20-1-42/64

On the Dynamics of Phosphorus Compounds in the Early Onthogenesis of Wheat.

of the increase of the intensity of the acid-forming process. A clear idea is conveyed by the 4 tables which are attached to this paper. (With 4 References).

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

SOKOLOV, B.N.; PONOMAREVA, A.S.; SAPRONOVA, A.F.

Operation of conical vortex cleaning machines in the processing of unbleached pulp. Bum. prom. 33 no.5:18-19 My '58. (MIRA 11:6)

1.Nauchno-issledovatel'skaya laboratoriya pervogo Kaliningradskogo kombinata.

(Papermaking machinery)

SOKOLOV, B.N.; ORLOV, A.F.; PONOMAREVA, A.S.

Decreasing in the washing away of fibers and the purification of waste water. Bum. prom. 33 no.9:15-17 S '58. (MIRA 11:10)

1.Pervyy Kaliningradskiy tsellyulozho-bumazhnyy kombinat.
(Sewage--Purification) (Woodpulp industry--Equipment and supplies)

COUNTRY : USSR
CATEGORY : Soil Science. Organic Fertilizers.

ABS. JOUR. : RZhBiol., No. 23 1958, No. 104493 J

AUTHOR : Ponomareva, A. T.
INST. :
TITLE : The Use of Phosphorobacterin on Virgin and Fallow Lands

ORIG. PUB. : V sb.: God raboty po osvoeniyu tselin. i zalezhn. zemel' v Kazakhstane. M., Sel'khozgiz. 1955, 294-301

ABSTRACT : The application of phosphorobacterin (PB) to chernozem and chestnut soils poor in mobile forms of phosphoric acid, on collective and state farms of Kazakhstan in 1950-54, showed its considerable effectiveness (addition to millet and wheat yield and increase of albumin content in seeds) for the 2nd, 3rd, 4th and succeeding years of use of the bed, and also on fallow land with soil rich in organic matter. With lengthening of periods of use of the bed the effectiveness of PB was lowered. The use of PB is recommended for early sowings of grain crops in connection with the better guarante of soil moisture.--V. N. Bylinkina

Card: 1/1

21

NAKHMANOVICH, A.L.; PONOMAREVA, A.T., kand.sel'skokhoz. nauk

Fertilizing system based on agrochemical mapping of soils. Zemledelie 25 no.9:42-46 S '63. (MIRA 16:9)

1. Kazakhskiy institut zemledeliya. 2. Predsedatel' kolkhoza imeni XXII s'yezda Kommunisticheskoy partii Sovetskogo Soyuza, Dzhambulskoy oblasti (for Nakhmanovich).
(Kazakhstan--Soils--Composition)
(Kazakhstan--Fertilizers and manures)

PONOMAREVA, A.T., kand. sel'skokhozyaystvennykh nauk.

[redacted] and virgin lands under cultivation and the duration of their fertility. Zemledelie 6 no.1:47-50 Ja '58. (MIRA 11:1)
(Kustanay Province--Tillage) (Reclamation of land)

PONOMAREVA, A.T., kandidat sel'skokhozyaystvennykh nauk; SUSHCHIKH, Z.V.

Effectiveness of shallow placement of organomineral mixtures in winter wheat fields. Agrobiologiia no.4:84-88 Jl-Ag '56. (MIRA 9:10)

1.Nauchno-issledovatel'skiy institut zemledeliya Kazakhskogo filiala Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk imeni Lenina, gorod Alma-Ata.
(Kazakhstan--Wheat) (Fertilizers and manures)

NESTEROVICH, N.D. [Nestsiarovich, M.D.]; PONOMAREVA, A.V. [Panamarova, A.V.]; DERYUGINA, T.F. [Dziaruhina, T.F.]

Change in the anatomical structure of the needles of some trees in relation to their age and the height of their position on the tree. Vestsi AN BSSR, ser. biial. nav. no.3:5-13 '63
(MIRA 17:7)

PONOMAREVA, A.V. [Panamarova, A.V.]; DERYUGINA, T.F. [Dziaruhina, T.F.]

Characteristics of the anatomical structure of the epidermis of leaves in some tree species. Vestsi AN BSSR. Ser. biial. nav. no.2:28-33 '64. (MIRA 17:11)

NESTEROVICH, N.D.; PONOMAREVA, A.V.; DERYUGINA, T.F.

Changes in the anatomical structure of leaves of some trees depending on soil moisture. Bot.; issl.Bel.otd.VBO no.7:91-94 '65. (MIRA 18:12)

PONOMAREVA, A.V., inzh.; RUDOKVASOVA, A.A., inzh.

Cresol as raw material for synthetic tanning materials. Nauch.-issl. trudy Ukr NIIKP no.13:64-67 '62.

(MIRA 18:2)

NESTEROVICH, N.D.; PONOMAREVA, A.V.

Effect of soil moisture on the growth of seedlings and the anatomic structure of leaves of some woody plants. Sbor. nauch. rab. TSBS no.2:3-13 '61. (MIRA 15:7)
(Woody plants) (Plants, Effect of soil moisture on)

NESTEROVICH, N.D., akademik; IVANOV, A.F.; IVANOVA, Ye.V.; MARGAYLIK, G.I.; PONOMAREVA, A.V.; SIROTKINA, R.G.; SMIRNOVA, V.A.; SMOL'SKAYA, Ye. N.; CHEKALINSKAYA, N.I.; BULAT, O., red. izd-va; SIDERKO, N., tekhn. red.

[Trees and shrubbery introduced to the White Russian S.S.R.] Introdutsirovannye derev'ia i kustarniki v Belorusskoi SSR. Minsk. No.3.[Introduced woody plants of Siberia, Europe, the Mediterranean, the Crimea, the Caucasus, and Central Asia] Introdutsirovannye drevesnye rasteniia flory Sibiri, Evropy, Sredizemnomor'ia, Kryma, Kavkaza i Srednei Azii. 1961. 333 p. (MIRA 14:6)

1. Akademiya nauk BSSR, Minsk. Institut biologii. 2. Akademiya nauk BSSR (for Nesterovich)
(White Russia—Plant introduction)

PONOMAREVA, A. V., Cand Biol Sci -- (diss) "Growth of seedlings of certain tree species after bacterization of seeds." Minsk, 1957. 20 pp (Inst of Biology of Acad Sci Belorussian SSR), 100 copies (KL, 52-57, 105)

Country : USSR
Category: Soil Science. Soil Biology.

J

Abs Jour: RZhBiol , No 14, 1958, No 63057

Author : Kruganova, Ye. A.; Ponomareva, L.V.
Inst : A.S. of Belorussian SSR
Title : Azotobacter on Rhizomes of Lathyrus montanus Bernh.

Orig Pub: Vestsi AN BSSR, Ser. biyal. n., Izv AN BSSR, Ser. biol. n , 1956, No 4, 181-182

Abstract: No abstract.

Card : 1/1

J-24

NESTEROVICH, N.D., doktor biolog.nauk, akademik; IVANOV, A.F.; IVANOVA, Ye.V.; KRASNIK, A.I.; MUSIYAKINA, N.F.; POMOMAREVA, A.V.; SIROTKINA, SMOL'SKAYA, CHEKALINSKAYA, N.I.; BULAT, O., red.izd-va; SIDERKO, N., tekhn.red.

