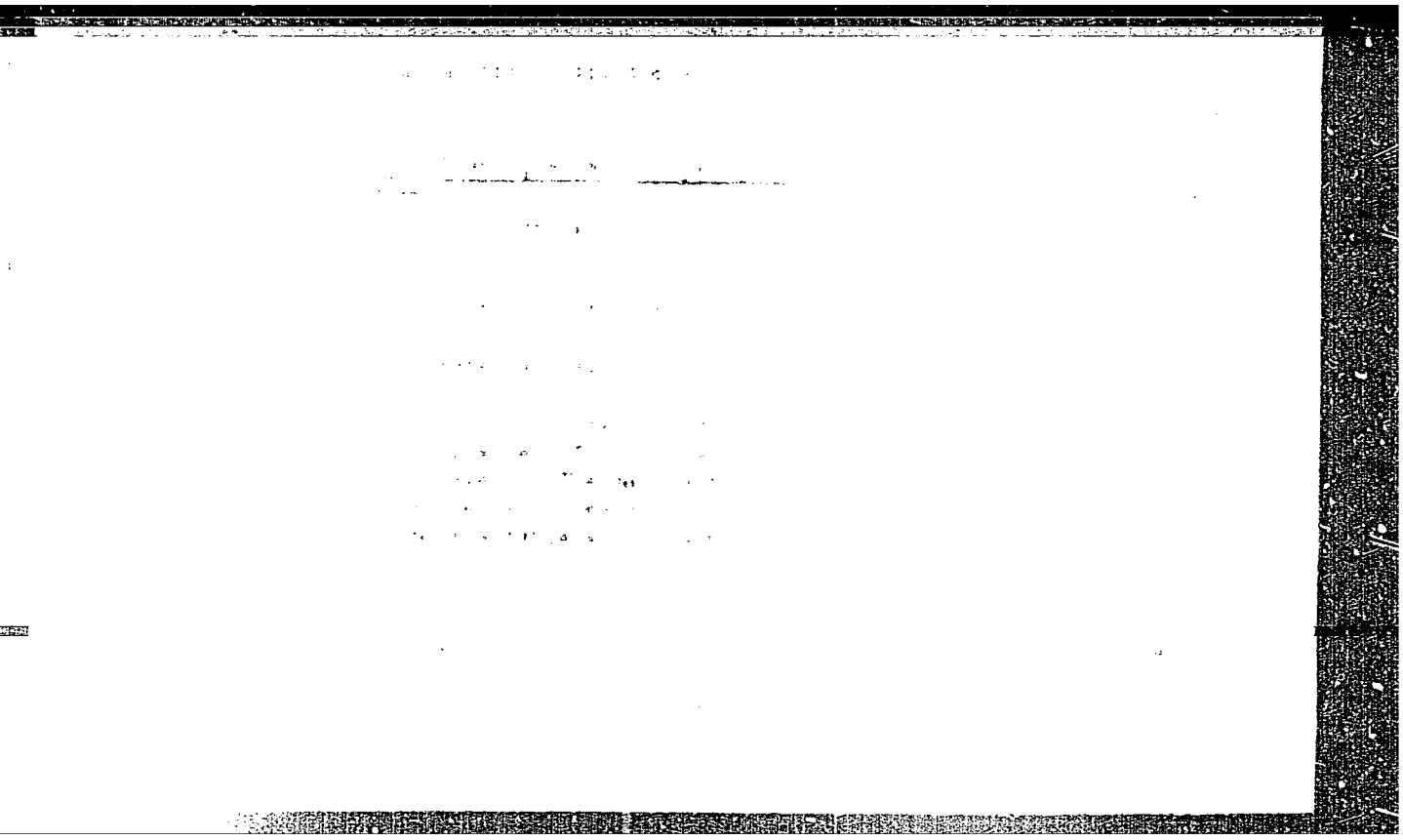


APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411420020-7"

PETROV, B.N., akademik; YEMEL'YANOV, S.V.; DUDIN, Ye.B.

Selection of criteria for the synthesis of combination servosystems of variable structure. Dokl. AN SSSR 153 no.6: 1280-1283 D '63. (MIRA 17:1)

BR

ACCESSION NR: AP4028984 S/0280/64/000/002/0129/0139

AUTHOR: Dudin, Ya. B. (Moscow)

TITLE: Switching in combined variable-structure servo systems

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 2, 1964, 129-139

TOPIC TAGS: automatic control, variable structure automatic control, switched automatic control, servo system, variable structure servo system

ABSTRACT: A method for selecting the switching hyperplane is suggested; a second-order plant is used as an example. The selection of the existence range of sliding conditions in the switching hyperplane may be made depending on either: (1) the position of the hyperplane in the phase space and closed-cycle parameters or (2) the form of the controlling variable and open-cycle parameters. The switching line is considered for the cases of a stable, unstable, and repulsive-force second-order plant. Orig. art. has: 4 figures and 48 formulas.

ASSOCIATION: none

SUBMITTED: 10Jul63 DATE ACQ: 30Apr64 ENCL: 00

SUB CODE: IE NO REF SOV: 005 OTHER: 000

Card 1/1

DUDINA, D. G.

Dudina, D. G. "A case of arthropathic psoriasis with verrucose-papillomatous growths and injury to the mucouse" Voprosy dermato-venerologii, Vol. IV, 1948, p. 93-100, --Bibliog: 8 items.

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

DUDINA, D. G.

Ladyzhenskaya, O. I. and Dudina, D. G. "On the significance of the Maksimov reaction under conditions of the operation of the 'venotryads'", Voprosy dermato-venerologii, Vol. IV, 1948, p. 310-11.

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

KOCHETKOV, N.K.; BELYAYEV, V.F.; DUDINA, G.S.

