conditions of the Cherepets power station. The ultrasonic method is now widely used for the inspection of welded joints during erection and major overhauls of power equipment. Ultrasonic and radiographic inspection methods were compared and it was found that thin cracks, which are typical defects of welded joints, are revealed only by the ultrasonic procedure.

The defects discovered as a result of preliminary examination of 70 welds in super-high-pressure steam piping of the Cherepets station are classified into the following groups:

(1) groups of pits in the weld and the main metal; (2) transverse cracks and pits along the line of melting; (3) pits and cracks in the welded joints that were not heat-treated; (4) longitudinal cracks formed in the welded metal when unconditioned electrodes were used; (5) cracks in the root of the welded joint. The ultrasonic inspection procedures were studied on standard specimens with large artificial defects in the upper and lower parts of the welded joints. In this way, the best position for the probe was det rmined. It is necessary not only to bcate the defect within the thickness of the weld but also to determine the

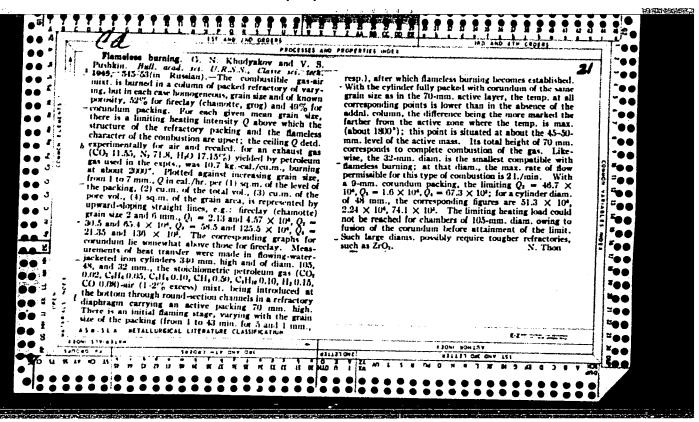
A new method of inspecting welded joints on steam piping made of austenitic steel. (Cont.)

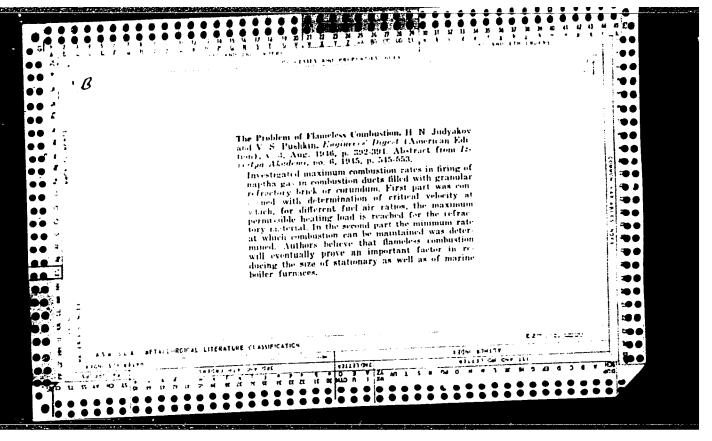
zone in which it is formed (welded metal, main metal, or region of thermal influence) and the appropriate procedure is described. The procedure for estimating the size of defect is described. The dimensions of localised defects are estimated from dimensions of their equivalent areas on comparing the amplitude of the signal reflected from the defect with the amplitude of the signal reflected from the standard hole in the standardised specimen. The dimensions of a defect of the type of a transverse crack in a steam pipe is determined by moving the probe along the weld, an intense reflected signal is obtained at the ends of the defect. The development of a defect within the thickness of the welded joint can be evaluated approximately by moving the probe perpendicular to the welded joint. In the majority of cases longitudinal cracks are concentrated in the upper half of the welded joint and are concentrated together. A number of examples are given of the commonest type of defects observed in samples in which the welding procedure was made abnormal with the aim of artificially forming cracks and also in production specimens and welded joints of actual steam pipes.

The following conclusions are drawn from the work which was carried out. It is in principle possible to inspect welded joints on steam pipes of 219 x 27 mm diameter made from steels EI-257 and 1Kh-18H12T. For this purpose a special ultrasonic defectoscope was developed with a working frequency

A new method of inspecting welded joints on steam piping made of austenitic steel. (Cont.)

of 1.8 Mc/s and prismatic probes operating at lower frequencies. An ultrasonic inspection procedure was also developed that passed production tests and is fully applicable for the inspection of welded joints on power station steam piping. Comparisons of the results of ultrasonic examination with cut sections of the welds and metallographic investigation of the defective zone of the welded joints confirm the effectiveness of the ultrasonic inspection procedure for welded joints of austenitic steel that have been heat-treated. It was etablished that it is possible reliably to reveal various defects of welding located in any part of the welded joint, such as transverse and longitudinal cracks (including internal, superficial and sub-surface). The presence of an accumulation of small longitudinal cracks 1.5 - 2 mm deep in the sub-surface layer of metal can be determined and individual non-metallic inclusions with an equivalent area not less than 20 mm can be observed. The procedure that was developed can be used to determine the co-ordinates of the defects, their extent or approximate size, their equivalent area and probable character. In the absence of any criteria about permissible defects it is not possible to reject welds at a power station because of defects discovered by ultrasonic methods. Therefore, in order to accumulate material, careful observations should be made on





PUSHKIN, 7. 3.

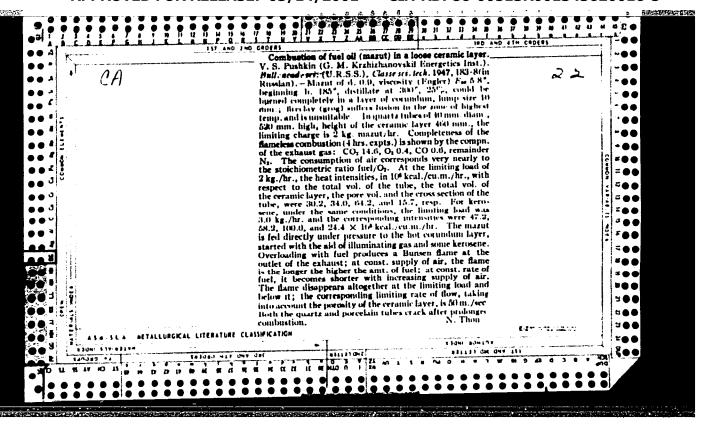
Mbr., Energetics Inst. G. M. Krzhizhanovskiy, Dept. Tech. Sci., -1945-c48-.

