"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

SHIKIYENKO, V. V.

Bukovina - [illegible]

[illegible]

Monthly List of [illegible]

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

MINAKOV, Ivan Fedorovich; ONIKIYENKO, Vladimir Vasil'yevich [Onykiienko, V.V.]; ONISHCHENKO, P.D., otv. za vypusk; MIRONOVA, Ye.V. [Myronova, IE.V.], red.; MUZICHKO, G.I. [Muzychko, H.I.], tekhred.

[Chernovtsy Province; economic and geographical outline] Chernivets'ka oblast'; ekonomiko-geografichnyi narys'. [Manual for geography teachers] Posibnyk dlia vchyteliv geografii. Chernivtsi, obl.vyd-vo, 1958. 101 p. (MIRA 12:9)
(Chernovtsy Province--Economic conditions)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

KOROBKO, I.M., inzh.; FEDOROVSKIY, N.V., inzh.; PLESKACH, V.I., inzh.; ONIKMENKO, A.M., inzh.

Regulating and measuring vacuum in a sinter strip. Met. i gornorud. prom. no.4:60-64 Jl-Ag '63. (MIRA 16:11)

1. Institut avtomatiki Gosplana UkrSSR.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKO, B.I., slesar'

Portable clamp pipe-bender. Mov. tekh. mont. i spets. rab. v stroi. 21:1 of cover Ja '59. (MIRA 12:8)

1. Moskovskaya sanitarno-tekhnicheskaya masterskaya TSentral'nogo sanitarno-tekhnicheskogo montazhnogo tresta.
(Pipe bending)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

OVIKOV, E.A.; BOLOTINA, Z.F.

Manufacture of staple fabrics for suits. Tekst.prom. 16 no.5: 53-55 My '56. (MLRA 9:8)

(Textile fabrics)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKOV, E. A

Influence of the sizing stretch of the warp threa.. on work on synthetic-fiber fabrics. p. 432.

MAGYAR TEXTILTECHNIKA. (T xtilipari Muszaki es Tudomanyos Egyesulet) Budapest, Hungary, Vol. 10, no. 11/12, Dec. 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKOV, E.A., inzh.

Effect of stretch in warp yarns during sizing on the shrinkage of staple fabrics. Tekst.prom. 18 no.4:26-28 Ap '58. (MIRA 11:4)
(Sizing (Textile))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKOV, E.A.

Tensiometer for the investigation of tension devices for a fast-moving yarn. Izv.vys.uchab.zav.; tekh.tekst.prom. no.6: 72-85 '59. (MIRA 13:4)

1. Moskovskiy tekstil'nyy institut.
(Tensiometer) (Spinning machinery)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKOV, E.A., inzh.

Some causes of breakage of the warp thread during high speed warping. Tekst. prom. 19 no.7:52-54 Jl '59.
(MIRA 12:11)

(Warping machines)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKOV, E.A.

Investigating the tensions of a fast moving yarn. Izv.vys. ucheb.zav.; tekh.tekst.prom. no.1:97-104 '60. (MIRA 13:6)

1. Moskovskiy tekstil'nyy institut.
(Textile machinery)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKOV, E. A. Cand Tech Sci -- "Study of tighteners for fast-moving cotton threads." Len 1961 (Min of Higher and Secondary Specialized Education RSFSR Len Textile Inst im S. M. Kirov). (KL, 4-61, 199)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKOV, Eduard Arshakovich; BERKOVICH, N.Yu., retsenzent;
CHUGREYEVA, V.N., red.; PYATNITSKIY, V.N., tekhn.red.

[Tensors, control and clearing mechanisms for simple twist threads] Natiazhnye i kontrol'no-ochistitel'nye ustroistva odinochnykh nitei. Moskva, Gizlegprom, 1963. 100 p.
(MIRA 17:3)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKOV, E.A., starshiy nauchnyy sotrudnik; SAUKOVA, L.A., mladshiy nauchnyy sotrudnik; GORBUNOVA, Ye.O., mladshiy nauchnyy sotrudnik

Geometric method of analysis and construction of linen weave fabrics. Tekst.prom. 24 n.1:50-55 Ja '64. (MIRA 17:3

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanicheskoy bumazhnoy promyshlennosti.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

BERKOVICH, Nikolay Yul'yevich; [illegible], [illegible] kand. tekhn. nauk, retsenzent; [illegible], [illegible], red.

[Ways for reducing breakages in [illegible] weaving. Puti snizhenia obryvnosti v [illegible]. [illegible], Legkaia industriia, 1965. 221 p. (MIRA 18:[illegible])

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKOV, E.A., starshiy nauchnyy sotrudnik, kand.tekhn.nauk

Widespread error made in the measurement of yarn [illegible] looms. Tekst.prom. 25 no.11:30-31 N '65.

(MIRA 18:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut [illegible] mazhnoy promyshlennosti.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

SREDIN, V.[illegible], inzh. (Leningrad); [illegible], V.[illegible], inzh. ([illegible]
G.A., inzh. (Leningrad); [illegible], P.A., inzh. ([illegible]

Unit for rendering harmless the sulfur-alkali discharge [illegible] refineries. Vod. i san. tekh. no.1:27-30 Ja '65.

[illegible]

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ZAKHAR'YEVSKAYA, I.D.; OMIKOV, L.I.; MARKOV, N.F.

Yarn vat dyeing with PKM apparatuses. Tekst.prom. 15 no.6
29-31 Je '55. (MLRA 8:7)
(Dyes and dying--Apparatus)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

AVETISYAN, I.S.; POSPELOVA, K.A.; ONIKUL, K.E.; ZUBOV, P.I.;
Prinimala uchastiye DREZEL'S, S.S.

Obtaining the copolymer of vinyl acetate with butyl acrylate for emulsion paints. Lakokras.mat. i ikh prim. no.2:13-15 '64.
(MIRA 17:4)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

BERLYAND, M.Ye.; GENIKHOVICH, Ye.L.; ONIKUL, R.I.

Determining the atmospheric pollution by fumes from chimneys of electric stations. Trudy GGO no.158:122-127 '64. MIRA

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

BERLYAND, M.Ye.; GENIKHOVICH, Ye.L.; LOZHKINA, V.P.; ONIKUL, R.I.

Numerical study of atmospheric diffusion under normal and anomalous conditions of stratification. Trudy GGO no.158:22-31 '64.

Characterist ... sion of heavy pollutants in the atmosphere. Ibid.:32-40 (MIRA 17:9)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKUL, R.I.

Frosts in Sakhalin. Trudy Dal'nevost.NIGMI no.6:44-58 '58.
(MIRA 12:1)

(Sakhalin--Frost)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

GANDIN, L.S.; PYATYGINA,K.V.; ONIKUL, R.I.; TITOV, V.M.; SHAFRAN, Z.M.

Diurnal march of temperature in the lower atmospheric layers.
Trudy GGO no.76:3-29 '58. (MIRA 11:11)
(Atmospheric temperature)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

S/044/62/000/009/038/069
A060/A000

AUTHOR: Onikul, R. I.

TITLE: On solving the problem of heat- and humidity-exchange in the lower layers of the atmosphere by the method of grids

PERIODICAL: Referativnyy zhurnal, Matematika, no. 9, 1962, 23, abstract 9V116 (In collection: "Materialy Soveshchaniya Koordinats. komis. po chisl. metodam prognoza". Leningrad, Gidrometeoizdat, 1961, 113 - 121)

TEXT: The paper describes the method of numerical solution of the one-dimensional equation of heat conduction with respect to the variables t and z for media with varying coefficient of thermal conductivity (atmosphere and the bedding medium). In conformance with the variation of the coefficient of thermal conductivity with the z coordinate, the three-layer problem is considered. The appropriate boundary conditions are given on the upper and lower boundaries of each of the media. The solution is sought at the grid points in the plane of the variables t and z. Within the limits of an elementary segment (the grid in-

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

S/044/62/000/009/038/069
A060/A000

On solving the problem of heat- and...

terval) of the variable z the coefficient of thermal conductivity is approximated by a linear function of z. Computational formulae are given, such as were used on the machine "Ural", to carry out computations for the solution of heat-exchange problems in the atmosphere and in the bedding medium. In order to establish the size of the approximation errors, the same formulae were used to compute the temperature distribution also for the case when the coefficients of thermal conductivity are constant in all three media. The results of the calculations for this case are compared with calculations according to the formulae of the exact solution of the problem.

S. L. Belousov

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKUL, R. I.

Formation of the Irkutsk fogs. Trudy GGI no.127:69-81 '6[illegible]. (MIRA 15:7)

(Irkutsk--Fog)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

S/531/62/000/127/007/007
I053/I253

AUTHOR: Onikul, R.I.

TITLE: The reducibility of numeric solution of the equation of heat conductivity

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 127. 1962. Fizika prizemnogo sloya vozdukha, 127-133

TEXT: In order to decrease the errors in the investigation of the heat exchange in the boundary layer of the atmosphere, the numeric solution of the equation of thermal conductivity for a semi-limited medium under initial homogeneous conditions can be reduced to an analytical one, irrespective of the value of intervals t and z. A graph showing the rate of change with respect to time of the relative error of a numeric solution is plotted for a two-layer ground-air problem with the night-time decrease of temperature. There is 1 figure and 2 tables.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

L 18374-63 EWT(1)/EDS AFFTC/ASD/ESD-3 RB

ACCESSION NR: AP3005875 S/0050/63/000/008/0003/0010 59 58

AUTHOR: Berlyand, M. Ye.; Onikul, R. I.; Genikhovich, Ye. L.; Lozhkina, V. P.

TITLE: Contamination of the atmosphere by industrial wastes under anomalous stratification conditions

SOURCE: Meteorologiya i gidrologiya, no. 8, 1963, 3-10

TOPIC TAGS: aerosol, aerosol diffusion, atmospheric inversion, atmospheric contamination, temperature exchange coefficient

ABSTRACT: The diffusion of light and heavy aerosols has been investigated for the complex case of an anomalously stratified atmosphere above the level of the source and for certain related cases. The inversion layer is characterized by weak vertical exchange; the exchange coefficient k_2 decreases sharply in the intercepting layer and increases farther aloft; in normal stratification k_2 increases to the top of the surface layer and remains constant above it. The dependence of the exchange coefficient on height is complex and must be determined numerically. The distribution of the aerosol concentration is essentially dependent on the k_2 profile. When the inversion layer is considerably

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higher than the source, the influence of the layer at short distances is not great, even if k_2 within the inversion layer is extremely small. If the lower boundary of the inversion layer approaches the level of the source, the intercepting effect increases appreciably, but can be detected only at a considerable distance from the source. The anomalous stratification associated with an inversion layer aloft does not always lead to a significant enhancement of the surface concentration. If the source is sufficiently high above the ground and the intercepting layer is sufficiently high above the source, a relatively small intensification of the surface concentration occurs within a zone of several kilometers from the source. If the source is not high above the ground, and an inversion layer is directly above it, the intercepting effect of the inversion layer will be highly significant; at sufficiently great distances from the source the surface concentration may increase by a factor of more than 2. When the source is within or above the inversion layer, the penetration of the aerosol into the surface layer is slight, even at great distances from the source. Gravitational settling must also be considered in a study of the propagation of heavy aerosols. This problem is solved numerically. In the absence of an inversion, the surface concentration near

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

L 18374-63
ACCESSION NR: AP3005875

the source will be greater for a heavy aerosol than for a light aerosol. The influence of an inversion above the source is less for the former. The downward propagation of a heavy aerosol is not hindered by lower-lying inversions to the same extent as is the downward propagation of a light aerosol. Orig. art. has: 12 formulas and 4 tables.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya (Main Geophysical Observatory)

SUBMITTED: 00	DATE ACQ: 06Sep63	ENCL: 00
SUB CODE: AS	NO REF SOV: 004	OTHER: 000

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

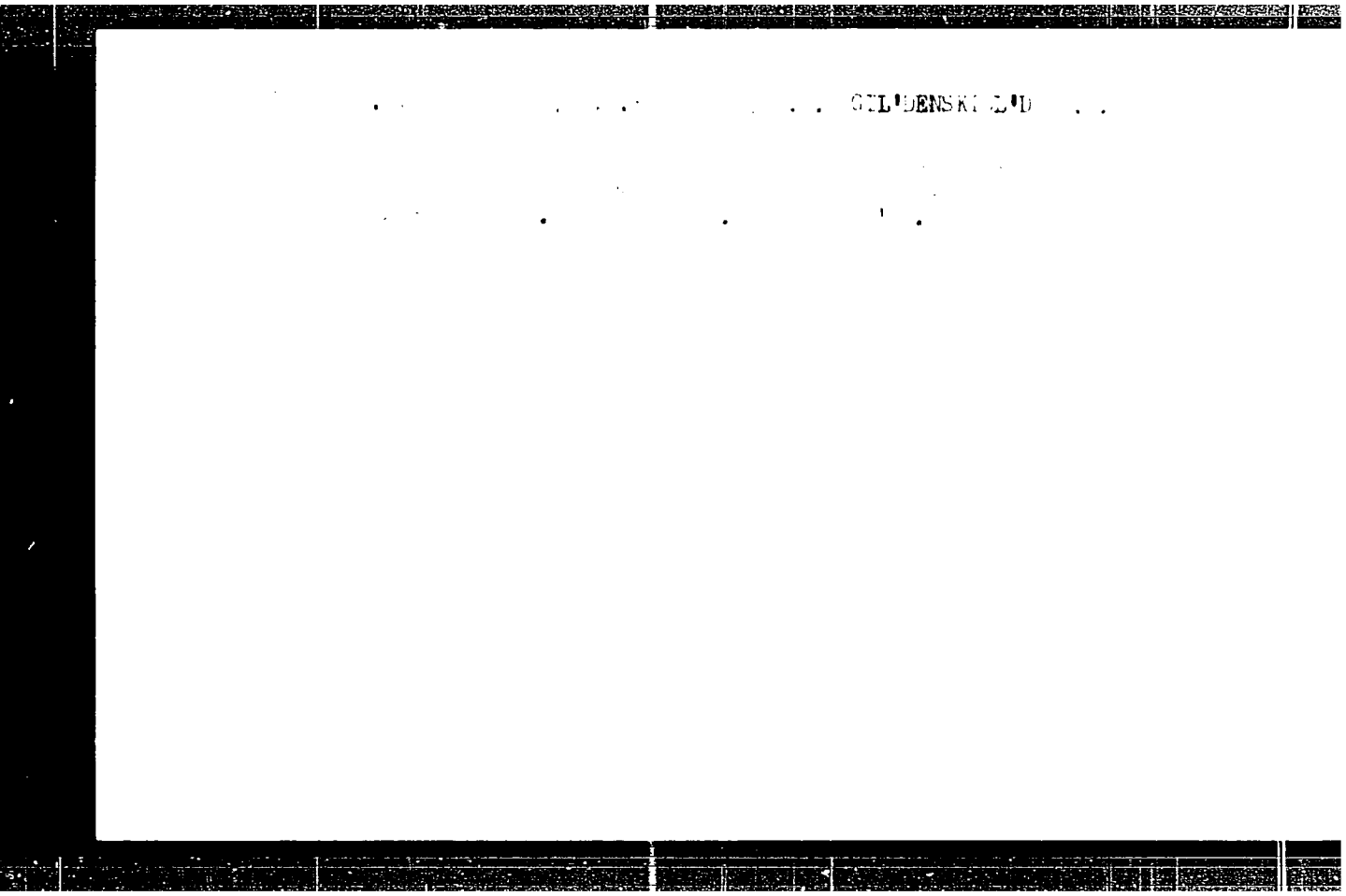
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

BERLYAND, M.Ye.; GENIKHOVICH, Ye.L.; LOZHKINA, V.P.; ONIKUL, R.I.

Numerical solution of the turbulent diffusion equation and calculation of atmospheric pollution near industrial enterprises. Trudy GGO no.108:3-17 '60. (MIRA 13:5)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

L 20961-66 EWT(1)/FCC GW

ACCESSION NR: AT5019733 UR/2531/65/000/172/0035/0041

AUTHOR: Byzova, N. L.; Onikul, R. I.

TITLE: Analysis of the heavy-contaminant concentration field from data of experiments carried out at the 300-meter meteorological tower

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 172, 1965. Voprosy atmosfernoy diffuzii i zagryazneniya vozdukha (Problems of atmospheric diffusion and contamination), 35-41

TOPIC TAGS: atmospheric particle diffusion, air pollution, meteorological tower, aerosol

ABSTRACT: Utilizing the numerical solutions of the turbulent diffusion equation (M. Ye. Berlyand, Ye. L. Genikhovich, V. P. Lozhkina, R. I. Onikul, Tr. GGO, no. 158, 1964), the author analyzed data obtained by scattering in the atmosphere heavy pollutants ejected from various levels of the 300-meter meteorological tower. The point sources sprayed chemically neutral substances of various colors (red, orange, and yellow polymethylmethacrylate [sic]), which could then be collected simultaneously. Subsequently, the colored samples were studied under ultraviolet light. Tests show that the theoretical results are in excellent agreement with the experimental data.