Ketovinilation of nitrocyclohexane. Zhur.ob.khim. 32 no.6:1785-1789 Je '62. (MIRA 15:6)

1. Belorusskiy gosudarstvennyy universitet.
(Cyclohexane) (Vinylation)

S/250/63/007/002/006/008
A059/A126

AUTHORS: Naumova, S. F., Tsykalo, L. G., Dudina, G. S.

TITLE: The kinetics of thermal polymerization of cyclohexadiene-1,3 at 130 to 160°C

PERIODICAL: Doklady Akademii nauk BSSR, v. 7, no. 2, 1963, 99 - 102

TEXT: The separate amounts of dimers, trimers, and higher polymers formed in the course of thermal polymerization of cyclohexadiene at 130 to 160°C, and during thermal polymerization in benzene and cyclohexadiene at 160°C for 50 hours have been determined. The experimental methods used have been described before (Sb. nauchnykh rabot IFOKh AN BSSR (Collection of Scientific Papers of the IFOKh, AS BSSR), v. 9, 1961, p. 71). The molecular weights of the solid polymer decrease with increasing temperature and depend only little on the time of reaction. The portion of the dimer (β) at constant temperature is independent of the initial concentration of cyclohexadiene-1,3 which shows that the intermediate product forming in one of the first stages of the reaction undergoes monomolecular reaction with the probability ratio of conversion of this intermediate to yield the

Card 1/3

The kinetics of thermal polymerization of...

dimer or a higher polymer remaining constant. One of the stages of the reaction should be therefore

$$C_{12}H_{16}^{*} \nearrow C_{12}H_{16}$$
$$\searrow C_{12}H_{16}^{**}$$

where $C_{12}H_{16}^{*}$ is the active dimer intermediate, $C_{12}H_{16}$ the inactive dimer (extracted product), and $C_{12}H_{16}^{**}$ the new active intermediate capable of adding a new monomer molecule. The most satisfactory results were obtained with the formulas:

$$\alpha_{dimer} = KC_o^{1/2} \quad (1)$$

or

$$[a]_{dimer} = KC_o^{3/2} \quad (2)$$

where α is the portion of dimerized cyclohexadiene-1,3, and [a] the dimer concentration obtained after 50 hours of polymerization. Hence, no monomer products (including benzene) are formed in the thermal polymerization of cyclohexadiene-1,3 at temperatures of up to 160°C following formula (2) which cannot be derived from the previously assumed polymerization mechanisms of this substance.

The kinetics of thermal polymerization of...

S/250/63/007/002/006/008
A059/A126

There are 1 figure and 4 tables.

ASSOCIATION: Institut fiziko-organicheskoy khimii AN BSSR (Institute of Physical and Organic Chemistry of the AS BSSR)

PRESENTED: by B. V. Yerofeyev, Academician of the AS BSSR

SUBMITTED: June 26, 1962

Card 3/3

DUDINA, K. A.

"Spectrophotometric Investigation of the Darkening Variable RZ Cassiopeiae." Sub 14 Jun 51, Moscow Order of Lenin State U imeni M. V. Lomonosov

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

S/190/62/004/006/013/026
B101/B110

AUTHORS: Dudina, L. A., Yenikolopyan, N. S.

TITLE: Initiating mechanism in the thermal degradation of polymers

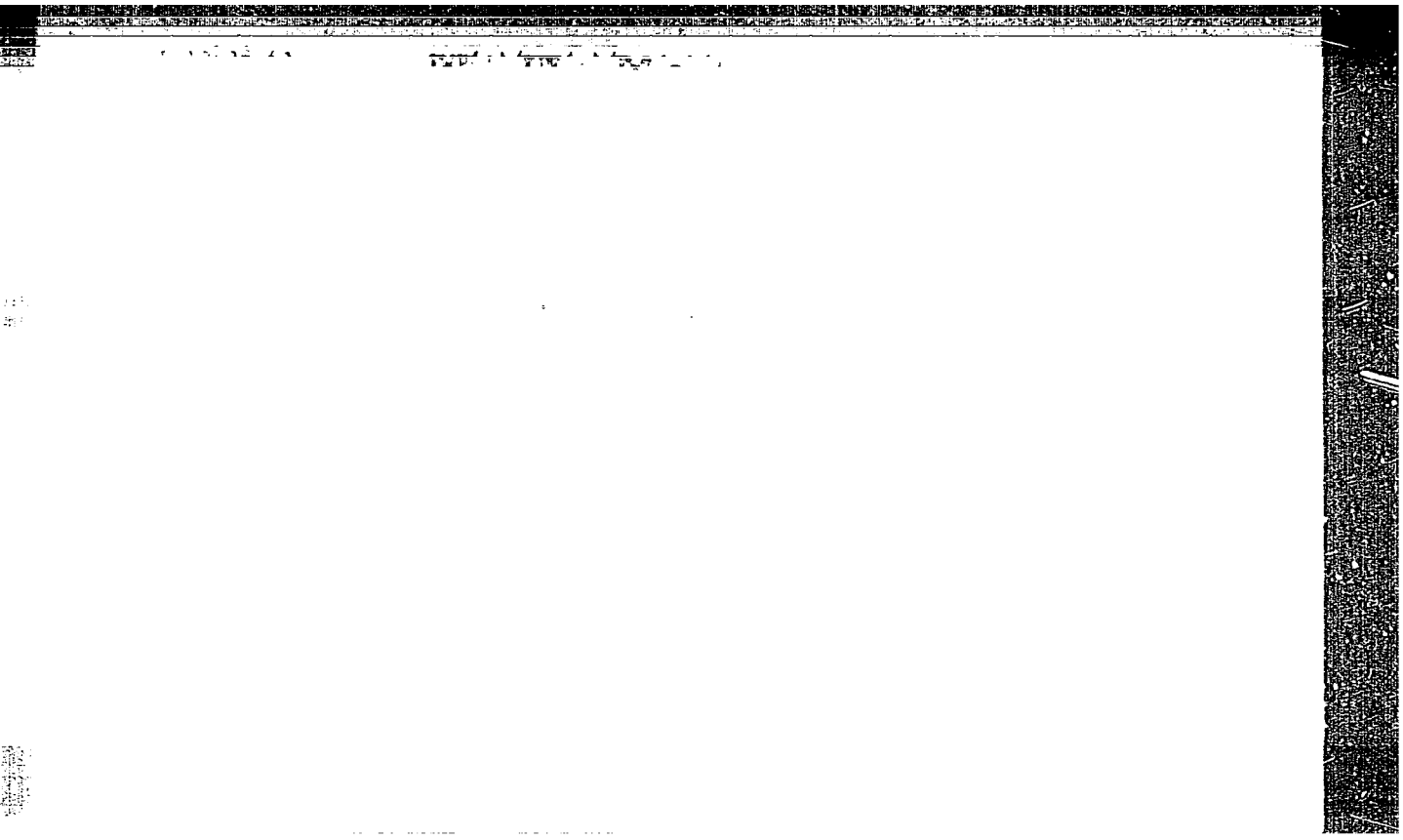
PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962, 869-875

