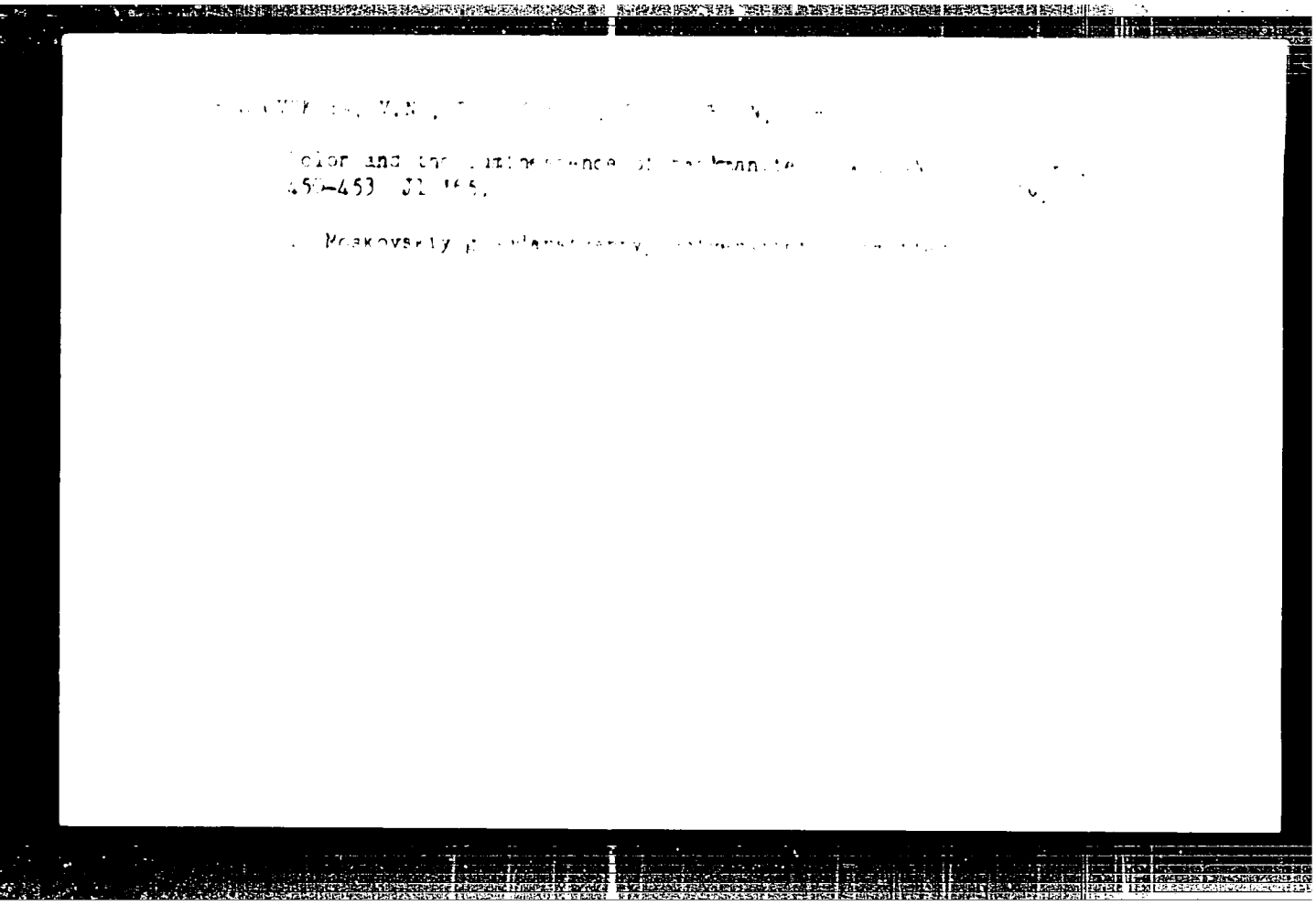
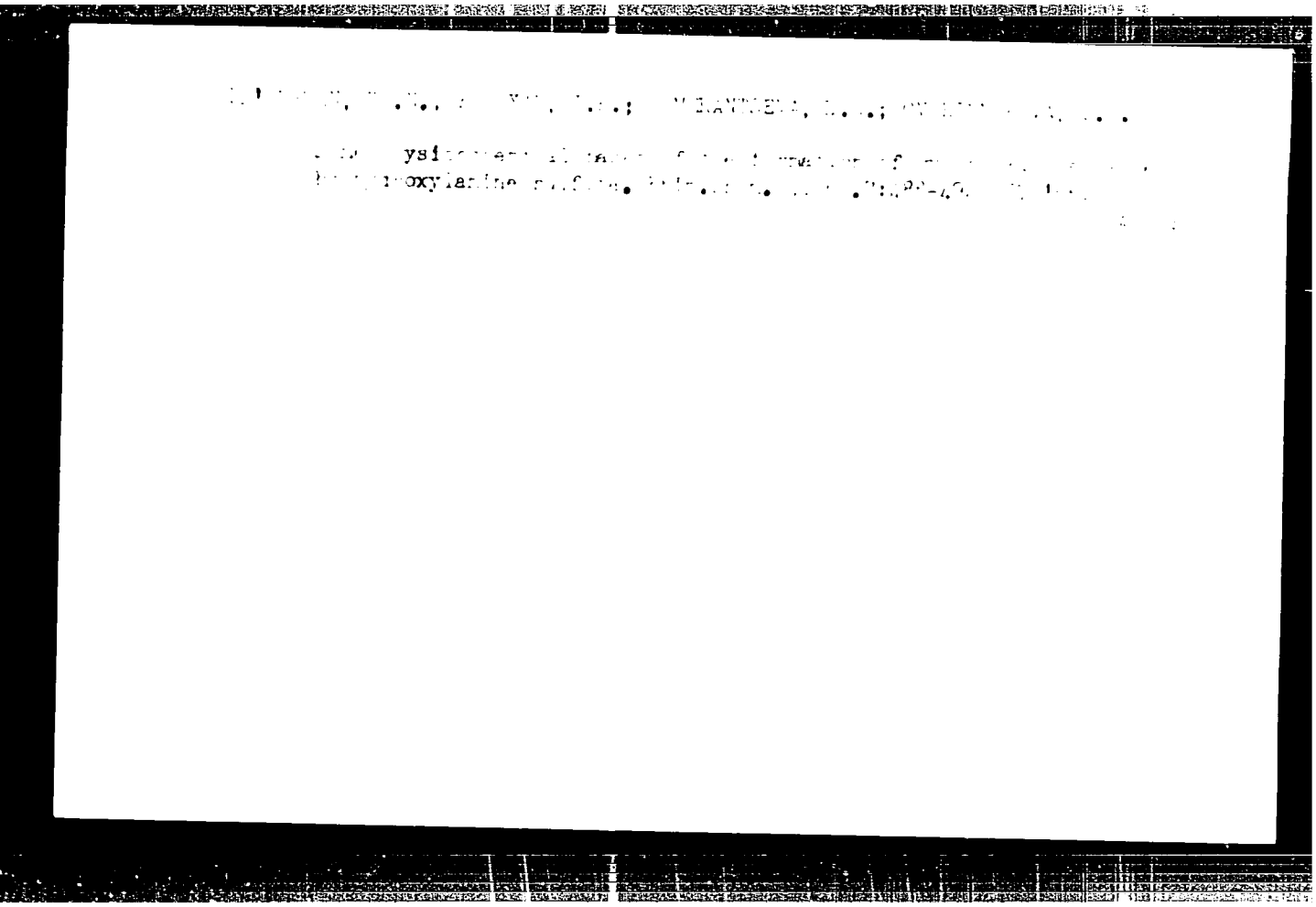




OV[illegible]HINNIK[illegible]VA, [illegible]

Album [illegible]
6[illegible]-63 [illegible].

1. Mo[illegible]vskaya [illegible] akademiya im. [illegible]yazeva.

SAMOYLOVA, K.A.; OVCHINNIKOVA, L.P.

Effect of ultraviolet radiation on the content of nucleic acids in Paramecium caudatum. Sbor. rab. Inst.tsit. no. 3: 145-153 '63. (MIRA 17:7)

1. Laboratoriya kosmicheskoy biologii i Laboratoriya mikroskopii Instituta tsitologii AN SSSR.

ZHORNO, L. Ya. and OVCHINNIKOVA, L. P.

"Cytospectrophotometric Analysis of DNA in the Cells of Stratified Squamous Epithelium of the Guinea Pig." pp. 32

Institute of Cytology AS USSR Laboratory of Cell Morphology. Laboratory of Microscopy

II Nauchnaya Konferentsiya Institute Tsitologii AN SSSR. Tezisy Dokladov (Second Scientific Conference of the Institute of Cytology of the Academy of Sciences USSR, Abstracts of Reports), Leningrad, 1962 88 pp.

JPRS 20,614

OVCHINNIKOVA, L. P., SELIVANOVA, O. V. and KUDRYAVTSEV, B. N.

"Study of the Effect of Starvation on the Quantity of RNA and DNA in the Paramecium Caudatum by the Method of Ultraviolet Cytophotometry." pp. 52

Institute of Cytology AS USSR Laboratory of Microscopy

II Nauchnaya Konferentsiya Instituta Tsitologii AN SSSR. Tezisy Dokladov (Second Scientific Conference of the Institute of Cytology of the Academy of Sciences USSR, Abstracts of Reports), Leningrad, 1962 88 pp.

JPRS 20,634

SAMOYLOVA, K. A. and OVCHINNIKOVA, L. P.

"The Effect of Ultraviolet Radiation on the Nucleic Acid Content of Paramecium Caudatum." pp. 72

Institute of Cytology AS USSR Laboratory of Space Biology, Laboratory of Microscopy

II Nauchnaya Konferentsiya Institutologii AN SSSR. Tezisy Dokladov (Second Scientific Conference of the Institute of Cytology of the Academy of Sciences USSR, Abstracts of Reports), Leningrad, 1962, 88 pp.

JPRS 20,634

ZHORNO, L.Ya.; OVCHINNIKOVA, L.P.