Card 1/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

L 20961-66
ACCESSION NR: AT5019733

Concentration of various fractions could be calculated from the precipitation rate on the collecting surfaces. These, in turn, permitted the calculation of the maximum ground concentrations and distances at which they are observed as a function of the source altitude, wind velocity, atmospheric stratification, and the rate of gravitational precipitation of the particles. All results are in the form of tables. Orig. art. has: 9 formulas and 2 tables. [08]

ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical Observatory)

SUBMITTED: 00 ENCL: 00 SUB CODE: ES

NO REF SOV: 008 OTHER: 000 ATD PRESS: 4084

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

L 2669-66 EWT(1)/EWT(m)/FCC/EWA(h) GS/GW

ACCESSION NR: AT5023953 UR/0000/65/000/000/0380/0391

AUTHOR: Berlyand, M. Ye.; Genikhovich, Ye. L.; Dam'yanovich, V. K.; Onikul, R. I.

TITLE: Effect of vertical distribution of temperature and wind velocity on the atmospheric diffusion of radioactive pollutants

SOURCE: Nauchnaya konferentsiya po yadernoy meteorologii. Obninsk, 1964. Radioaktivnyye izotopy v atmosfere i ikh ispol'zovaniye v meteorologii (Radioactive isotopes in the atmosphere and their use in meteorology); doklady konferentsii. Moscow, Atomizdat, 1965, 380-391

TOPIC TAGS: nuclear meteorology, air pollution, atmospheric surface boundary layer, atmospheric boundary layer, micrometeorology, radioactive fallout, radioactive pollution, lapse rate, atmospheric turbulence, wind velocity

ABSTRACT: Until recently, Soviet research dealing with problems of atmospheric pollution from continuously active point sources has been based on models of conditions for wind velocity and the coefficient of turbulent exchange prevailing in the surface boundary layer of the atmosphere. The present paper discusses the inapplicability of this

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

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ACCESSION NR: AT5023953

model to many existing and planned point sources and to problems of radioactive fallout; it presents a quantitative analysis of the effects of lapse rates, wind velocity, turbulent exchange, and other factors and a mathematical model which reflects them as they actually occur in the thicker boundary layer. Orig. art. has: 8 formulas and 5 figures. [ER]

ASSOCIATION: none

SUBMITTED: 28Apr65 ENCL: 00 SUB CODE: ES, NP

NO REF SOV: 009 OTHER: 000 ATD PRESS: 4101

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKUL, Ya.Ye., inzhener; STRASHUN, K.Z., inzhener; ROMANOVSKIY, V.P., kandidat tekhnicheskikh nauk, dotsent; SHILOV, V.S., inzhener, retsenzent; VAYNTRAUB, D.A., inzhener, redaktor

[Stamping non-metallic materials] Shtampovka nemetallicheskikh materialov. Pod obshchei red. V.P.Romanovskogo. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 56 p. (Bibliotechka shtampovshchika, no.8) (MLRA 9:12)
(Sheet-metal work)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

AID P - 4259

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 17/33

Author : Onikul, Ya. Ye., Engineer, Chief of a Plant's Construction Bureau

Title : Letter to the Editor

Periodical : Vest. mash., #1, p. 55, Ja 1956

Abstract : The author states that the method of calculation presented by D. A. Vayntraub in his article "Technological Calculations in the Drawing of High Rectangle Casings" published in this journal (#6, 1955) proved in practice to be very helpful and accurate.

Institution : None

Submitted : No date

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIKUL, Ya.Ye.

Group blocks for die casting. Av.prom. 26 no.8:54-57 Ag '57. (MIRA 15:4)

(Die casting--Equipment and supplies)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

VEDENEYEV, Nikolay Petrovich; VOLCHENKOV, Aleksandr Ivanovich; NOVGORODOV, Aleksandr Stepanovich; ONIKUL, Ya.Ye., inzh., retsenzent; VAYNTRAUB, D.A., kand. tekhn. nauk, red.; LEYKINA, T.L., red. izd-va; SPERANSKAYA, OV., tekhn. red.

[Hard-alloy engineering equipment; dies and press-molds] Tverdosplavnaia tekhnologicheskaia osnastka; shtampy i press-formy. Leningrad, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1961. 119 p. (MIRA 15:2)
(Dies (Metalworking)) (Metalwork)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIN, N.M.; TSIGEL'MAN, I.S. [deceased]

Use of combined electric profiling in surveys of a complex ore deposit at the contact of two media having different electric conductivity. Zap. LGI 39 no.2:110-113 '61. (MIRA 15:2)
(Electric prospecting)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

[illegible], [illegible].

Practice [illegible] electric [illegible]. Izv. [illegible] razv. [illegible] [illegible]

1. Leningradskiy [illegible] institut imeni G.V. Plekhanova.

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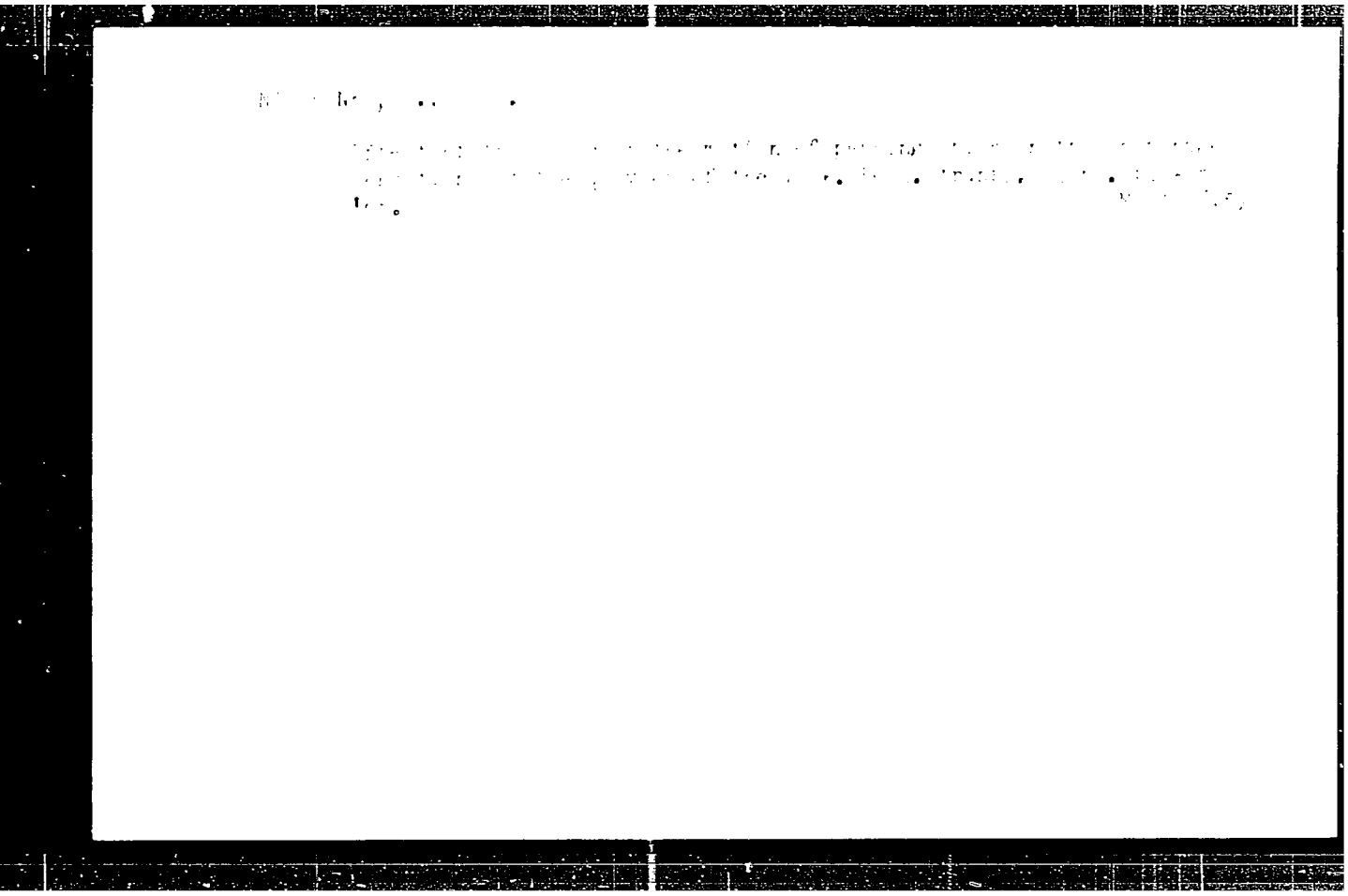

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

32(4)
AUTHOR: Onipchenko, G.F., Engineer

TITLE: On the Selection of Lifting Mechanism [illegible] Navigation Locks

PERICDICAL: Gidrotekhnicheskoye stroitel'stvo, 19[illegible], Nr [illegible], p [illegible]

ABSTRACT: In answer to a question of Architect G.F. Terestronina on the decreased height of downstream navigation lock valvehouse structures, published in the Soviet periodical "Gidrotekhnicheskoye stroitel'stvo", 1958, Nr 10, the author gives an explanation of phenomena which condition the height of these structures. Experience in operation with downstream gate hoist mechanisms of the Kuybyshev Hydrocomplex navigation lock showed that the mass-acceleration of water, caused by the length of the filling conduit, cannot be neglected. When closing the operation, water rose to 3.5 m above the normal level and flooded the valvehouse. The NII of the "Gidroproyekt" carried out

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On the Selection of Lifting Mechanism Heights in Navigation Lock

laboratory experiments and field tests to study the problem and recommended either the sealing of the gate shaft or the use of hydraulic hoist equipment which is not effected by flooding. There are 1 diagram and 1 graph.

Card 2/

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KHALTURIN, A., inzh.; ONUPCHENKO, G., inzh.

Characteristics of operating twin sluices. Mech.transp. 19 no.9:32-33 S '60. (MIRA 13:9)
(Sluices)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIPCHENKO, G. F., inzh.

Wave damping in the lower lock approach channels. Mech. transp. 21 no.10:42 O '62. (MIRA 15:10)

(Locks(Hydraulic engineering)) (Waves)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

CHIPENKO, N. I.

"Effect of Camphor Serum on the Cardiovascular System of Horses."
Cand Med Sci, Moscow Veterinary Acad, Moscow, 1953. (RZhBiol, No 5, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

PAVLOVSKIY, V.; OSTAPENKO, K.; MENDELEVICH, M.M.; BATANOV, Yu.P.; ANTONETS, G.I.; ONIPENKO, N.I.; GORCHAK, G.K.; ANDRIYASH, L.T.; AVELIN, I.; IGNATOVICH, N.; CHIZHOV, A.; DALMATOV, M.K.; SIKORSKIY, A.N.; KOVALENKO, Ya.R.

Information and brief news. Veterinariia 40 no.9:83-93 S '63. (MIRA 17:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

AUTHOR: Onipko, A.M.

TITLE: Distinguished Pedagogues of the National Higher School. Vydayushchiyesya pedagogi otechestvennoy vysshey shkoly. Aleksandr Onufriyevich Kovalevskiy, Deceased

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # ., pp 73-74 USSR

ABSTRACT: The article contains a biography of Professor Doctor A.O. Kovalevskiy (1840-1901), the founder of the comparative evolutional embryology and a follower of Darwinism. According to the article he was also an advocate of natural scientific materialism. His scientific work was always closely connected with his pedagogical activity. In February 1868 he was appointed professor at the Kazan' University and placed in charge of the chair of Zoology. In the course of 24 years he taught this subject at the Kiyev and Novorossiysk universities. In 1890, he was elected member of the Russian Academy of Sciences.
There are 14 Russian references.

AVAILABLE: Library of Congress

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONIPKO, V., starshiy tekhnik-leytenant

Device for clamping main shock struts. Av.i kosm. 45 no.3:24 Mr '63. (MIRA 16:3)
(Shock absorbers)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

KARLIN, M.I., kand.med.nauk; KLEBANOV, G.Ya.; ONIPKO, V.A.

Dispansery service for patients with lupus erythematosus. Vest. derm.i ven. no.11:56-58 '61. (MIRA 14:11)

1. Iz Kozhno-venerologicheskogo dispansera No.3 Leningrada (glavnyy vrach S.M. Grudinina, nauchnyy rukovoditel' - chlen-korrespondent AMN SSSR zasluzhennyy deyatel' nauk RSFSR prof. S.T. Pavlov).

(LUPUS ERYTHEMATOSUS)

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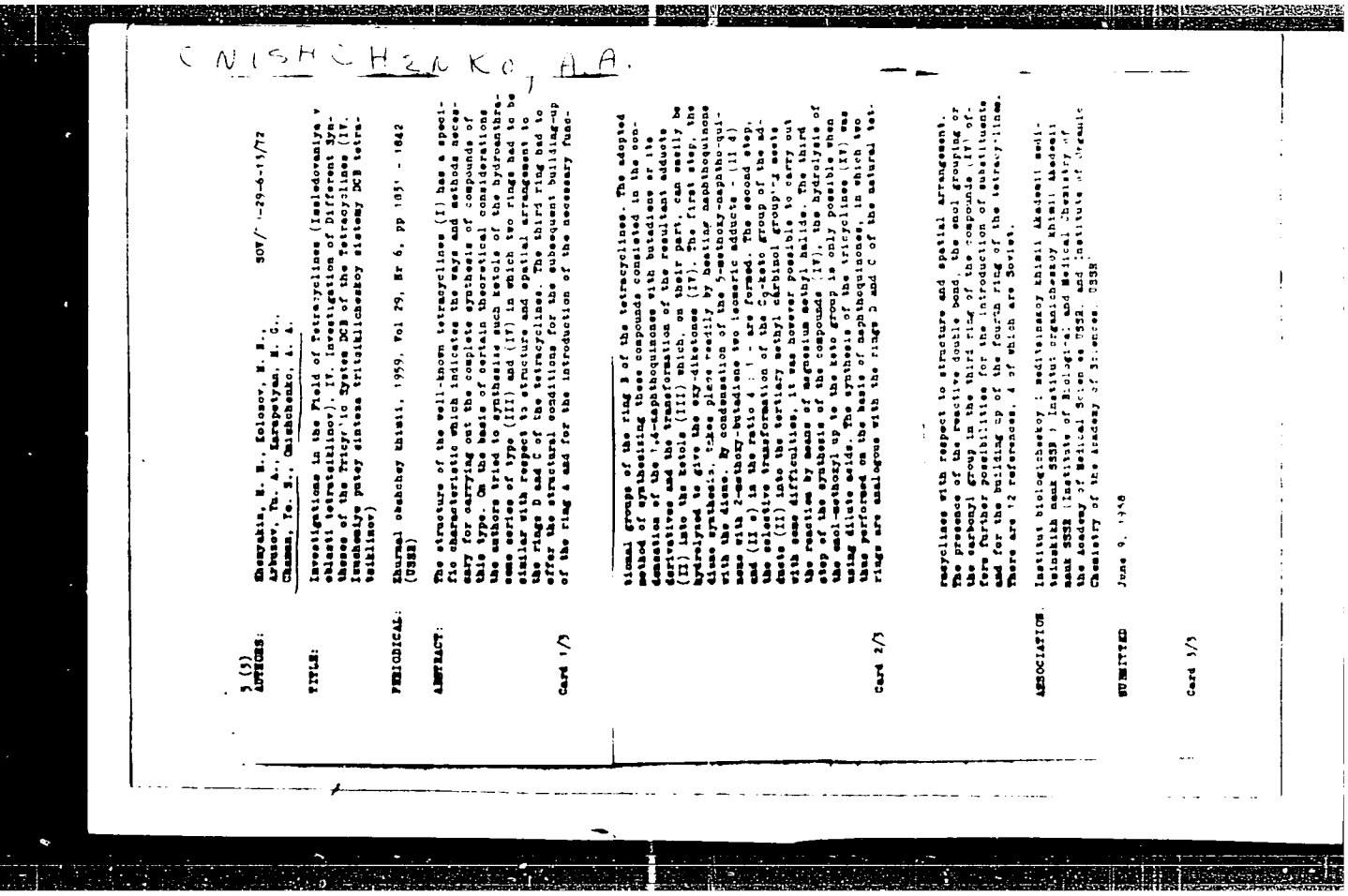

ONISHCHENKO, A.A.

5 (5)

AUTHORS: Shemyakin, M. M., Kolosov, M. N., Arbuzov, Yu. A., Karapetyan, M. G., Chaman, Ye. S., Onishchenko, A. A.

SOV/[illegible]-29-6-13/72

TITLE: Investigations in the Field of Tetracyclines (Issledovaniya v oblasti tetratsiklinov). IV. Investigation of Different Syntheses of the Tricyclic System DCB of the Tetracyclines (IV. Izuchemiye putey sinteza tritsiklicheskoy sistemy DCB tetratsiklinov)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 6, pp 1831 - 1842 (USSR)

ABSTRACT: The structure of the well-known tetracyclines (I) has a specific characteristic which indicates the ways and methods necessary for carrying out the complete synthesis of compounds of this type. On the basis of certain theoretical considerations the authors tried to synthesize such ketols of the hydroanthracene series of type (III) and (IV) in which two rings had to be similar with respect to structure and spatial arrangement to the rings D and C of the tetracyclines. The third ring had to offer the structural conditions for the subsequent building-up of the ring A and for the introduction of the necessary functional groups of the ring B of the tetracyclines. The adopted method of synthesizing these compounds consisted in the condensation of the 1,4-naphthoquinones with butadiene or its derivatives and the transformation of the resultant adducts (II) into the ketols (III) which, on their part, can easily be hydrolyzed to give the oxy-diketones (IV). The first step, the diene synthesis, takes place readily by heating naphthoquinone with the diene. By condensation of the 5-methoxy-naphtho-quinone with 2-methoxy-butadiene two isomeric adducts - (II d) and (II e) in the ratio 4 : 1 - are formed. The second step, the selective transformation of the C_9-keto group of the adducts (II) into the tertiary methyl carbinol grouping meets with some difficulties, it was however possible to carry out the reaction by means of magnesium methyl halide. The third step of the synthesis of the compounds (IV), the hydrolysis of the enol-methoxyl up to the keto group is only possible when using dilute acids. The synthesis of the tricyclines (IV) was thus performed on the basis of naphthoquinones, in which two rings are analogous with the rings D and C of the natural tetracyclines with respect to structure and spatial arrangement. The presence of the reactive double bond, the enol grouping or the carbonyl group in the third ring of the compounds (IV) offers further possibilities for the introduction of substituents and for the building up of the fourth ring of the tetracyclines. There are 12 references, 4 of which are Soviet.