TEXT: A kinetic method is developed for judging whether the active centers in the thermal degradation of polymers are initiated by the "law of chance" or by the "law of terminal groups". For the degradation of the polymer to the monomer the following is written: $dM/dt = Kg$ (M = amount of monomer formed, K = effective constant of the reaction rate, g = amount of initial polymer). $K \sim N_0^n$ (N_0 = degree of polymerization). The method suggested is based on determining the value and sign of n. According to R. Simha, L. A. Wall, in whose paper (J. Polymer Sci., 6, 39, 1951), the example of chain destruction is thoroughly discussed, the form of the function $K = f(N_0)$ is determined as dependent on the course of reaction, and the following is found: $n \leq 0$ for initiation by the law of terminal groups, $n \gg 0$ for initiation by the "law of chance". The

uncertainty in the case n = 0 can be eliminated by adding an inhibitor. The kinetics of degradation of polyformaldehyde (at 222°C in N_2) and of polyformaldehyde treated with acetic anhydride was investigated experimentally. In both cases, a linear decrease of K was observed with increasing N_0 (increasing η) according to initiation by the law of terminal groups. There are 2 figures and 2 tables. The most important English-language reference is: H. H. G. Jellinek, Degradation of vinyl polymers, N. Y., 1955.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AS USSR)

SUBMITTED: April 8, 1961



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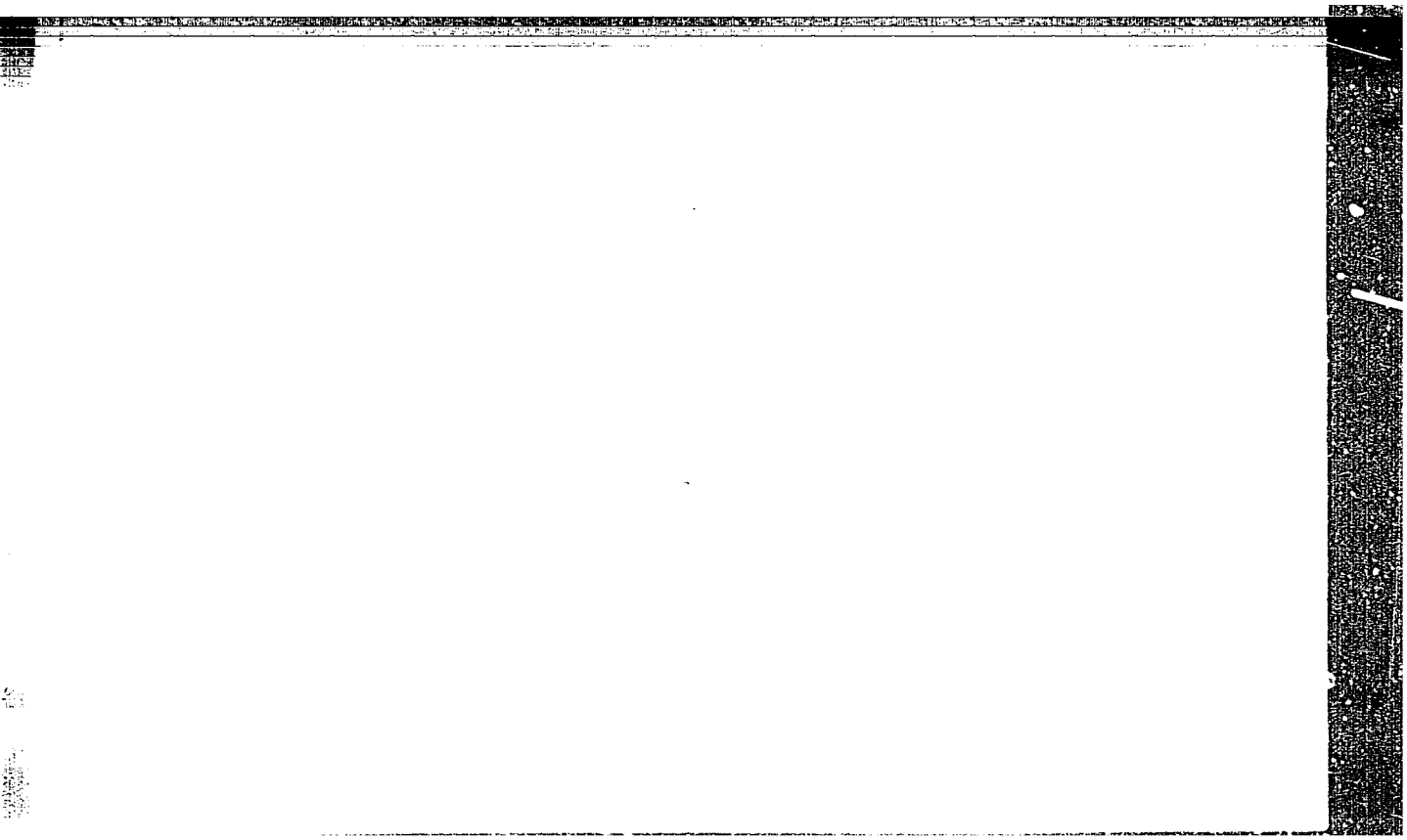

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411420020-7"

ACCESSION NR: AP3003787 S/0190/63/005/007/0986/0993

AUTHORS: Dudina, L. A.; Yenikolopyan, N. S.