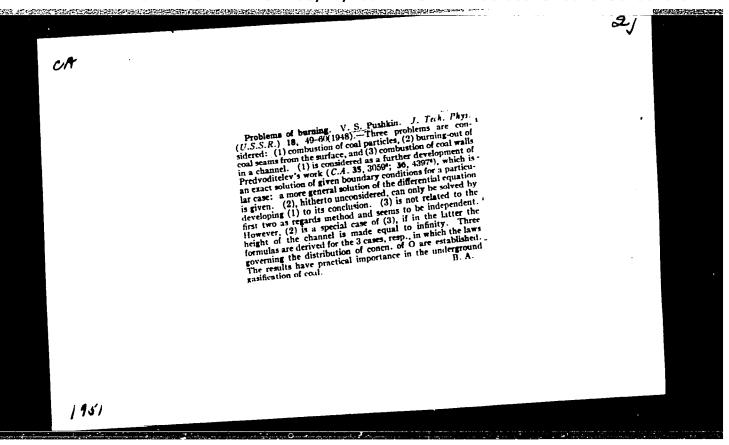
Power Engineering.

"On the Question of Thermal Conductivity in Solid Bodies," Zhur. Tekh. Fiz.,

16, No. 2, 1946;

"Some Problems of Combustion," 1bid., 18, No. 1, 1948.





15 A

1547. V. S. Pushkin, "On the question of heat conduction in solid bodies, III" on Russian , J. 1648. Phys. 28, 1048, 1121, Aug. 1918, vol. 18, pp. 1011–1059.

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The paper, which tollows two torner publications of the sons author 12, teta, Pape (28, 1946, vol. 10 nos. 2 vol. 12], evanages the problem of the mal conductation in the case of fasion. The system considers of a suscentification operators have about a suscentification of problem of the case is insulated. The hear that whose exterior typicalized states is insulated. The hear that has the direction of the cases and is symmetric about it. The interface between the solid highed phase is assumed to be

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31581 \$/124/61/000/011/020/046 D237/D305

26.4110

AUTHOR:

Pushkin, V.S.

TITLE:

On some properties of supersonic flows

IERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 11, 1961, 84; abstract 11B567. (Sb. Gazodinamika i fiz. goreniya.

M., AN SSSR, 1959, 69 - 78)

TEXT: Experiments were performed in order to investigate the interaction of a supersonic jet with a boundary layer in an aerodynumic turnel with nozzles at right angles, whose orifice angles are 20° and 40° . It was shown that when the jet of air enters the region of increased pressure, then the flow separates. Separated air jet in large angle diverging nozzle is unstable at low Mach numbers and deflects towards one of the walls. For some conditions the photographs given in the paper show two jets emerging from the nozzle. It is incorrectly indicated that a supersonic jet splits, as such a flow is not possible. Similar photographs may be obtain med also in case of an unstable jet oscillating between the walls

Card 1/2

CIA-RDP86-00513R001343620016-5"

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31581 8/124/61/000/011/020/046 On some properties of supersonic flow D207/D005

with a frequency higher than the speed of the cine film (5000 fra mes per sec.). The work also describes purely visual changes in the character of the flow in a supersonic jet emerging into the region of elevated pressure, when a rigid thin wedge is introduced into the jet. [Abstractor's note: Complete translation].

S/170/60/003/03/05/034 B014/B007

AUTHOR:

Pushkin, V. S.

TITLE:

The Determination of the Thickness of a Steady Shock Wave

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 3,

pp. 36-40

TEXT: In the introduction drawbacks of the formulas given by Taylor (Ref. 1) and Becker (Ref. 2) for the thickness of shock waves are discussed. The derivation of the formulas given by Taylor and Becker is briefly outlined, and it is found that the main drawbacks consist in different degrees of approximation being given for the thicknesses of shock waves of different intensities. The author avoids the aforementioned drawbacks by expressing the region of observable changes in the state of the shock wave in the direction of motion by the formulas $u_1 - u = +au_1$ and $u_2 - u = -au_2$, where u denotes the wave velocity, and $u_1 - u_2 + au_3$ the velocities of flow before and behind the shock wave, and

Card 1/3

The Determination of the Thickness of a Steady Shock Wave

S/170/60/003/03/05/034 B014/B007

are a proportionality factor. In this way he obtains formula (10), which is analogous to the Taylor formula (4), and formula (11), which is analogous to the Becker formula (6) for the thickness of the shock wave. These formulas are compared with one another and discussed in detail. In Table 1 the relative velocities are given for various Mach numbers of the leading flow. From the comparisons between the author's formulas and those obtained by Becker and Taylor (which are shown in Table 2) it may be seen that in the Mach number range of from 2 to oo the deviation according to the Becker formula increases to sevenfold its amount, and that according to the Taylor formula to tenfold its amount. If, in calculation, an error of 10% is assumed, the deviation in the Mach number system mentioned increases to threefold (Becker) and 1.5-fold (Taylor) its amount. There are 2 tables and 2 references: 1 English and 1 German.

Card 2/3

The Determination of the Thickness of a

5/170/60/003/03/05/034

Steady Shock Wave

B014/B007

ASSOCIATION:

Energeticheskiy institut im. G. M. Krzhizhanovskogo

AN SSSR, g. Moskva

(Institute of Power Engineering imeni G. M. Krzhizhanovskiy

of the AS USSR, City of Moscow)

Card 3/3

Some new data on the 15:226-238 160.	structure of shock waves.	Trudy MTIPP (MIRA 16:2)	

\$/124/62/000/006/014/023 D234/D308

26 4110

AUTHORS:

Yeroshenko, V. M., Morozov, M. G., Motulevich, V. P., Petrov Yu. N. and Pushkin, V. S.