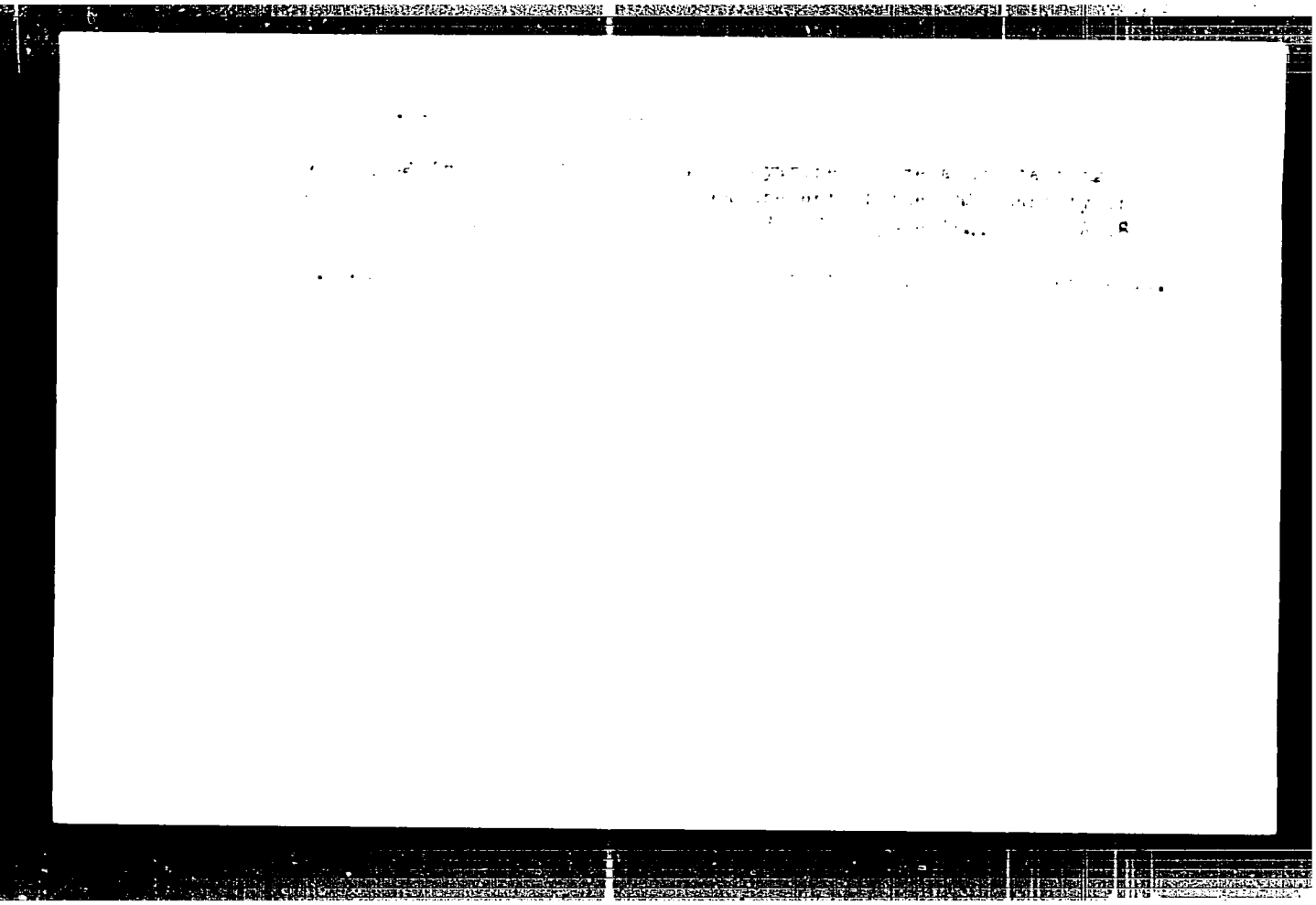
Quantitative analysis of deoxyribonucleic acid in cells of multilayer flat epithelium in guinea pigs; a cytophotometric study. Dokl.AN SSSR 144 no.4:907-910 Je '62. (MIRA 15:5)

1. Institut tsitologii AN SSSR. Predstavleno akademikom Ye.N. Pavlovskim.
(Nucleic acids) (Cells)

OVCHINNIKOVA, L.P., SELIVANOVA, G.V.; KHEYSIN, Ye.M.; Prinimali uchastiye: BUKHMAN, M.P.; KUR'YAVTSEV, B.N.

Photocytometric study by the ultraviolet ray method of the effect of starvation on RNA and DNA content in paramecium caudatum. Sbor. rab. Inst. fiziol. no. 3:44-53 '63. (MIRA 17:2)

1. Laboratoriya mikroskopii Instituta fiziologii AN SSSR.



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

KRASIKOVA, V. I.; LIKHONOSOVA, N. D.; MARUSHKINA, V. I.; KARASEV [illegible], [illegible]; [illegible], N. M.; LUDANOVA, N. V.; OVCHINNIKOVA, L. F.

"Study on the intensity of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

report submitted for European Mtg, Meat Res Workers, Roskilde, [illegible], [illegible] 1964.

ZHORNO, L.Ya.; OVCHINNIKOVA, L.P.

Nature of [illegible] stratified squamous epithelium [illegible]

(MIRA [illegible])

1. Laboratoriya morfologii kletki i laboratoriya mikroskopii Instituta tsitologii AN SSSR.

OVCHINNIKOVA, L.S.

Eclampsia as revealed by data from the Andizhan City Maternity Hospital. Med. zhur. Uzb. no. 2:9-11 F '61. (MIRA 14:2)

1. Iz Andizhanskogo gorodskogo rodil'nogo doma (glavnyy vrach - I.Kh. Khashimova, nauchnyy rukovoditel' - kand.med.nauk S.A. Adintsova).
(ANDIZHAN—PREGNANCY, COMPLICATIONS OF)

VChINNIKOVA, I. A. Canc Biol Sci — (diss) "Permeability of the Covers of Click beetles (Elateridae) Larvs As an Indicator of their relationship to Ecological Factors," Leningrad, 1960, 15 pp, [illegible] (Institute of Zoology, AS USSR) KL, 46/60, 124)

OVCHINNIKOVA, I.A.

Some physiological factors characterizing the different ecological groups of click beetle larvae (Elateridae, Coleoptera). Zhur.ob. biol. 21 no.1:41-47 Ja-F '60. (MIRA 13:5)

1. All-Union Institute of Plant Protection, Leningrad.
(WIREWORMS)

OVCHINNIKOVA, L.I.; OZHOIKHINA, O.O.

Photography of the fluorescence of capillary chromatograms of petroleum. Zhur.nauch.i prikl.fot.i kin. 5 no.4:316-317 Jl-Ag '60. (MIRA 13:8)

(Petroleum--Analysis)
(Paper chromatography)
(Photography--Scientific applications)

COUNTRY : USSR M-5
CATEGORY :

ABS. JOUR. : RZhBiol., No. [illegible] 1958, No. [illegible]

AUTHOR : Ovchinnikova, L. M.
INST. : Moscow Agricultural Academy im. [illegible] *
TITLE : The Aftereffect of Hexachlorocyclohexane [illegible]
[illegible]

ORIG. PUB. : [illegible] **

ABSTRACT : Hexachlorocyclohexane applied to the soil, as a 25% dust, at a rate of [illegible] kg technical preparation per hectare, manifested its toxic properties in relation to wireworms, in a decreasing degree, over 3 years, but at the same time on the second and third year following the application there was noted a decrease in weight of tubers and lowering of their quality. Damage to tubers by wireworm larvae was reduced during the first year after the application by 5 times in comparison with the controls (1952). In 1953 (second year after treatment of the soil) the damage to tubers was, respectively, of 16.3 and [illegible]%.

CARD: 1/2

* K. A. Timiryazev.

CARD: [illegible] ** [illegible]

USSR / General and Special Zoology. Insects. P

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11754

Author : Ovchinnikova L. M.
Inst : Not given
Title : Control of the Carrot Fly.

Orig Pub: Sad i ogorod, 1956, No11, 35-36

Abstract: No abstract.

Card 1/1

22

USCOMM-DC-55660

OVCHINNIKOVA, L.V.; BAKHAREVA, N.V.

Phlogopite in the Lebyazh'ye deposit. Trudy Gor.-geol. inst. UFAN SSSR no. 42:43-52 '59. (MIRA 14:2)
(Lebyazh'ye Mountain--Phlogopite)

KHEFFERAN, Khuan [Hefferan, Juan]; BRAVO, Oktavio [Bravo, Octavio]; BUKHANOS, Khuan [Bujanos, Juan D.]; OVCHINNIKOVA, M.A. [translator]; LATYSHOVA, M.G., kand.geol.-mineral.nauk, dotsent, red.; AL'PIN, L.M., prof., red.; DAKHNOV, V.N., prof., red.; DEMENT'YEVA, T.A., vedushchiy red.; GANINA, L.V., tekhn.red.

[Principles of geophysical well logging] Osnovy geofizicheskogo issledovaniia skvazhin. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 107 p. Translated from the Spanish. (Oil well logging) (MIRA 13:7)

OVCHINNIKOVA, M.A.

Result of administering high doses of the investigated serum in complement fixation in latent syphilis. Vest.ven. i derm. no.2: 32-34 Mr-Ap '55. (MLRA 8:5)

1. Is serologicheskoy laboratorii Ivanovskogo kozhno-venerologicheskogo dispansera.

(SYPHILIS, diagnosis,
serol., complement fixation with high doses of serum in latent syphilis)
(COMPLEMENT,
fixation in syphilis, high does of serum in latent forms)

OVCHINNIKOVA, M. D.

Ovchinnikova, M. D. "Gonorrhea clinic in postnatal period," Sbornik nauch. trudov (Rost. n/D gos. med. in-t), Vol. VIII, 1948, p. 163-67

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

OVCHINNIKOVA, M.D.

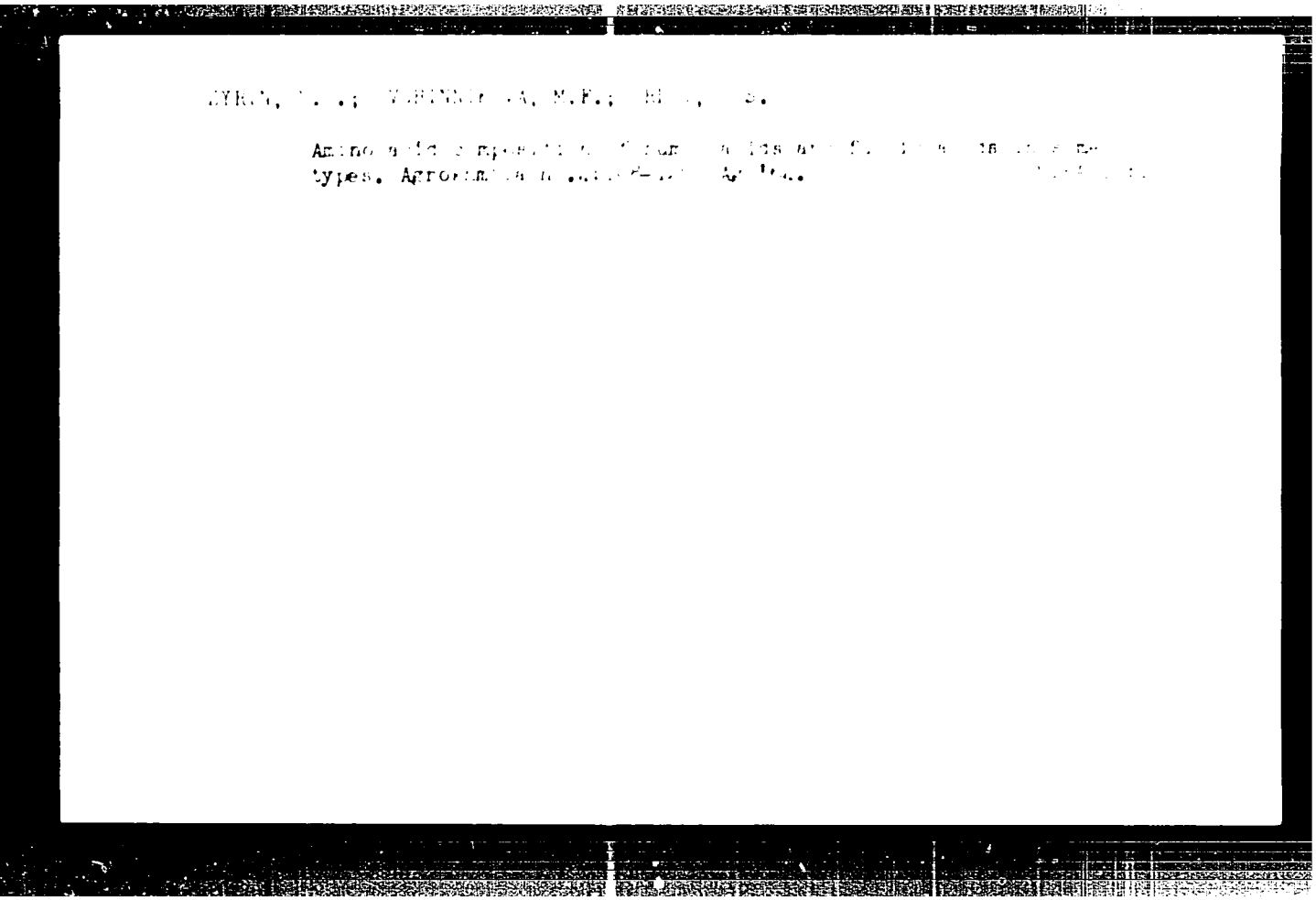
Anesthesia in labor with tekodine. Akush.i gin. no.1:16-18 Ja-F '54. (MLRA 7:6)