Card 1/3

Card 2/3

ASSOCIATION: Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR ; Institut organicheskoy khimii Akademii nauk SSSR (Institute of Biological and Medical Chemistry of the Academy of Medical Sciences USSR, and Institute of Organic Chemistry of the Academy of Sciences, USSR)

SUBMITTED June 9, 1958

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ARBUZOV, Yu.A.; ONISHCHENKO, A.A.

Reaction of 1-chloro-1-nitrosocyclohexane with 1,3-butadiene.
Dokl. AN SSSR 146 no.5:1075-1077 O '62. (MIRA:15:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
Predstavleno akademikom A.N. Nesmeyanovym.
(Cyclohexane) (Butadiene)

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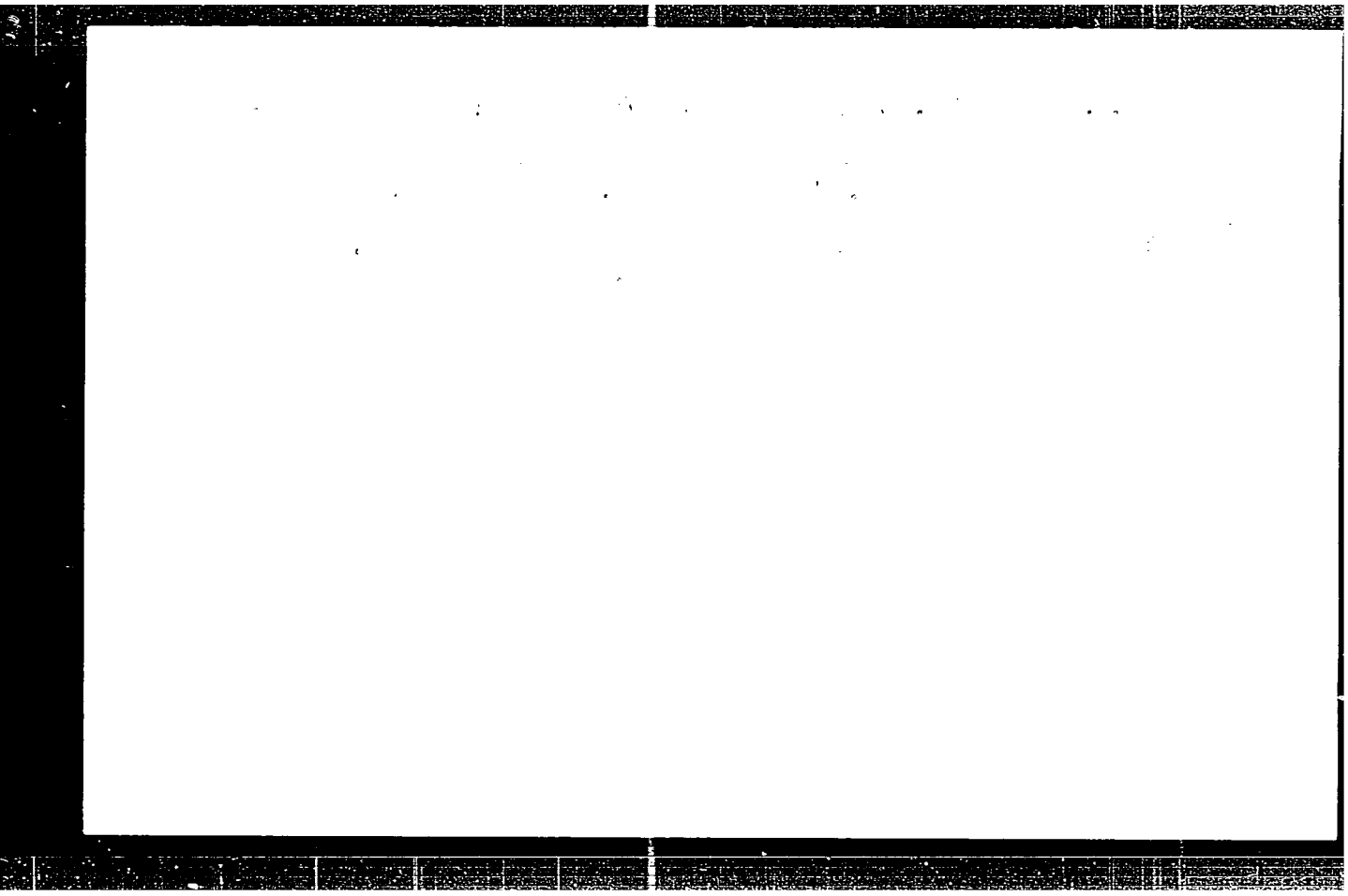

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

DELYAGIN, G.N.; KANTOROVICH, B.V.; KARACHINTSEV, V.I.; ONISHCHENKO, A.S.

Combustion of coal and water suspensions at a pilot plant. Ugol'
39 no.9:86-87 S '64. (MIRA 17:10)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

TITOV, Viktor Dmitriyevich; ONISHCHENKO, Anna Ivanovna; SOSEDOV, C.O., retsenzent; KAPLUNOV, N.P., otv. red.; YEROKHIN, G.M., red.izd-va; LONILINA, L.N., tekhn. red.; PROZOROVSKAYA, V.L., tekhn. red.

[Underground method of iron-ore mining] Razrabotka rud chernykh metallov podzemnym sposobom. Moskva, Gosgortekhizdat, 1963. 181 p. (MIRA 16:12)
(Iron mines and mining)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

[redacted]

9. Monthly List of Russian Accessions. Library of Congress. [redacted]

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

[redacted], T. I.

USSR (600)

Potatoes

Development of the roots of the potato as affected by the methods of planting.
Agrobiologiia no. 3, 1952.
Ukrayinskiy nauchno-issledovatel'skiy institut ovoshchevodstva, g, Khar'kov

Monthly List of Russian Accessions, Library of Congress, September 19[illegible].

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012381

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

[illegible], A. ..

USSR (60)

Potatoes

Resistance of potatoes to high temperatures.
Dokl. AN SSSR 83 no. 2, 1952
Ukraonskiy Nauchno-Issledovatel'skiy
Institut Ovoshchevodstva Khar'kov
Rcd. 7 Dec. 1951

Monthly List of Russian Accessions, Library of Congress, [illegible] 1952
August UNCL

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

1. ONISHCHENKO, A. I.

2. USSR (600)

4. Potatoes

7. Effect of conditions under which the seed stock grew on the yield of potato seedlings, Agrobiologiia No. 1, 19[illegible].

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

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

VAGANOV, A.P.; ONISHCHENKO, A.I.

Investigation of the efficiency of top dressing potatoes with superphosphates. Dop. UN URSR no.2:152-156 '56. (MLRA 9:12)

1. Kharkivs'kiy sil's'kogos'podars'kiy insitut imeni Dokuchayeva i Ukrains'kiy n.-d. institut ovochivnitstva. Predstavleno akademikom Akademii nauk USSR i Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk imeni Lenina P.A. Vlasyukom.
(Phosphates) (Potatoes)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

GOLIKOV, Vladimir Ivanovich [Holikov, V.]; ONISHCHENKO, Aleksey Moiseyevich [Onyshchenko, O.]; SKLYARENKO, O., red.; MIL'KIN, Yu., tekhn. red.

[Cost of farm produce and how to reduce it] Sobivartist' sil'-s'kohospodars'koi produktsii i shliakhy ii znyzhennia. Kyiv, Derzh.vyd-vo polit.lit-ry URSR, 1960. 70 p. (MIRA 15:1)
(Ukraine--Farm produce)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONISHCHENKO, A.M.; VASIKO, V.N., GOLOVNYAK, ..F., red.; KHOKHANOVSKAYA, T.I., tekhn. red.

[Handbook for training in geological mapping] Rukovodstvo k provedeniiu uchebnoi praktiki po geologicheskomu kartirovaniiu. Kiev, Izd-vo Kievskogo univ., 1962. 78 p. (MIRA 16:7)

(Geology--Maps)

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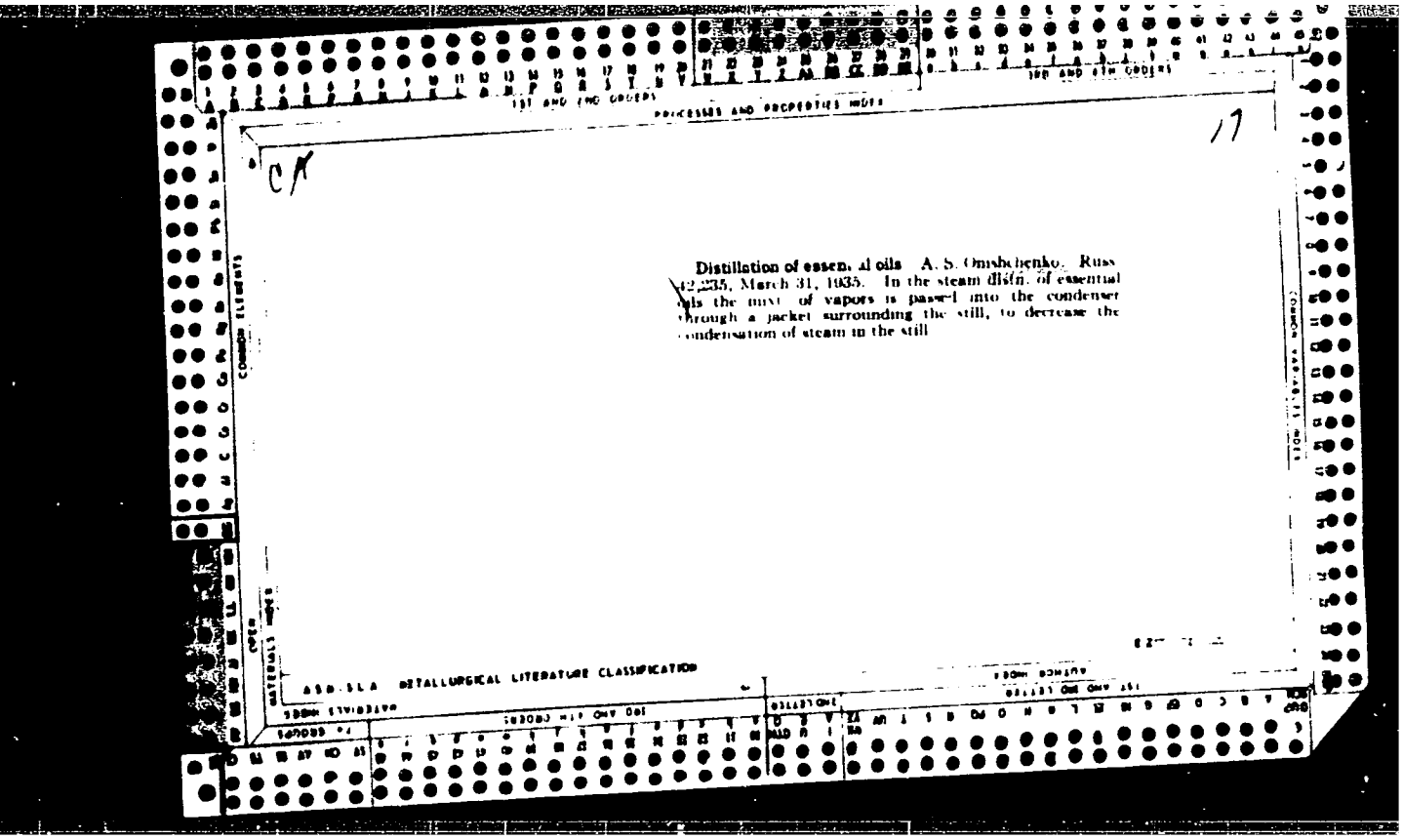

Distillation of essential oils A. S. Omshchenko. Russ 42,235, March 31, 1935. In the steam distn. of essential oils the mixt. of vapors is passed into the condenser through a jacket surrounding the still, to decrease the condensation of steam in the still

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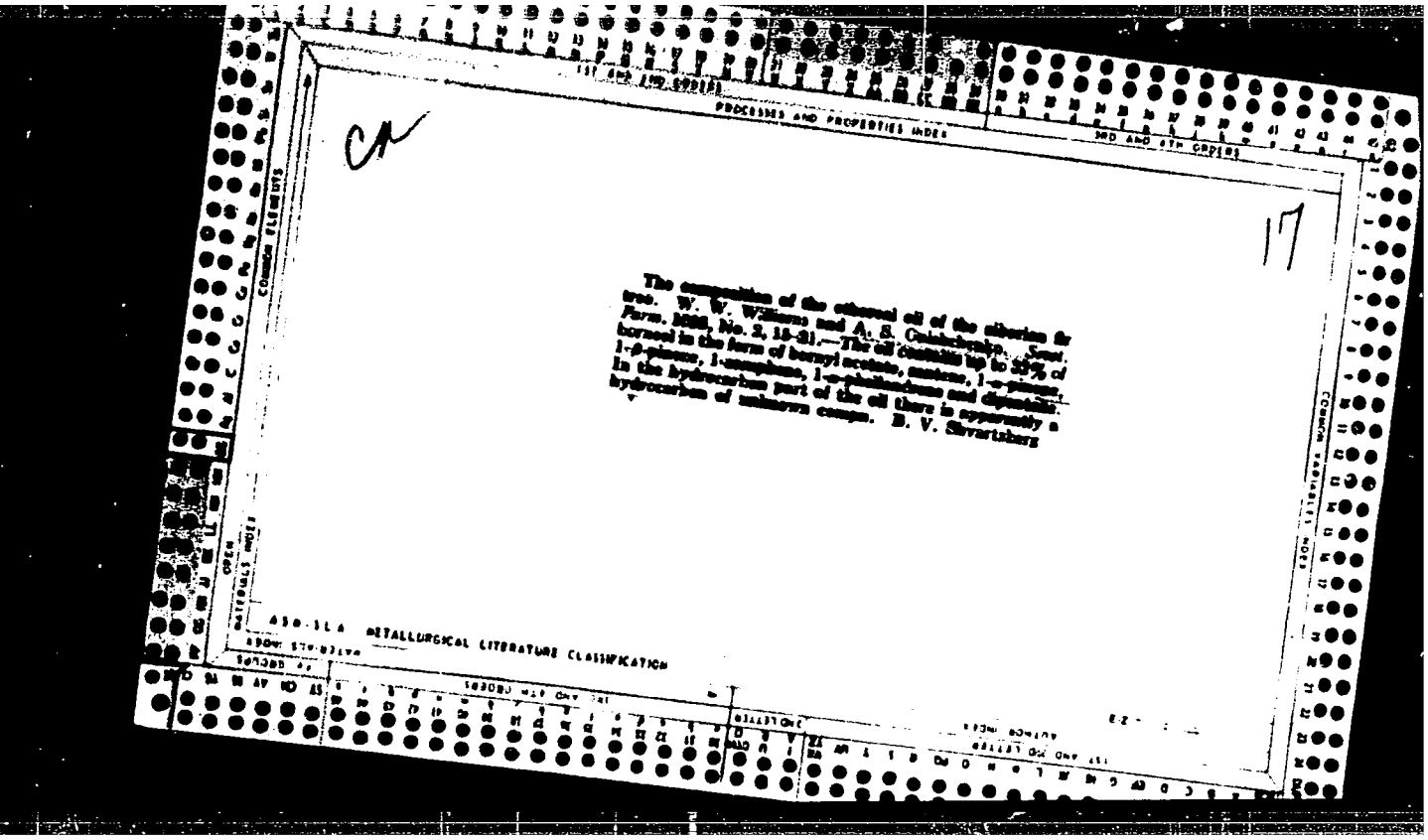