[Trees and shrubs introduced into the White Russian S.S.R.] Introdutsirovannye derev'ia i kustarniki v Belorusskoi SSR. Minsk. No.2. [Arboraceous plants introduced from the flora of North America] Introdutsirovannye drevesnye rasteniia flory Severnoi Ameriki. 1960. 296 p. (MIRA 13:6)

1. Akademiya nauk BSSR, Minsk. Institut biologii. 2. AN BSSR (for Nesterovich).
(White Russia--Plant introduction) (Trees) (Shrubs)

POMOMAREVA, A.V.

Effect of Azotobacter on the growth of some tree seedlings and the accumulation of chlorophyll in their leaves. Izv.AN BSSR no.5:187-191 S-O '53. (MLRA 9:1)
(Azotobacter) (trees) (Chlorophyll)

PONOMAREVA, A. V.

Ponomareva, A. V. "A case of disruptive slipping of the fetal membrane," Trudy Kazansk. gos. med. in-ta, 1948, p. 189-92.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 18, 1949).

PONOMAREVA, A.V., nauchnyy sotrudnik.

Effect of micro-organisms on the seedling growth of certain woody plants. Sber.nauch.trud.Inst. biol.AN BSSR no.3:109-119 '52. (MLRA 9:2)
(Soils--Bacteriology) (Seedlings)

POMOMAREVA, A.V.

NESTEROVICH, N.D., kandidat biologicheskikh nauk; POMOMAREVA, A.V., nauchnyy sotrudnik.

Results of germinating seeds of the black locust, Siberian pea shrub, spruce, and pine with preliminary soaking in 2-4-dichlorophenoxyacetic acid solutions. Sbor.nauch.trud.Inst.biol.AN BSSR no.1:35-54 '50.
(2-4-D) (Germination) (MLRA 9:1)

NESTEROVICH, N.D.; PONOMAREVA, A.V.

Anatomic characteristics of the needles of woody plants.
Biul. Inst. biol. AN BSSR no.6:3-15 '61. (MIRA 15:3)
(CONIFERAE)

NESTEROVICH, N.D.; PONOMAREVA, A.V.

Time of seeding silver maple. Izv. AN BSSR no.1:99-102 Ja-F '55.
(Maple) (MLRA 8:7)

NESTEROVICH, N.D., akademik; IVANOV, A.F.; IVANOVA, Ye.V.; KRASNIK, A.I.; LYUBENKOV, A.A.; PONOMAREVA, A.V.; SIROTKINA, R.G.; SMOL'SKAYA, Ye.N.; TRUKHANOVSKIY, D.S.; CHEKALINSKAYA, N.I.; BULAT, O., red.izd-va; VOLOKHANOVICH, I., tekhred.

[Introduction of trees and shrubs into White Russia] Introdutsirovannye derev'ia i kustarniki v Belorusskoi SSR. Minsk. No.1. [Introduction of woody plants from the flora of the Far East and countries of Eastern Asia] Introdutsirovannye drevesnye rasteniia flory Dal'nego Vostoka i stran Vostochnoi Azii. 1959. 351 p. (MIRA 12:6)

1. Akademiya nauk BSSR. Minsk. Instytut biyalogii. 2. Akademiya nauk BSSR (for Nesterovich).

(White Russia--Trees)

PONOMAREVA, A.Ya.

Course of scarlet fever in infants according to data from a hospital for infectious pediatric diseases for 1951-1952. Pediatriia 39 no.4: 83-84 Jl-Ag '56. (MLRA 9:12)
(SCARLET FEVER)

DYADYUSHA, G.G.; PONOMAREVA, E.A.

Orientation during nucleophilic substitution in excited molecules of quaternary salts of nitrogen heterocycles. Teoret. i eksper. khim. 1 no.1:117-118 Ja-F '65. (MIRA 18:7)

1. Institut khimii polimerov i monomerov AN UkrSSR i Institut mikrobiologii i virusologii AN UkrSSR, Kiyev.

S/073/60/026/002/011/015
B023/B067

AUTHORS: Kiprianov, A. I., Ponomareva, E. A., and Skavinskiy, Ya. P.

TITLE: Cyanine Dyes From Phenazine Derivatives

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 2, pp. 237-242

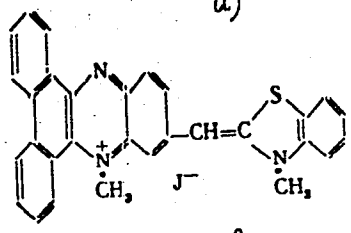
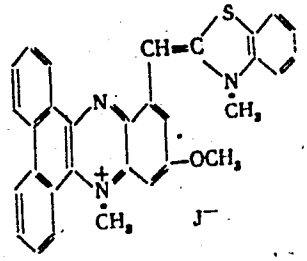
TEXT: In continuation of Ref. 1 the authors subjected quaternary salts of phenazine, methoxy phenazine, phenanthrazine, and methoxy phenanthrazine to oxidizing condensation with thiocyanate and pyrazolone derivatives. They obtained a number of dyes called merocyanines, from which they synthetized three-cyclic dyes - rhodacyanines. Also quaternary salts of phenanthrazine, methoxy phenanthrazine, acenaphthylene quinoxaline, and methoxy acenaphthylene quinoxaline were condensed with quaternary salts of 2-methyl-benzo thiazole. Thus, monomethine cyanines were obtained as dyes. The absorption maxima of the new dyes lie at the boundary between the visible and infrared regions of the spectrum. Table 1 illustrates the formation of rhodacyanine, and gives its yield and absorption maxima (in mμ). Table 2 shows the formation of monomethine cyanine, its yield,

and its absorption maxima in alcohol (in mμ). The attached scheme illustrates the formation of monomethine cyanine. Data published by A. I. Kiprianov (first author) and G. M. Prilutskiy are mentioned.
Legend to Table 2: a) structure; b) yield; c) absorption maximum
There are 2 tables and 6 references: 5 Soviet, 2 US, 1 French, 1 Belgian, and 1 German.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko, kafedra organicheskoy khimii (Kiyev State University imeni T. G. Shevchenko, Chair of Organic Chemistry)

SUBMITTED: August 11, 1958

S/073/60/026/002/011/015
B023/B067

№	Строение монометинцианина a)	Выход, % b)	Максимум поглощения в спирте, mμ c)
XI		65	755
XII		46	718

Card 3/4

S/073/60/026/002/011/015
B023/B067

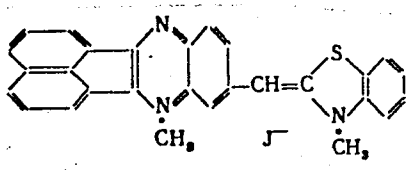
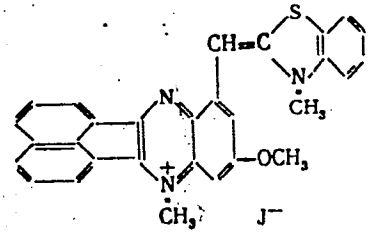
XIII		31	665
XIV		26	665

Table 2

Card 4/4

DYADYUSHA, G.G.; PONOMAREVA, E.A.