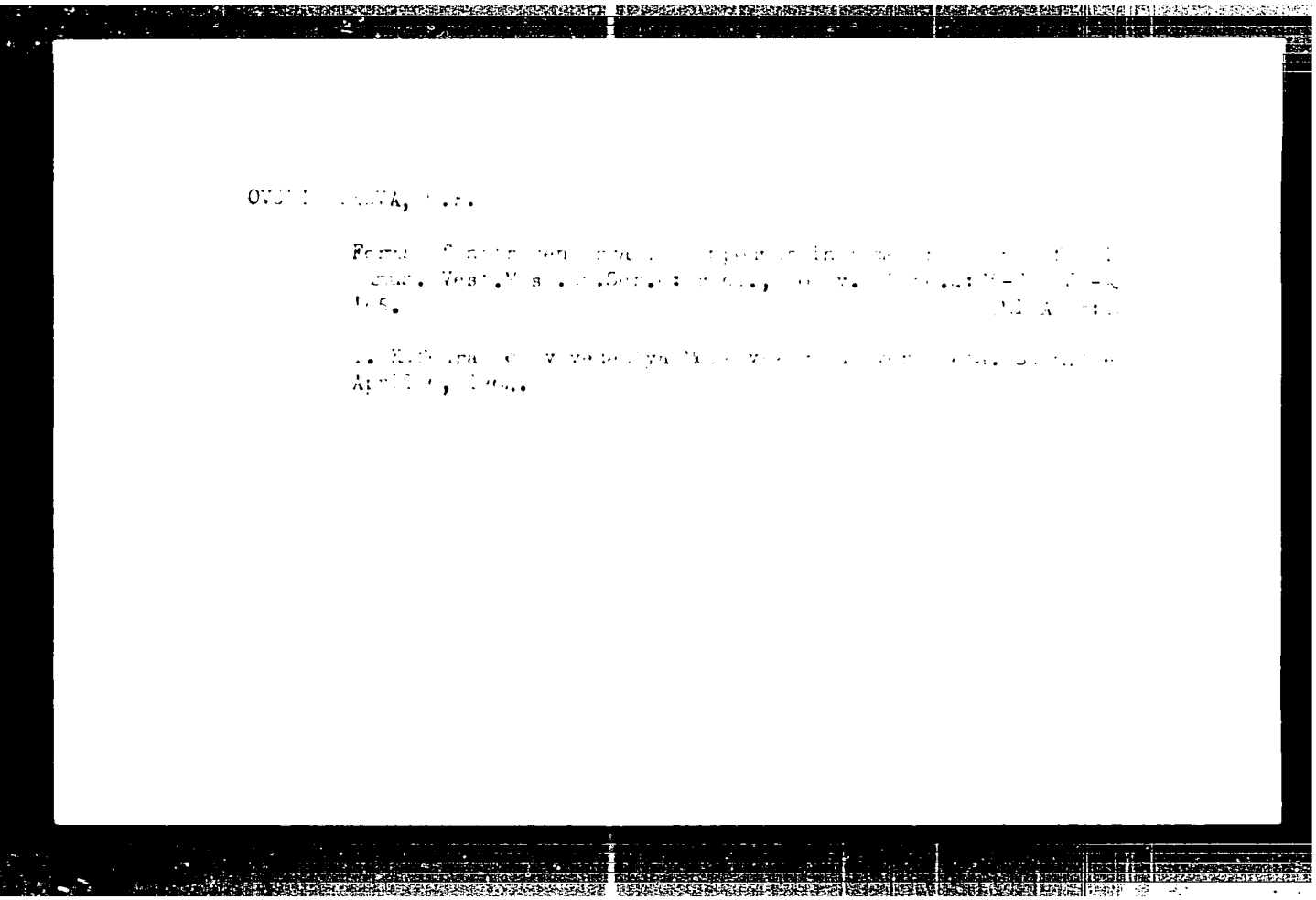
1. Iz akusherako-ginekologicheskoy kliniki (zaveduyushchiy - professor P.Ya.Lel'chuk) Rostovskogo-na-Donu meditsinskogo instituta.
(Labor (Obstetrics)) (Anesthesia in obstetrics)

OVCHINNIKOVA, M.F.; ORLOV, D.S.

Nitrogen distribution in fractions of organic soil substances.
Vest. Mosk. un. Ser. 6; Biol., pochv. 19 no.3:11-20 My-Je '64.
(MIRA 17:12)

1. Kafedra pochvovedeniya Moskovskogo universiteta.





KUZNETSOVA, Z.I.; IVANOV, V.I.; OVCHINNIKOVA, M.G.

Hydrolysis of acetal bonds in an acid medium in the compounds modeling some modified celluloses. Izv. AN SSSR.Otd.khim.nauk no.10:1886-1888 O '62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Cellulose) (Acetal) (Hydrolysis)

GUBERMAN, Sh.A.; OVCHINNIKOVA, M.I.

Some possibilities for using the statistical characteristics of a geological section. Izv. AN SSSR. Ser. geofiz. no.7:1021-1029 Jl '64. (MIRA 17:7)

1. Institut neftekhimicheskoy i gazovoy promyshlennosti imeni I.M. Gubkina.

IOFFE, Ye.I.; KONDRAT'YEVA, O.B.; OVCHINNIKOVA, N.P.

Survival of the causative agents of dysentery on various objects in foci of infection. Zhur.mikrobiol.epid.i immun. no.3:14-18 Mr '55. (MLRA 8:7)

1. Iz mikrobiologicheskoy laboratorii (zav. prof. L.O.Peretts) Sverdlovskogo Instituta epidemiologii, mikrobiologii i gigiyeny (dir. O.F.Bogdanov) i sanitarno-epidemiologicheskoy stantsii Sverdlovskoy oblasti (glavnyy vrach V.N.Bykova).
(SHIGELLA,
dysenteriae, survival in various objects)

[illegible], [illegible]

Parallel [illegible] water [illegible] of outer garments with the [illegible]-3 [illegible]. Nauch. Iss. [illegible] TSNIIShveiproma no.11:124-1[illegible] '6[illegible] (MIRA 1[illegible]:7)

L 1565-66 EWT(1)

ACCESSION NR: AP5019241 UR/0056/65/049/001/0275/0278

AUTHOR: Ovchinnikova, M. Ya. 44,55 21,44 55

TITLE: Exchange interaction of two different atoms at large distances

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 275-278

TOPIC TAGS: exchange reaction, Schroedinger equation, scattering cross section, excited state

ABSTRACT: The author derives an expression for the asymptotic exchange coupling in the case of two atoms (A and B) with strongly differing ionization potentials (I) such that $I_A/I_B \ll 1$. The splitting between the singlet and triplet states of two single-electron atoms is first evaluated and the atomic wave functions of the exact Schroedinger equation, in which allowance is made for the interaction between the electrons and the atoms, are determined. The procedure is similar to that used by Yu. N. Demkov and G. F. Drukarev (ZhETF v. 47, 918, 1964) for negative ions. The exchange interaction between atoms A of an alkali metal and atoms B of an inert gas is estimated by way of an example. It is shown that the asymptotic value of the exchange coupling at large distances R between the atoms is determined by the square of the electronic wave function of the atom A at the point R. "In conclusion I

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L 1565-66

ACCESSION NR: AP5019241

9

44,55 44,55

thank E. E. Nikitin and Professor N. D. Sokolov for a useful discussion of the work." Orig. art. has: 9 formulas.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR)

44,55

SUBMITTED: 02Feb65 ENCL: 00 SUB CODE: MP,

NR REF SOV: 008 OTHER: 004

Card 2/2

L 14742-65 EWT(l) IJP(c)/ESD(t)

ACCESSION NR: AP5000543 S/0051/64/017/006/0821/0824

AUTHOR: Ovchinnikova, M. Ya.

TITLE: Probability of nonadiabatic transition near the turning point

SOURCE: Optika i spektroskopiya, v. 17, no. 6, 1964, 821-824

TOPIC TAGS: nonadiabatic transition, transition probability, level transition, two level system

ABSTRACT: It is shown that in earlier calculations of the transition probability between two terms at the point of quasi-crossing are not applicable when the region essential for the transition includes the turning points. The author consequently obtains an exact quantum-mechanical solution for the non-adiabatic transition in the case of two linear terms with quasi-crossing, when the slope of one of the levels is equal to zero. The Schrodinger equation is

Card 1/2

ACCESSION NR: AP5000543

2

solved by the Laplace method for this case. The solution obtained makes it possible to extend the region of applicability of the Landau-Zener formula to include the probability of transition (with double passage through the crossing point) between two levels when one of the turning points is close to the crossing point. "The author thanks N. D. Sokolov and Ye. Ye. Nikitin for a discussion of the work." Orig. art. has: 2 figures and 4 formulas.

ASSOCIATION: None

SUBMITTED: 25Nov63 ENCL: 00

SUB CODE: NP, OP NR REF SOV: 001 OTHER: 003

ACCESSION NR: AP4043654 S/0056/64/047/002/0750/0756

AUTHORS: By*khovskiy, V. K.; Nikitin, Ye. Ye.; Ovchinnikova, M. Ya.

TITLE: Probability of nonadiabatic transition near the turning point

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 750-756

TOPIC TAGS: nonadiabatic process, level transition, term crossing, atomic wave function, transition probability

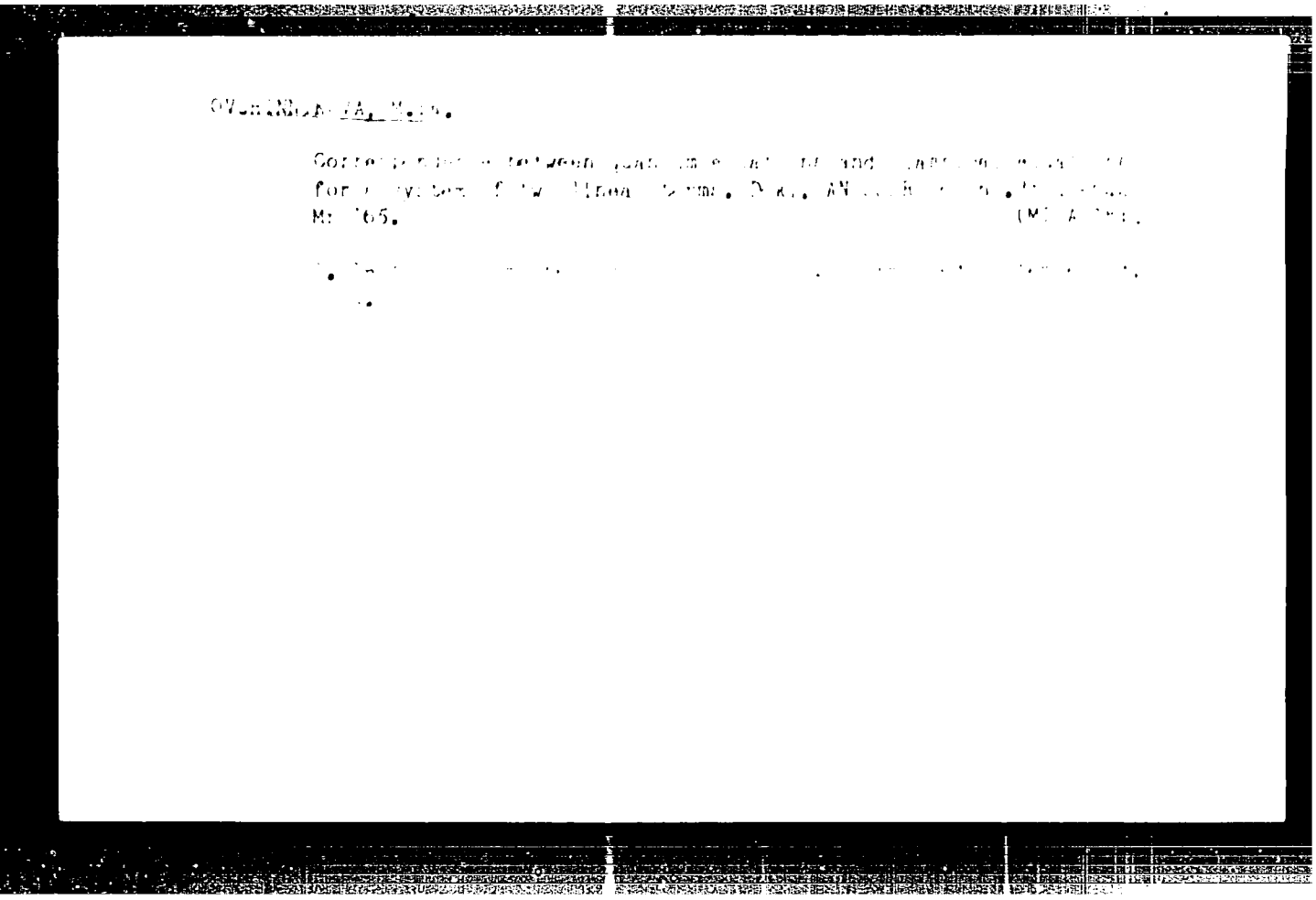
ABSTRACT: It is demonstrated that the quasiclassical and quantum mechanical treatment are completely equivalent for the case of two linear electron terms connected by a constant interaction-matrix element. A general solution, even for only two coupled levels, has been obtained so far only for the case when the distance between the point of the term crossing and the turning point is sufficiently large, and this approximation frequently does not hold true for slow atomic collisions. Formulas are derived for the transition probabil-

Card 1/2

OVCHINNIKOVA, M.Ya.