PIGLA:

A gas dynamic installation with an MT-19 (IT-14)

interferometer

Platodical:

Referativnyy zhurnal, Mekhanika, no. 6, 1962, 44-45. abstract 6B283 (V. sb. Fiz. gazodinamika i teploob-

men. M., AN SSSR, 1961, 51-59)

TEXT: A short description of a wind tunnel constructed at the laboratory of combustion physics. The tunnel is fed either from an air bottle battery with a capacity of 17.6 m³ at a pressure of 200 kg/cm², or the air is sucked into the tunnel from the atmosphere. The working part of the installation is placed in an Eiffel chamber in which a rarefaction up to 5 - 10 mm Hg is produced by a vacuum installation consisting of five pre-vacuum pumps of FMI-4 (RMK-4) type and 12 vacuum pumps of BH-6 (VN-6) and BH-61 (VN-6G) types. The tunnel is provided with an electric heater se-

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5/124/62/000/006/014/023 D234/D308

A gas dynamic ...

curing an air temperature up to 400°C. A set of exchangeable plane profiled nozzles makes it possible to change the Mach's number from infrasonic values to $\hat{\mathbb{N}}=3.1$ during vacuum work. The dimension of the working part is 30 - 40 mm (exact dimensions are not given in the paper). The are optical viewing glasses in the side walls of the nozzle and in the cylindrical Eiffel chamber 1200 mm in diameter. The tunnel is provided with a coordinate device and with apparatus for measuring and recording the pressures and temperatures (thermocouples, manometers, vacuum meter, automatic recorders, oscillographs). Optical observation of flow can be made with the aid of the interference-shadow device IT-14 which is a combination of a Mach-Zender type interferometer with Tepler's device. Special measures are taken for isolating the optical device from vibrations (an isolated support with damping rubber cushions). The IT-14 device is provided with photographic accessories and illuminating devices of various types, among them a spark installation with an exposure less than 10-6 sec. The paper is illustrated by interferograms. / Abstracter's note: Complete translation. 7

FUSHKIN, V.S., inzh.

Chemical methods for copying drawings. Vest.mashinostr. 45
no.11:83-84 N '65.

(MIRA 18:12)

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18

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 9N46

AUTHOR: Slukhotskiy, A.Ye.; Pushkin, V.Ya.

TITIE: A 60kw 70kc electronic inverter 25

CITED SOURCE: Tr. Vses. n.-i. in-ta tokov vysokov chastoty, vyp. 5, 1964, 105-116

TOPIC TAGS: rotary inventor, electronic transformer, triode tube

TRANSIATION: A diagram and the comparative results of research on inverters with one and two anode plate inductors are given. The inverters are designed on the basis of an LPZ-67 generator substituting GU-22A tubes with GU-4A triodes, which permit higher dissipation of power on the screen and having a higher stability at 10 to 11 kv. The technical data and design of the new elements (systems of anode circuit, grid and anode choke, grid auto-transformer). The effect of the circuit coil capacitances on its efficiency is considered, and a theory on the processes in the grid circuit is given. For a network with chokes, connected between anodes of the tubes and with divided ac dc circuit, an 80% efficiency for the tubes at the anode has been obtained. 3 references. B. Zhukhovitskiy.

SUB CODE: 09

Card 1/1 30

SLUKHOTS IY, A.Ye., doktor tekhn. nauk (Leningrad); PUSHKIN, V.Ya., inzh. (Leningrad)

Analysis of the operation of an electronic converter with increased frequency and parallel anode circuit with active load. Elektrichestvo no.2:49-54 F 165. (MIRA 18:3)

PUSIKIN, V.Z. (Petrozavodsk); TSYRLINA, L.S. (Petrozavodsk).

Prothrombin index of the blood in chronic tonsillitis. Zhur. ush., nos. i gorl. bol. 23 ro.5:29-31 S-0'63 (MIRA 17:3)

PUSHKIN, V.Z.; LEHEDEV, V.N.; MOS PANOV, L.S. (Petrozavodsk)

Interrelations between chronic tonsillitis and rheumatic fever (content of sialic acid in the blood serum of patients suffering

from chronic tonsillitis and rheumatic fever). Vop.revm. 3
no.1:85-88 Jamr '63.
(MIRA 16:4)

(SIALIC ACIDS) (TONSILS—DISEASES) (RHEUMATIC FEVER)

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PUSHKIN, V.Z. (Kandalaksha, Murmanskoy oblasti)

Cases of injuries of the ear caused by electricity. Vest. oto-rin.

18 no.5:99-100 S-0 '56. (MLRA 9:11)

(RAR-WOUNDS AND INJURIES)

(ELECTRICITY—PHYSIOLOGICAL RFFECT)

PUSHKIN, V.Z.; LEBEDEV, V.N. (Petrozavodsk)

Isolation of 17-ketosteroids from the daily urine in chronic tonsillitis. Vest.otorin. no.5:27-30 '62. (MIRA 15:9) (STEROIDS) (TONSILS—DISEASES)

(URINE—ANALYSIS AND PATHOLOGY)

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PUSHKINA, G.Ya.; KOMISSAROVA, L.N.

Solubility of Sc(NO₃)_{3.4}H₂O and ScOH(NO₃)_{2.3}H₂O in water, in solutions of nitric acid, and in organic solvents. Zhurneorg. khim. 8 no.6:1498-1504 Je '63. (MIRA 16:6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, kafedra neorganicheskoy khimii.

(Scandium compounds) (Nitric acid)

(Solubility)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001343620016-5

CUTTOMORPOSTIC APPROXICATION CONTROL STATEMENT

SPITSYN, Vikt.I.; KOMISSAROVA, L.N.; SHATSKIY, V.M.; PUSHKINA, G.Ya.

Study of a complex ammonium scandium carbonate. Zhur. neorg. khim. 5 no.10:2223-2228 0 '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova, Kafedra neorganicheskoy khimii.

(Ammonium scandium carbonate)

SMIRNOV, M.I.; PETROVA, Ye.V.; PUSHKINA, L.A.: YERMILOVA, L.I.

Effect of cortisone on the concentration of vitamins B₁, B₂ and C in the tissues of rats. Probl. endok. i gorm. 11 no.1: 78-81 Ja-F '65. (MIPA 18:5)

l. Laboratoriya biokhimii vitaminov Nauchno-issledovatel'skogo instituta vitaminologii Minsiterstva zdravookhraneniya SSSR, Moskva.

POSTOVSKIY, I.Ya.; PUSHKINA, L.N.; MAZALOV, S.A.