Orientation in nucleophilic substitution in phenazine salts. Ukr. khim. zhur. 29 no.12:1279-1282 '63. (MIRA 17:2)

1. Institut organicheskoy khimii AN UkrSSR.

PONOMAREVA, E.A.; SOGULAYAEVA, V.M.; SEREBRYANYY, S.B.

Synthesis of N( )-2,4-dinitrophenylsulfonyl amino acids and an investigation of their acid hydrolysis. Ukr.khim.zhur. 29 no.1: 67-72 '63. (MIRA 16:5)

1. Institut organicheskoy khimii AN UkrSSR.
(Amino acids) (Hydrolysis)

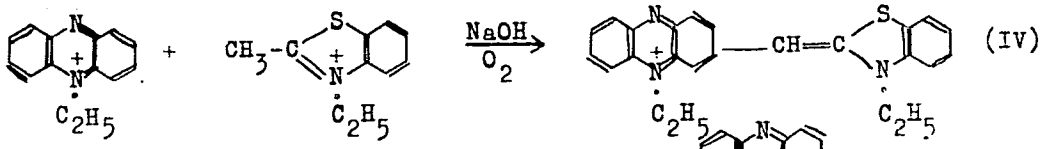
S/073/60/026/001/012/021
B004/B054

AUTHORS: Kiprianov, A. I. and Ponomareva, E. A.

TITLE: Cyanine Dyes From Phenazine Derivatives

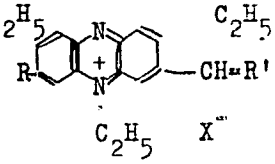
PERIODICAL: Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 1, pp. 78-85

TEXT: Quaternary salts of nitrogenous heterocyclic compounds having a CH_3 group in α- or γ-position easily react in alkaline solution with quaternary phenazine salts. Example:



(IV)

A total of 18 dyes of the general structure



Card 1/2

Cyanine Dyes From Phenazine Derivatives

S/073/60/026/001/012/021
B004/B054

were synthesized by this reaction. Components used were quaternary salts of phenazine or 2-methoxy phenazine on the one hand, and quaternary salts of 2-methyl-substituted benzthiazole, 6,7-benzobenzthiazole, benzselenazole, 4-methyl thiazole, benzoxazole, 4,5-benzobenzoxazole, 3,3-dimethyl indolenine, N-methyl benziminazole, and quinoline, on the other. Synthesis was conducted by three methods: 1) Equimolar amounts of the components (0.001-0.002 mole) were precipitated in aqueous solution by crystallized sodium acetate; 2) mixing of the components and dropwise addition of 20% NaOH; 3) an equimolar mixture of the components was dissolved in pyridine, and heated to boiling. The precipitates filtered off were recrystallized from methanol. Absorption maxima of these substances lie between 700 and 800 mμ. There are 1 figure, 2 tables, and 6 references: 3 Soviet, 2 US, 3 British, and 3 German.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko, kafedra organicheskoy khimii (Kiyev State University imeni T. G. Shevchenko, Department of Organic Chemistry)

SUBMITTED: August 11, 1958

Card 2/2

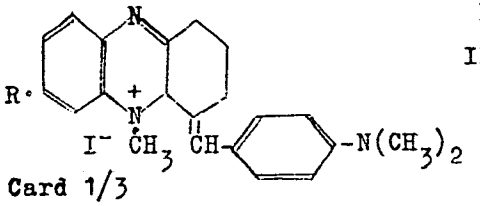
S/073/60/026/005/011/019
B004/B063

AUTHORS: Kiprianov, A. I. and Ponomareva, E. A.

TITLE: Cyanine Dyes From Phenazine Derivatives. III. Dyes From Tetrahydrophenazine

PERIODICAL: Ukrainskiy khimicheskiy zhurnal, 1960, Vol. 26, No. 5, pp. 633-636

TEXT: Proceeding from a paper by J. S. Morley (Ref. 4) the authors have synthesized the dye "Styril" (I) (condensation of tetrahydrophenazine iodomethylate with p-dimethyl aminobenzaldehyde according to Morley) and the methoxy derivative II (oxymethylation of tetrahydrophenazine with dimethyl sulfate, followed by condensation with the above aldehyde):



I: R = H°; λ_{max} = 559 mμ, log ε = 3.83

II: R = CH_3O°; λ_{max} = 586 mμ, log ε = 4.50

(The spectroscopic data refer to an alcoholic solution)

Card 1/3

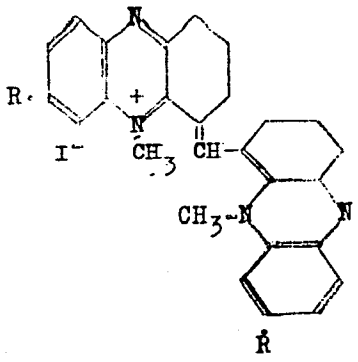
Cyanine Dyes From Phenazine Derivatives.
III. Dyes From Tetrahydrophenazine

S/073/60/026/005/011/019
B004/B063

A reaction of tetrahydrophenazine or of its methoxy derivative with dimethyl sulfate, sodium formate, and acetanhydride led to dyes III and IV, respectively:

III: R = H; $\lambda_{1_{max}}$ = 690 mμ, log ε_1 = 3.91, $\lambda_{2_{max}}$ = 743 mμ, log ε_2 = 3.90

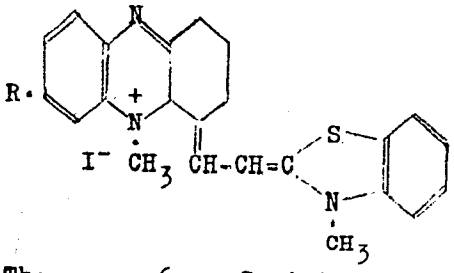
IV: R = CH_3O; $\lambda_{1_{max}}$ = 703 mμ, log ε_1 = 407, $\lambda_{2_{max}}$ = 760 mμ, log ε_2 = 4.06



A reaction of methyl methoxysulfate of tetrahydrophenazine or of its

Card 2/3

methoxy derivative with 2-acetanilidovinyl benzothiazole led to dyes V and VI, respectively:



V: R = H; $\lambda_{1\,max}$ = 618 mμ, log ε_1 = 3.76,

$\lambda_{2\,max}$ = 646 mμ, log ε_2 = 3.69

VI: R = CH_3O; $\lambda_{1\,max}$ = 628 mμ, log ε_1 = 4.31

$\lambda_{2\,max}$ = 668 mμ, log ε_2 = 4.35

There are 6 non-Soviet references: 6 British.