TITLE: Thermal and thermooxidative degradation of polyformaldehyde. 2. On temperature dependence of thermal degradation rate

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 5, no. 7, 1963, 986-993

TOPIC TAGS: thermal dissociation, dissociation rate, unstabilized polyformaldehyde, activation energy, true activation energy, chemical reaction, reaction rate constant

ABSTRACT: The thermal dissociation of polymers upon heating was investigated, using the method described by the authors in (Vysokomolek. soyed. 5, 861, 1963). The polymer specimen was in the form of a tablet with heat being applied from its base. At high temperatures (above 260C) the dissociation rate of unstabilized polyformaldehyde (PFA) was found to be independant of the temperature. In the temperature range 190-260C the dissociation activation energy of PFA in the 0.02 gm specimen yielded a value of 17 ± 1 kcal/mol, and for the 0.05 gm specimen, 13 ± 1 kcal/mol. An analytic method has been developed to determine the true activation

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ACCESSION NR: AP3003787

energy in the chemical reaction when the limiting factor in the heat treatment is the internal conductivity of the specimen. The effective reaction rate constant is expressed by

$$k_{эфф} = \frac{S}{\xi}\sqrt{\frac{2k_0\rho\lambda}{Q}\frac{E}{R}}\sum_{n=0}^{\infty}(-1)^{n+1}\frac{n!}{(E/RT_s)^{n+1}}e^{-E/RT_s}$$

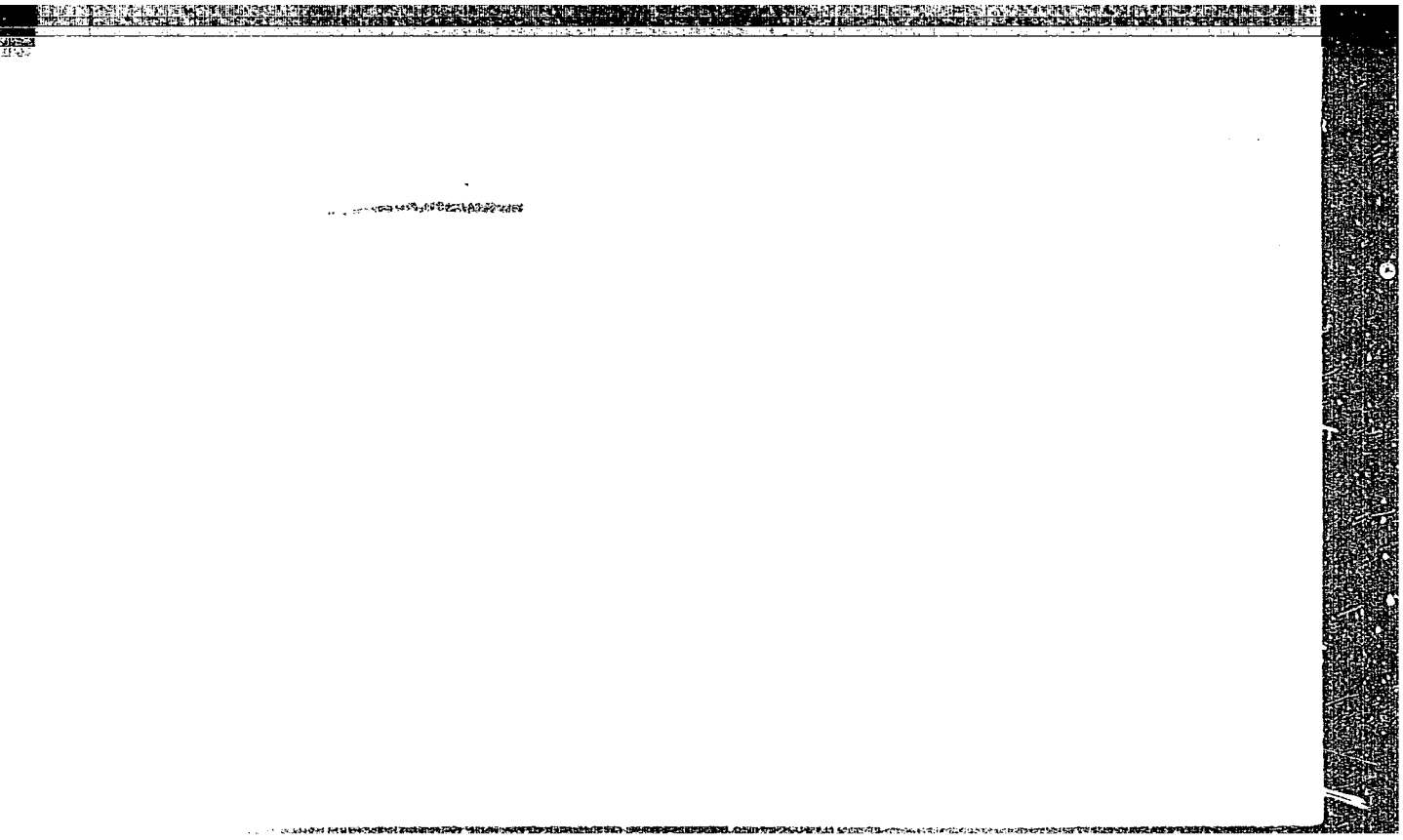
where λ - thermal conductivity, ρ - density, S - cross-sectional area, E - activation energy, k_0 - constant in heat source term