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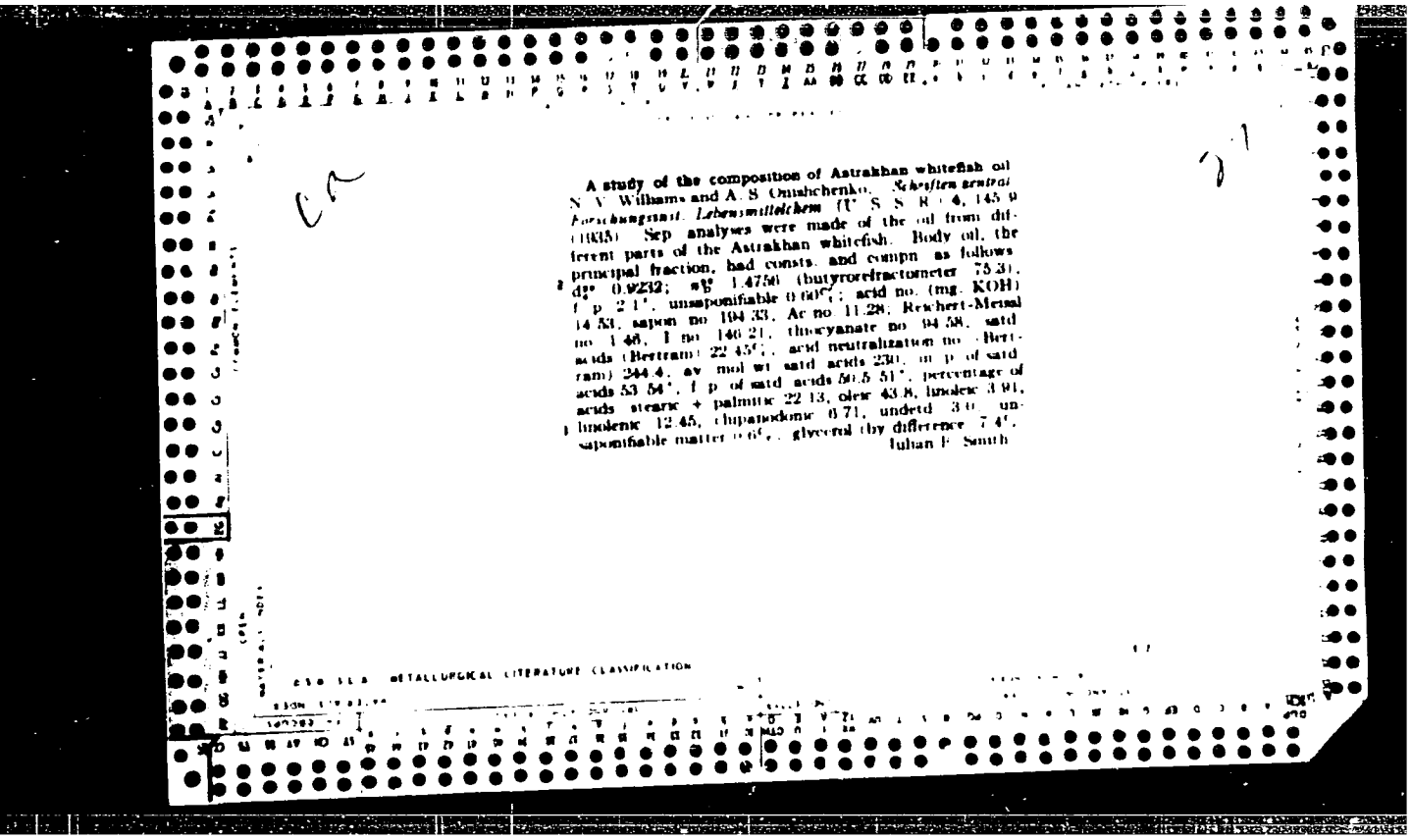

A study of the composition of Astrakhan whitefish oil
N V Williams and A S Onishchenko. *Schriften zentral Forschungsinst. Lebensmittelchem* (U S S R) 4, 145-9 (1935). Sep analyses were made of the oil from different parts of the Astrakhan whitefish. Body oil, the principal fraction, had consts. and compn as follows: d_{20}^{20} 0.9232; n_D^{20} 1.4750 (butyrorefractometer 75.3), f. p. 2.1°, unsaponifiable 0.61%; acid no. (mg. KOH) 14.53, sapon no. 194.33, Ac no. 11.28; Reichert-Meissl no. 1.48, I no. 146.21, thiocyanate no. 94.58, satd. acids (Bertram) 22.45%, acid neutralization no. (Bertram) 244.4, av. mol. wt. satd. acids 230, m. p. of satd. acids 53.54°, I no. of satd. acids 50.5, 51°, percentage of acids stearic + palmitic 22.13, oleic 43.8, linoleic 3.91, linolenic 12.45, clupanodonic 0.71, undetd. 3.0, unsaponifiable matter 0.6%, glycerol (by difference 7.4%.

Julian F. Smith

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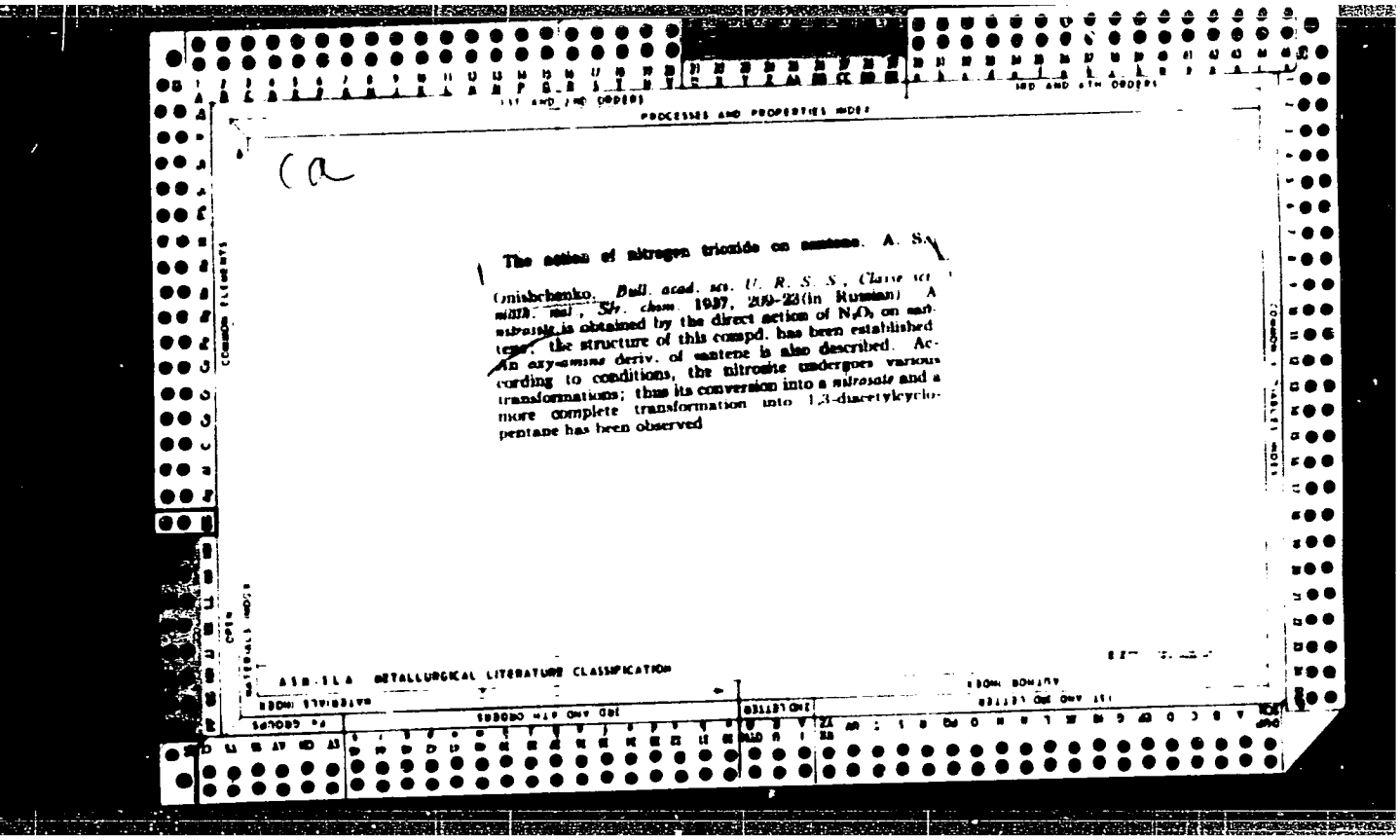

(a

The action of nitrogen trioxide on santene. A. S. Onishchenko. *Bull. acad. sci. U. R. S. S., Classe sci. math. nat., Sér. chim.* 1937, 209-23 (in Russian). A nitrosate is obtained by the direct action of N_2O_3 on santene; the structure of this compd. has been established. An oxy-amino deriv. of santene is also described. According to conditions, the nitrosite undergoes various transformations; thus its conversion into a *nitrosate* and a more complete transformation into 1,3-diacetylcyclopentane has been observed

A 58-11 A METALLURGICAL LITERATURE CLASSIFICATION

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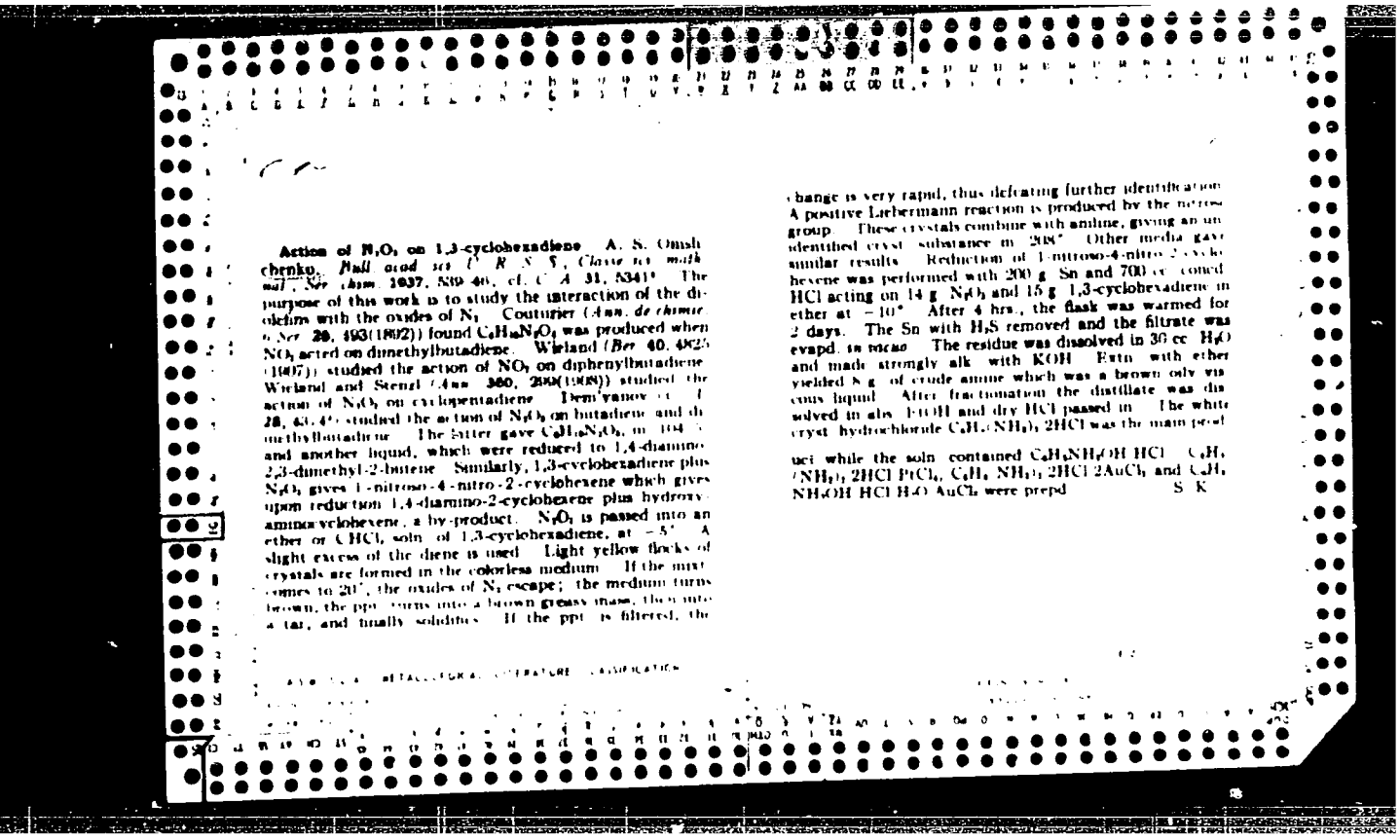

Action of N_2O_3 on 1,3-cyclohexadiene. A. S. Onishchenko. *Bull. acad. sci. U. R. S. S., Classe sci. math. nat., Sér. chim.* 1937, 539-46; cf. *C. A.* 31, 5341[9]. The purpose of this work is to study the interaction of the diolefins with the oxides of N_2. Couturier (*Ann. de chimie*, 6 *Sér.* 29, 493(1892)) found $C_6H_{10}N_2O_4$ was produced when NO_2 acted on dimethylbutadiene. Wieland (*Ber.* 40, 4825 (1907)) studied the action of NO_2 on diphenylbutadiene. Wieland and Stenzl (*Ann.* 360, 299(1908)) studied the action of N_2O_3 on cyclopentadiene. Dem'yanov (*C. A.* 28, 43, 4[illegible]) studied the action of N_2O_3 on butadiene and dimethylbutadiene. The latter gave $C_6H_{10}N_2O_4$, m. 104 [illegible] and another liquid, which were reduced to 1,4-diamino-2,3-dimethyl-2-butene. Similarly, 1,3-cyclohexadiene plus N_2O_3 gives 1-nitroso-4-nitro-2-cyclohexene which gives upon reduction 1,4-diamino-2-cyclohexene plus hydroxyaminocyclohexene, a by-product. N_2O_3 is passed into an ether or $CHCl_3$ soln. of 1,3-cyclohexadiene, at −5°. A slight excess of the diene is used. Light yellow flocks of crystals are formed in the colorless medium. If the mixt. comes to 20°, the oxides of N_2 escape; the medium turns brown, the ppt. turns into a brown greasy mass, then into a tar, and finally solidifies. If the ppt. is filtered, the change is very rapid, thus defeating further identification. A positive Liebermann reaction is produced by the nitroso group. These crystals combine with aniline, giving an unidentified cryst. substance m. 208°. Other media gave similar results. Reduction of 1-nitroso-4-nitro-2-cyclohexene was performed with 200 g. Sn and 700 cc. concd. HCl acting on 14 g. N_2O_3 and 15 g. 1,3-cyclohexadiene in ether at −10°. After 4 hrs., the flask was warmed for 2 days. The Sn with H_2S removed and the filtrate was evapd. *in vacuo*. The residue was dissolved in 30 cc. H_2O and made strongly alk. with KOH. Extn. with ether yielded 8 g. of crude amine which was a brown oily viscous liquid. After fractionation the distillate was dissolved in abs. EtOH and dry HCl passed in. The white cryst. hydrochloride $C_6H_4(NH_2)_2 \cdot 2HCl$ was the main product while the soln. contained $C_6H_4NH_2OH \cdot HCl$, $C_6H_4(NH_2)_2 \cdot 2HCl \cdot PtCl_4$, $C_6H_4(NH_2)_2 \cdot 2HCl \cdot 2AuCl_3$ and $C_6H_4NH_2OH \cdot HCl \cdot H_2O \cdot AuCl_3$ were prepd. S. K.

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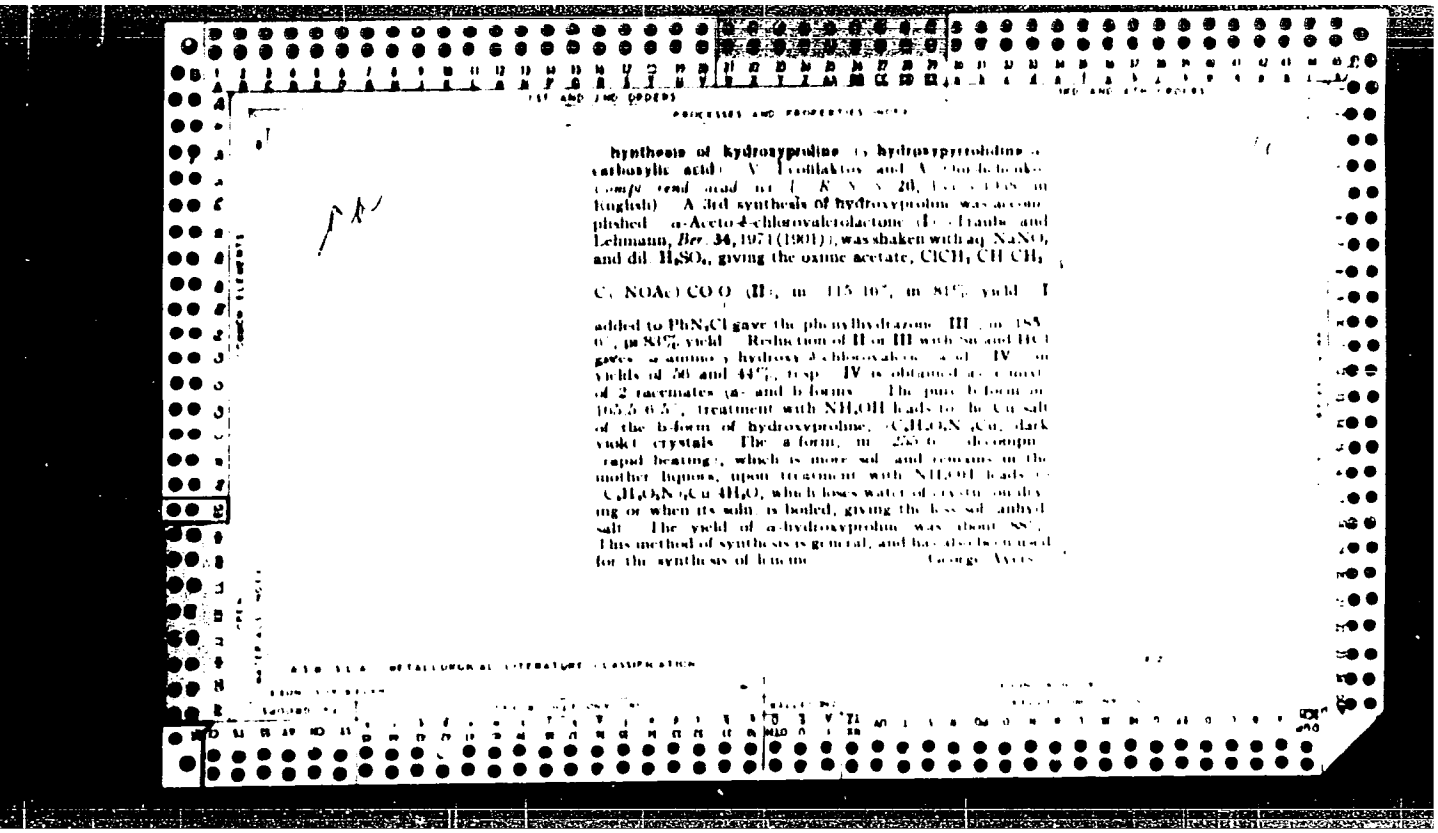