Transitions between the components of the fine structure of alkali metal atoms during resonance interaction. Teoret. i eksper. khim. 1 no.1:22-29 Ja-F '65. (MIRA 18:7)

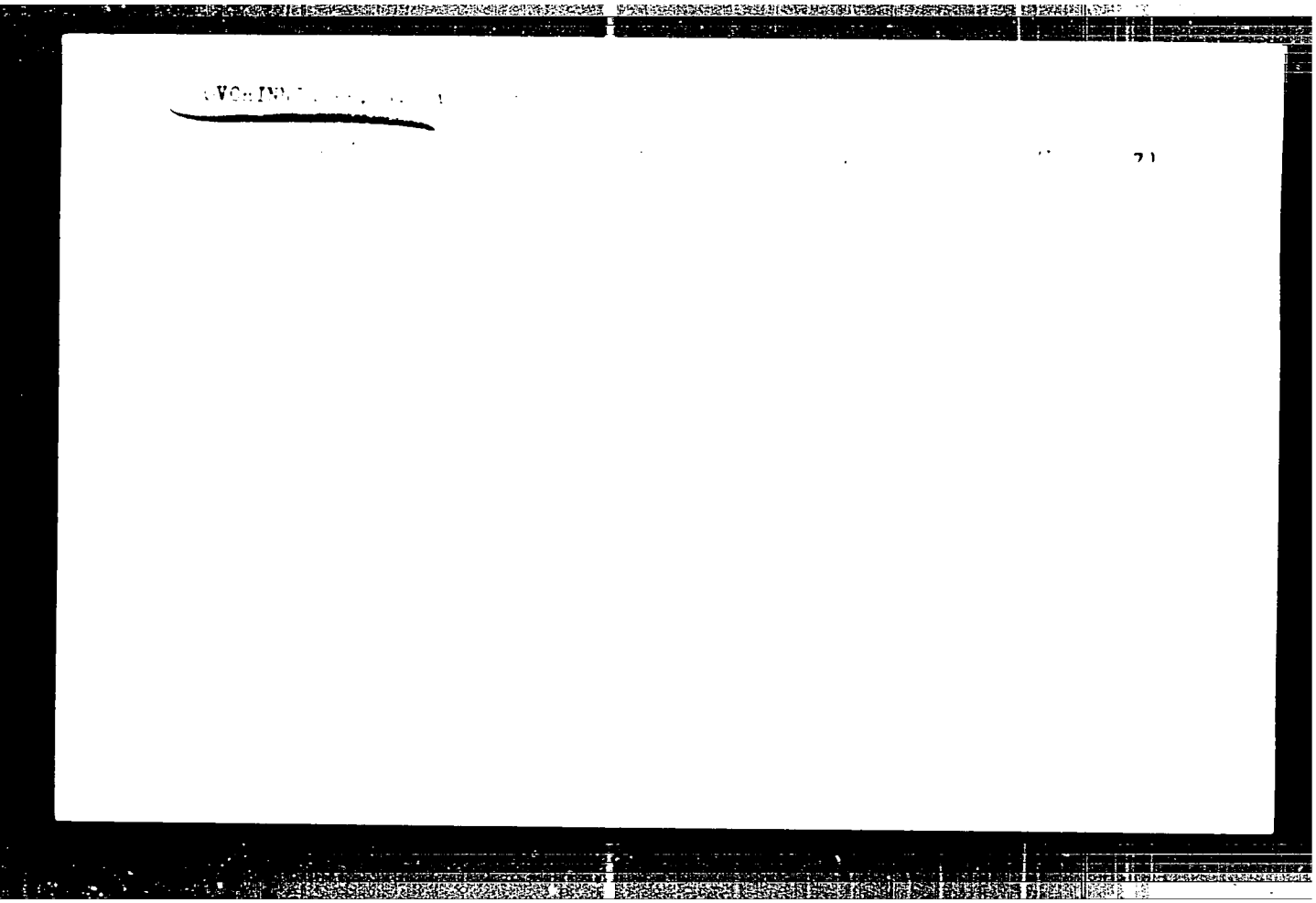
1. Institut khimicheskoy fiziki AN SSSR, Moskva.



GANAGO, L.I.; Prinimali uchastiye: OVCHINNIKOVA, N., studentka;
PEVNEVA, M., studentka

Determination of copper in ruby glasses without taking a weighed portion. Izv.vys.uchob.zav; khim.i khim.tekh. 4 no.5: 865-866 '61. (MIRA 14:11)

1. Stalingradskiy mekhanicheskiy institut, kafedra khimii.
(Copper—Analysis) (Glass, Colored)



L 1969-66 GS

ACCESSION NR: AT5017385 UR/0000/64/000/000/0074/0078

AUTHOR: Kharchenko, A. M. (Moscow); Ovchinnikova, N. A. (Moscow)

TITLE: Electron-beam tube for encoding

SOURCE: Konferentsiya po avtomaticheskomu kontrolyu, i metodam elektricheskikh izmereniy, 3d, Novosibirsk, 1961. Avtomaticheskiy kontrol' i metody elektricheskikh izmereniy; trudy konferentsii, t. 2: Tsifrovyye izmeritel'nyye pribory. Elektricheskiye izmereniya neelektricheskikh velichin. Ustroystva avtomaticheskogo kontrolya i upravleniya v promyshlennosti (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Digital measuring instruments. Electrical measurements of nonelectrical quantities. Devices for automatic control and regulation in industry). Novosibirsk, Redizdat Sib. otd. AN SSSR, 1964, 74-78

TOPIC TAGS: electron beam tube

ABSTRACT: The development of a Soviet ribbon-beam tube for parallel coding (Gray code) is briefly reported; the corresponding USA tube (R. L. Carbrey,

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L 1969-66
ACCESSION NR: AT5017385

Proc. IRE, v. 48, no. 9, 1960) is mentioned. An elementary description of the tube principle and operation is given. The laboratory model has a 0.6—1 x 15-mm beam with a 300—600 μa current; it turns out a 5-digit parallel (32 gradations) binary code with a 20—60- μa current in each collector. Output capacitance, 3—5 pF; input capacitance, 5—9 pF; sensitivity, 3.1 v per quantization step (100 v per 32 levels); anode voltage, 1000 v. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 11Nov64 ENCL: 00 SUB CODE: EC, DP

NO REF SOV: 002 OTHER: 000

KC

Card 2/2

14-57-6-11652

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6, p 7 (USSR)

AUTHOR: Ovchinnikova, N. D.

TITLE: How to use Regional Material in Teaching Weather and Climate to the Fifth Class (Ispol'zovaniye krayevedcheskogo materiala pri izuchenii pogody i klimata v V klasse)

PERIODICAL: V sb: Uchitelya geogr. o svoyey rabote. Moscow, Akad. ped. nauk RSFSR, 1955, pp 99-106

ABSTRACT: Bibliographic entry

Card 1/1

OVCHINNIKOVA, N. I.

USSR/Geophysics - Solar Halo 21 Aug 51

"Circumsolar Halo (Aureole) in Different Rays of the Spectrum," Ye. V. Pyaskovskaya-Fesenkova, Astrophys Inst, Acad Sci Kazakh SSR, Alma-Ata

"Dok Ak Nauk SSSR" Vol LXXIX, No 6, pp 957-960

Since 1949 co-workers T. P. Toropova and N. I. Ovchinnikova have been conducting measurements at the mountain observatory of the Astrophys Inst, Acad Sci Kazakh SSR in the vicinity of Alma-Ata (height 1,400 meters), on the illumination on an area perpendicular to the rays from the sun and from the halo around the sun. For this purpose the aureole photometer designed by V. G. Fesenkov with shutoff light filters was used. Gives graphs of results. Submitted by Acad V. G. Fesenkov 26 Jun 51.

222T39

OVCHINNIKOVA, N.I.

Comparing the transparency coefficients of the atmosphere and solar halos at two different altitudes [with summary in English]. Izv.Astrofiz.inst. AN Kazakh.SSR 5 no.7:136-143 '57. (MIRA 10:7)
(Atmospheric transparency) (Halos (Meteorology))

OVCHINNIKOVA, N.M., prof.; VTYURIN, B.V.

Gonococcus in the electron microscope. Vest.derm.i ven. no.7:
48-49 '61. (MIRA 14:8)

1. Iz TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. - kand.med.nauk N.M. Turanov) Ministerstva zdravookhraneniya RSFSR.
(NEISSERIA GONORRHOEAE)

OVCHINNIKOV, N.[illegible]; T[illegible], N.[illegible]; [illegible], I.[illegible]

Role of the Treponema pallidum immobilization reaction in the diagnosis of false-positive [illegible] standard serological reactions in pregnant [illegible] syphilitic hospitals. Vest. derm. i ven. 37 no.[illegible] [illegible]

1. Mikrobiologicheskiy [illegible] TSentral'nogo kozhno-[illegible] Institut [illegible] - kand. med. nauk [illegible] [illegible] RSFSR.

OVCHINNIKOVA, N. N.

5

B Chem

Indirect vinylation of aliphatic alcohols. M. F. Shostakovskii, B. I. Mikhant'ev, and N. N. Ovchinnikova. *Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.* [illegible], [illegible] (Engl. translation).—See *C.A.* 48, 1242c. H. L. H.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Organic Chemistry

USSR.