Benzazole series. Part 1: Syntheses of benzoxazoles with the purpose of studying their scintillation properties. Zhur.ob.khim. 32 no.8:2617-2624 Ag 62. (MIRA 15:9)

1. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova. (Benzoxazole) (Scintillation (Physics))

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1 47045-65 EWT(1)/EWF(m)/EPF(c)/EWP(j)/EWA(c) Po-4/Pr-4/Pi-4 IJP(c) RM s/0368/65/002/001/0063/0068	
ACCESSION Mr. ALTOSIA	
AUTHOR: Tkachev, V. V.; Pushkina, L. N.	
TITLE: Laminescence and scintillation properties of some 1,2-disubstitutes of	
SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 1, 1965, 63-68	
TOPIC TAGS: luminescence spectrum, scintillation spectrum, organic scinozzation	
ABSTRACT: This is a continuation of earlier work on the spectral characteristics and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for and scintillation properties of a series of benzenes, where data were obtained for a series of benzenes, and a series of benzenes and a series of benzene	
suthors report results of the measurements of the absorption of lumines, whose aryl suthors report results of the measurements of the absorption of benzimidazole, whose aryl tra and of the scintillation properties in solutions of benzimidazole, whose aryl derivatives were not previously investigated from the point of view of their scinderivatives were not previously investigated from the point of view of their scinderivatives were measured, using a procedure and apparatus described in the earlier derivatives were measured, using a procedure and apparatus described in the	
Caro 1/5	**

apers. The relationship be n solution is discussed. To colution was measured. It was	The scintillation eificience discovered that a number	ncy of the compor ber of very solub	ofe combonings	
of 2-aryl-benzimidezole have (/1). "The authors thank Proor discussion of the result	rofessor Va. Postovskiy i	or interest in G	16 MOLY SHO	
ASSOCIATION: None				
CUBMITTED: 16Jun64	encl: 00	SUB CODE:	OP, OC	
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PUSHKINA, L.N.; MAZALOV, S.A.; POSTOVSKIY, I.Ya.

Benzazole series. Part 2: Syntheses of benzimidazoles with the purpose of studying their scintillation properties. Zhur.ob.khim. 32 no.8:2624-2633 Ag '62. (MIRA 15:9)

1. Ural'skiy politekhnicheskiy institut.
(Benzimidazole) (Scintillation (Physics))

DEZIDER'YEV, G.P.; KURENEV, V.Ya.; PUSHKINA, N.N.; SHAPOSHNIKOVA, N.A.

Visual aids for studying chemistry in institutions of higher learning. Trudy KKHTI no.13:118-125 '48. (MIRA 12:12)

l.Kazanskiy khimiko-tekhnologicheskiy institut im. S.M. Kirova, kafedra neorganicheskoy khimii.

(Chemistry--Study and teaching) (Audio-visual aids)

ZHIGAREVICH, I.A.; PUSHKARSKIY, S., red.; PAVLOVA, M.M., tekhn.red.

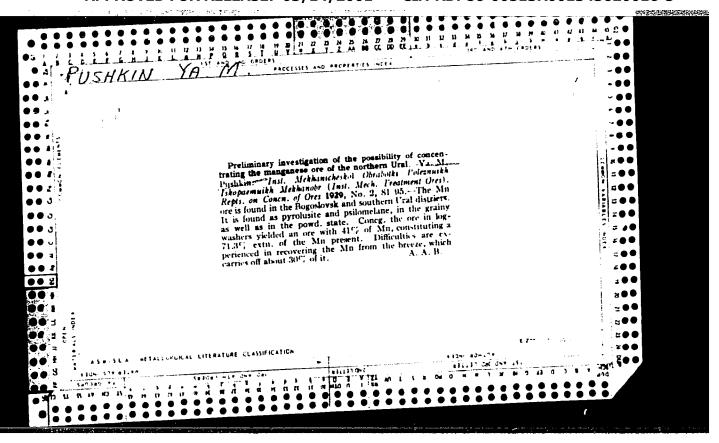
[Growing olives] Kul'tura masliny. Moskva, Gos.izd-vo sel'khoz.
lit-ry, 1955. 245 p. (NIRA 10:12)

(Olive)

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	PUSHKARSKIY, S.	
	Work achievements of machinist Tertychnyi. Prom.koop. no.5:11 My '57. (MLRA 10:8)	
	1.Sotrudnik Konstruktorsko-tekhnologicheskogo byuro Oblpromsoveta, g. Rovno.	
	(Tertychnyi, A.G.)	i
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PUSHKIN, V.Z., starshiy leytenant med.sluzhby., MULLER, A.A., podpolkovnik med.sluzhby.

Course of chronic tonsillitis and late results of tonsillectomy in the North. Voen.-med.zhur. no.12:78 D '55 (MIRA 12:1) (TONSILS--DISEASES)



AVAKYAN, R.O.; BAYATYAN, G.L.; VISHNEVSKIY, M.Ye.; PUSHKIN, Ye.V.

Measurement of longitudinal electron polarization in the \$\beta\$-decay of Aul 198. Zhur.eksp.i teor.fiz. 41 no.3:681-683 S '61.

(MIRA 14:10)

(Electrons—Scattering) (Gold—Decay)

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- 1. PUSHKIN, Z. Eng.
- 2. USSR (600)
- 4. Machinery in Industry
- 7. Life periods of equipment. Az ekon.mat. no. 4, 1952

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

BUKIREV, A.I; FUSHKIN, Z.M.

Deformities in fishes. Vop. ikht. no.9:147-151 '57. (MIRA 11:1)

1. Molotovskiy universitet.
(Kama River-Fishes) (Abnormalities (Animals))

ASSESSED NO.		
1:	FUSHKINA, A.	
. : .	以来 (606)	
	Libraries, Workingmen's	
7.	Compiling an annual plan of work for trade union libraries. Klub No. 12, 1952.	
9	Monthly List of Russian Accessions, Library of Congress,1953, Unclassified	
	DIVINITY DAVY OF THE PROPERTY	

MURILSO., A. , PUSEKILA, A.

Libraries

Making the libraries of professional organizations gore complete (with the nelp of beginning librarian). Klub no. 5, 1952.

Enthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

Gogol', Nikolay Vasil'yevich, 1809-1852

A century since the death of N.V. Gogol. V pom.profaktivu, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

LAVSKIY, G.K., prof.; PUSHKINA, D.I.

Therapeutic significance of vitamni B₁₂ in atherosclerosis.

Terap.arkh. 34 no.3:52-54 162.

(MIRA 15:3)

1. Iz bel'nitsy IV glavnogo upravleniya (nach. - prof. A.M. Markov) Ministerstva zdravookhraneniya SSSR. (ARTERIOSCLEROSIS) (CYANOCOBALAMINE)

PUSHKINA, E.N.; YAKOYLEVA, G.Ya.

Thermometric study of inclusions in zonary quartz crystals from the Pamirs. Trudy VNIIP 1 no.2:169-170 '57. (MIRA 12:3)

(Pamirs--Quartz crystals)

PUSHKINA, G.A.; GRIGOR'YEV, V.I.

Rapid method for the determination of the ash content of peat.

Gaz. prom. no.3:22-24 Kr '58. (MIHA 11:3)

(Peat--Analysis)

KOMISSAROVA, L.N.; PUSHKINA, G.Ya.; SPITSYN, Vikt. I.

Preparation and some properties of scandium nitrates. Zhur. neorg. khim. 8 no.6:1384-1394 Je '63. (MIRA 16:6)

1. Moskovskiy gosudarstvenny universitet imeni Lomonosova, kafedra neorganicheskoy khimii.
(Scandium nitrate)

S/078/60/005/010/024/030/XX B017/B067

AUTHORS: Spitsyn, Vikt. I., Komissarova, L. N., Shatskiy, V. M., and

Pushkina, G. Ya.

Study of the Complex Ammonium Scandium Carbonate

TITLE: Study of the Company 1960, Vol. 5, No. 10, PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 10,

рр. 2223-2228

TEXT: The authors determined the optimum conditions for producing ammonium/scandium carbonates, and described the properties of these compounds. The compound NH₄Sc(CO₃)₂°1.5H₂O was produced by dissolving freshly pro-

duced scandium hydroxide in a concentrated solution of ammonium carbonate, and subsequent crystallization at room temperature. This compound is stable at room temperature, and decomposes only at 95°C under formation of difficultly soluble basic scandium carbonate whose composition is not conficultly soluble basic scandium carbonate whose composition is not constant. The thermal decomposition of ammonium scandium carbonate was thermostant. The thermal decomposition of ammonium scandium carbonate that graphically studied by means of a Kurnakov pyrometer. It was observed that the ammonium scandium carbonate decomposes gradually. At 140-190°C,

Card 1/3

Study of the Complex Ammonium Scandium Carbonate

S/078/60/005/010/024/030/XX B017/B067

partial dehydration occurs, and $\rm CO_2$ is completely liberated. In the temperature range of $\rm 280-305^{\circ}C$, crystalline $\rm ScO(OH)$ is formed which passes into $\rm Sc_2O_3$ at $\rm 480^{\circ}C$. At $\rm 400^{\circ}C$, $\rm NH_3$ and $\rm CO_2$ are completely liberated. The solubility of scandium hydroxide at 0, 25, and $\rm 50^{\circ}C$ in solutions of $\rm (NH_4)_2CO_3$ of different concentrations was studied. It was observed that the solubility of scandium hydroxide at higher ammonium carbonate concentrations and lower temperatures is higher. In a 17.8% solution of $\rm (NH_4)_2CO_3^{\circ}H_2O$, scandium hydroxide is soluble at $\rm O^{\circ}C$ up to a concentration of 1.24% by weight of $\rm Sc_2O_3^{\circ}$. Amorphous ammonium scandium carbonate $\rm NH_4Sc(CO_3)_2^{\circ}2H_2O$ is formed by dissolution of scandium hydroxide in ammonium carbonate solutions with a concentration higher than 1% by weight in a temperature range of $\rm O-25^{\circ}C$. The amorphous ammonium scandium carbonate passes into the crystalline state above $\rm 50^{\circ}C$. The thermogram of amorphous ammonium scandium carbonate shows an endothermic effect at $\rm 65-110^{\circ}C$ caused by the cleavage of water, which is characteristic only of the amorphous compound. There are 5 figures, 2 tables, and 4 non-Soviet

Card 2/3

Study of the Complex Ammonium Scandium Carbonate

S/078/60/005/010/024/030/XX B017/B067

references.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomenosova,

Kafedra neorganicheskoy khimii (Moscow State University imeni

M. V. Lomonosov, Chair of Inorganic Chemistry)

SUBMITTED:

July 8, 1959

Card 3/3

MALIKOV, K.V.; KANOVA, R.A.; KARASIK, G.S.; LINETSKIY, N.S.; PASTUKHOV, G.M.; PUSHKINA, G.A.

Simultaneous gasification of peat and peat tar. Gaz. prom. 8 no.2:15-17 163. (MIRA 17:8)

PUSHKINA, I.K., aspirant

Data for a hygienic characteristics of mica dust. Gig.i san. 25 no.8:18-23 Ag '60. (MIMA 13:11)

1. Iz kafedry gigiyeny truda I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(MICA) (LUNGS--DUST DISEASES)

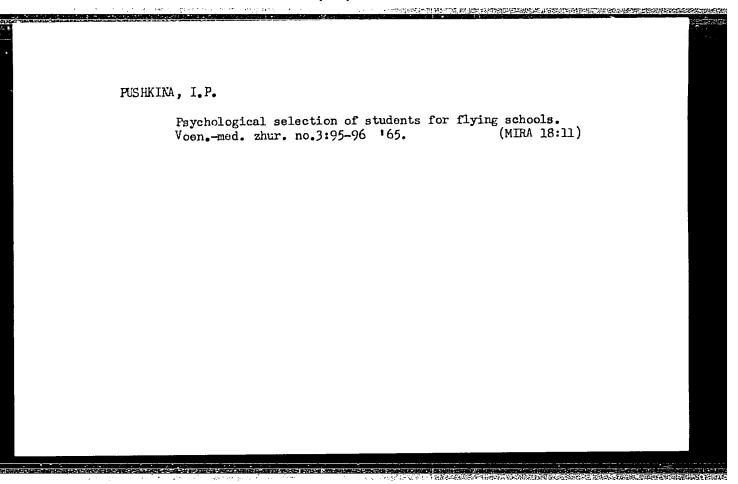
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Exp. 165.