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

hynthesis of hydroxyproline (γ-hydroxypyrrolidine α-carboxylic acid) V. Leofilaktov and A. [illegible] (*Compt. rend. acad. sci. U. R. S. S.* 20, [illegible] in English). A 3rd synthesis of hydroxyproline was accomplished. α-Aceto-δ-chlorovalerolactone (I) (Traube and Lehmann, *Ber.* 34, 1971 (1901)), was shaken with aq. $NaNO_2$ and dil. H_2SO_4, giving the oxime acetate, $ClCH_2CH_2CH_2C(NOAc)CO_2O$ (II), m. 115-16°, in 81% yield. I added to PhN_2Cl gave the phenylhydrazone (III), m. 185-6°, in 83% yield. Reduction of II or III with Sn and HCl gives α-amino-γ-hydroxy-δ-chlorovalerolactone (IV), in yields of 56 and 44%, resp. IV is obtained as a mixt. of 2 racemates (a- and b-forms). The pure b-form m. 165.5-6.5°, treatment with NH_4OH leads to the Cu salt of the b-form of hydroxyproline, $(C_5H_9O_3N)_2Cu$, dark violet crystals. The a-form, m. 255-6° (decompn. rapid heating), which is more sol. and remains in the mother liquors, upon treatment with NH_4OH leads to $(C_5H_9O_3N)_2Cu \cdot 4H_2O$, which loses water of crystn. on drying or when its soln. is boiled, giving the less sol. anhyd. salt. The yield of α-hydroxyproline was about 88%. This method of synthesis is general, and has also been used for the synthesis of leucine. George Ayers

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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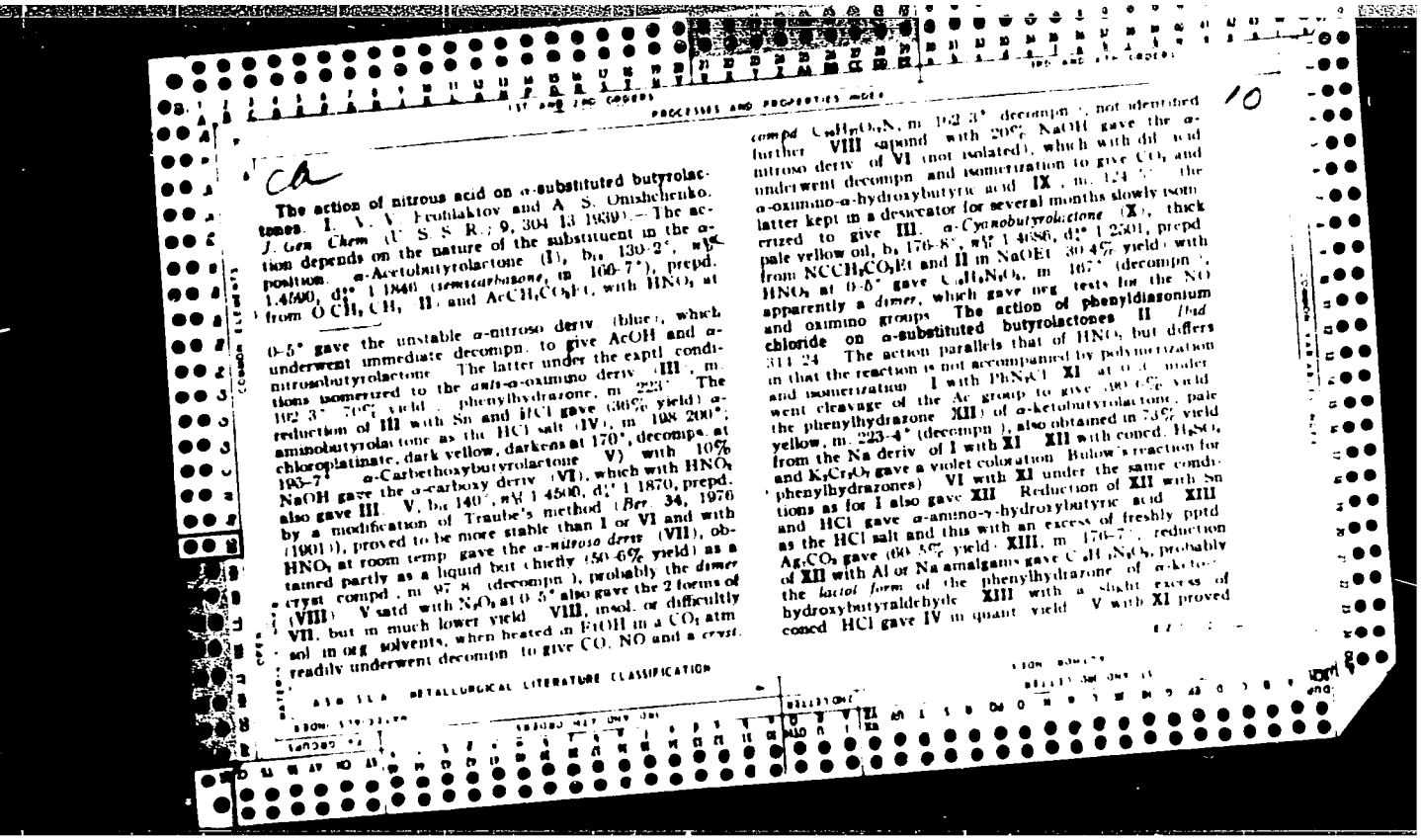

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

10

Ca

The action of nitrous acid on α-substituted butyrolactones. I. V. V. Feofilaktov and A. S. Onishchenko. *J. Gen. Chem.* (U. S. S. R.) 9, 304-13 (1939).—The action depends on the nature of the substituent in the α-position. α-Acetobutyrolactone (I), b_{10} 130-2°, n_D^{20} 1.4500, d_4^{20} 1.1846 (*semicarbazone*, m. 166-7°), prepd. from $O(CH_2CH_2)$ (II) and $AcCH_2CO_2Et$, with HNO_2 at 0-5° gave the unstable α-nitroso deriv. (blue), which underwent immediate decompn. to give AcOH and α-nitrosobutyrolactone. The latter under the exptl. conditions isomerized to the *anti*-α-oximino deriv. (III), m. 102-3°, 70% yield; phenylhydrazone, m. 223°. The reduction of III with Sn and HCl gave (36% yield) α-aminobutyrolactone as the HCl salt (IV), m. 198-200°; chloroplatinate, dark yellow, darkens at 170°, decomps. at 195-7°. α-Carbethoxybutyrolactone (V) with 10% NaOH gave the α-carboxy deriv. (VI), which with HNO_2 also gave III. V, b_{10} 140°, n_D^{20} 1.4500, d_4^{20} 1.1870, prepd. by a modification of Traube's method (*Ber.* 34, 1976 (1901)), proved to be more stable than I or VI and with HNO_2 at room temp. gave the *α-nitroso deriv.* (VII), obtained partly as a liquid but chiefly (50-6% yield) as a cryst. compd., m. 97-8° (decompn.), probably the *dimer* (VIII). V satd. with N_2O_3 at 0-5° also gave the 2 forms of VII, but in much lower yield. VIII, insol. or difficultly sol. in org. solvents, when heated in EtOH in a CO_2 atm. readily underwent decompn. to give CO, NO and a *cryst. compd.* $C_{20}H_{27}O_{12}N$, m. 162-3° (decompn.), not identified further. VIII sapond. with 20% NaOH gave the α-nitroso deriv. of VI (not isolated), which with dil. acid underwent decompn. and isomerization to give CO_2 and α-oximino-α-hydroxybutyric acid (IX), m. 124-5°; the latter kept in a desiccator for several months slowly isomerized to give III. α-*Cyanobutyrolactone* (X), thick pale yellow oil, b_{10} 176-8°, n_D^{20} 1.4686, d_4^{20} 1.2501, prepd. from $NCCH_2CO_2Et$ and II in NaOEt (30-4% yield) with HNO_2 at 0-5° gave $C_{10}H_8N_2O_4$, m. 167° (decompn.), apparently a *dimer*, which gave neg. tests for the NO and oximino groups. **The action of phenyldiazonium chloride on α-substituted butyrolactones.** II. *Ibid.* 314-24. The action parallels that of HNO_2 but differs in that the reaction is not accompanied by polymerization and isomerization. I with PhN_2Cl (XI) at 0-3° underwent cleavage of the Ac group to give (90-6% yield) the phenylhydrazone (XII) of α-ketobutyrolactone, pale yellow, m. 223-4° (decompn.), also obtained in 73% yield from the Na deriv. of I with XI. XII with concd. H_2SO_4 and $K_2Cr_2O_7$ gave a violet coloration (Bulow's reaction for phenylhydrazones). VI with XI under the same conditions as for I also gave XII. Reduction of XII with Sn and HCl gave α-amino-γ-hydroxybutyric acid (XIII) as the HCl salt and this with an excess of freshly pptd. Ag_2CO_3 gave (60-5% yield) XIII, m. 176-7°; reduction of XII with Al or Na amalgams gave $C_{10}H_{12}N_2O_2$, probably the *lactol form* of the phenylhydrazone of α-keto-hydroxybutyraldehyde. XIII with a slight excess of concd. HCl gave IV in quant. yield. V with XI proved

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to be stable and gave the *α-phenylaso deriv.* (XIV), not purified. To prove its structure XIV, which gave a neg. Bulow reaction, was saponified with dil. NaOH and the saponification product decarboxylated with dil. H_2SO_4 to give the phenylhydrazone (XV) of α-keto-γ-hydroxybutyric acid, bright yellow, m. 162° (decompn.), also obtained by the saponification of XII. XV gave a pos. Bulow reaction. The reaction of *α-cyanobutyrolactone with phenyldiazonium chloride*. III. *Ibid.* 325–30.—X with XI behaves in a manner analogous to that of the monoalkylcyanoacetic esters studied by Favrel (*Bull. soc. chim.* [3], 27, 101 (1902)). X added to a soln. of XI at 0–3° gave (88.9%) yield) *α-phenylaso-α-cyanobutyrolactone* (XVI), bright yellow, m. 101.2° (decompn.), which gave a neg. Bulow reaction. XVI with alc. or aq. NaOH underwent ring cleavage and loss of CO_2 to give the phenylhydrazone (XVII) of α-keto-γ-hydroxybutyronitrile, pale yellow, m. 108.5°. XVII gave a pos. Bulow reaction. XVII with 10% HCl gave a HCl salt (XVIII), canary yellow, m. 142.5° (decompn.), which probably exists in 2 tautomeric forms, as the HCl salt of XVII and as the HCl salt of 2-imino-3-oxotetrahydrofuran phenylhydrazone. XVIII neutralized with aq. KOH gave XVII, but with boiling water the product was XII. XVII with boiling water gave the amide of XV, m. 162–3°, which heated with dil. HCl gave XII. Synthesis of hydroxyproline (γ-hydroxy pyrrolidine-α-carboxylic acid). IV. *Ibid.* 331–9. See C. A. 33, 1725⁵. John Livak

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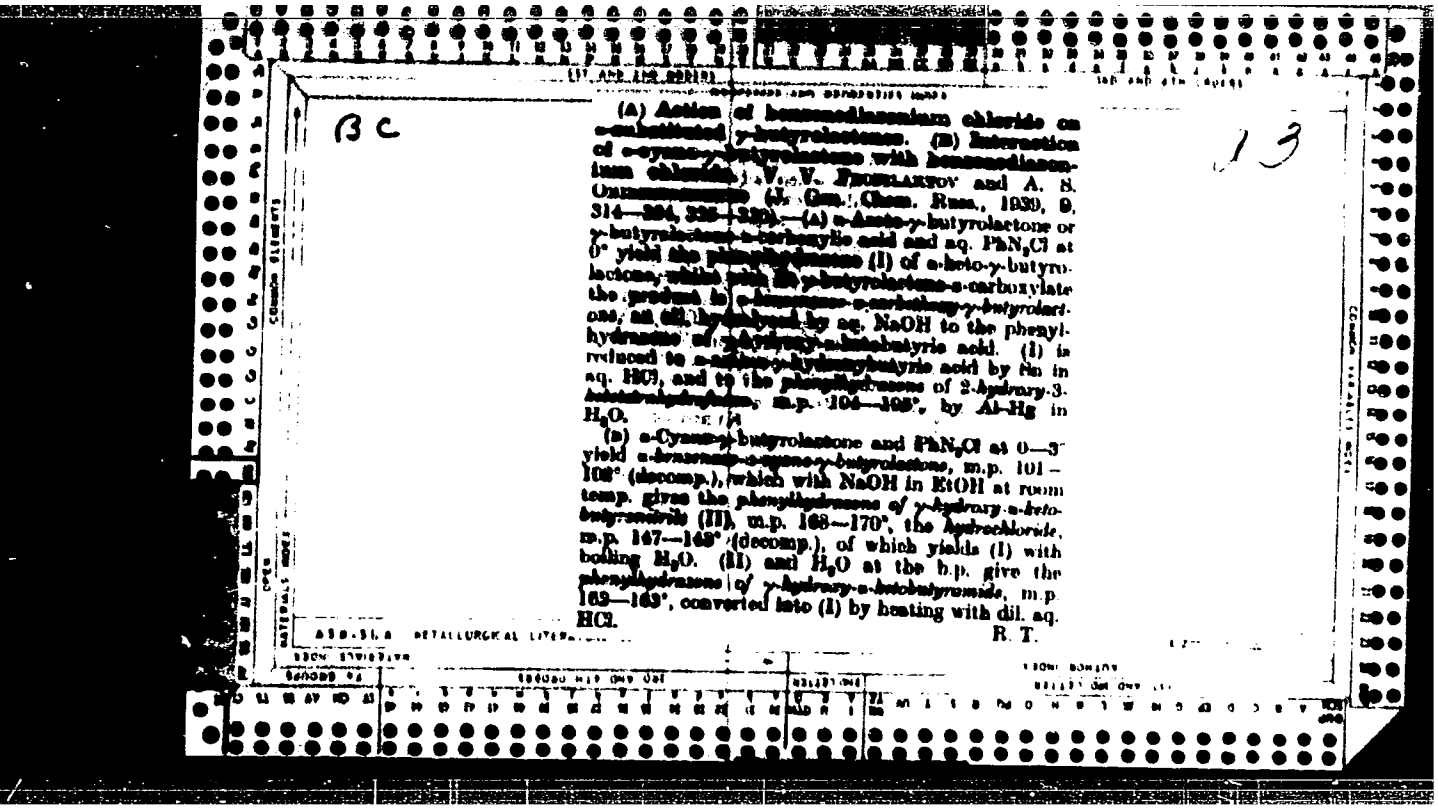

BC

13

(A) Action of benzenediazonium chloride on α-substituted γ-butyrolactones. (B) Interaction of α-cyano-γ-butyrolactone with benzenediazonium chloride. V. V. Feofilaktov and A. S. Onishchenko (J. Gen. Chem. Russ., 1939, 9, 314—324, 325—329).—(A) α-Keto-γ-butyrolactone or γ-butyrolactone-α-carboxylic acid and aq. PhN_2Cl at 0° yield the phenylhydrazone (I) of α-keto-γ-butyrolactone, while γ-butyrolactone-α-carboxylate the product is α-benzeneazo-α-carbethoxy-γ-butyrolactone, m.p. 101—102°, hydrolysed by aq. NaOH to the phenylhydrazone of γ-hydroxy-α-ketobutyric acid. (I) is reduced to α-amino-γ-hydroxybutyric acid by Sn in aq. HCl, and to the phenylhydrazone of 2-hydroxy-3-ketotetrahydrofuran, m.p. 104—105°, by Al-Hg in H_2O.

(B) α-Cyano-γ-butyrolactone and PhN_2Cl at 0—3° yield α-benzeneazo-α-cyano-γ-butyrolactone, m.p. 101—102° (decomp.), which with NaOH in EtOH at room temp. gives the phenylhydrazone of γ-hydroxy-α-keto-butyronitrile (II), m.p. 168—170°, the hydrochloride, m.p. 147—148° (decomp.), of which yields (I) with boiling H_2O. (II) and H_2O at the b.p. give the phenylhydrazone of γ-hydroxy-α-ketobutyramide, m.p. 168—169°, converted into (I) by heating with dil. aq. HCl.