Indirect vinylation of aliphatic alcohols. M. F. Shostakovskii, E. N. Prilezhaeva, and N. N. Orchinnikova. *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1956, 1099-1101. —Addn. of 0.2 g. P_2O_5 (or concd. HCl or H_2SO_4) to 37 g. Me_2COH and 60 g. $PhOCH:CH_2$ at 30° caused a temp. rise to 75–80°; treatment of the mixt. with K_2CO_3 and metallic Na after decline of the temp., and distn. yielded 27% *MeCH(OPh)OCMe*$_2$ (I), b_8 83–5°, d_{20} 0.9500, n_D^{20} 1.4790, 28% *MeCH(OCMe*$_2$*)*$_2$ (II), b_{11} 63–4°, d_{20} 0.8246, n_D^{20} 1.4051, and 25% *MeCH(OPh)*$_2$, b_8 144–6°, d_{20} 1.0805, n_D^{20} 1.5542. II hydrolyses rapidly in dil. H_2SO_4 and simple heating of I to 140–50° gives Me_2CO and PhOH. To 40 g. CH_2:CHCH$_2$ONa was added 78.3 g. PhOCHClMe (temp. rise to 62°), yielding after filtration and distn., 30% *MeCH(OCH*$_2$*CH:CH*$_2$*)Ph* (III), b_8 95–7°, d_{20} 0.9613, n_D^{20} 1.4908, 20% *MeCH(OCH*$_2$*CH:CH*$_2$*)*$_2$, b_{20} 147–9°, d_{20} 0.8482, n_D^{20} 1.4308, and 21% MeCH(OPh)$_2$; heating III, as above, gave 77% CH_2:CHCH$_2$OCH:CH$_2$. Similar reaction of $PhOCH:CH_2$ with EtCHMeOH gave 32–40% *MeCH(OPh)OCHMeEt*, b_8 87–90°, d_{20} 0.9552, n_D^{20} 1.4780, 27–35% *MeCH(OCHMeEt)*$_2$, b_{20} 73–4°, d_{20} 0.8231, n_D^{20} 1.4018, and 23–5% MeCH(OPh)$_2$. The thermal treatment of the unsym. acetals, as described above, gave 73.7% yields of the following new vinyl ethers: *EtMeCHOCH:CH*$_2$, b_{760} 91–1.5°, d_{20} 0.7720, n_D^{20} 1.3970; *CH*$_2$*:CHOCMe*$_2$, b_{760} 75–8.3°, d_{20} 0.7726, n_D^{20} 1.3978; *CH*$_2$*:CHOCH*$_2$*CH:CH*$_2$, b_{760} 66–6.7°, d_{20} 0.7900, n_D^{20} 1.4082. O. M. Kosolapoff

(3)

Indirect vinylation of monocarboxylic acids and hydroxy acids. M. F. Shostakovskiĭ, B. I. Mikhant'ev, and N. N. Orchinnikova. *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk*, 1953, 656–61.—Transesterification of vinyl ethers with acids yields vinyl esters in moderate recoveries. Thus, stirring 23.2 g. $AmCO_2H$, 100 g. $BuOCH:CH_2$, and 0.1 g. P_2O_5 led to a spontaneous reaction (temp. rise up to 165°) despite external cooling; after some 35–40 min. the mixt. was neutralized with K_2CO_3 and yielded 72.5 g. $BuOCH:CH_2$, some AcH, and 47% $AmCO_2CH:CH_2$, b. 168–70°, $n^{20}D$ 1.4160, d_4^{20} 0.8905; (hydrogenation gave the satd. analog); small amts. of $MeCH(OBu)_2$ were also recovered from the original reaction mixt., along with traces of $AmCO_2Bu$ and 28% $MeCH(OBu)O_2CAm$, b. 88–90°, $n^{20}D$ 1.4140. Similarly 18 g. $MeCH(OH)CO_2H$ and 100 g. $BuOCH:CH_2$ with 0.1 g. P_2O_5 gave 85.1% unreacted $BuOCH:CH_2$, 16% $MeCH(OH)CO_2CH:CH_2$, b. 161–3°, d_4^{20} 1.064, $n^{20}D$ 1.4088, 3.4 g. $MeCH(OBu)_2$, 13.4% $MeCH(OBu)O_2CCH(OH)Me$, b. 188–9°, $n^{20}D$ 1.4195, d_4^{20} 0.9083, $MeCH(OH)CH_2CO_2H$ (10.4 g.) and 50 g. $BuOCH:CH_2$ with 0.1 g. P_2O_5 gave 88% unreacted $BuOCH:CH_2$, 18% $MeCH(OH)CH_2CO_2CH:CH_2$, b. 170–3°, d_4^{20} 1.0713, $n^{20}D$ 1.4136, and 8.8 g. $MeCH(OBu)_2$. G. M. Kosolapoff

OVCHINNIKOVA, N. N.

USSR

Ionic condensation of vinyl ethers. M. F. Shostakovskii, B. L. Mikhailov, and N. N. Ovchinnikova. *Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.* 1950, [illegible] (Engl. translation).—See *C.A.* 48, 12009d. H. L. H.

Ovchinnikova, N. N.

V Iodic copolymerization of vinyl ethers. M. F. Shostakovskii, B. I. Mikhant'ev, and N. N. Ovchinnikova (Inst. Org. Chem. Acad. Sci. U.S.S.R., Moscow). *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1943, 731-8; cf. *C.A.* 48, 3213e.—To 72 g. EtOCH:CH_2 and 128 g. CH_2:CHO-C_6H_{13} was added at 35° 1-2 drops catalyst (5% $FeCl_3.6H_2O$ in BuOH); the reaction proceeded vigorously with heat evolution, and after 2 hrs., the mass was heated *in vacuo* to 100°, yielding a residue of 85% crude polymer. Extn. with EtOH and fractional pptn. with H_2O gave: polymer of EtOCH:CH_2, 2:1 copolymer of the Et and C_6H_{13} ethers, and a series of copolymers with reactant ratios ranging to 5:4. Similarly were isolated 1:1 copolymers of the following pairs (% yield, d_{20}, n_D, viscosity in centipoises of 0.1 *M* soln. in C_6H_6 at 20°, and solubilities given): EtOCH:CH_2—CH_2:CHOCHMe$_2$, 82, 0.9270, 1.4510, 0.7867, sol. in EtOH higher alcs., Et_2O, C_6H_6, Me_2CO; EtOCH:CH_2—CH_2:CHO-Bu, 84, 0.9245, 1.4530, 0.7343, soly. as above; EtOCH:-CH_2—CH_2:CHOAm-iso, 48, 0.9244, 1.4542, 0.6385, soly. as above; EtOCH:CH_2—CH_2:CHOC$_6$H$_{13}$, 43, 0.9233, 1.4558, 0.8054, soly. as above; iso-PrOCH:CH_2—CH_2:-CHOBu, 75, 0.9230, 1.4545, 0.7330, soly. as above but not sol. in EtOH; BuOCH:CH_2—CH_2:CHOC$_7$H$_{15}$, 79, 0.9260, 1.4590, 0.8652, soly. as above but not sol. in EtOH and PrOH; BuOCH:CH_2—CH_2:CHOC$_8$H$_{17}$, 76, 0.9243, 1.4620, 0.9595, soly. as above; iso-hexyl vinyl ether—CH_2:CHO-C_8H_{17}, 51, 0.9217, 1.4670, 0.8464, soly. as above but not sol. in alcs. below iso-AmOH; iso-AmOCH:CH_2—CH_2:-CHOC$_8$H$_{17}$, 50, 0.9198, 1.4622, 0.8311, soly. as above; C$_6$H$_{13}$OCH:CH_2—CH_2:CHOC$_8$H$_{17}$, 59, 0.9231, 1.4657, 0.8807, soly. as above but not sol. in alcs. below hexyl; BuOCH:CH_2—CH_2:CHOC$_9$H$_{19}$, 62, 0.9316, 1.4800, 0.8618, sol. in BuOH, Et_2O, and C_6H_6; BuOCH:CH_2—PhOCH:-CH_2, 49, 0.9620, 1.5070, 0.7312, soly. not shown.

O. M. Kosolapoff

OVCHI--IKOVA, N. N.

USSR.

Ionic polymerization of vinyl ethers. M. F. Shostakovskii, B. I. Mikhant'ev, and N. N. Ovchinnikova. Doklady Akad. Nauk S.S.S.R., Dir. Ch[redacted] (Engl. translation).—See C.A. 49, 2300g. H. L. H.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123

Ovchinnikova, N.N.

Ionic polymerization of vinyl ethers. M. F. Shostakovskii, B. L. Mikhant'ev, and N. N. Ovchinnikova. Inst. Org. Chem., Acad. Sci. U.S.S.R. [illegible] *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1953, 1056-60; cf. *C.A.* 48, 12068c.—*ROCH:CH*$_2$ were polymerized by treatment with a trace of 5% $FeCl_3.0H_2O$ in BuOH (vigorous reaction). The *polymers*, which were sol. in the usual org. solvents, had the following properties (% yield, d_{20}, n_D^{20}, and mol. wt., resp., given); (*R* shown): *Me*, 68, 0.9423, 1.4040, 2545; *Et*, 79, 0.9570, 1.4520, 5334; *Pr*, 90, 0.9308, 1.4523, 4850; *iso-Pr*, 61, 0.9268, 1.4520, 4580; *Bu*, 92, 0.9280, 1.4570, 4738; *iso-Bu*, 90, 0.9265, 1.4505, 4183; *iso-Am*, 80, 0.9117, 1.4007, 4048; C_6H_{13}, 89, 0.9120, 1.4632, 4003; *cyclohexyl*, 92, 0.9364, 1.4894, 1545; C_7H_{15}, —, 0.9132, 1.4051, 3699; C_8H_{17}, 89, 0.9230, 1.4607, 4262; *isooctyl*, 93, 0.9097, 1.4004, 3261; C_9H_{19}, 87, 0.9118 1.4670, 3799; $C_{18}H_{37}$, 80, 0.9282, 1.4682, 5458.

G. M. Kosolapoff

LFH

SHOSTAKOVSKIY, M.F.; MIKHANT'YEV, B.I.; OVCHINNIKOVA, N.N.; NETERMAN, V.A.

Synthesis of incomplete acylals of lactic acid. Zhur.ob.khim. [illegible]: 1167-1173 Jl '53. (MLRA [illegible])

1. Institut organicheskoy khimii Akademii Nauk SSSR.
(Lactic acid) (Ethers)

OVCHINNIKOVA, N.N.

U S S R

Indirect vinylation of monocarboxylic acids and hydroxy acids. M. F. Shostakovskii, B. I. Mikhant'ev, and N. N. Ovchinnikova. *Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.* 1953, 499-503(Engl. translation).—See *C.A.* 48, 9913*. H. L. H.

OVCHINNIKOVA, N.P.

Conditioned motor food reflexes to chains of stimuli in birds. Report No.2: Differentiation of three-membered chains of stimuli by birds. Vest. LGU 15 no.9:101-109 '60. (MIRA 13:4)
(CONDITIONED RESPONSE) (NERVOUS SYSTEM--BIRDS)

OVCHINNIKOVA, N.P.

Conditioned motor food reflexes to a chain of stimuli in birds. Report No.3: Analysis and synthesis of a three-membered chain of stimuli in birds. Vest LGU 15 no.15:96-106 '60. (MIRA 13:8)
(Birds--Physiology) (Conditioned response)

GANAGO, L.I.; OVCHINNIKOVA, N.P.

Application of the method without chipping to the analysis of basic open-hearth slags. Izv.vys.ucheb.zav.;khim.i khim.tekh. 5 no.3:364-366 '62. (MIRA 15:7)

1. Volgogradskiy mekhanicheskiy institut, kafedra khimii.
(Slag)

NOVIKOV, G.A.; MAL'CHEVSKIY, A.S.; OVCHINNIKOVA, N.P.; IVANOVA, N.S.

Birds of the "Les na Vorskle" [Forest on the Vorskla] and its surrounding area. Vop. ekol. i biotsen. no.8:9-118 '63. (MIRA 17:1)

OVCHINNIKOVA, V.A.

Biological significance [illegible] birds during [illegible]. Vest LGU 16 no.21:139-142 '61. (MIRA 14:11)

OVCHINNIKOVA, N.P.

Ontogeny of defensive and nutritive reactions in birds. Vest. LGU 20 no.15:67-70 '65. (MIRA 18:9)

OVCHINNIKOVA, N.P.

Behavior of the blackcap (Sylvia atricapilla Z.) during the nesting period. Vest. LGU 16 no.3:100-107 '61. (MIRA 14:2)
(Borisovka District--Warblers) (Birds--Behavior)

MAL'CHEVSKIY, A.S.; POKROVSKAYA, I.V.; OVCHINNIKOVA, N.P.; GERAKOVA, T.N.