(MIRA 1814)

VARTANYAN, A.B.; PUSHKINA, I.P.; MAGNITSKIY, A.A., retsenzent; ORLOVA, L.A., red.; KNAKNIN, M.T., tekhn.red.

[Organizing the labor of workers operating sliver lapping machines in cotton spinning] Organizatsiia truda rabotnits. obsluzhivaiushchikh lentosoedinitel'nye mashiny khlopko-priadil'nogo proizvodstva. Moskva, Gos.nauchno-tekhn.izd-volit-ry po legkoi promyshl., 1959. 26 p. (MIRA 12:6) (Cotton spinning)



LEBEDEV, Konstantin Borisovich; TARANENKO, B.I., otv. red.; PUSHKINA, L.I., red.; ZHUKOVA, N.D., red; ALFEROVA, P.F., tekhn. red.

[Production of calcium molybdate] Proizvodstvo molibdata kal'-tsiia. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 119 p. (MIRA 15:5)

(Calcium molybdate)

SOKOLOV, S.V.; YUMINOV, V.S.; PUSHKINA, L.N.

Reaction of fluoroolefins with butyl hypochlorite and chlorine cxide. Zhur.ob.khim. 35 no.12:2150-2155 D '65.

(MIRA 19 1)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova. Submitted December 4, 1964.

PUSHKINA, L.N.; TKACHEV, V.V.; POSTOVSKIY, I.Ya.

Spectral characteristics and scintillation properties of some

2-aryl derivatives of benzoxazole and benzimidazole. Dokl.AN
SSSR 149 no.1:135-138 Mr 163. (MIRA 16:2)

1. Ural'skiy politekhnicheskiy institut im & S.M.Kirova.
Predstavleno akademikom A.N.Tereninym.
(Benzomazole—Spectra) (Benzimidazole—Spectra)

PUSHKINA, L.N.; POSTOVSKIY, I.Ya.

Synthesis and properties of isomeric naphthoxazoles substituted in position 2. Zhur.ob.khim. 34 no.22424-431 F '64. (MIRA 17:3)

1. Ural'skiy politekhnicheskiy institut.

S/079/62/032/008/002/006 D204/D307

AUTHORS:

Postovskiy, I. Ya., Pushkina, L.N. and

Mazalov, S. A.

TITLE:

Investigations of benzazoles. I. Synthesis of benzoxazoles in order to study their

scintillating properties

PERIODICAL:

Zhurnal obshchey khimii, v.32, no. 8, 1962

2617 - 2624

TEXT: Synthesis of 2-arylbenzoxazoles (I), 1 - (2'-benzoxazolyl) - 2 arylethylenes (II) and 1 - phenyl - 1 - (2'-benzoxazolyl) - 2-arylethylenes (III) are described. 25 of the compounds prepared are new. Series I was produced by the oxidation of o- aminophenol azomethynes with KMnO4 in acetone, at room temperature, in 60 - 80 % yields. 2-(9' - Acridyl)-benzoxazole was made by the oxidation of its azomethyne with boiling PhNO2 and 2-benzoxazolyl - 1'- naphthyl-methane by the condensation of o-aminophenol with 1-naphthylacetic acid, by heating to 180 - 190°C

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S/079/62/032/008/002/006 . D204/D307

Investigations of benzazoles. I...

for 5 hours. Compounds II were obtained, in 7 - 70 % yields, by the condensation of equimolar mixtures of the corresponding aromatic aldehydes and 2-methyl-benzoxazole, in the presence of H_3BO_3 , at 195 - 200°C, over 5 hours. Reactivity of the above aldehydes depended strongly on the nature of the para- substituent, decreasing in the transition from halogen and alkyl groups to methoxyand dialkylamino- substituents. Series III was synthesized (in 20 - 60 % yields) by a method analogous to II, replacing the 2-methylby 2-benzyl- benzoxazole. Uv absorption spectra, measured on C \P-4 (SF-4) spectrophotometer, showed that extension of the conjugated chain in the presence of electron-donating constituents displaced the maximum absorption peaks towards longer wavelengths. It was also shown that the structures of 1-(2'-benzoxazolyl)-1-phenyl-2-arylethylene and of compounds III are not coplanar. More detailed spectral and luminescence studies, and certain scintillating characteristics will be published in a later paper. There are 4 figures and 5 tables.

ASSOCIATION:

Ural'skiy politekhnicheskiy institut imeni S.M. Kirova (The Urals Polytechnical Institute imeni S.M. Kirov)

Card 2/3

Investigations of benzazoles. I. ... \$/079/62/032/008/002/006

SUBMITTED: August 7, 1961

Card 3/3

ACCESSION NR: AP4018056

s/0079/64/034/002/0424/0431

AUTHOR: Pushkina, L. N.; Postovskiy, I. Ya.

TITLE: Synthesis and properties of isometric naphthoxazoles substituted in the 2-position

SOURCE: Zhurnal obshchey khimii, v. 34, no. 2, 1964, 424-431

TOPIC TAGS: luminescent property, benzazole, arylnaphthoxazole, ultraviolet absorption spectrum, luminescent spectrum, naphthoxazole

ABSTRACT: Interest in the relationship between the structure and luminescent properties of benzazoles led to the synthesis of naphth[1,2d]-, naphth[2,1d]- and naphth[2,3d] oxazoles substituted in the 2-position. Compounds I-III

Card1/4

were obtained by oxidation of azomethynes with potassium permanganate in acetone solution or nitrobenzene:

Card 2/4

Initial azomethynes were obtained by condensation of corresponding isomeric o -aminonaphthols and aromatic aldehydes. The naphthoxazoles I-III are the best achromatic or slightly yellowish substances. They strongly fluoresce the blue or blue color in the near-ultraviolet. In accordance with its anthracenoid structure the linear isomers (III) have a higher melting point and are less soluble in non-polar solvents than the angular (phenanthrenoid) isomers. In the phenanthrenoid structure of the angular compounds (I) and (II) a more favorable localization of the π -electronic cloud guarantees the aromatic characteristics of both the naphthalene and oxazole portion of the molecule. In the anthracenoid structure of the linear compounds (III) a break in uniformity in the direction of structure A or B is conceivable. The luminescent properties of 2-arylnaphthoxazoles in

Card 3/4

solutions are determined to a significant degree by the 2-arylbenzoxa zole system of the molecule included in them. Measurement of the scintillation effectiveness in the toluene solutions indicated that the angular 2-arylnaphthoxazoles provide the same order of luminescence efficiency as the standard solution of n-terphenyl. Study of the ultraviolet absorption spectra and the luminescence spectra permit the assumption that there is an oxazole type of structure in the angular 2-arylnaphthoxazoles and an oxazoline type of structure of the hetero-ring in the linear 2-arylnaphthoxazoles. "S. A. Mazalov participated in the syntheses." "The authors are grateful to V. V. Tkacheva for participating in the measurements of luminescence spectra and determination of scintillation effectiveness." Orig. art. has: 2 tables.