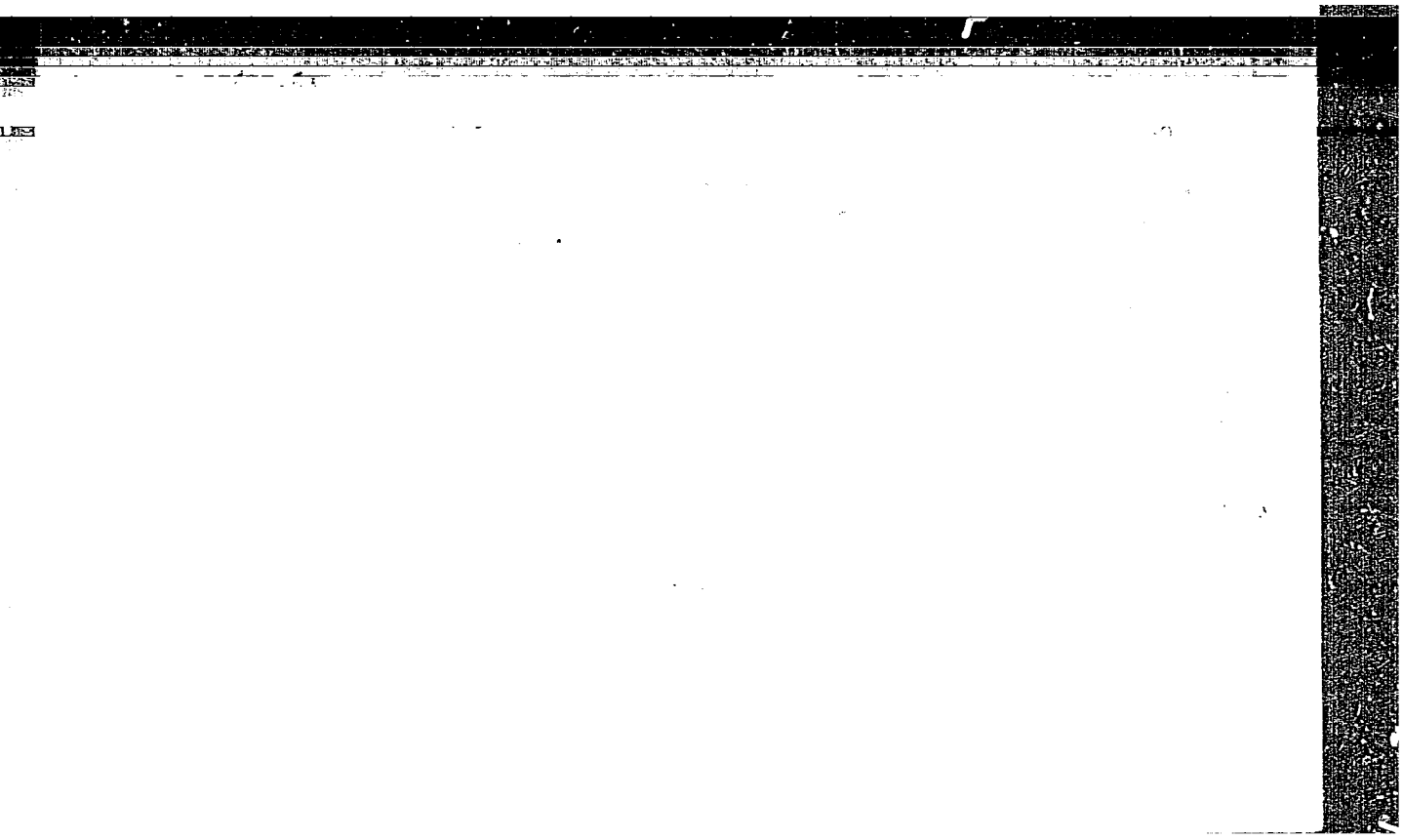
$$q' = -Qk_0\rho e^{-E/RT}.$$

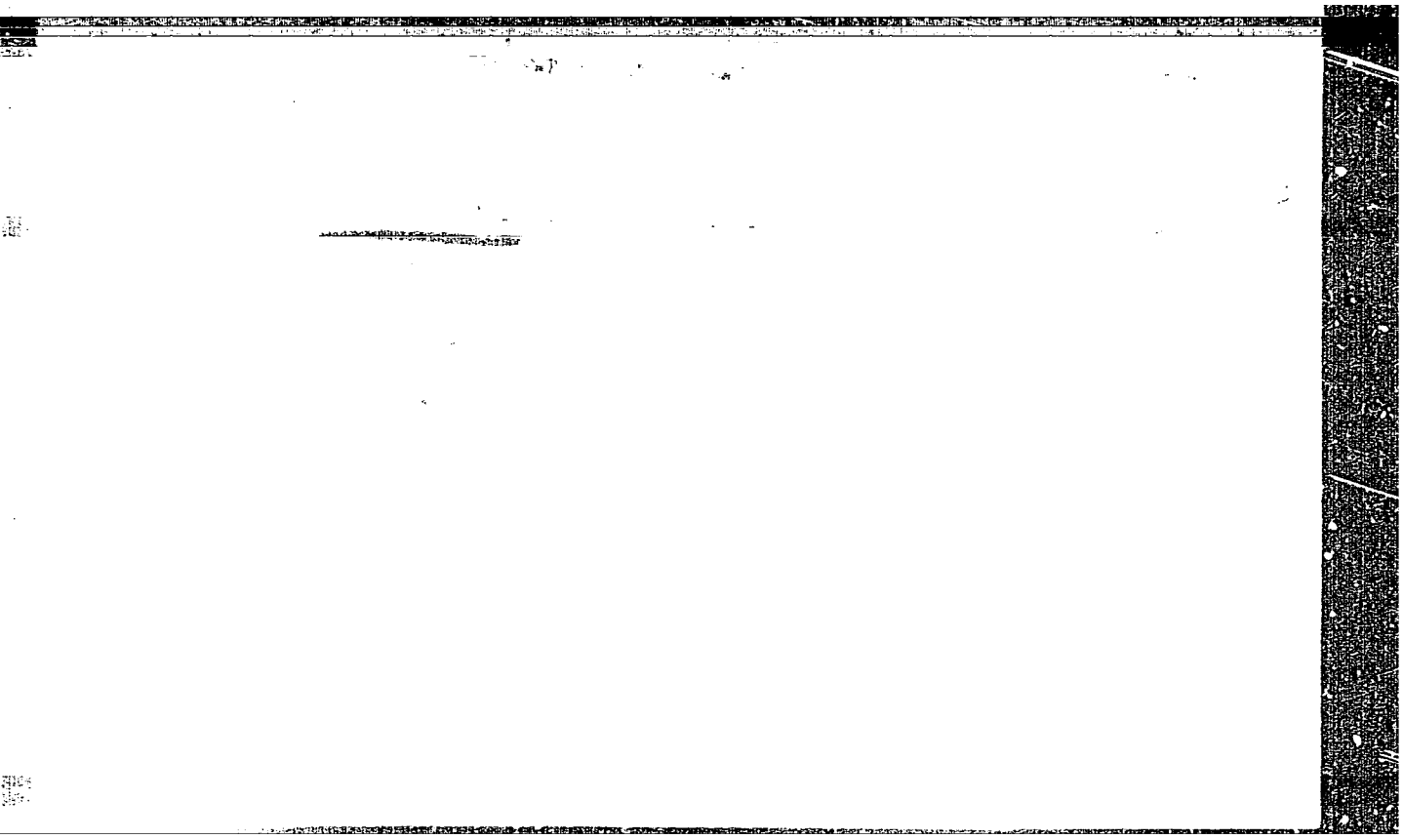
The effective activation rate constant is then plotted against the inverse specimen weight. It is shown that when the apparent rate constant is inversely proportional to the sample, the true activation energy is twice that of the experimental value. The activation energy of the stabilized