Ecological features of the distribution of bird nests in forests.
Uch. zap. Len. un. no.181:77-101 '55. (MLRA 8:11)
(Birds--Eggs and nests)

USSR/Medicine - Neurophysiology FD-2381

Card 1/1 Pub. 154-12/18

Author : Ovchinnikova, N. P.

Title : Motor-food conditioned reflexes to a chain of stimuli in birds.

Periodical : Zhur. vys. nerv. deyat., 5, 96-103, Jan/Feb 1955

Abstract : Results of experiments on domesticated birds revealed that it is possible to develop motor-food conditioned reflexes to a positive trinomial chain of stimuli through the acoustic and optic analysors. In many instances development of a conditioned reflex is retarded because the conditioned reflex seems to be inhibitive at first due to strong initial reaction (a situation peculiar to birds). One table and two diagrams. Twelve Soviet references.

Institution: Laboratory of Comparative Physiology of Higher Nervous Activity, Institute of Physiology imeni I. P. Pavlov, Academy of Sciences USSR.

Submitted : June 3, 1954

OVCHINNIKOVA, O.

Physiology of memory. Nauka i zhizn' 23 no.9:22 S '56. (MLRA 9:10)
(MEMORY) (BRAIN)

DREVS, O.V., kandidat tekhnicheskikh nauk, dotsent; OVCHINNIKOVA, P.I., inzhener, redaktor; GEL'MAN, D.Ya, redaktor; LABUS, G.A., tekhnicheskiy redaktor

[Automatization in grain elevators and mills; principles, basic elements, diagrams] Avtomatizatsiia na elevatorakh i mel'nitsakh; printsipy, osnovnye elementy, skhemy. Moskva, Izd-vo Ministerstva sel'skogo khoziaistva i zagotovok SSSR, 1953. 221 p. [Microfilm] (MLRA 7:10)

1. Moskovskiy tekhnologicheskiy institut (for Dreva)
(Machinery, Automatic)
(Grain elevators--Equipment and supplies)
(Grain milling machinery)

ZAYKOV, M.A.; TSELUYKOV, V.S.; KAMINSKIY, D.M.; DADOCHKIN, N.V.; MESHCHERYAKOV, P.A.; MARININ, P.G.; MIRENSKIY, M.L.; PROKOP'YEV, A.V.; OVCHINNIKOVA, A.F.; Prinimali uchastiye; BELYAVSKIY, M.A.; KAFTANOV, M.P.; KUCHKO, I.I.; LAR'KINA, F.Ye.; MANCHEVSKIY, I.V.; MARAMYGIN, G.F.; MERKUTOV, V.N.; NASIBULIN, A.S.; NEFEDOV, M.K.; PERMYAKOV, V.M.; CHELYSHEV, N.A.; CHVANOV, L.K.

Investigating conditions of rolling on three-high billet mills. Izvy vys. ucheb. zav.; chern. met. 6 no.10:74-83 '63. (MIRA 16:12)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat.

MOHYGANOV, P.V.; MEL'NIKOV, B.N.; KUDRYAVTSEV, S.I.; OVCHINNIKOVA, R.S.

Indelible finishing coating for cotton fabrics, obtained with the aid of colloidal solutions of melamine formaldehyde resins. Izv.vys. ucheb.zav.; tekh.tekst.prom. no.2:91-96 '60. (MIRA 13:11)

1. Ivanovskiy khimiko-tekhnologicheskiy institut.
(Textile finishing) (Melamine)

L 45617-66 EWT(m)/T DJ
ACC NR: AT6016856 (N) SOURCE CODE: UR/3189/65/000/001/0127/0133

AUTHOR: Gaydamaka, V. F.; Ovchinnikova, S. A.

ORG: None

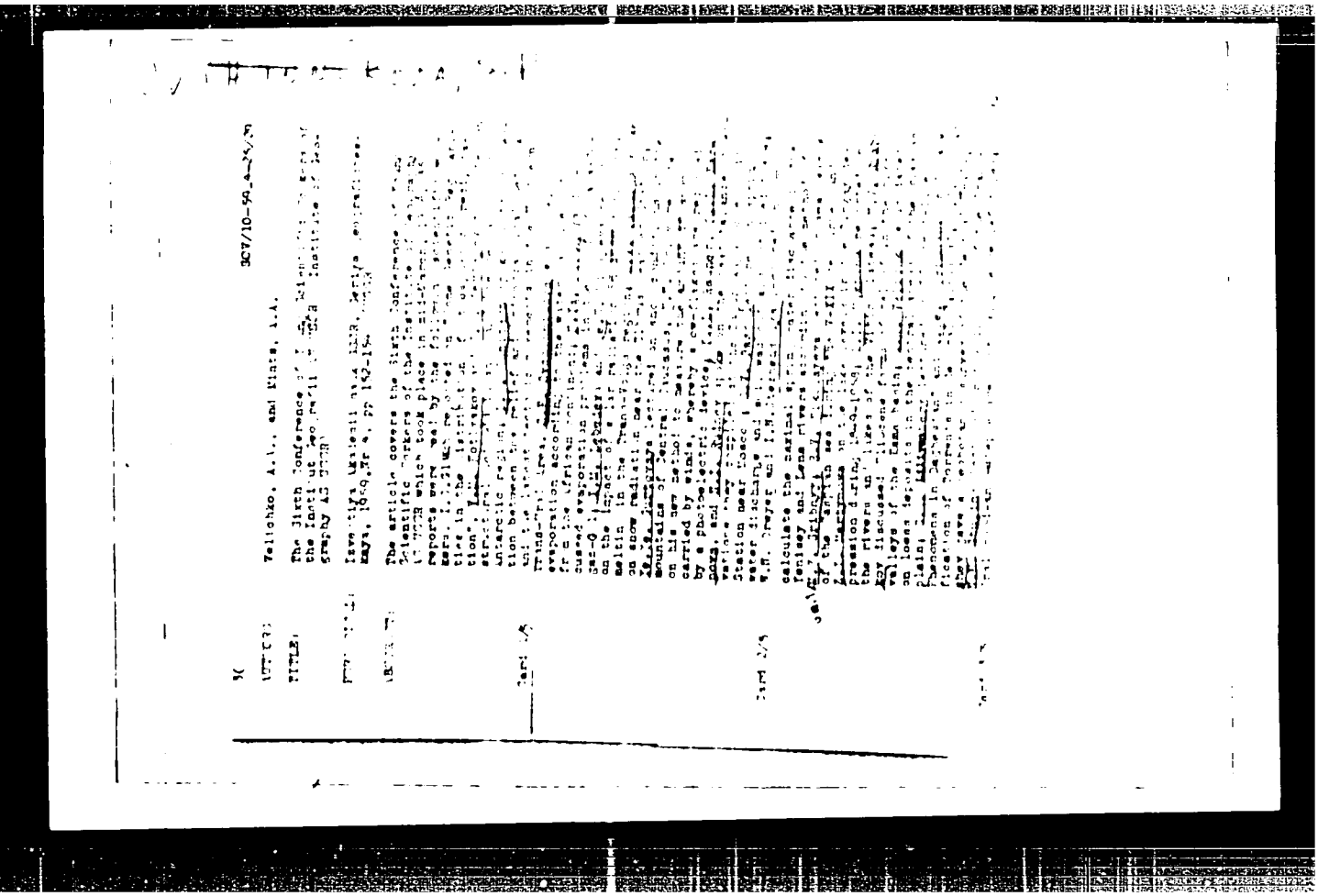
TITLE: Using hydraulic clutches in overhead crane trolleys

SOURCE: Kharkov. Politekhnicheskiy institut. Vestnik, no. 1(49), 1965. Mashinostroyeniye, no. 1, 127-133

TOPIC TAGS: clutch, hydraulic device, crane, electric motor

ABSTRACT: The authors study the use of hydraulic clutches in the sliding mechanisms of overhead cranes to simplify the problem of increasing working speeds, improve efficiency, supply continuous speed control and simplify automatic and remote control mechanisms. An experimental bridge crane was constructed at the Khar'kov Polytechnical Institute together with the Khar'kov Hauling and Hoisting Equipment Plant with a three-ton load capacity using an electric squirrel cage motor and hydraulic clutch. A diagram is given showing the experimental version of the hydraulic clutch consisting of a vaned impeller and vaned runner in a casing. The impeller and runner are connected by a series of vanes about the periphery. This forms a closed circuit with respect to the fluid accelerated by the impeller and acting on the runner. One of the well known advantages of the hydraulic torque converter is its inability to transmit

Card 1/2



YAVORSKIY, V.I.; KULIKOV, M.V., redaktor; GUROVA, O.A., tekhnicheskiy redaktor; OVCHINNIKOVA, S.V., redaktor.

[Stromatoporoidea of the Soviet Union] Stromatoporoidea Sovetskogo Soiuza. Part 1. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr, 1955. 172p. (Leningrad. Vsesoiuznyi geologicheskii institut. Trudy, vol.8)
- - [Plates depicting Stromatoporoidea of the Soviet Union] Tablitsy izobrazheniĭ Stromatoporoidea Sovetkogo Soiuza. Supplement to Part 1. 89 plates. (MLRA 9:10)

(Stromatoporoidea)

KALENOV, Ye.N., red.; OVCHINNIKOVA, S.V., ved. red.; VORONOVA, V.V., tekhn. red.

[New methods of electric prospecting for oil and gas] Novye metody elektricheskoi razvedki na neft' i gaz. Moskva, Gostoptekhizdat, 1963. 134 p. (MIRA 17:2)

SPASSKOVA, A.I.; OVCHINNIKOVA, T.A.

Reduction of cis-1,4-polybutadiene ozonide by lithium aluminum hydride.
Vest. LGU 20 no.10:146-149 '65. (MIRA 18:7)

L 04419-67

ACC NR: AP6034269 3

when the field is directed along the a axis, which is the antiferromagnetism axis at these temperatures. The magnetostriction deformation produced along the c axis was also measured with the field applied along the a axis of the crystal in the temperature interval from 90 to 114K. The sign of the magnetostriction was different for fields applied along the c and a axes of the crystal, and the magnetosctriction decreased at temperatures above 100K. The results are connected with the fact that the threshold fields increase noticeably with increasing departure from the reorientation temperature, and exceed the fields in which the measurements were made. The relatively low threshold fields (~10 kOe) in the temperature interval ~70 - 100K are connected with the fact that the spontaneous magnetic moment can be readily rotated by the field from the c axis to the a axis of the crystal, owing to the low values of the anisotropy constant. When a magnetic field is applied along the b axis of the crystal, no magnetostriction is observed in the entire investigated temperature range, since the b axis is perpendicualr to the plane containing the antiferromagnetism vector, and consequently the field cannot cause flipping of the iron sublattices and lead to magnetostriction deformation in the crystal. It is noted that it is easy to determine the threshold field from the magnetostriction vs. field curves. This is particularly important for thulium orthoferrite, where it is impossible to determine the threshold field from the jump in the magnetization curves during the instant of flipping of the antiferromagnetic sublattices. The authors thank V. A. Timofeyeva for supplying the single-crystal thulium orthoferrite. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 02Jul66/ ORIG REF: 002/ OTH REF: 007

awm

Card 2/2

AVR[illegible]V, V.Ya.; PLINNIK[illegible], I.A.; BROD, I.O.[deceased]; [illegible]YA[illegible], [illegible]; VASIL'YEV, V.G.; D[illegible]YE[illegible], Ye.Ya.; [illegible]ELIN, [illegible]; YE[illegible], N.S.; ZUBOV, I.[illegible]; KALININ, N.A.; K[illegible]YASHOVA, N.F.; MA[illegible], S.F.; L'VOV, M.S.; MI[illegible]CHINK, M.F.; O[illegible]CHE[illegible]IKOVA, I.[illegible]; SI[illegible]AKOV, S.N.; T[illegible]K, A.A.; T[illegible]OSTOV, B.A.; FEDOTOVA, M.[illegible], ved. red.