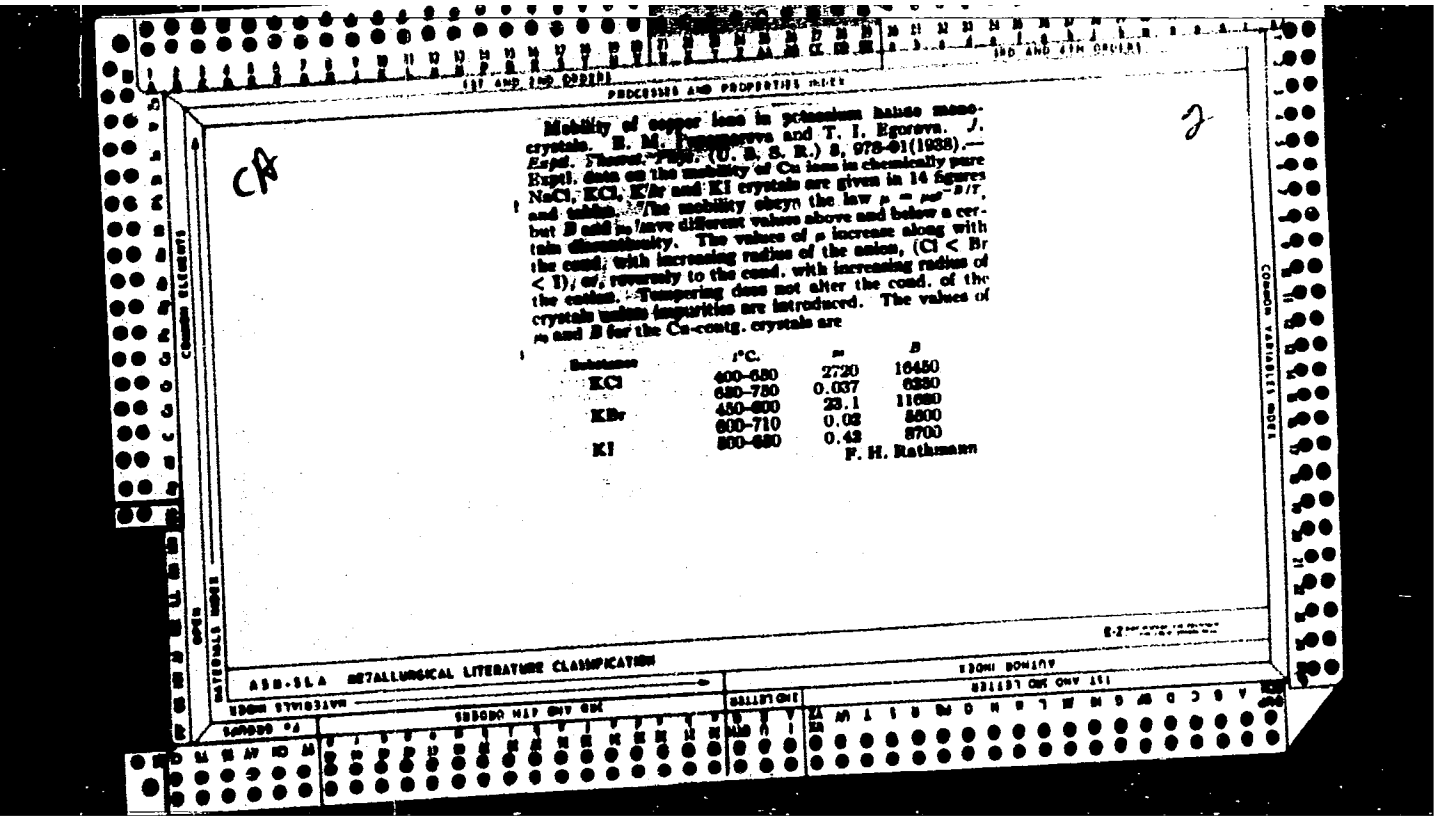
ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko (Kiyev State University imeni T. G. Shevchenko)

SUBMITTED: April 14, 1959

KIPRIANOV, A.I.; PONOMAREVA, E.A.; SKAVINSKIY, Ya.P.

Cyanine dyes from phenazine derivates. Part 2. Ukr. khim. zhur. 26 no.2:237-242 '60. (MIRA 13:9)

1. Kiyveskiy gosudarstvennyy universitet im. T.G. Shevchenko, kafedra organicheskoy khimii.
(Cyanine dyes) (Phenazine)



Mobility of copper ions in potassium halide monocrystals. B. M. Kuznetsova and T. I. Egorova. *J. Exptl. Theoret. Phys. (U. S. S. R.)* 8, 978-91(1938).—Exptl. data on the mobility of Cu ions in chemically pure NaCl, KCl, KBr and KI crystals are given in 14 figures and tables. The mobility obeys the law $\mu = \mu_0 e^{-B/T}$, but B and μ_0 have different values above and below a certain discontinuity. The values of μ increase along with the cond. with increasing radius of the anion, (Cl < Br < I); or, reversely to the cond. with increasing radius of the cation. Tempering does not alter the cond. of the crystals unless impurities are introduced. The values of μ_0 and B for the Cu-contg. crystals are

Substance	t°C.	μ_0	B
KCl	400–680	2720	16450
	680–780	0.037	6350
KBr	450–600	23.1	11680
	600–710	0.02	5800
KI	500–680	0.42	8700

F. H. Rathmann

PONOMAREVA, E.V. (Stalinsk).

Ketone bodies in the blood in atherosclerosis and their changes during iodine therapy. Terap.arkh. 25 no.2:45-50 Mr-Ap '53. (MLRA 6:5)
(Arteriosclerosis)

PONOMAREVA, E.V. (Stalinsk).

Ketone bodies in the blood in atherosclerosis and their changes during iodine therapy. Terap.arkh. 25 no.2:45-50 Mr-Ap '53. (MLRA 6:5)
(Arteriosclerosis)

(CA 47 no.16:8228 '53)

KAMENSKIY, I.V., [illegible] nauchnyy sotrudnik; [illegible], E.V.

Study of fish helminths in Lake Nemorvoln. Trudy VIGIS 12:
71-76 '64. (MIRA 18:12)

PONOMAREVA, F.D.

Degeneration of erythremia into acute hemocytoblastosis. Probl. gemat.i perel.krovi 1 no.1:61-62 Ja-F '56. (MIRA 14:1)

1. Iz terapevticheskoy kliniki Instituta imeni N.V. Sklifosovskogo (dir. M.M. Tarasov).
(ERYTHREMIA) (LEUKEMIA)

KUDRIN, Aleksandr Nikolayevich, prof.; PONOMAREVA, Galina Tarasovna; VOZNESENSKIY, L.S., red.

[Use of mathematical methods in medicine and pharmacology; a textbook for students, staff physicians, and postgraduates] Primenenie matematicheskikh metodov v meditsine i farmakologii; uchebnoe posobie dlia studentov, ordinatorov i aspirantov. Moskva, 1-i Mosk. med. in-t, 1964. 370 p. (MIRA 19:1)

PONOMAREVA, I.A.

Comparative characteristics of brainstem arteries in man and green monkey (Cercopithecus sabaeus L.). Arkh. anat., gist. i embr. 49 no.9:21-26 S '65. (MIRA 18:12)

1. Kafedra operativnoy khirurgii s topograficheskoy anatomiyey (zav. - prof. M.A.Sreseli) 1-go Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova i kafedra operativnoy khirurgii s topograficheskoy anatomiyey (zav. - prof. T.A. Zaytseva) Yaroslavskogo meditsinskogo instituta. Submitted April 4, 1964.