polymer terminated with the hydroxyl group yields a value of 26 kcal/mol and with acetylene, E = 32 kcal/mol. "The authors express their gratitude to A. S. Kompaneyets for evaluating the work." Orig. art. has: 13 equations and 3 figures.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AN SSSR)

Card 2/3







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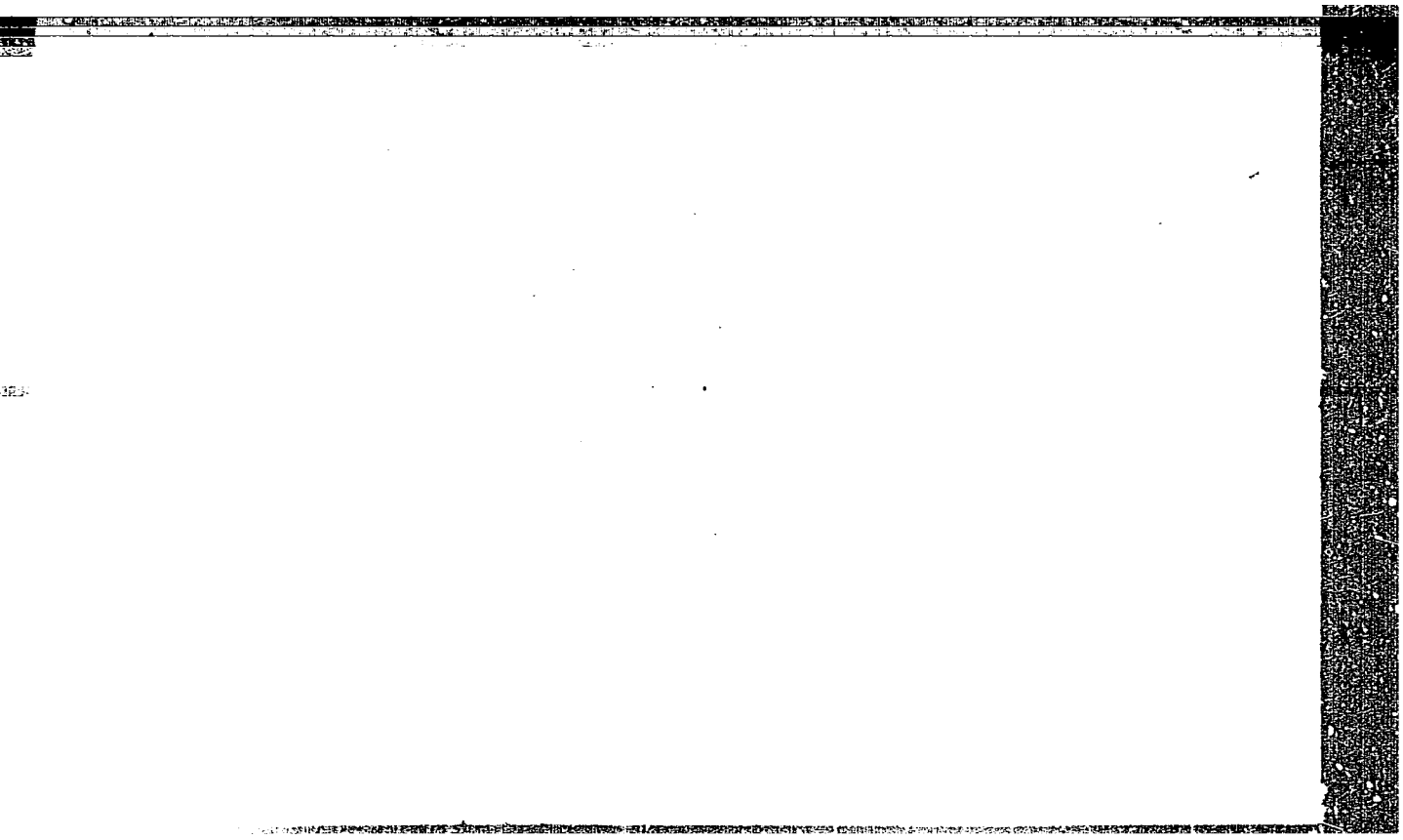