[Predicting gas potential of the [illegible]] [illegible] SSS[illegible]. Leningrad, Gostoptekhizdat, [illegible]. [illegible] p.
([illegible] A [illegible])

BELOV, K.P.; [illegible]; OVCHINNIKOVA, T.L.

Electri[illegible] with a garnet structure.
Fiz. tver. [illegible]

(MIRA [illegible])

1. Mosk[illegible] imeni Lomonosova.

BELOV, K.P.; ZAYTSEVA, M.A.; KADOMTSEVA, A.M.; KVITKA, S.S.; [illegible] T.L.

Magnetic properties and structure of some garnet systems. Kristallografiia 7 no.2:242-246 Mr-Ap '62. (MIRA 15:4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova. (Garnet--Magnetic properties) (Crystallography)

L 62118-65 EWT(l)/EWT(m)/EWP(w)/EAA(d)/T/EWP(t)/EED-2/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5011505 UR/0188/65/000/002/0092/0094 39
538.145

AUTHORS: Belov, K. P.; Kadomtseva, A. M.; Ovchinnikova, T. L. 15

TITLE: Electric properties of certain orthoferrites of rare earth elements 18 27

SOURCE: Moscow. Universitet. Vestnik. Seriya 3, Fizika, astronomiya, no. 2, 1965, 92-94

TOPIC TAGS: rare earth element, orthoferrite, electric resistivity, temperature variation 20 21

ABSTRACT: The authors investigated the temperature dependences of the electric resistivity of polycrystalline samples of orthoferrites of La, Pr, Nd, and Yb, and of several compositions in which part of the iron ions were replaced by other trivalent ions, and also single crystal $YbFeO_3$. The polycrystals were prepared by ordinary ceramic technology, and the single crystal by the method of spontaneous crystallization from solution. The resistivity was measured in vacuum

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ACCESSION NR: AP5011505

with direct current. The magnetic properties of the orthoferrites of rare earth elements were investigated by the authors earlier (ZhETF v. 37, 1160, 1959; Izv. AN SSSR ser. fiz. No. 11, 1389, 1961). Although most orthoferrites showed a nearly linear variation of log ρ (ρ -- resistivity against 1/T, some samples ($NdFeO_3$, $YbFeO_3$, $LaAl_{0.2}Fe_{0.8}O_3$) showed maxima and kinks on the curves. A brief analysis shows that these anomalies are not due to magnetic transformation but to changes in the carrier mobility, although further experimental data are necessary for a reliable interpretation of the results. 'The authors thank M. A. Zaytseva for obtaining the polycrystalline samples and for a discussion of the measurement results.' Original article has: 3 figures

ASSOCIATION: Kafedra obshchey fiziki dlya biologov Moskovskogo gosudarstvennogo universiteta (Department of General Physics for Biologists, Moscow State University)

SUBMITTED: 25Jun64 ENCL: 00 SUB CODE: EM, SS

NR REF SOV: 006 OTHER: 003

Card 2/2

L 10174-66 EWT(d)/EWT(l)/EWT(m)/EPF(n)-2/EWP(t)/EWP(b) LJP(c) JD/WW/JG
ACC NR: AP5026400 SOURCE CODE: UR/0386/65/002/006/0253/0256

AUTHOR: Belov, K. P.; Kadomtseva, A. M.; Ledneva, T. M.; Ovchinnikova, T. L.; Timofeyeva, V. A.

ORG: Physics Faculty of the Moscow State University im. M. Lomonosov (Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta)

TITLE: Features of the temperature dependence of the magnetization of thulium orthoferrite

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 6, 253-256

TOPIC TAGS: thulium compound, temperature dependence, magnetization, magnetic moment

ABSTRACT: The authors observed an anomalous temperature dependence in the magnetization of thulium orthoferrite. When the temperature was reduced to 90K the magnetic moment was reoriented from the c axis to the a axis of the crystal. Below 90K, the spontaneous magnetic moment of the single-crystal thulium orthoferrite remained rigidly oriented along the a axis of the rhombic crystal. By plotting the rotary moments in the (001) plane of the single-crystal thulium orthoferrite at temperatures 78 to 4.2K, the authors obtain, from the rotary moment $\varphi = 90°$, the values of the magnetization at different temperatures. The temperature dependence thus obtained for the magnetization is shown in Fig. 1. At 92K the spontaneous magnetization along the a axis is zero for at this temperature the magnetic moment is still oriented along the c axis of the crystal. After a slight decrease in the temperature (~2°),

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ACC NR: AP5026400

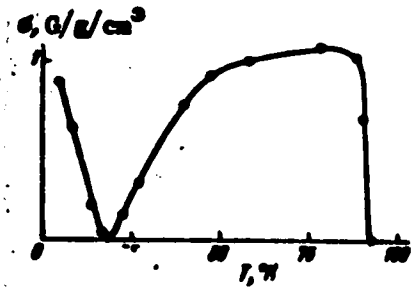

Fig. 1. Temperature dependence of the spontaneous magnetization of single-crystal thulium orthoferrite along the a axis.

the magnetization along the a axis increases rapidly, reaching a value 1 G/g/cm³, owing to the reorientation of the magnetic moment from the c axis to the a axis. With further drop in temperature, the magnetization decreases smoothly, vanishing at 18K. Below 18K, the spontaneous magnetization along the a axis again begins to increase. The vanishing of the spontaneous magnetization is obviously the result of compensation of the magnetic moments of the iron and thulium ions, which should be observed if the exchange interaction between these ions is negative. An analogous phenomenon was apparently observed by the authors earlier for samarium orthoferrite at 4.2K (FMM v. 19, 778, 1965), but it was difficult to present an unambiguous explanation of the phenomenon observed there, since no measurements were made below the compensation point. It follows from the measurements that the magnetic-compensation points observed for the majority of rare-earth ferrites with garnet structure are also possessed by some orthoferrites of rare-earth elements. Orig. art. has: 2 figures and 1 formula.

SUB CODE: 20/ SUBM DATE: 08Jul65/ ORIG REF: 002/ OTH REF: 002

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L 38536-65 EED-2/EWT(l)/EWT(m)/EWP(b)/T/EWA(d)/EWP(w)/EWP(t) IJP(c) JD/JG

ACCESSION NR: AP5005286 S/0181/65/007/002/0477/0479

AUTHOR: Belov, K. P.; Zaytseva, M. A.; Kadomtseva, A. M.; Ovchinnikova, T. L. 26 24 13

TITLE: On the electric properties of yttrium ferrites with garnet structure

SOURCE: Fizika tverdogo tela, v. 7, no. 2, 1965, 477-479

TOPIC TAGS: yttrium iron garnet, ferrite, temperature dependence, electric resistivity, resistivity anomaly

ABSTRACT: The authors measured the temperature dependence of the electric resistivity of samples of the following composition: $Y_3Fe_5O_{12}$, $Y_{2.5}Mn_{0.5}Fe_{4.5}Ge_{0.5}O_{12}$, $Y_{2.5}MnFe_{4.0}GeO_{12}$, $Y_{2.5}Mn_{0.5}Fe_{4.5}Ti_{0.5}O_{12}$, and $Y_{2.0}MnFe_{4.0}TiO_{12}$. The samples were prepared under the same conditions as in an earlier investigation (Kristallografiya v. 7, 242, 1962). The resistivity measurements were made in vacuum using direct current, at temperatures from room to 600K. The results show that the substitution of the Fe^{3+} ion by the tetravalent ions Ge^{4+} and Ti^{4+}, which occupy different crystallographic places in the iron-garnet structure, leads to a decrease in the electric resistivity (by several orders of magnitude compared with the pure

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iron-garnet). The observed decrease in the electric resistivity is due to the appearance of Fe^{2+} ions, located in both cases in octahedral sites. The temperature dependence of the electric resistivity displays kinks in the region of the Curie temperature. These anomalies are similar to those observed for ferrites with spinel structure. "The authors thank Yu. P. Irkhin for valuable advice and a discussion of the results." Orig. art. has: 2 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 23Jul64 ENCL: 00 SUB CODE: EC, EM

NR REF SOV: 004 OTHER: 003

OVCHINNIKOVA, T.M.; ROTINYAN, A.L.

Measurement of acidity in the cathodic layer by the glass electrode method. Zhur.fiz.khim. 37 no.2:443-444 F '63. (MIRA 16:5)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Hydrogen-ion concentration) (Nickel chloride)
(Electrodes glass)

OVCHINNIKOVA, T.M.; PLEKHOV, I.M.; ROTINYAN, A.L.

Oscillographic measurement of the pH value in a cathode layer.
Zhur.prikl.khim. 36 no.6:1350-1352 Je '63. (MIRA 16:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Hydrogen-ion concentration) (Electrodes) (Oscillography)

ROTINYAN, Aleksandr Leonovich, doktor tekhn. nauk; OVCHINNIKOVA, Tamara Mikhaylovna, inzh.; KHEYFETS, V.L., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Measuring acidity in the cathode layer during the electrolysis of aqueous solutions] Izmerenie kislotnosti v prikatodnom sloe pri elektrolize vodnykh rastvorov. Leningrad, 1962. 18 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Zashchitnye pokrytiia, no.7) (MIRA 16:3)

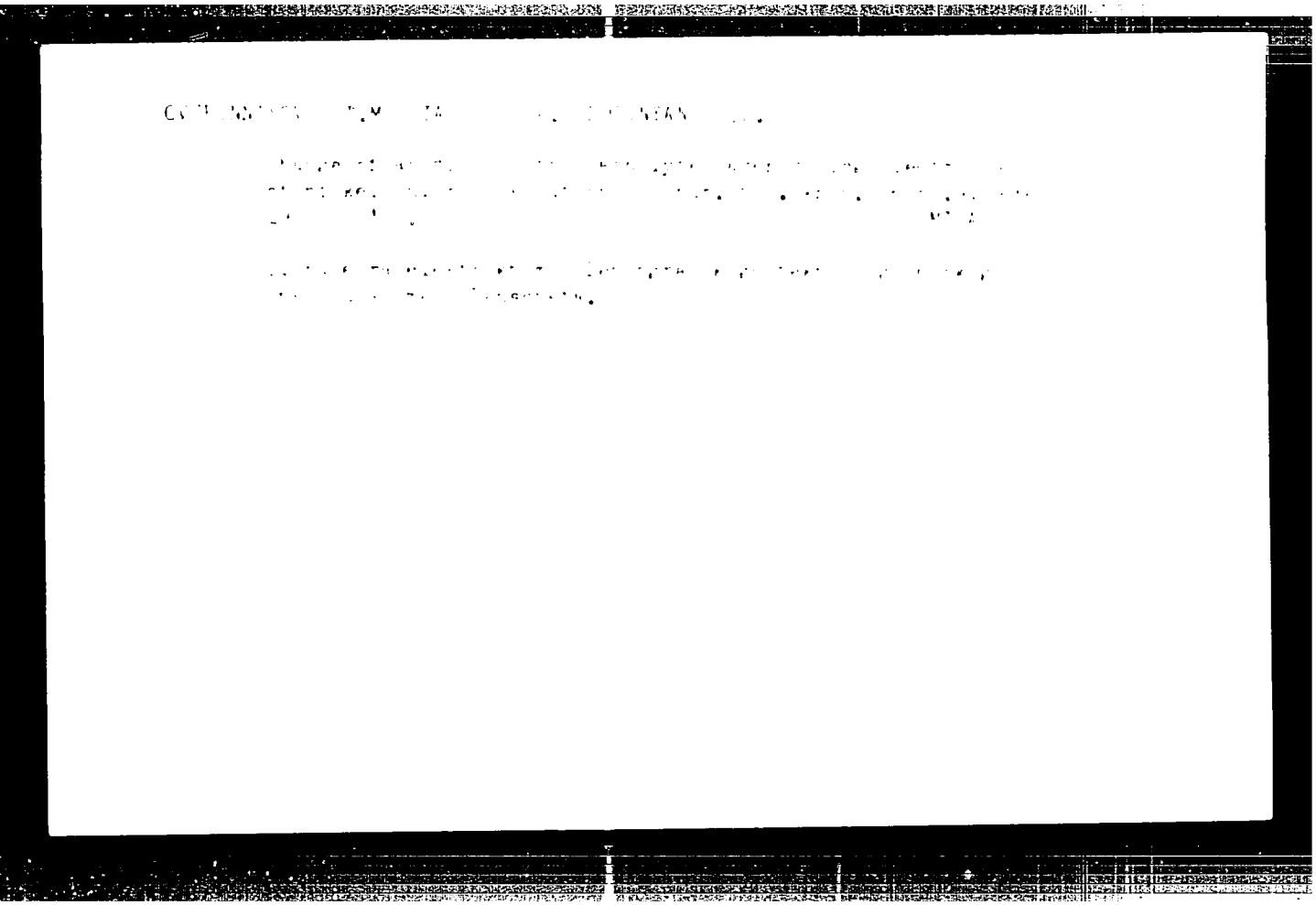
(Electrolysis) (Hydrogen-ion concentration)

OVCHINNIKOVA T. M.