ACC NR: AM5026680 Monograph UR/

Antomonov, YUriy, Gur'yevich; Kotova, Alina Borisovna; Ponomareva, Inna Dmitriyevna; Pustovoyt, Oksana Gavrilovna; Reshod'ko, Leonid Vasil'yevich; Tsepkov, Gennadiy Vasil'yevich

Mathematical patterns of excitation (Matematicheskiye modeli vozbuzhdeniya) Kiev, Izd-vo "Naukova dumka," 65. 0146 p. illus., biblio. (At head of title: Akademiya nauk Ukrainskoy SSR. Institut kibernetiki) 2,000 copies printed.

TOPIC TAGS; cybernatics, mathematic model, tissue physiology, muscle physiology, myology, neurology, nervous system

PURPOSE AND COVERAGE: The book discusses the properties of elemtns of nervous and muscle tissue by constructing mathematical models. A simple mathematical apparatus is used for cinstructing the models. The book is intended for biologists, engineers, mathematicians, and doctors interested in using cybernetic methods for the analysis of living tissue.

16C

TABLE OF CONTENTS (abridged):

Card 1/2 UDC: 534 612.15

ACC NR: AM5026680

SUB CODE: 06,12/ SUBM DATE: 05Mar65/ ORIG REF: 031/ OTH REF: 015

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001342120018-9"

IONIN, M.V.; PONOMAREVA, I.N.; ZVORYKINA, G.I.

Mechanism of copper dissolution in hydrochloric acid. Trudy po khim.i khim.tekh. no.1:32-35 '64.

Mechanism of silver dissolution in hydrochloric acid. Ibid.:36-39 (MIRA 18:12)

1. Submitted September 23, 1963.

L 23268-66 FBD/EWT(1)/EWT(m)/EEC(k)-2/T/EWP(t)/EWP(k)/EWA(h) IJP(c) WG/JD

ACC NR: AP6011569 SOURCE CODE: UR/0051/66/020/003/0501/0503

AUTHOR: Lebedeva, V. V.; Odintsov, A. I.; Lebedev, I. V.; Andriyakhin, V. M.; Gudovich, Z. S.; Ponomareva, I. P.

ORG: none

TITLE: An He—Ne laser amplifier with feedback

SOURCE: Optika i spektroskopiya, v. 20, no. 3, 1966, 501-503

TOPIC TAGS: laser system, gas laser, helium neon laser, laser amplifier, feedback laser

ABSTRACT: An He—Ne laser amplifier with feedback (at $\lambda = 0.633$ μ) is described and illustrated (see Fig. 1). Master oscillator 1 and amplifier 2 are placed parallel to

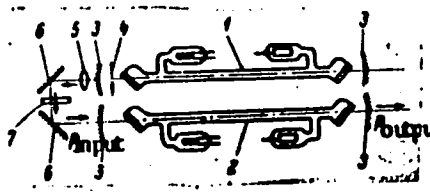


Fig. 1. Schematic of the device

1 - Master oscillator; 2 - amplifier; 3 - resonator mirror, radius of curvature 1160 mm; 4 - diaphragm for separating TEM_{00} modes; 5 - coincidence lens; 6 - rotating mirrors; 7 - light filter.

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each other on a heavy bench. Radiation from 1 is attenuated by neutral filters by 10^4 or 10^3 times to provide a bypass from 1 to 2 and to avoid amplifier saturation. Lens 5 is used to produce coincidence of the wavefront, incident on 2, with the input mirror surface. The ratio of partial pressures of He and Ne in the amplifier is 17:1, resulting in a weak dependence of gain and activity of the medium on variations in the discharge current. The maximum gain of the system, measured in terms of the magnitude of the output signal from the amplifier when the oscillator frequency and the center of the amplifier passband are coincident, is 1000 (30 db). The misalignment of the amplifier axis with the direction of the incident wave, which affects gain, was not more than 3 sec of arc. The values of gain observed experimentally (mirrors: 99 and 98% reflective) and theoretically (mirrors: ideal dielectric) are in good agreement. Orig. art. has: 1 formula and 3 figures. [YK]

SUB CODE: 20/ SUBM DATE: 06Jul65/ ORIG REF: 003/ OTH REF: 003/ ATD PRESS: 4230

Card 2/2 UCR

ZAYTSEVA, G.A.; MODISOVA, Ye.N.; PONOMAREVA, I.S.; TRUBNIKOVA, S.G.

Investigating a helical antenna in centimeter wave range. Sbor.st.
LITMO no.47:14-20 '59. (MIRA 16:10)

ASTAPOVICH,I.S.; BAKULIN,P.I.; BAKHAREV,A.M.; BRONSHTEN,V.A.; BUGOSLAVSKAYA, N.Ya.[deceased]; VASIL'YEV,O.B.; GRISHIN,N.I.; DAGAYEV,M.M.; DUBYAGOVSKIY,K.K.[deceased]; ZAKHAROV,G.P.; ZOTKIN,I.T.; KRAMER,Ye.N.; KRINOV,Ye.L.; KULIKOVSKIY,P.G.; KUNITSKIY,R.V.; KUROCHKIN,N.Ye.; ORLOV,S.V.[deceased]; POPOV,P.I.; PUSHKOV, N.V.; RYBAKOV, A.I.; RYABOV,Yu.A.; SYTINSKAYA, N.N.; TSESEVICH, V.P.; SHCHIGOLEV,B.M.; VORONTSOV-VEL'YAMINOV,B.A.,red.; POLOMAREVA,G.A., red.; KRYUCHKOVA, V.N., tekhn. red.

[Astronomical calender; permanent part] Astronomicheskii kalendar'; postoiannaia chast'. Izd.5., polnost'iu perer. Otv. red. P.I.Bakulin. Red.kol.V.A.Bronshten i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1962. 771 p. (MIRA 15:4)

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PONOMAREVA (Manova), G.A.

Variable stars in the vicinity of FU Orionis. Astron.tsir. no.210: 18 Ap '60. (MIRA 13:9)

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(Stars, Variable)

VORONTSOV-VIL'YAMINOV, Boris Aleksandrovich; KRASNOGORSKAYA, Alisa Arkad'yevna; Prinimali uchastiye: TSITSIN, F.A.; PONOMAREVA, G.A.; MAKAROV, A.N.; KUKARKIN, B.V., prof., otv.red.; YERMAKOV, M.S., tekhn.red.

[Morphological catalog of galaxies. Part 1. Catalog of 7,200 galaxies with declinations from 90 to 45] Morfologicheskii katalog galaktik. Chast' 1. Katalog 7200 galaktik ot 90 do 45 sklonenila. Moskva, Izd-vo Mosk.univv., 1962. 205 p. (Moscow. Universitet. Gosudarstvennyi astronomicheskii institut. Trudy, vol.32). (MIRA 16:2)
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1. Gosudarstvennyy astronomicheskiy institut im.P.K.Shternberga. (Astronautics)

DOLIDZE, M.V.; PONOMAREVA, G.A.

New emission stars in Cassiopeia. Astron. zhur. 42 no.1:205-207 Ja-F '65. (MIRA 18:2)

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SELEZNEV, A.K.; STEPURO, S.I.; Prinimali uchastiye: PANTELEYEVA, T.M.; LITVINOVA, L.I.; PONOMAREVA, G.F.; MARDIYANTS, Z.A.