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnical Institute)

SUBMITTED: 07Dec62

DATE ACQ: 19Mar64

ENCL: 00

SUB CODE: CH

NO REF SOV: 007

OTHER: 012

.Card 4/4

S/079/62/032/008/003/006 Investigations of benzazoles. II. ... D204/D307

by the reaction of o-phenylene diamine with aldehydes. II and III were synthesized, in 40 - 90 % yields, by the 1:1 condensation of aromatic aldehydes with N-phenyl- and N-methyl-o-phenylenediamines and oxidation of the resultant Schiff's bases with PhNO2. IV were obtained by the interaction of o-phenylene diamine (1 mole) and aldehydes (2 moles), in acetic acid, at room temperature, in 30 - 30 aldehydes (2 moles), in acetic acid, at room temperature, in 30 - 30 and 30 and

and oxidation of the resultant Schiff's bases with Phace. It were obtained by the interaction of o-phenylene diamine (1 mole) and aldehydes (2 moles), in acetic acid, at room temperature, in 30 - 80% yields. V, VI and VII were prepared by the 1:1 condensation of yields. V, VI and VII were prepared by the 1:1 condensation of aldehydes with (a) 2-methyl-, (b) 1,2-dimethyl-, and (c) 2-benzyl-benzimidazoles, in the presence of HzBO3, at 195 - 200°C, over 2.5 hours, in 70 - 80 (V), 35 - 65 (VI) and 70 - 80 (VII) percent yields respectively. The reactivity of the H_atoms in the methyl group of 2-methyl-benzimidazole (A) was greater than that of 2-methyl-benzionazole (B), owing to their higher mobility. Uv absorption spectra of phenyl-, p-halogenophenyl-, p-tolyl-, and p-methoxy-phenyl- benzimidazoles exhibited maxima at 300 - 310 mµ. Diphenyl- and 1-naphthyl-derivatives showed peaks at 315 and 337 mµ, and those of p-dimethyl-and p-diethylaminophenyl- at 330 and 337 mµ. Spectra of 1-substituted 2-aryl-benzimidazoles showed the absence of conjugation between the

N-substituents and the remainder of the molecule. The structures VII

Card 2/3

S/079/62/032/008/003/006 Investigations of benzazoles. II. ... D204/D307

are not coplanar. There are 1 figure and 3 tables.

ASSOCIATION:

Ural'skiy politekhnicheskiy institut (Urals Polytechnical Institute)

SUBMITTED:

August 1, 1961

Card 3/3

SLUTSKIY, M.Ye.; ZARKHIN, B.I.; PUSHKINA, M.A.

Small-size broad-band electrometric amplifier. Kosm. issl. 1 no.2:296-302 S-0 '63. (MIRA 17:4)

ZARKHIN, B.I.; PUSHKIHA, M.A.; SLUTSKIY, M.Ye.

Electrometric amplifier. Prib. i tekh. eksp. 8 no.4:90-94 J1-Ag '63. (MIRA 16:12)

1. Spetsial'noye konstruktorskoye byuro analiticheskogo priborostroyeniya AN SSSR.

S/0293/63/001/002/0296/0302

AUTHOR: Slutskiy, M. Ye.; Zarkhin, B. I.; Pushkina, M. A.

TITLE: Miniaturized broadband electrometer amplifier

SOURCE: Kosmicheskiye is ledovaniya, v. 1, no. 2, 1963, 296-302

TOPIC TAGS: dc amplifier, transitorized amplifier, mass spectrometer, spaceborne miniaturized amplifier, broadband measuring amplifier, miniaturized measuring amplifier

ABSTRACT: An improved high-sensitivity transistorized d-c amplifier, specially designed for use in mass spectrometers, is described. Its basic specifications are as follows: 1) range of measured positive-polarity currents, 10^{-11} to 10^{-14} amp; 2) relative error, \pm 3%; 3) time constant of the input circuit, 0.01 sec; 4) input impedance, 10^{12} ohm; 5) voltage fluctuation at the output, 7—8 mv; 6) range of operating temperatures, -40 to +60C; 7) d-c power supply, 14 ± 2 v; 8) power consumption, 0.5 w; 9) weight, 300 g; and 10) overall size, $100 \times 50 \times 50$ mm. The amplifier uses one vacuum tube, an I-1-type electrometric pentode with a high voltage gain at a low level of grid

Card 1/2

ACCESSION NR: AP4003738

current. The power supply of the amplifier circuits is effected by a transistorized inverter operating at 8—10 kc. The high converter efficiency (up to 85%) ensures voltage stability within 0.1% in the feedback transformer windings of the inverter, with primary voltage stabilization by means of a three-stage transistorized amplifier. The d-c amplifier is placed in a thin-walled steel housing which protects it from the interference of electric and magnetic fields. The described amplifier is recommended for use in rockets and artificial earth satellites. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 07Jan63