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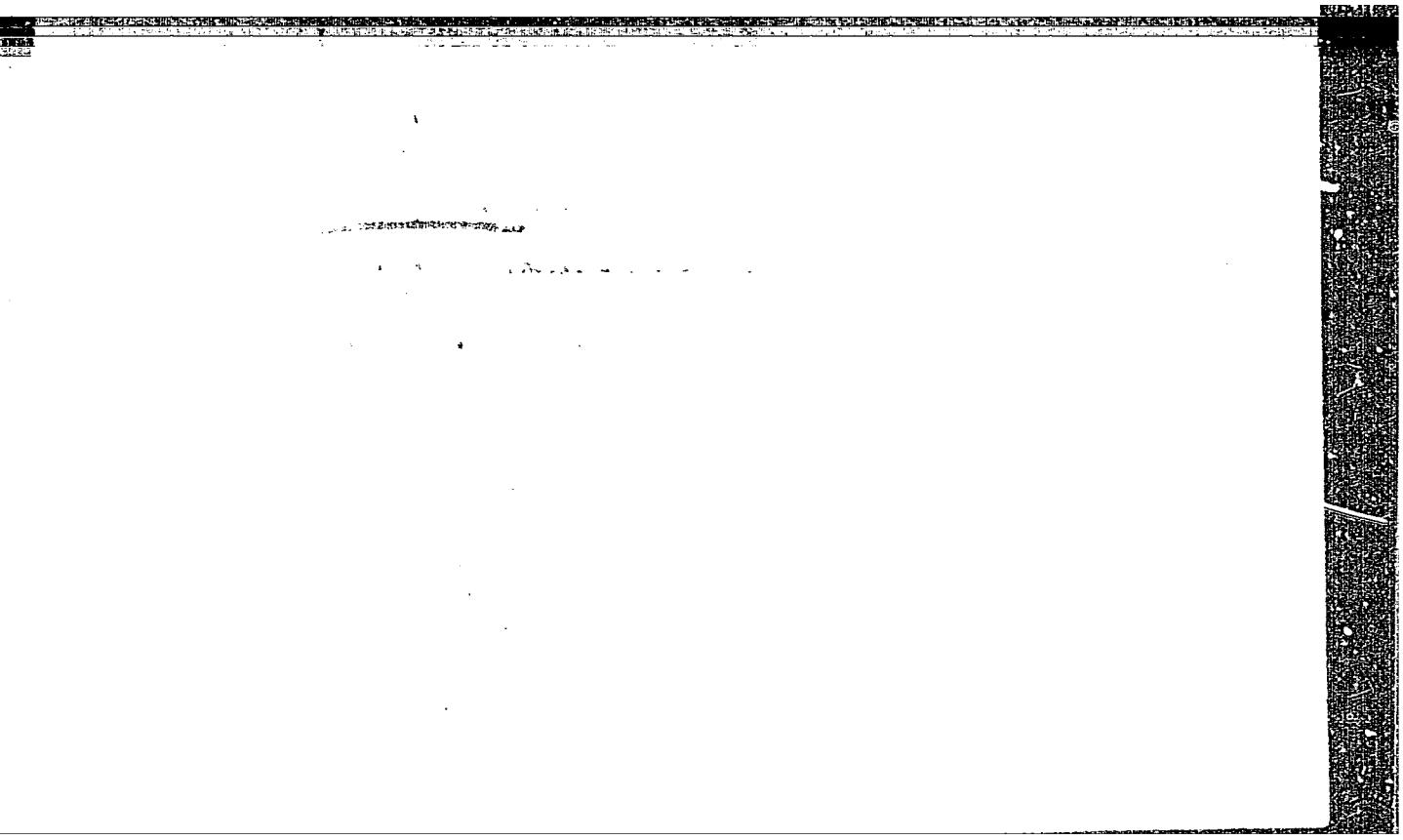