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(Ethers) (Chlorides)

PONOMAREVA, G.F.

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Circle Diagrams

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"Elektrichestvo" No 12, pp 52-58

Proposes graphical method for facilitating the detn of the phase-shift angles between currents and voltages of the sep parts of the nonlinear

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USSR/Electricity - Nonlinear Circuits Dec 51
(Contd)

ac circuits under study. Method can be used only if the currents and voltages are sinusoidal. Submitted 3 Mar 51.

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-PONOMAREVA, G.F.

KURENEV, S.I., dekter tekhnicheskikh nauk, dotsent; MEYEROVICH, E.A., dekter tekhnicheskikh nauk, professor; VORONOV, R.A., dekter tekhnicheskikh nauk, dotsent; PONOMAREVA, G.F., kandidat tekhnicheskikh nauk, dotsent; IONKIN, P.A., kandidat tekhnicheskikh nauk, dotsent.

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BOYARINOVA, A.P., inzh.; MEL'KUMOV, I.N., inzh.; BRUSILOVSKIY, B.S., inzh.; KONTSEVAYA, Ye.M., inzh.; Prinimali uchastiye: ROMASHOV, V.M.; PONOMAREVA, G.S.

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(SHIGELLA)

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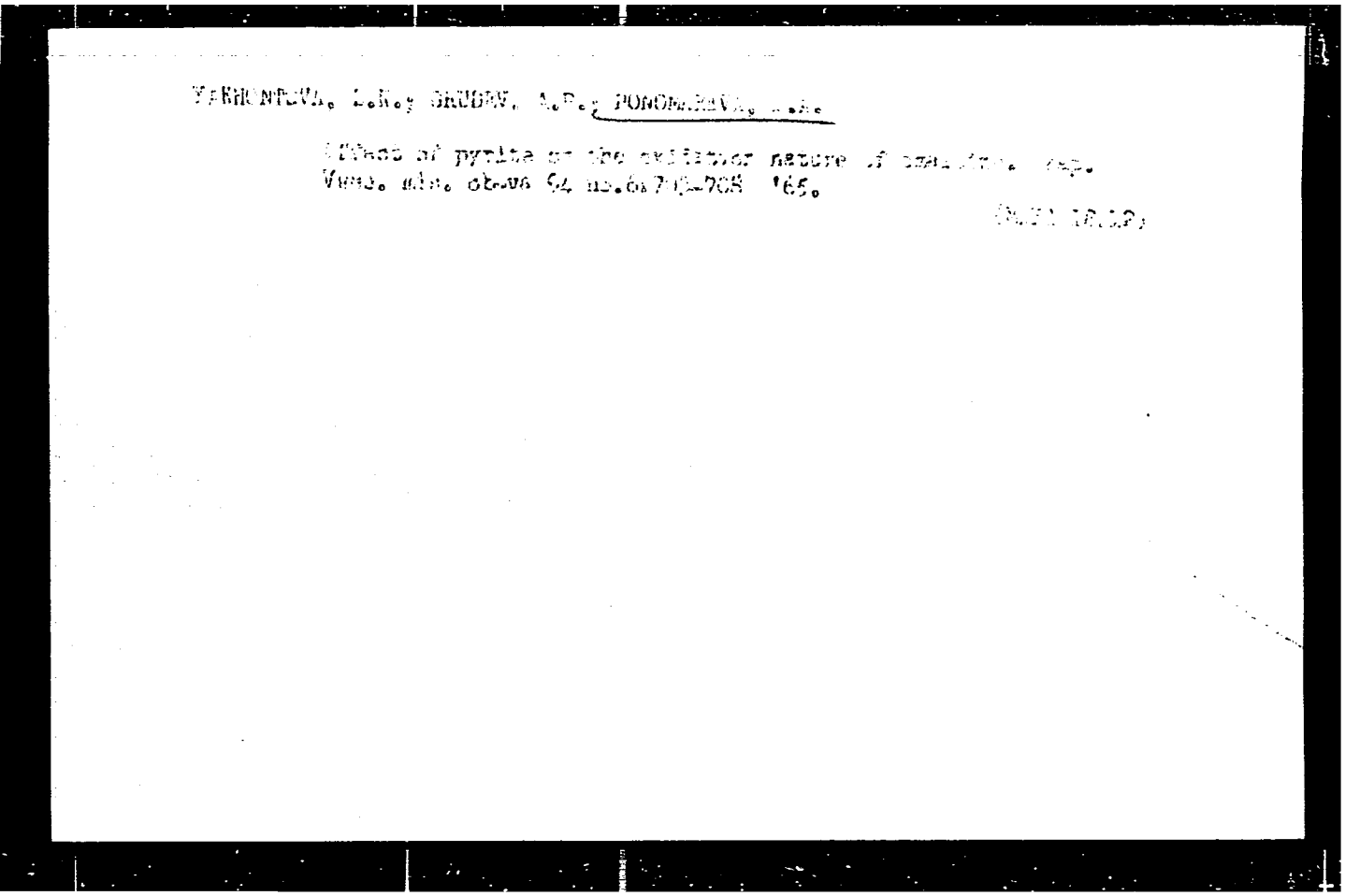

ANTOMONOV, Yuriy Gur'yevich; KOTOVA, Alina Borisovna; PONOMAREVA, Inna Dmitriyevna; PUSTOVOYT, Oksana Gavrilovna; RESHOD'KO, Leonid Vasil'yevich; TSEPKOV, Gennadiy Vasil'yevich; SHABANOV-KUSHNARENKO, Yu.P., kand. tekhn. nauk, otv. red.