DATE ACQ: 26Dec63

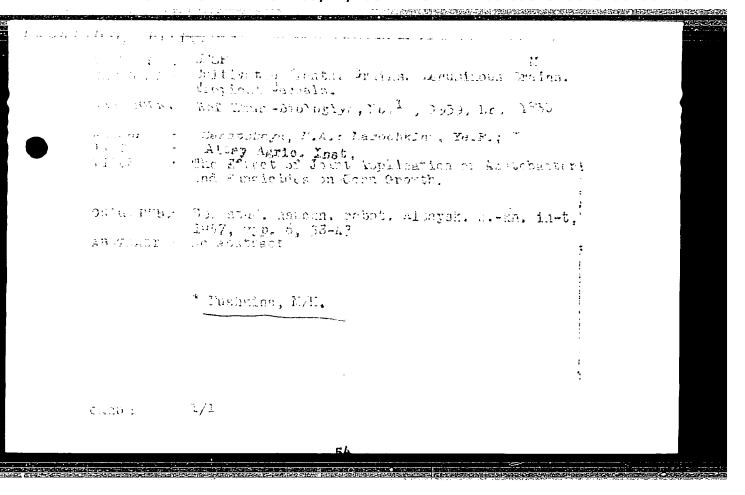
ENCL: 00

SUB CODE: GE

NO REF SOV: 006

OTHER: 001

Card 2/2



PUSHKELIA, M. S.: Master Mad Sci (diss) -- "Acute masenteric lymphadenitis".

Laningrad, 1959. 15 pp (Second Surgical Clinic of the State Order of Lanin

Inst for the Advanced Training of Physicians im S. M. Kirov and Surgical Dept
of the Hospital im Lanin in Laningrad), 200 copies (KL, No 12, 1959, 133)

PUSHKINA, N.M.					
Lapagos zap.	eneration of vegeta no.4:5-125 '60. d State Preserve		(MTRA	ly 15:3)	
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		ensioneria iranteerina muuta needis			N. J.

 Lichens and mosses in the Lapland Preserve. Trudy Lap.gos.zap.no.4: 189-248 '60. (MIRA 15:3) (Lapland State Preserve-Lichens)(Lapland State Preserve-Mosses)

VYALOV, A.M.; BAGNOVA, M.D.; KUBLANOVA, P.S.; PUSHKINA, N.N.; BULYCHEV, G.V.: BYLOV, I.S.; GENKIN, A.G.; KOTEL'NIKOVA, M.P.; SKLYANSKAYA, V.S.

Changes in the health of workers engaged in the production of synthetic fatty acids. Uch.zap. Mosk.nauch.-issl. inst. san. i gig. no.9:50-54 *61 (MIRA 16:11)

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VYALOV, A.M.; BAGNOVA, M.D.; VASIL'YEV, A.S.; PUSHKINA, N.N.; YUSHKEVICH, L.B.; BULYCHEV, G.V.; BYLOV, I.S.; GENKIN, A.G.; ZHIDKOVA, L.V.; ZHIGULINA, L.A.

Early changes in the state of health of workers in the cumene process of phenol and acetone production. Uch. zap. Mosk.nauch.-issl. inst.san. i gig. no.9:13-16 *61 (MIRA 16:11)

MEL'KUMOVA, A.S.; BYLOV, I.S.; PUSHKINA, N.N.

Clinical aspects of occupational poisoning of thio rubber workers. Uch. zap. Mosk. nauch.—issl. inst. san. i gig. no.9: 90-94.61 (MIRA 16:11)

PUSHKINA, N. N.

"Graphic aids in the study of chemistry in an institution of higher learning," Authors G. P. Dezider'yev, V Ya. Kurenev, N. N. Pushkina, and N. A. Shaposhnikova, Trudy Kazansk. Khim.-tekhnol. in-ta im. Kirova, Issue 13, 1948, p. 118-25

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, no. 3, 1949)

Fuontina, W. H., Physician

"Testing Foodstuffs for Determination of Nicotinic Acid." Thesis for degree of Cand Medical Sci. Sub 13 Feb 50, Second Moscow State Medical Inst. imeni I.V. Stalin.

Summary 71, 4 Sep 52. Dissertations Presented for Degrees in Sciences and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

PUSHKINA, N.H. (Moskya)

Ascorbic acid content in separate groups of industrial workers. Gig. truda i prof.zab. 3 no.4:44-46 J1-Ag '59. (MIRA 12:11)

1. Klinicheskiy otdel Hauchno-issledovatel'skogo instituta sanitarii i gigiyeny imeni F.F.Erismana.
(ASCORBIC ACID)

PUSHKINA, N.N.

Studies on the thromboplastic activity of the blood and the prothrombi in content in persons subjected to ionizing radiations. Frobl. gemat. i perel. krovi 4 no. 10:44-46 0 159. (MIRA 13:8)

l. Iz klinicheskogo otdela (rukovoditel' - prof. I.Ya. Sosnovik) Moskovskogo nauchno-issledovatel'skogo instituta sanitarii i gigiyeny imeni F.F. Erismana.

(RADIATION--PHYSIOLOGICAL EFFECT) (THROMOBOPLASTIN)

(PROTHROMBIN)

SOSHOVIK, I.Ya.; BAGHOVA, M.D.; PUSHKINA, N.H.; UPOROV, D.V.

Clinical aspects of chronic poisoning by petroleum products.

Kaz.med.zhur. 40 no.1:29-33 Ja-F 59. (MIRA 12:10)

1. Iz Moskovskogo nauchno-issledovatel skogo instituta sanitarii i gigiyeny im. F.F.Erismana (direktor - A.Z.Belousov).

(HOVOKUIBYSHEV--PETROLEUM WORKERS--DISEASES AND HYGIENE)

PUSHKINA, N.N.

Nature of sugar curves in vibration sickness. Uch. zap. Mosk.nauch.-issl.inst.san. i gig. no.7:63-65 '60. (MIKA 15:2) (BLOOD SUGAR) (VIBRATION_PHYSIOLOGICAL EFFECT)

PUSHKINA, Natal'ye Nikolayevna; BONDAREV, G.I., red.; ZAKHAROVA, A.I., tekhn. red.

[Vitamins in the Far North] Vitaminy na Severe. Moskva, Medgiz, 1961. 127 p. (MIRA 15:2) (RUSSIA, NORTHERN—VITAMIN METABOLISM)

TO STATE AND A PROPERTY OF THE PROPERTY OF THE

YEGOROV, Yu.L.: KASPAROV, A.A.; PUSHKINA, N.N. (Moskva)

Some disorders in metabolic and functional processes of the liver among workers in the production of synthetic fatty acids. Gig. (MIRA 14811) truda i prof.zab. no.11:19-22 161.

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