R. T.

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ONISHCHENKO, A. S., FEOFILAKTOV, V. V.

"Synthesis of Oxyproline (γ-Pyrrolidine-1-Carboxylic Acid)," Zhur. Obshch. Khim., 9, No. 4, 1939. Institute of Organic Chemistry, Academy of Sciences USSR, Laboratory of Academician N. Ya. Dem'yanov. Received 3 June 1938.

Report U-1517, 22 Oct 1951

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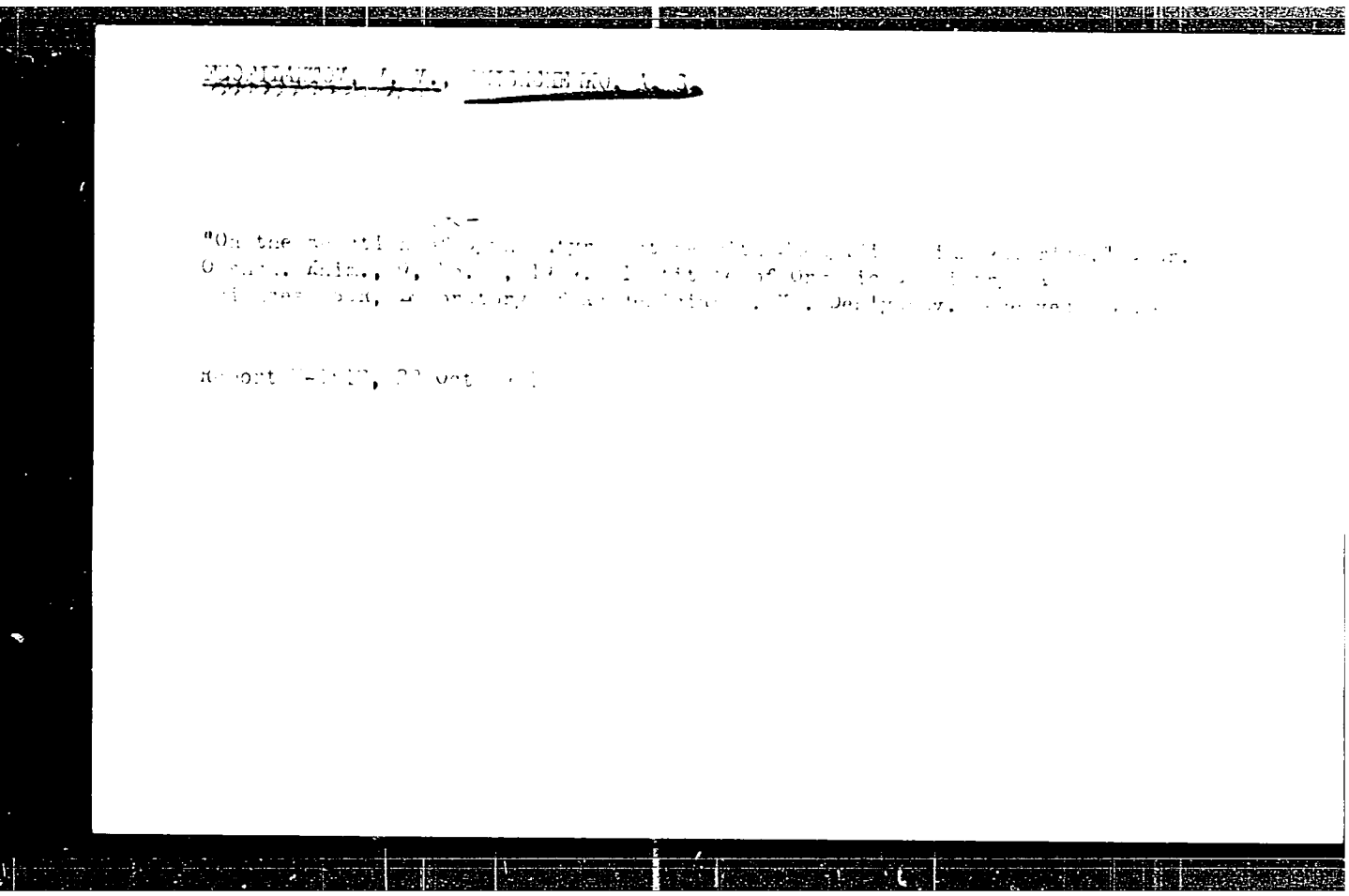

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ONISHCHENKO, A. S., FEOFILAKTOV, V. V.

"On the Action of Phenyldiazonium Chloride α -Replaced Butyrolactones," Zhur. Obshch. Khim., 9, No. 4, 1939. Institute of Organic Chemistry Academy of Sciences USSR, Laboratory of Academician N. Ya. Dem'yanov. Received 7 June 1938

[redacted] Report U-1517, 22 Oct 1951

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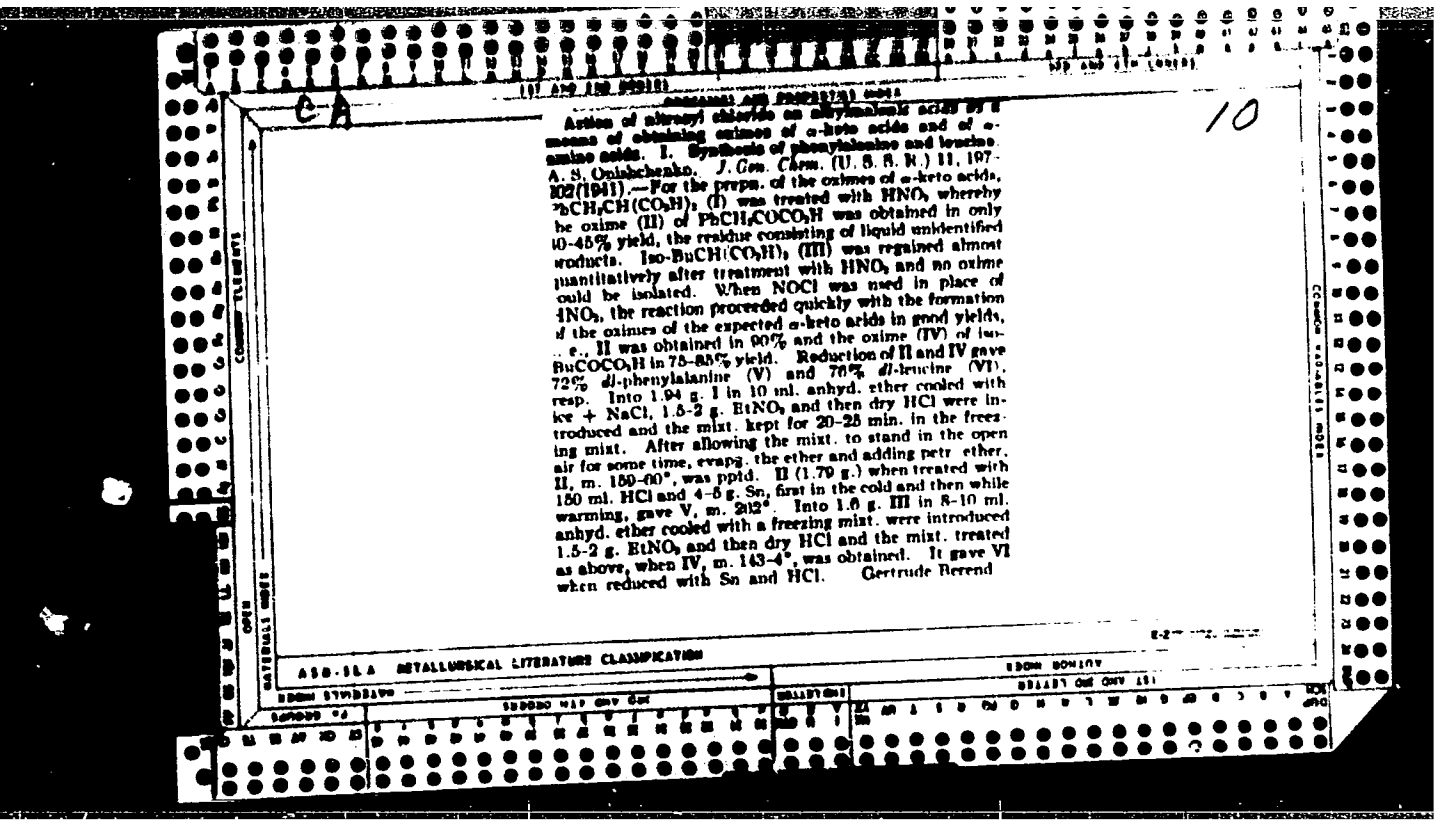

C A

10

Action of nitrosyl chloride on alkylmalonic acids as a means of obtaining oximes of α-keto acids and of α-amino acids. I. Synthesis of phenylalanine and leucine. A. S. Onishchenko. *J. Gen. Chem.* (U. S. S. R.) 11, 197-202(1941).—For the prepn. of the oximes of α-keto acids, $PhCH_2CH(CO_2H)_2$ (I) was treated with HNO_2 whereby the oxime (II) of $PhCH_2COCO_2H$ was obtained in only 40-45% yield, the residue consisting of liquid unidentified products. Iso-$BuCH(CO_2H)_2$ (III) was regained almost quantitatively after treatment with HNO_2 and no oxime could be isolated. When NOCl was used in place of HNO_2, the reaction proceeded quickly with the formation of the oximes of the expected α-keto acids in good yields, i. e., II was obtained in 90% and the oxime (IV) of iso-$BuCOCO_2H$ in 75–85% yield. Reduction of II and IV gave 72% *dl*-phenylalanine (V) and 76% *dl*-leucine (VI), resp. Into 1.94 g. I in 10 ml. anhyd. ether cooled with ice + NaCl, 1.5–2 g. $EtNO_2$ and then dry HCl were introduced and the mixt. kept for 20–25 min. in the freezing mixt. After allowing the mixt. to stand in the open air for some time, evapg. the ether and adding petr. ether, II, m. 159–60°, was ppid. II (1.79 g.) when treated with 150 ml. HCl and 4–5 g. Sn, first in the cold and then while warming, gave V, m. 282°. Into 1.6 g. III in 8–10 ml. anhyd. ether cooled with a freezing mixt. were introduced 1.5–2 g. $EtNO_2$ and then dry HCl and the mixt. treated as above, when IV, m. 143–4°, was obtained. It gave VI when reduced with Sn and HCl. Gertrude Berend

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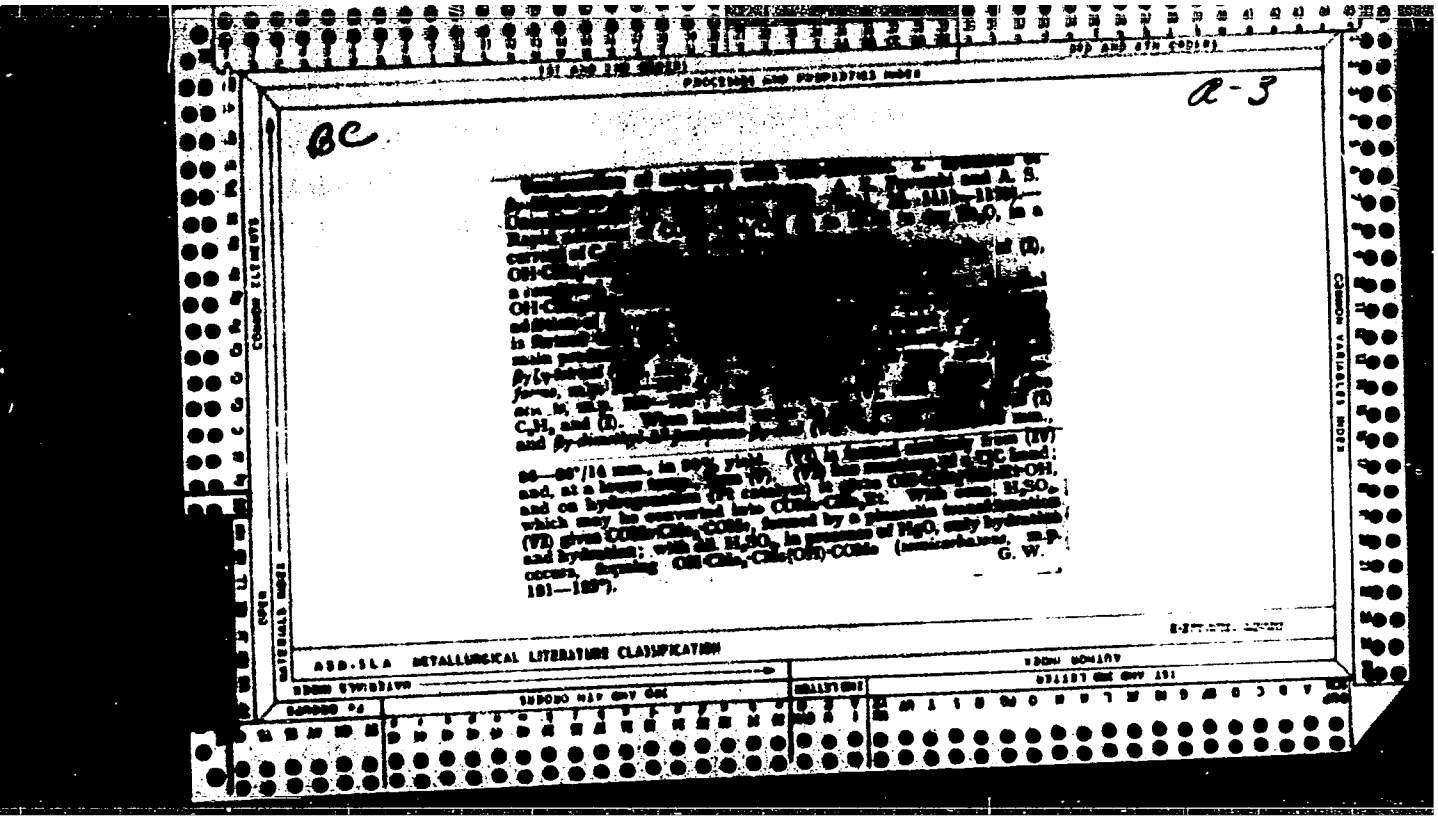

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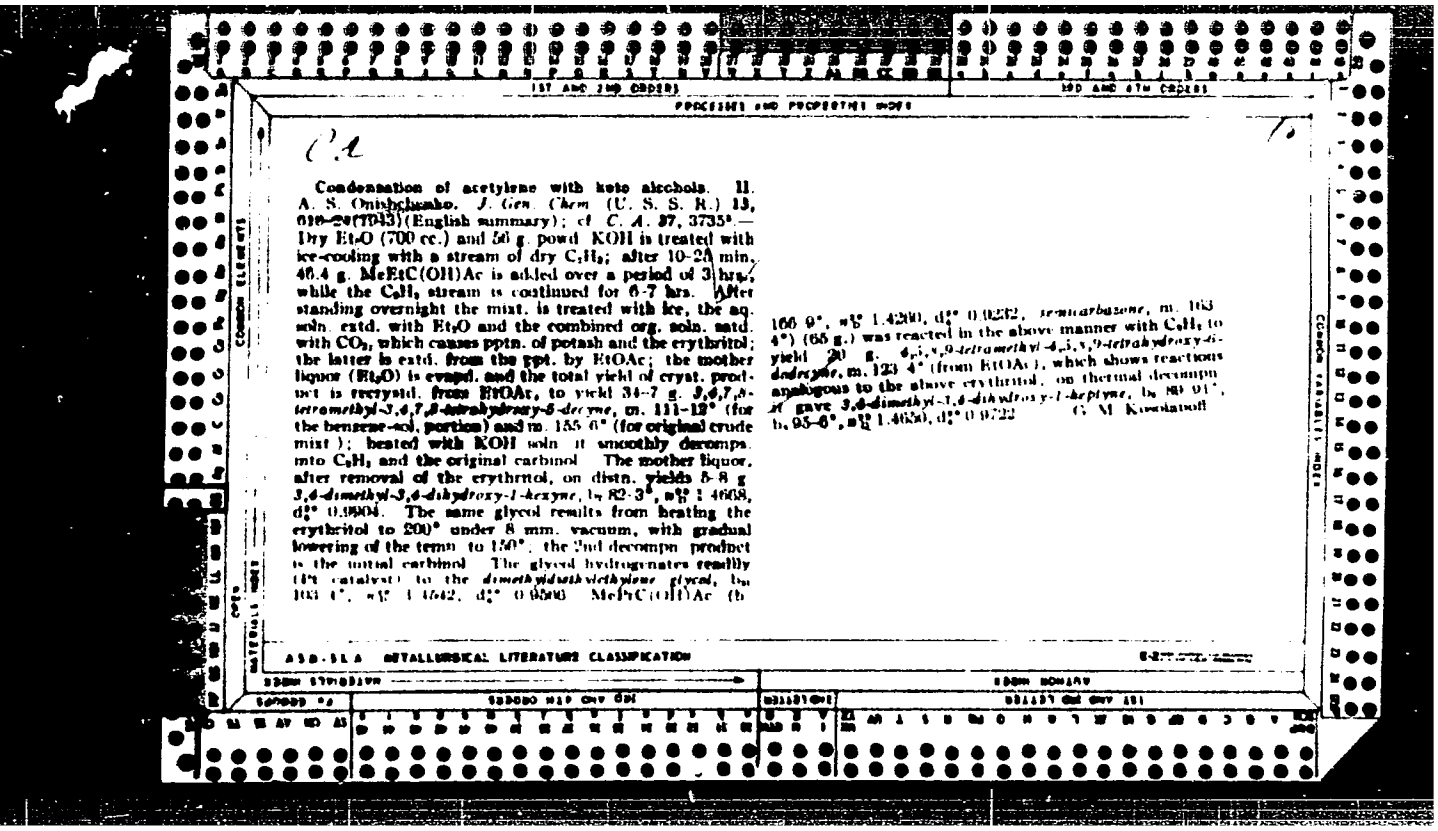

C.A.