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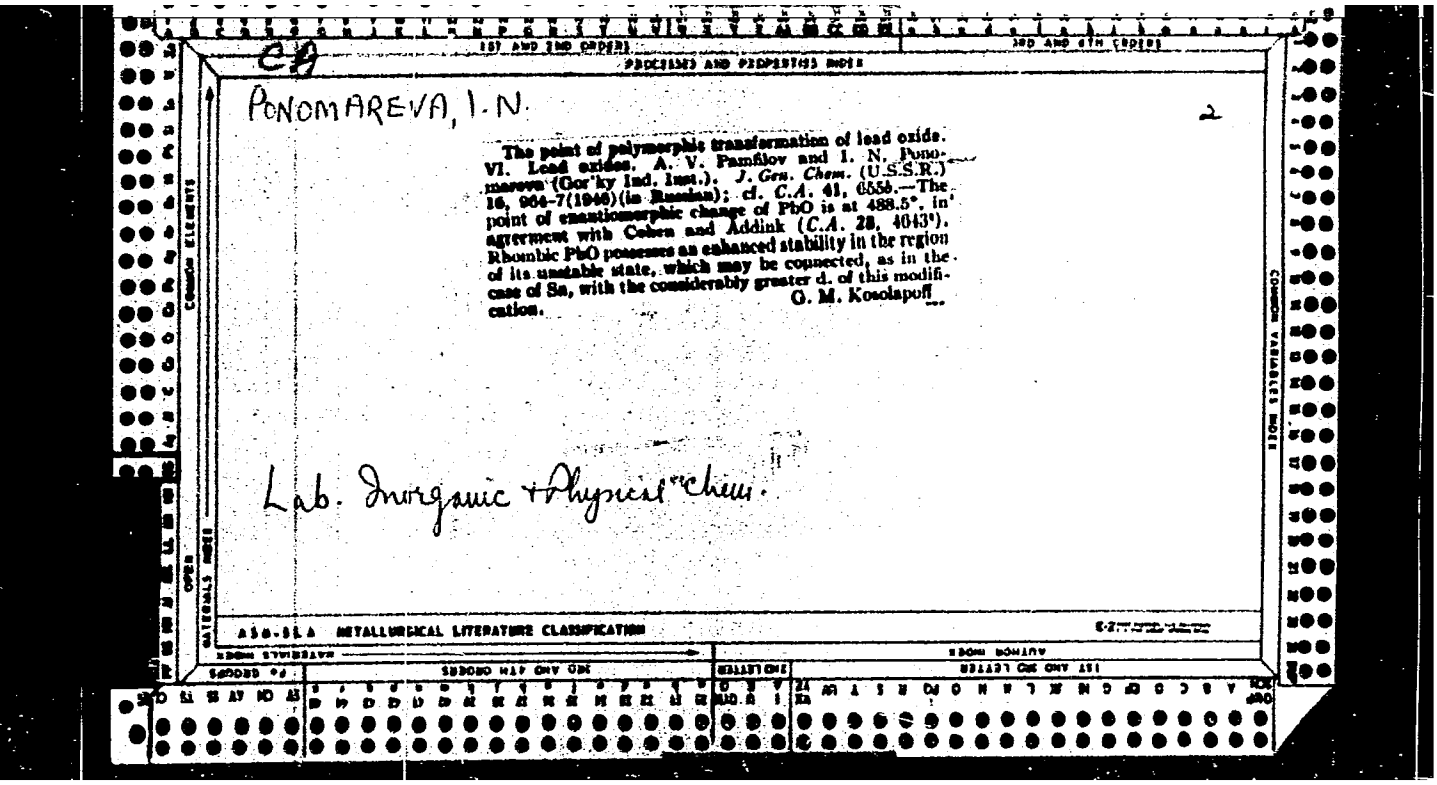

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PONOMAREVA, I. N.

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G. M. Kosolapoff

Lab. Inorganic + Physical Chem.

A56-81A METALLURGICAL LITERATURE CLASSIFICATION

PONOMAREVA K.A.

KUZNETSOV, M.A.; PONOMAREVA, K.A., redaktor; ISLENT'YEVA, P.G., tekhnicheskiy redaktor.

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GRIGOR'YEV, V.P., kandidat tekhnicheskikh nauk; PONOMAREVA, K.A., redaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor.

[Riveting and riveting equipment in airplane construction] Klepka i klepal'noe oborudovanie v samoletostroenii. Moskva, Gos. izd-vo oboronnoi promyshlennosti, 1948. 278 p. [Microfilm] (MLRA 7:12)
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VUKALOVICH, M.P., doktor tekhnicheskikh nauk, professor; PONOMAREVA, K.A., inzhener, redaktor; POPOVA, S.M., tekhnicheskiy redaktor.

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PONOMAREVA, K.A.

MALAKHOVSKIY,V.E., kandidat tekhnicheskikh nauk; AKOPYAN,S.I., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; GOSTEV,B.I., kandidat tekhnicheskikh nauk, zamestitel' direktora po nauchnoy rabote; VASIL'YEV,A.V., kandidat tekhnicheskikh nauk, redaktor; KRISTI,M.K professor, redaktor; L'VOV,Ye.D., professor, redaktor; MALASHKIN, O.M., inzhener, redaktor; YUDUSHKIN,N.G., inzhener, redaktor; PONOMAREVA,K.A., inzhener, redaktor; MATVEYEVA,Ye.N., tekhnicheskiy redaktor.

[Investigation of the efficiency of tractor transmission systems] Issledovanie koeffitsienta poleznogo deistviia traktornykh transmissii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 50 p. (Moscow, Gosudarstvennyi soiuznyi nauchno-issledovatel'skii traktornyi institut. Trudy, no.10) (MLRA 8:9)

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PONOMAREVA, K.A.

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ORLIN, A.S., professor; VYRUBOV, D.N.; KOSTYGOV, N.I.; LEBEDEV, S.Ye. [deceased]; ROGANOV, S.G.; SIMAKOV, F.F.; CHURSIN, M.M.; PETROV, V.A., professor, retsenzent [deceased]; PONOMAREVA, K.A., redaktor; MODEL', B.I., tekhnicheskiy redaktor

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ZHIGAREV, F.M.; ZHILIN, V.K.; ZIMELEV, G.V., professor; MAMLEYEV, A.I.; ROTENBERG, R.V.; RUDAKOV, L.F.; FRUMKIN, A.K.; PONAMAREVA, K.A., inzhener, redaktor; POPOVA, S.M., tekhnicheskiy redaktor.

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KUROV, A.A. [deceased]; KUROV, B.A.; SHUTYY, L.R., kandidat tekhnicheskikh nauk; retsenzent; CHAMOV, A.N., inzhener, redaktor; POMOMAREVA, K.A., inzhener, redaktor; TIKHONOV, A.Ya., tekhnicheskiy redaktor

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GOLDOVSKIY, P.B., inzh.; GRIGOR'YEV, V.P., kand. tekhn.nauk, red.; PONOMAREVA, K.A., red.; RYABENKO, A.V., tekhn. red.

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KALASHNIKOV, N.V.; STOTSKIY, L.R.; GLINER, B.M. [deceased]; DOBRYNINA, N.P.; DUBROVSKAYA, Kh.A.; YEZDAKOVA, M.L.; LYUBIMOV, N.G.; PONOMAREVA, K.A.; REYKHTSAUM, P.B.; SMIRNOV, V.I.; SUSHKIN, I.N.; SHAKHMAYEVA, Ye.A., vedushchiy red.; POLOSINA, A.S., tekhn. red.

[Units of measurement and abreviations of physical and technical values; manual for editors and writers] Edinitsy izmereniia i oboznacheniia fiziko-tekhnicheskikh velichin; spravochnik dlia rabotnikov izdatel'stv i avtorov. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 254 p. (MIRA 14:9)

1. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo neftyanoy i gorno-toplivnoy promyshlennosti (for Kalashnikov, Dobrynina, Smirnov). 2. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. Gubkina, (for Stotskiy). 3. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo Ministerstva promyshlennosti prodovol'stvennykh tovarov (for Dubrovskaya). 4. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo literatury po chernoy i tsvetnoy metallurgii (for Yezdakova, Sushkin). 5. Gosgortekhizdat (for Lyubimov). 6. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo mashinostroitel'noy literatury (for Ponomareva). 7. Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo khimicheskoy literatury (for Reykhtsaum).

(Engineering--Nutation) (Units)

ANOSOV, V.Ya.; BELYAYEV, A.I.; VOL'SKIY, A.N.; GERASIMOV, Ya.I.; ZHUKHOVITSKIY, A.A.; KUZ'KIN, S.F.; NEKRASOV, B.V.; PONOMAREVA, K.S.