CH
MG

Acidity in the Near-Cathodic Layer in the Electrolysis of Aqueous Solutions. V. I. Kheifets, A. L. Rotinyan, and T. M. Ovchinnikova (*Zhur. Prikhd. Khim.*, 1955, 28, (5), 480–[illegible]). Kh., R., and O. discuss the formation of acid or alkaline layers of electrolyte at the cathode during electrolysis. A glass micro-electrode was used to measure the *p*H at the cathode surface (pH_c) in various soln. over ranges of c.d. at 20° C. In 0·35 *M*-Na_2SO_4 at 0·5–2·0 amp./dm.^{2}, there was a large increase in alkalinity at the cathode with pH_c = 11 (cf. 7 in the main soln.). In 0·05 *M*-H_2SO_4, the increase was from *p*H 2 to pH_c = 3·2, 5·4, 6·8 at 2, 6, and 10 amp./dm.^{2}, resp. In 1·0 *M*-$NiSO_4$ + H_2SO_4 at *p*H 2, pH_c = 5·4, 6·0, and 6·4 at 1, 2, and 4 amp./dm.^{2}, resp., i.e. it did not rise above the value for the beginning of the formation of difficultly soluble compounds. In a Ni-plating bath contg. $NiSO_4$ 0·87 *M*, NaCl 0·03 *M*, Na_2SO_4 0·28 *M*, and H_3BO_3 0·32 *M*, of *p*H = 3, pH_c = 4·7 at 2·4 amp./dm.^{2}, i.e. the degree of alkalinity was reduced by reason of the lower *p*H of formation of solid phases. With this soln. it was also found that increasing the *p*H or temp. of the main soln. reduced the alkalinity of the layer relative to that of the main soln. An alkaline layer was not observed with an agitated soln. at 60° C.—O. V. E. T.

(2)



ROTINYAN, A.L.; [illegible]; SIMONOVA, M.V.; [illegible]

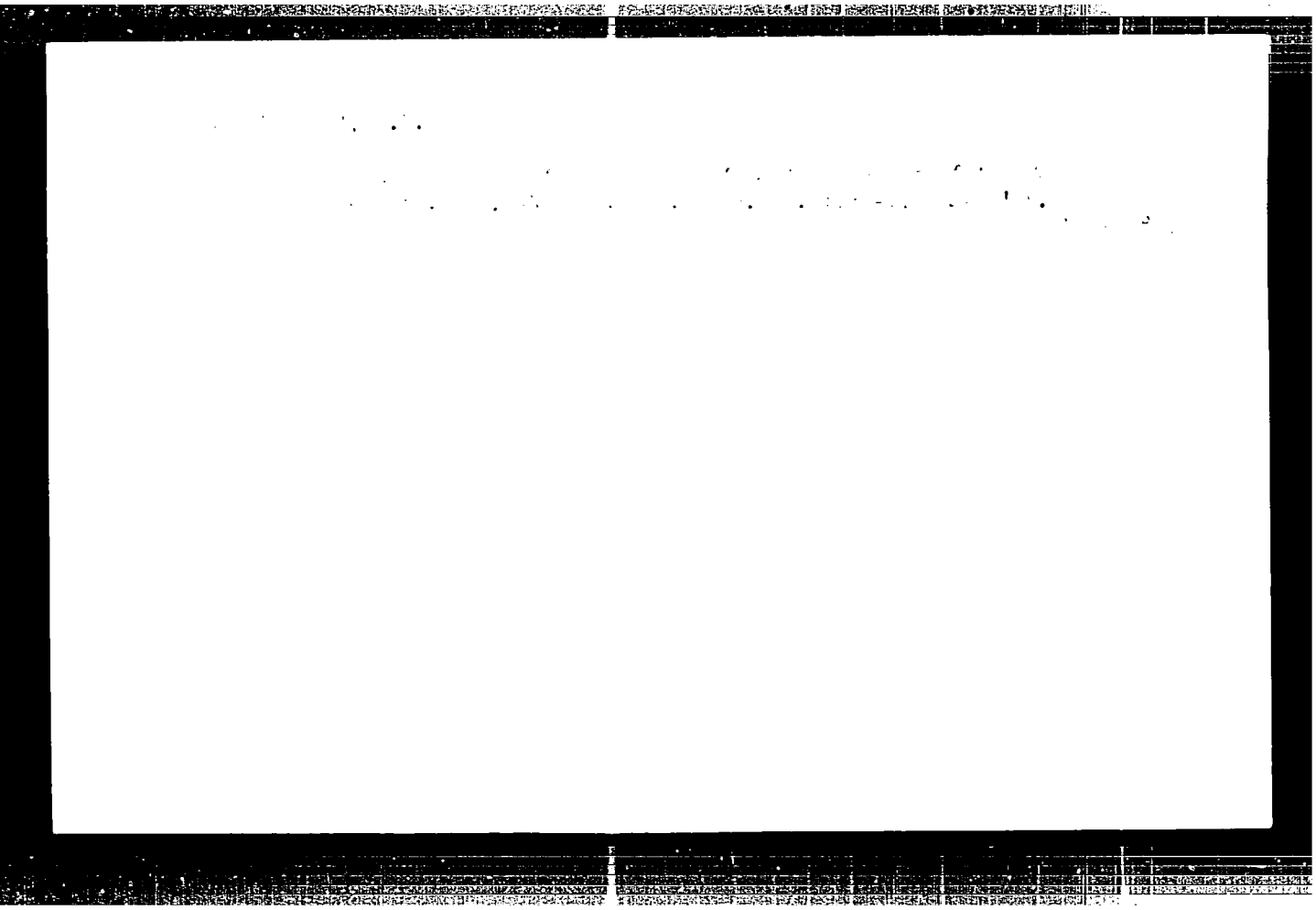
Dependence of the degree of alkalization of the cathode electrolyte layer on the current density. Zhur. fiz. khim. [illegible]
2966 [illegible].

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

KOZLOV, Petr Kuz'mich. (1863-1935); Prin. uchastiye:GORBACHEVA,Z.I.; GUMILEV, L.N., red.; [illegible] V, V.P., red.; KOZLOVA-PUSHKAREVA, Ye.V., red.; MURZAYEV, E.M., red.; OVCHINNIKOVA, T.N., red.; SINITSYN, V.M., red.; YUNATOV, A.A., red.; SPRYGINA, L.I., red.izd-va; VOLKOVA, V.V., tekhn. red.

[A Russian traveller in Central Asia] Russkii puteshestvennik v TSentral'noi Azii; izbrannye trudy (k stoletiiu so dnia rozhdeniia, 1863-1963). Moskva, Izd-vo AN SSSR, 1963. 522 p. (MIRA 16:10)

(Kozlov, Petr Kuz'mich, 1863-1935)
(Asia, Central--Discovery and exploration)



OVCHIN[illegible]VA, [illegible]

V[illegible] Iv[illegible] [illegible]orovskii; [illegible] the [illegible]th anniversary [illegible]
[illegible] Zem. [illegible] 12-15 '61. [illegible]
(Roborovskii, Vsevolod Ivanovich, 1856-1910)

OVCHINNIKOVA, T.N.

P.K.Kozlov; on the 100th anniversary of his birth. Izv. AN SSSR. Ser. geog. no.5:86-90 S-O '61. (MIRA 14:10)

OVCHINNIKOVA, T.N.

Academic session in memory of N.M.Przeval'skii; 1839-1888.
Izv. AN SSSR Ser. geog. no.6:150-152 N-D '64 (MIRA 18:1)

OVCHINNIKOVA, Taisiya Nikolayevna; MUKAYEV, E.N., prof., otv. red.

[P.K.Kozlov, explorer of Central Asia] Kozlov - issledovatel' TSentral'noi Azii. Moskva, Nauka, 1964. 197 p. (MIRA 18:3)

MAYOROVA, E.A.; OVCHINNIKOVA, T.V.

Two-stage method of cementing polyamides with metals.
Plast. massy no.11: 1-4 '65. (MIA 18:12)

L 21646-66 EWT(d)/EWT(m)/EWP(v)/EWP(j) T/EWP(l) RM/WW
ACC NR: AP6006548 (A) SOURCE CODE: UR/0191/65/000/011/0061/0064

50
B

AUTHORS: Mayorova, E. A.; Ovchinnikova, T. V.

ORG: none

TITLE: A two-stage method for gluing polyamides to metals

SOURCE: Plasticheskiye massy, no. 11, 1965, 61-64

TOPIC TAGS: polyamide, glue, shear strength, resin, teflon, adhesion, cast iron, epoxy plastic, glass textolite

ABSTRACT: The use of solutions of polyamides in solvents containing alcohol and water for gluing polyamides is discussed. These solutions show a higher adhesion to polyamides than cements based on epoxy resins. Methods for preparing the metal surfaces are discussed. In the experiment, the following cements were used as the base layer: BF-2, FL-4, F7-T, F-9, RAF-15, FRAM-30, FU-2, phenol-polyamides PFE-2/10, PFE-2, 548, BPF-1, polyamide S-6 with formic acid, epoxy resin 89, and low-molecular polyamides. The metal surfaces were etched to a smoothness of ~2. The test results were compared with the shearing-strength indices of cemented cast iron-textolite and cast iron-capron joints. The cemented specimens were also tested

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after up to 200 days in a 5% oil emulsion, in mineral oil, and in a humidity chamber at 95 ± 5% relative humidity and a temperature of 50 ± 5C (see Fig. 1).

Fig. 1. Strength of cemented iron-capron joints with base layer of FL-4 as a function of medium: 1 - industrial oil 45 at 20C; 2 - ditto, at 50C; 3 - humidity chamber (φ = 95 ± 5% at 50 ± 5C); 4 - oil emulsion at 20C.

The strength of iron-to-polyamide joints and the adhesion of epoxy resin to polyamides can be increased when the surface of the polyamide is precovered with FL-4 cement. Orig. art. has: 1 figure, 1 graph, and 1 table.

SUB CODE: 11,13 SUBM DATE: none/ ORIG REF: 006/ OTH REF: 001

Card 2/2 gc

YEROKHINA, L.S.; OVCHINNIKOVA, V.F.; SHURINOVA, M.N.; FAKHRETDINOVA, S.Kh.; LAVOCHKIN, M.P., otv. red.; DUDOROVA, L., red.; KUZNETSOVA, A., tekhn. red.

[Streets of Greater Moscow; a guide. As of February 10, 1961. Ulitsy Bol'shoi Moskvy; spravochnik. Po sostoianiiu na 10 fevralia 1961 g. Moskva, Mosk. rabochii, 1961. 551 p. (MIRA 14:6)

1. Moskovskaya gorodskaya spravochno-informatsionnaya kontora "Mosgorspravka," Moscow.
(Moscow--Streets)

[redacted], Valentina Ivanovna

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Dissertation for candidate of [redacted] degree. [redacted]
Diseases ([redacted], Prof. A.F. [redacted]), [redacted]