Condensation of acetylene with keto alcohols. II. A. S. Onishchenko. *J. Gen. Chem.* (U. S. S. R.) 13, 610–20(1943)(English summary); cf. *C. A.* 37, 3735⁹.—Dry Et₂O (700 cc.) and 56 g. powd. KOH is treated with ice-cooling with a stream of dry C_2H_2; after 10–20 min. 46.4 g. MeEtC(OH)Ac is added over a period of 3 hrs., while the C_2H_2 stream is continued for 6–7 hrs. After standing overnight the mixt. is treated with ice, the aq. soln. extd. with Et₂O and the combined org. soln. satd. with CO_2, which causes pptn. of potash and the erythritol; the latter is extd. from the ppt. by EtOAc; the mother liquor (Et₂O) is evapd. and the total yield of cryst. product is recrystd. from EtOAc, to yield 34–7 g. *3,6,7,8-tetramethyl-3,6,7,8-tetrahydroxy-5-decyne*, m. 111–12° (for the benzene-sol. portion) and m. 155.6° (for original crude mixt.); heated with KOH soln. it smoothly decomps. into C_2H_2 and the original carbinol. The mother liquor, after removal of the erythritol, on distn. yields 5–8 g. *3,6-dimethyl-3,6-dihydroxy-1-hexyne*, b₁₀ 82–3°, n_D^{20} 1.4608, d_4^{20} 0.9904. The same glycol results from heating the erythritol to 200° under 8 mm. vacuum, with gradual lowering of the temp. to 150°, the 2nd decompn. product is the initial carbinol. The glycol hydrogenates readily (Pt catalyst) to the *dimethyldiethylhexane glycol*, b₁₀ 103.4°, n_D^{20} 1.4642, d_4^{20} 0.9500. MePrC(OH)Ac (b 166.9°, n_D^{20} 1.4290), d_4^{20} 0.9252, *semicarbazone*, m. 163 4°) (65 g.) was reacted in the above manner with C_2H_2 to yield 20 g. *4,5,8,9-tetramethyl-4,5,8,9-tetrahydroxy-6-dodecyne*, m. 123.4° (from EtOAc), which shows reactions analogous to the above erythritol; on thermal decompn. it gave *3,6-dimethyl-3,6-dihydroxy-1-heptyne*, b₁₀ 89.91°, b₁ 93–6°, n_D^{20} 1.4658), d_4^{20} 0.9722. G. M. Kosolapoff

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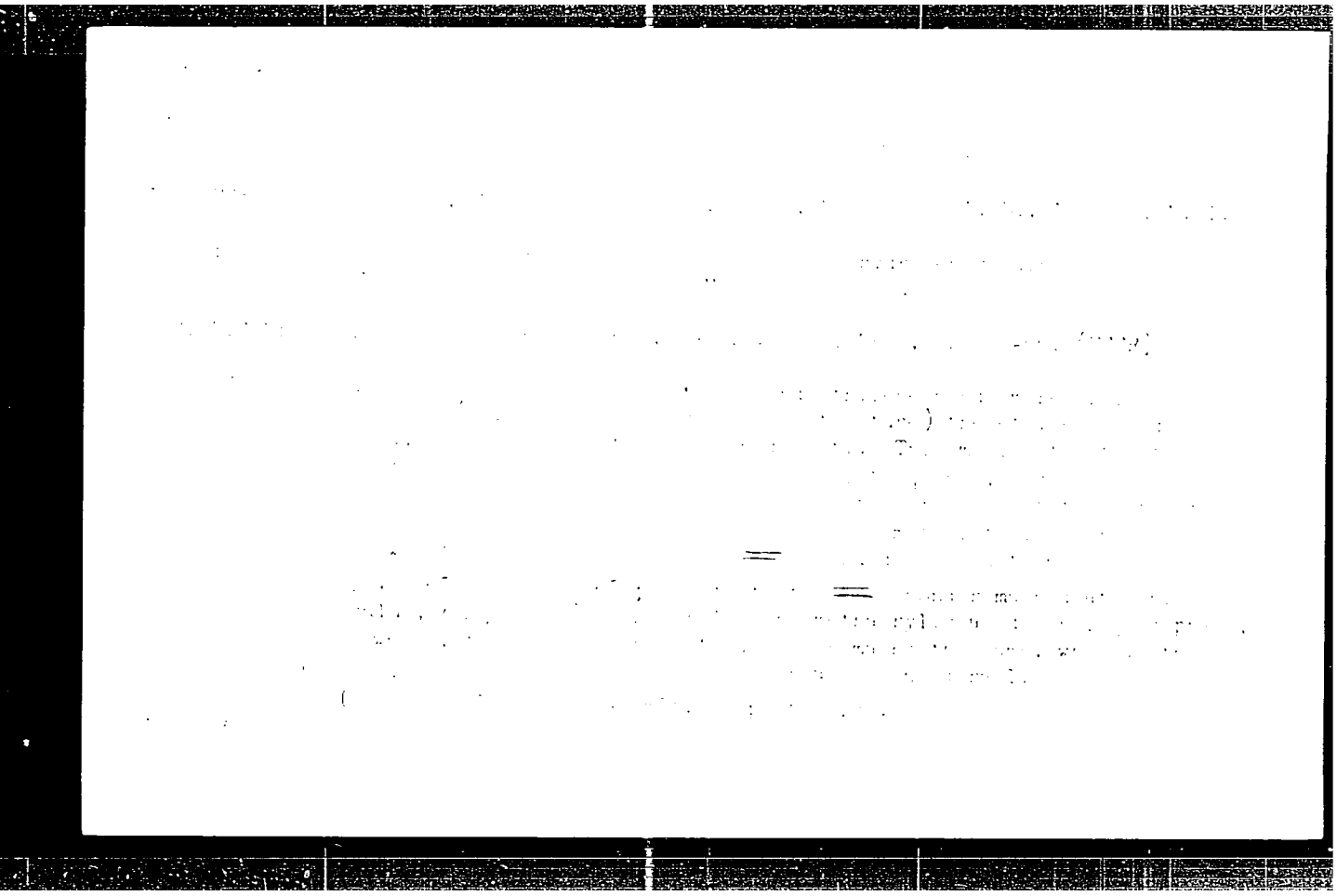

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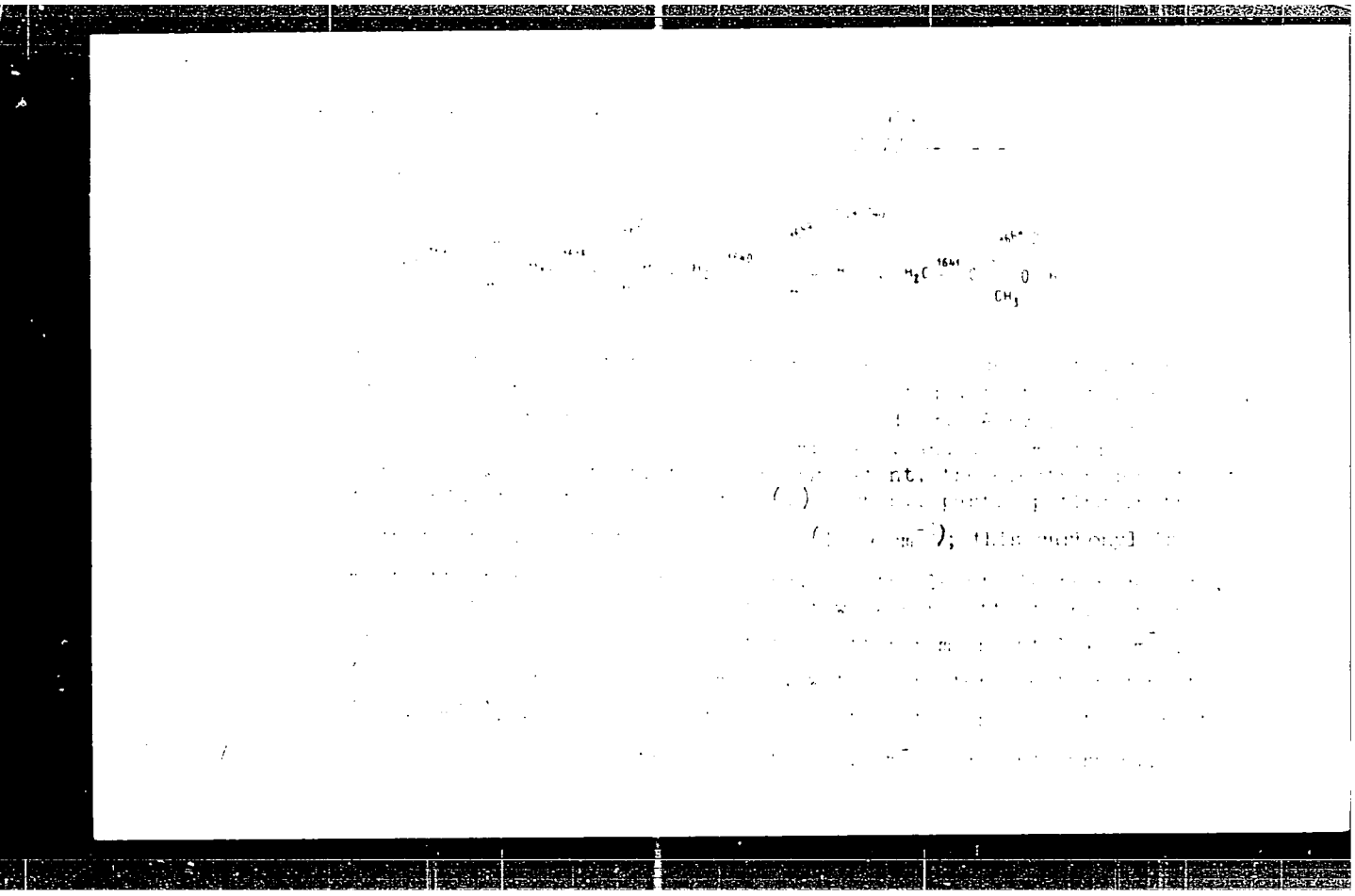

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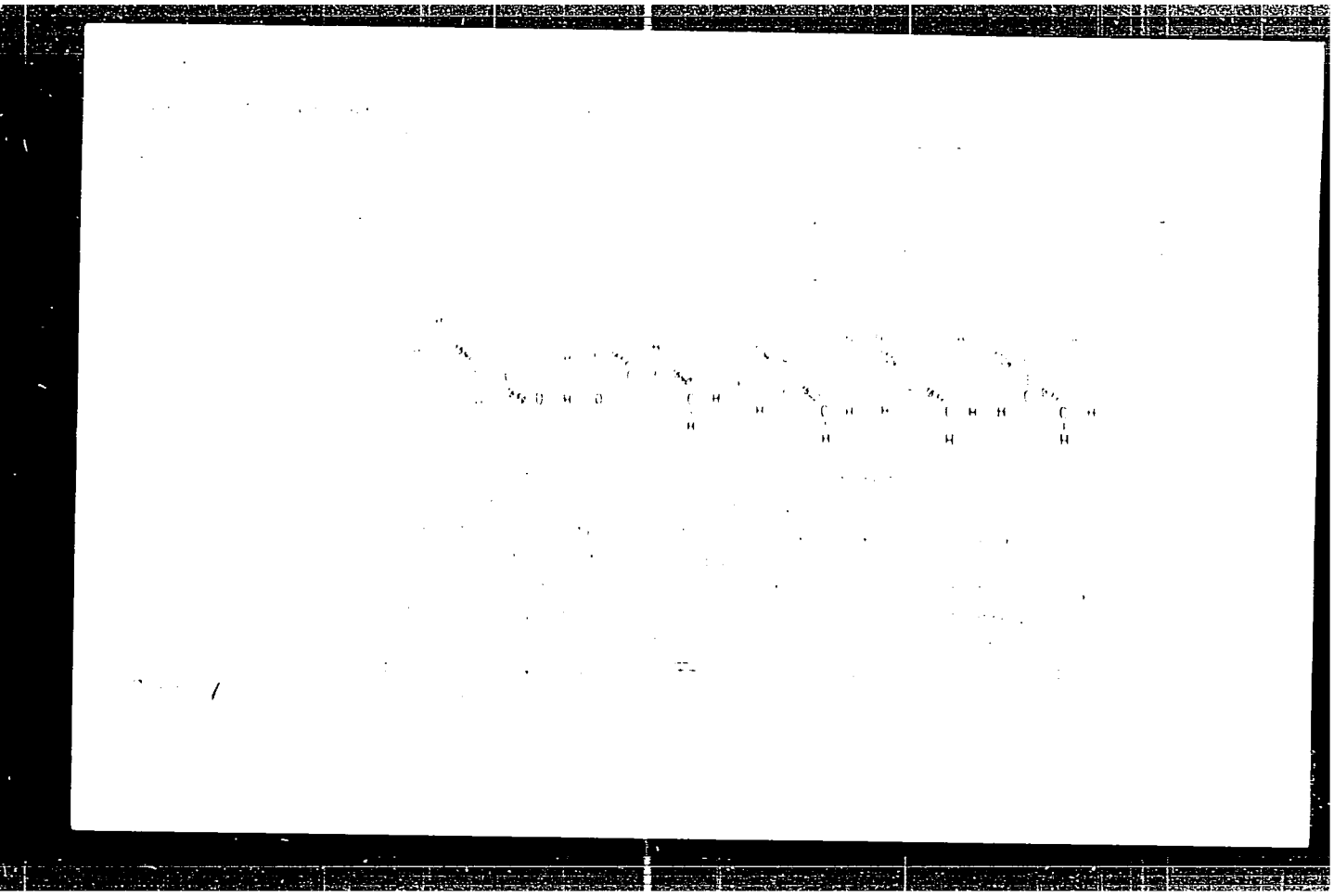

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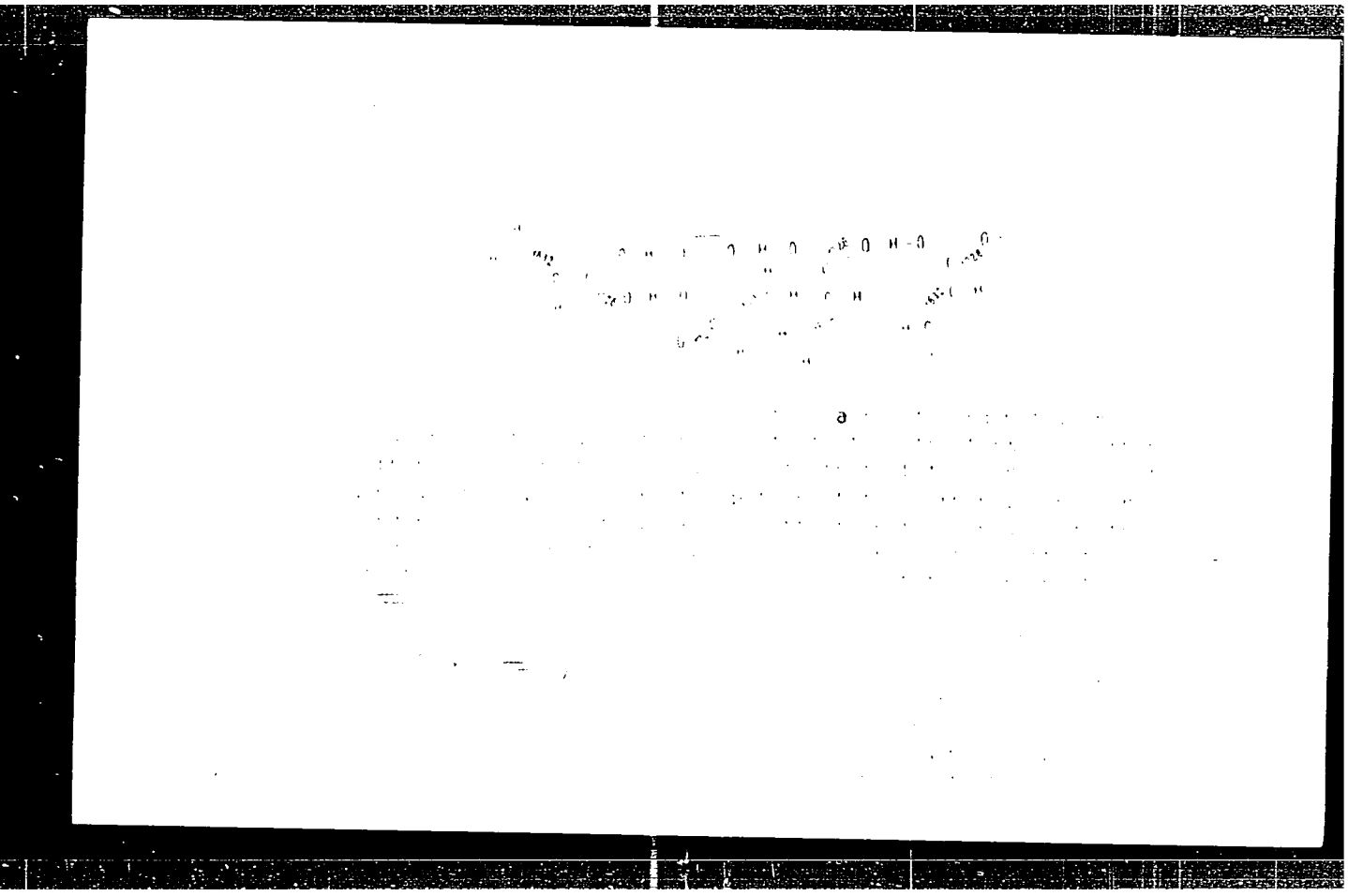