Aleksandr Nikolaevich Krestovnikov; on the 60th anniversary of his birth. Zhur. fiz. khim. 34 no.2:482-483 F '60. (MIRA 14:7)
(Krestovnikov, Aleksandr Nikolaevich, 1899-)

PONOMAREVA, Klavdiya Semenovna; PTITSYNA, V.I., red.izd-va; KARASEV, A.I., tekhn. red.

[Collection of problems in physical chemistry] Sbornik zadach po fizicheskoi khimii. Moskva, Metallurgizdat, 1962. 231 p. (MIRA 16:4)
(Chemistry, Physical--Problems, exercises, etc.)

PHASE I BOOK EXPLOITATION SOV/3657

Ponomareva, Klavdiya Semenovna

Sbornik zadach po fizicheskoy khimii (Collection of Problems in Physical Chemistry) Moscow, Metallurgizdat, 1959. 189 p. Errata slip inserted. 10,200 copies printed.

Ed.: A. A. Zhukhovitskiy; Ed. of Publishing House: S. L. Zinger; Tech. Ed.: V. V. Mikhaylova.

PURPOSE: This book is intended for students taking a course in physical chemistry in metallurgical and other schools of higher technical education in which chemistry is not the main part of the curriculum.

COVERAGE: The book is a manual in physical chemistry. The chapters of the book correspond to the major divisions of physical chemistry, and the examples and problems are adapted to existing programs for the course. Theoretical principles are presented with each group of problems. No personalities are mentioned. There are 25 references: 17 Soviet, 4 English, and 4 German.

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Ponomareva, K.S.

AUTHORS: Anosov, V.Ya., Belyayev, A.I., Vol'skiy, A.N., Gerasimov, Ya.I., Zhukhovitskiy, A.A., Kuz'kin, S.F., Murach, N.N., Nekrasov, B.V., Ponomareva, K.S.

S/076/60/034/02/042/044
B010/B007

TITLE: Aleksandr Nikolayevich Krestovnikov (A.N. Krestovnikov) (On the Occasion of His 60th Birthday)

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol 34, Nr 2, pp 482-483 (USSR)

ABSTRACT: On August 13, 1959 Doctor of Technical Sciences, Professor A.N. Krestovnikov attained the age of sixty. He is one of the leading Soviet experts on thermodynamics and is well-known by his fundamental work in the field of chemical thermodynamics and its application in non-ferrous metallurgy. A.N. Krestovnikov worked at the Nauchno-petrograficheskiy Institut Litogea (Scientific Petrographical Institute Lithogea), the Institut prikladnoy mineralogii i petrografii (Institute of Applied Mineralogy and Petrography), Institut prikladnoy mineralogii i metallurgii tsvetnykh metallov (Institute of Applied Mineralogy and Metallurgy of Non-ferrous Metals), the Tsentral'nyy institut tsvetnykh metallov (Central Institute of Non-ferrous Metals), the Kazakhskiy filial AN SSSR (Kazakhskiy Branch of the AS USSR), and other research institutes dealing with problems of chemical technology, electrochemistry,

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and the physical chemistry of metallurgical processes. Under the supervision of the well-known scientists N.A. Shilov, E.V. Britske, and N.A. Izgaryshev, A.N. Krestovnikov very soon became a widely recognised scientist and pedagogue. In 1926 he began his pedagogical activities and lectured at higher technical schools in Moscow and its neighborhood, as well as at the Moskovskoye vyssheye tekhnicheskoye uchilishche (Moscow Higher Technical School), the Voyenno-khimicheskaya akademiya im. K.Ye. Voroshilova (Military Chemical Academy imeni K.Ye. Voroshilov), the Institut khimicheskogo mashinostroyeniya (Institute of Chemical Machine Construction), the Metallurgicheskiy institut zavoda "Serp i Molot" (Metallurgical Institute of the Plant "Serp i Molot"), the Moskovskiy poligraficheskiy institut (Moscow Polygraphical Institute), the Voyennyy fakul'tet goryuche-smazochnykh materialov (Military Department for Fuels and Lubricants), and others. From 1932 up to the present day A.N. Krestovnikov has been active at the Institut tsvetnykh metallov i zolota im. M.I. Kalinina (Institute of Nonferrous Metals and Gold imeni M.I. Kalinin) and now has the Chair of Physical and Colloid Chemistry. Besides more than 100 publications, A.N. Krestovnikov (together with Corresponding Member of the AS USSR Professor Ya.I. Gerasimov) wrote the book "Khimicheskaya termodinamika v tsvetnoy metallurgii" ("Chemical Thermodynamics in

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Non-ferrous Metallurgy"). A.N. Krestovnikov was awarded the Order of Lenin in 1953 for his many years of scientific and pedagogical activities. There is 1 figure.

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TOMASHOV, N.D., prof., doktor khim.nauk, red.; ZHUKHOVITSKIY, A.A., prof., doktor khim.nauk, retsenzent; PONOMAREVA, K.S., dotsent, retsenzent; ALAVERDOV, Ya.G., red.izd-va; POPOVA, S.M., tekhn.red.

[Corrosion and protection of steel; collection of articles] Korroziia i zashchita stalei; sbornik statei. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 233 p. (MIRA 12:10)

(Steel) (Corrosion and anticorrosives)

5(0)

AUTHORS: Gol'bert, K. A., Ponomareva, K. S. SOV/76-33-3-40/41

TITLE: Aleksandr Abramovich Zhukhovitskiy (On His 50th Birthday) (K 50-letiyu so dnya rozhdeniya)

PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 3, pp 738-739 (USSR)

ABSTRACT: In September 1958, Professor A. A. Zhukhovitskiy celebrated his 50th birthday and could look back to 28 years of scientific and pedagogical work. In 1930 he completed his studies at the khimicheskiy fakul'tet Donskogo politekhnicheskogo instituta (Chemical Department of the Don Polytechnic Institute) and worked as a post-graduate student at the Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physical and Chemical Institute imeni L. Ya. Karpov) until 1932; he worked at this institute until 1948. In 1948 he entered the Moskovskiy institut stali (Moscow Institute for Steel), where he still holds the Chair of Physical Chemistry. A. A. Zhukhovitskiy published more than 80 scientific papers on surface phenomena, the structure of substances, quantum chemistry, thermodynamics, as well as on the reaction rate of processes in pure solutions. He derived a formula which

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Aleksandr Abramovich Zhukhovitskiy (On His 50th Birthday) SOV/76-33-3-40/41

permits calculations of the surface tension of solutions. Together with his cooperators (Ya. Zabezhinskiy et al) he studied the problems of sorption dynamics and devised, together with Tikhonov, a mathematical solution of external diffusion, which was also investigated by Klotz, Hinshelwood, et al a few years later. The papers published by Zhukhovitskiy and A. Kh. Breger permit calculations of the surface tension of metals. A. A. Zhukhovitskiy began to make quantum-chemical investigations still under the supervision of Gaytler, and later he gave a new formulation of Pauli's principle. By use of radiotracers Zhukhovitskiy devised a number of methods for determining thermodynamic and diffusion properties of solid and liquid alloys. In addition to practical work, he made some original scientific studies which were incorporated in textbooks. There is 1 figure.

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