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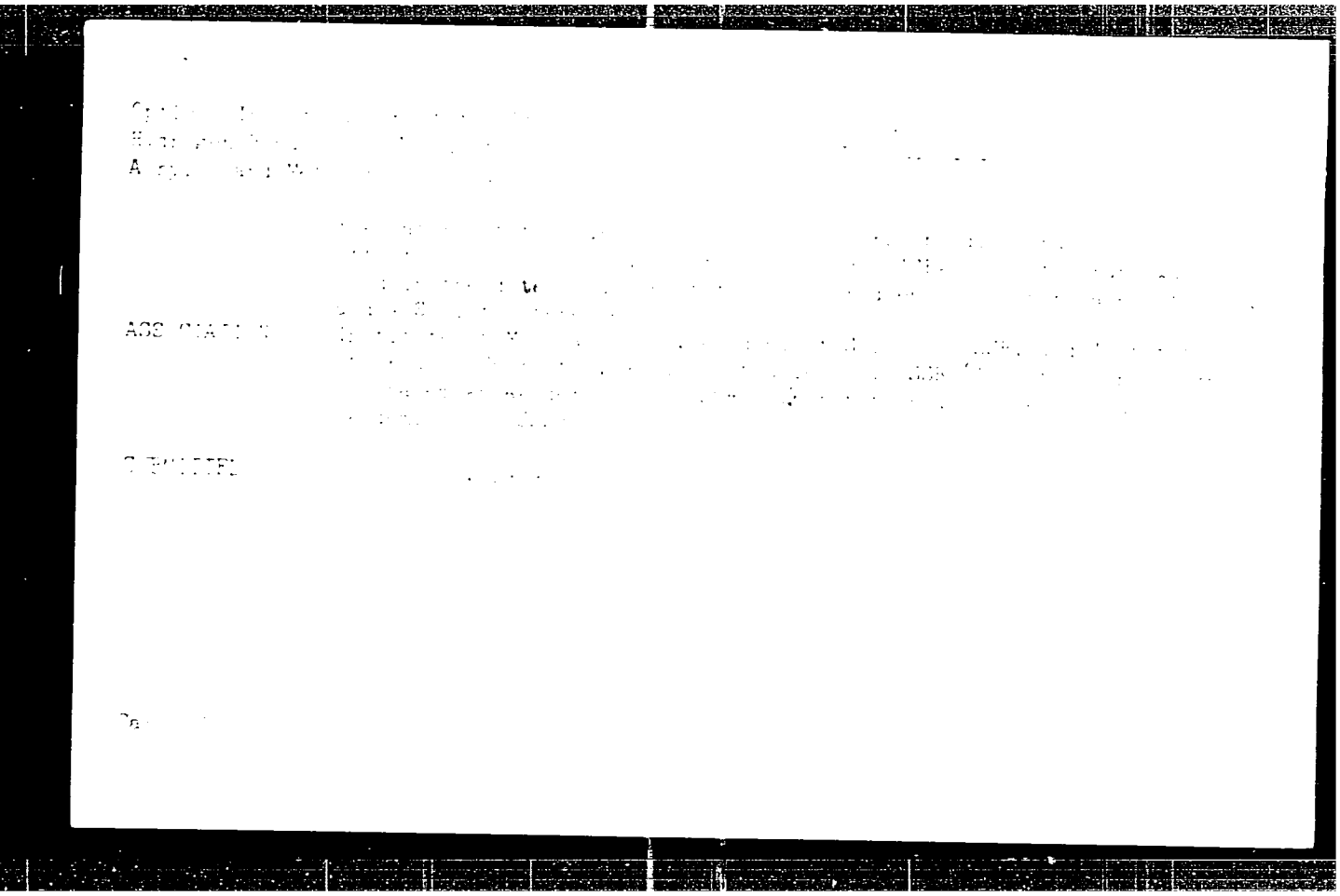

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

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S/020/60/132/01/36/064
B011/B126

AUTHORS: Onishchenko, A. S., Aronova, N. I.

TITLE: Cis- and Trans-1-halobutadienes and Their Relation to the Diene Synthesis

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 1, pp. 138-140

TEXT: Until now nothing was known about the geometric isomerism of 1-halobutadienes. According to several signs it can be concluded that they represent trans-isomers. The authors have established that 1-chloro-butadiene, which is produced by the dehydrochlorination of 1,4-dichlorobutene-2 (Refs. 2, 3, 16), represents a mixture of cis- and trans-isomers (about 9:1), which are inseparable. If this mixture is allowed to react with maleic anhydride (at 50-55°, 12 h long), then a normal product of diene synthesis is produced (yield 10%). The structure of the latter was proved by dehydrogenation to phthalic anhydride. From this it is quite certain that the mixture used contains about 10% of trans-1-chloro-butadiene, from which the adduct is produced. The cis-isomer that is left behind after the separation of the adduct does not react on diene synthesis. Even so, cis-1-chloro-butadiene is changed into the trans-

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Cis- and Trans-1-halobutadienes and Their Relation to the Diene Synthesis

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B011/B126

isomer relatively easily in the presence of iodine. An equilibrium mixture of the cis- and trans-forms is produced by this, just as in the case of cis-piperylene (Ref. 17). The Raman spectra of the isomeric mixture of 1-chloro-butadiene-1,3 were taken and studied (Ref. 18). Analogously 1-bromine-butadiene-1,3 is a mixture of cis- and trans-isomers. The cis-form was also isomerized to a trans-form by the effect of iodine. It forms an adduct with maleic anhydride. HBr was already split off from this adduct at $\sim 70^{\circ}$ and after 100 h. A molecule of maleic anhydride was added so that a bis-anhydride $C_{12}H_8O_6$ was formed. It has a melting point of 364° and is hydrolyzed as an anhydride of a tetra-basic acid with alkali. There are 19 references, 7 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

PRESENTED: January 8, 1960, by B. A. Kazanskiy, Academician

SUBMITTED: January 2, 1960

Card 2/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

S/020/60/132/03/25 Or
B011/B008

AUTHORS: Batuyev, M. I Onishchenko, A S., Matveyeva, A D.
Aronova, N I

TITLE: Optical Investigation of Geometric and Rotatory Isomerism of Some Dienes

PERIODICAL. Doklady Akademii nauk SSSR, 1960, Vol 132, No 3, pp. 581-584

TEXT. The authors state on the basis of Refs 1-4 that the flat trans-form (II) is absolutely prevalent up to 95% in 1,3-butadiene at room temperature. The cis-form (I) possesses no center of symmetry At room temperature it is only admixed to the trans-form These statements are confirmed chemically 1,3-butadiene enters into the Diels-Alder synthesis only slowly at room temperature. This reaction takes place much more easily at a temperature rise which corresponds to the transition of the trans-form into the cis-form Rotatory isomerism is also possible in the mono- and di-substituted 1,3-butadienes investi

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gated by the authors. In some cases, however, it is superimposed to the geometric isomerism, as for example in 1-chloro-1,3-butadiene and piperylene (1,3-pentadiene). On the basis of such a superimposition the authors presume the existence of the following 4 isomers (III), (IV), (V) and (VI) (see Scheme). The trans-forms (III) and (V) predominate here too at room temperature in the liquid phase. They possess no center of symmetry. The symmetric as well as the asymmetric frequencies of their double bonds must therefore appear in their Raman- and IR-absorption spectra. The frequencies must be higher in (V) than in (III). All this was actually established by the authors. They state that the oscillation frequencies of the double bonds of the trans-configurations are higher than those of the cis-configurations. The chemical data are in agreement with these statements. Thus, the cis-configurations of the trans-form (III) do not enter into the Diels Alder synthesis at $X = Cl, CH_3$ even at a temperature rise, since in this case (III) can only proceed into the cis-configuration of the cis-form (IV), the formation of which is, however, limited sterically. The trans-configurations of the trans-form (V), on the other hand, enter into the Diels-Alder synthesis at temperature rise. They proceed thereby to the trans-

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Optical Investigation of Geometric and Rotatory Isomerism of Some Dienes

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B011/B008

configuration of the flat cis form (VI) which favors the said rea[illegible]. The authors presume 2 flat forms for chloroprene and isoprene (a trans form (VII) and a cis-form (VIII) (X = Cl, CH_3) exactly as with 2,3-dimethyl-butadiene (IX) and (X). Of these forms, (VII) and (IX) are prevalent at room temperature. The authors discuss the correlations of these forms with the Raman- and IR-spectra (Table 2) which were recorded on the Soviet spectrograph of type [illegible] (ISP 51) and Hilger spectrograph of type E 6'2 (Ye-612). The physical properties of the substances investigated are mentioned finally. There are 1 table and 8 references 4 of which are Soviet

ASSOCIATION. Institut goryuchikh iskopayemykh Akademii nauk (Institute of Combustible Minerals, AS USSR) Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy, AS USSR)

PRESENTED. December 2, 1959 by B. A. Arbuzov, Academician

SUBMITTED. December 7, 1959

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

ONISHCHENKO, Andrey Sergeyevich; KUCHEROV, V.F., doktor khim.nauk, otv. red.; POVAROV, L.S., red.; GUBIN, S.P., tekhn. red.

[Diene synthesis] Dienovyi sintez. Moskva, Izd-vo AN SSSR, 1963. 649 p. (MIRA 16:10)
(Chemistry, Organic--Synthesis)
(Unsaturated compounds)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238

KUCHEROV, V.F.; SHABANOV, A.L.; ONISHCHENKO, A.S.

Stereochemistry of cyclic compounds. Report No.53: Stereochemistry of lactonization of 4,5-dibromocyclohexane-cis-1,2-dicarboxylic acid and its monoester. Izv.AN SSSR Otd.khim.nauk no.5:844-852 My '63. (MIRA 16:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Cyclohexanedicarboxylic acid) (Stereochemistry)

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ONISHCHENKO, A.S.; SHABANOV, A.L.; KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Report No.54: Stereochemistry of hypobromous acid addition to sodium salts of cis- Δ^4 -cyclohexene-1,2-dicarboxylic acid and its monoesters. Izv.AN SSSR Otd.khim.nauk no.5:852-856 My '63. (MIRA 16:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Cyclohexenedicarboxylic acid) (Hypobromous acid) (Stereochemistry)

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SHABANOV, A.L., ONISHCHENKO, A.S., KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Report No.62: Stereochemistry of oxidation of 4-methyl-Δ^4-cyclohexene-1,2-dicarboxylic acid anhydride. Izv. AN SSSR Ser.khim. no.10:1790-1795 O '63. (MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

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SHABANOV, A.L., ONISHCHENKO, A.S., KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Report No.63: Stereochemistry of bromination of 4-methyl-Δ^4-cis-cyclohexene-1,2-dicarboxylic acid and its anhydride. Izv. AN SSSR Ser.khim. no.10:1795-1801 O '63. (MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

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KUCHEROV, V.F.; ONISHCHENKO, A.S.; RUDENKO, B.A.; ELIBERINA, Ye.A.

Influence of the temperature on the structural directivity of diene synthesis. Dokl. AN SSSR 158 no.2:397-399 S '64.

(MIRA 17:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Predstavleno akademikom B.A.Kazanskim.

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ONISHCHENKO, A.V., inzh.

Inserting point by the method [illegible]
Izv.vys.uchebn. av.;g [illegible] 'ch. [illegible]

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znamenitogo [illegible] institut imeni Artema. Rekomendovana kafedroy marksheyderskogo dela.

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ONISHCHENKO, B., inzh.

Forest meadows and pastures. Nauka i pered. op. v sel'khoz. 8 no.1:27-28 Ja '58. (MIRA 11:2)
(Pastures and meadows)

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ONISHCHENKO, B.A.

New data on the structure and age of the Bu[illegible] in the Cherskiy mountain system. Geol. i geofiz. n[illegible] (MIRA 18 [illegible])

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN [illegible]R, Novosibirsk.

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ONISHCHENKO, B.A.

New materials on the Quaternary stratigraphy of the Cherskiy mountain system. Dokl. AN SSSR 162 no.1:161-163 My '65. (MIRA 18:5)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR.
Submitted January 13, 1965.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

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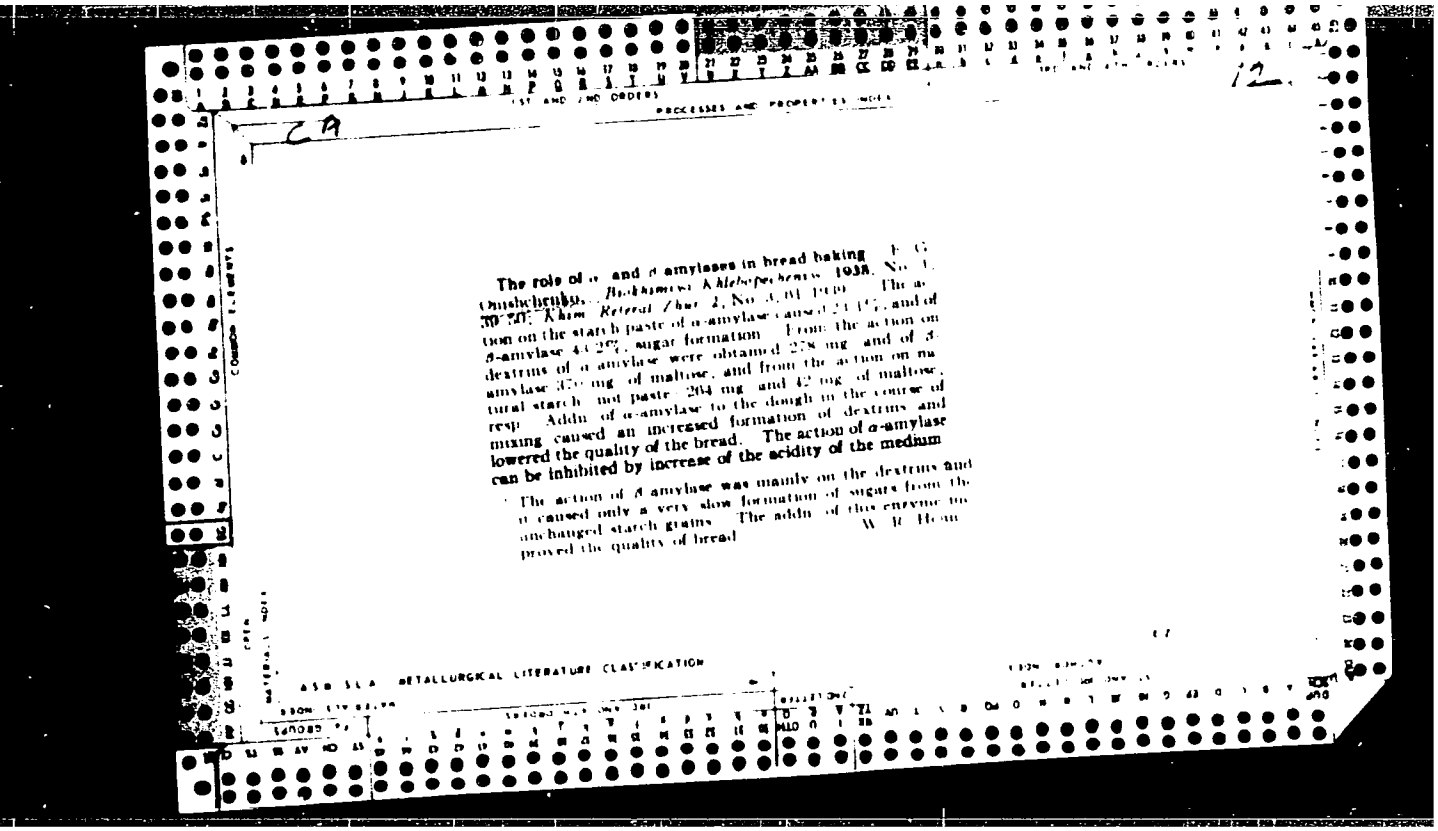
CA



The role of α- and β-amylases in bread baking. F. G. Onishchenko. *Biokhimiya Khlebopechenia* 1938, No. 1, 39-50; *Khim. Referat. Zhur.* 2, No. 3, 61 1939. The action on the starch paste of α-amylase caused 21.1%, and of β-amylase 43.2%, sugar formation. From the action on dextrins of α-amylase were obtained 278 mg. and of β-amylase 370 mg. of maltose, and from the action on natural starch not paste 264 mg. and 42 mg. of maltose, resp. Addn. of α-amylase to the dough in the course of mixing caused an increased formation of dextrins and lowered the quality of the bread. The action of α-amylase can be inhibited by increase of the acidity of the medium.

The action of β-amylase was mainly on the dextrins and it caused only a very slow formation of sugars from the unchanged starch grains. The addn. of this enzyme improved the quality of bread. W. R. Hein

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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