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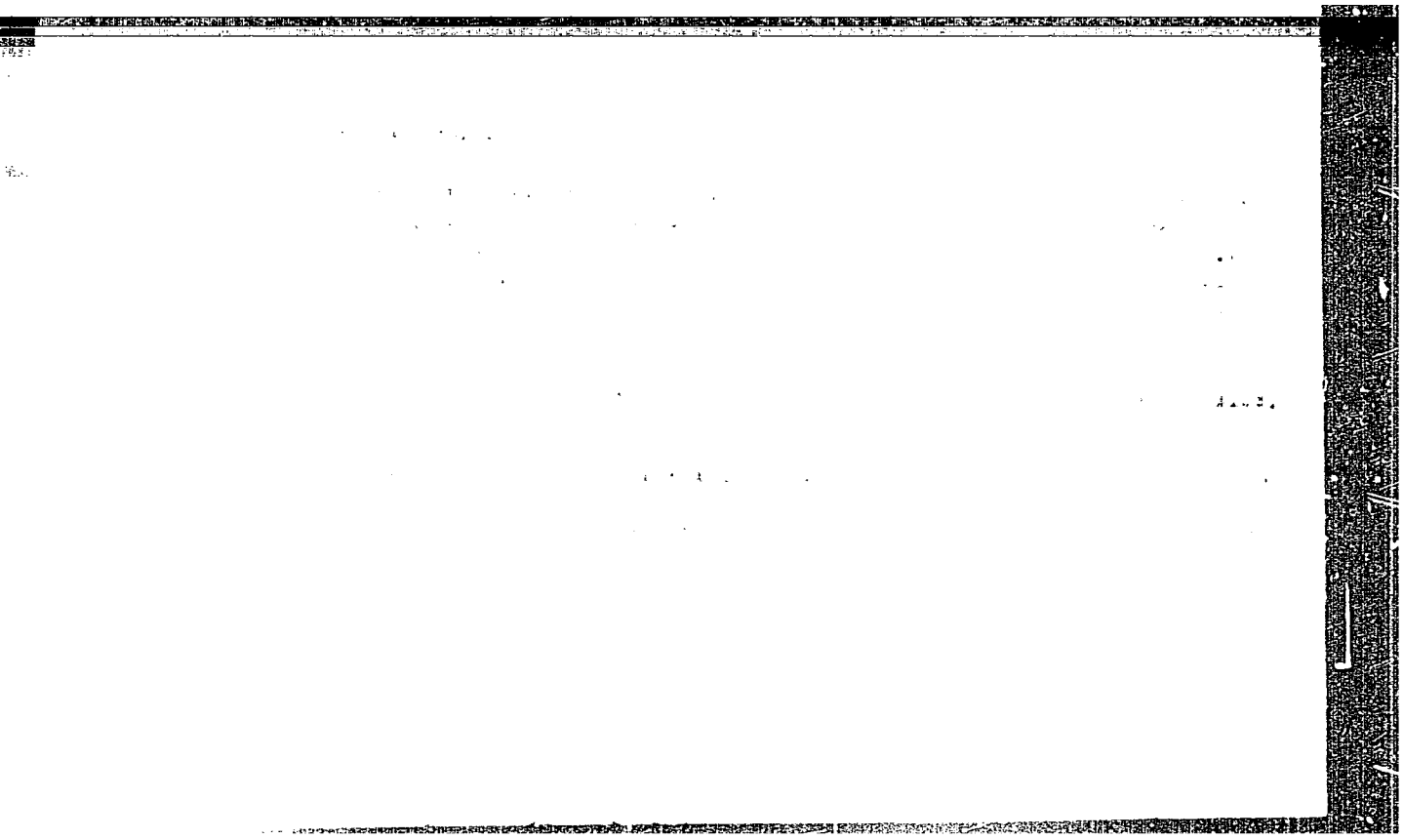

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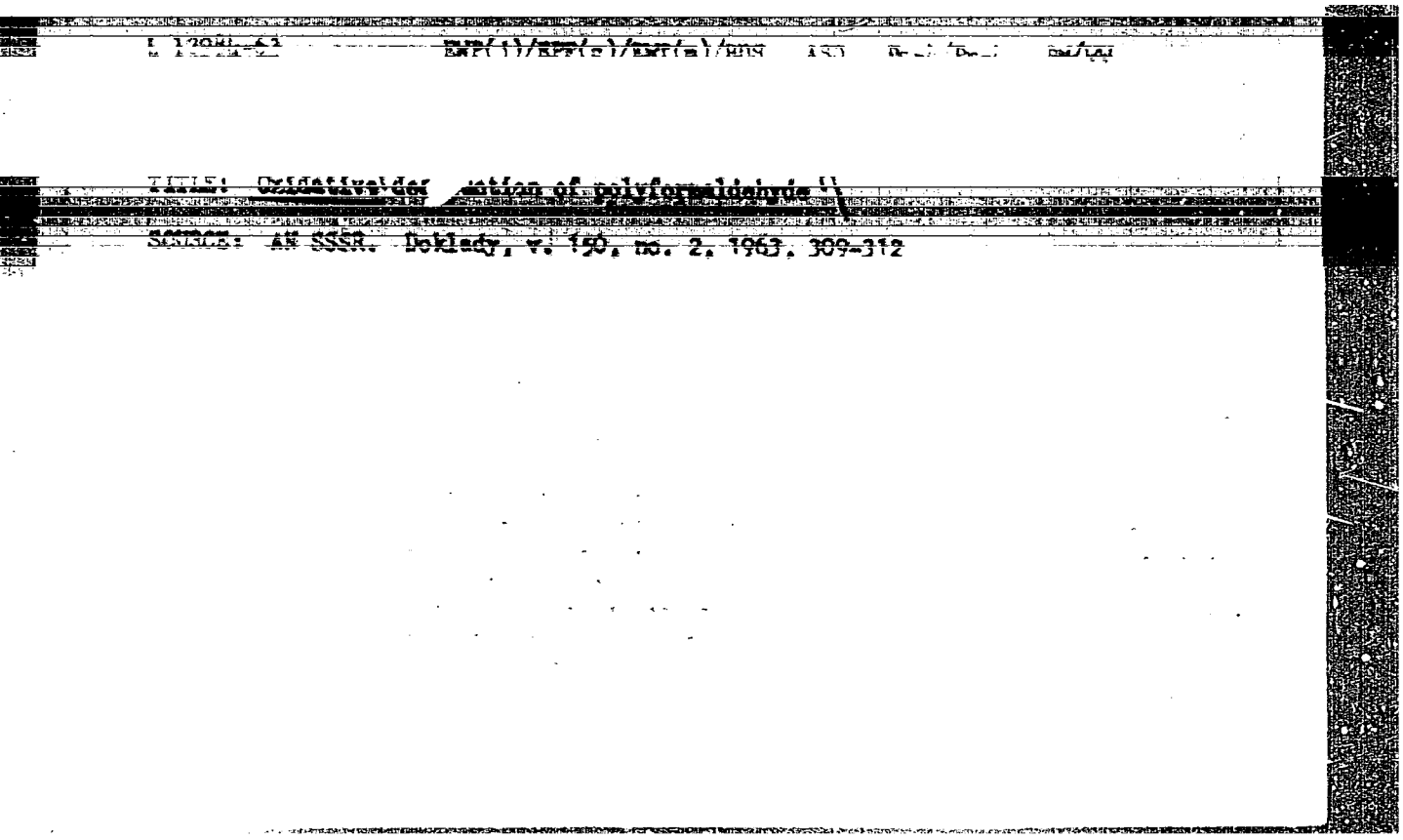

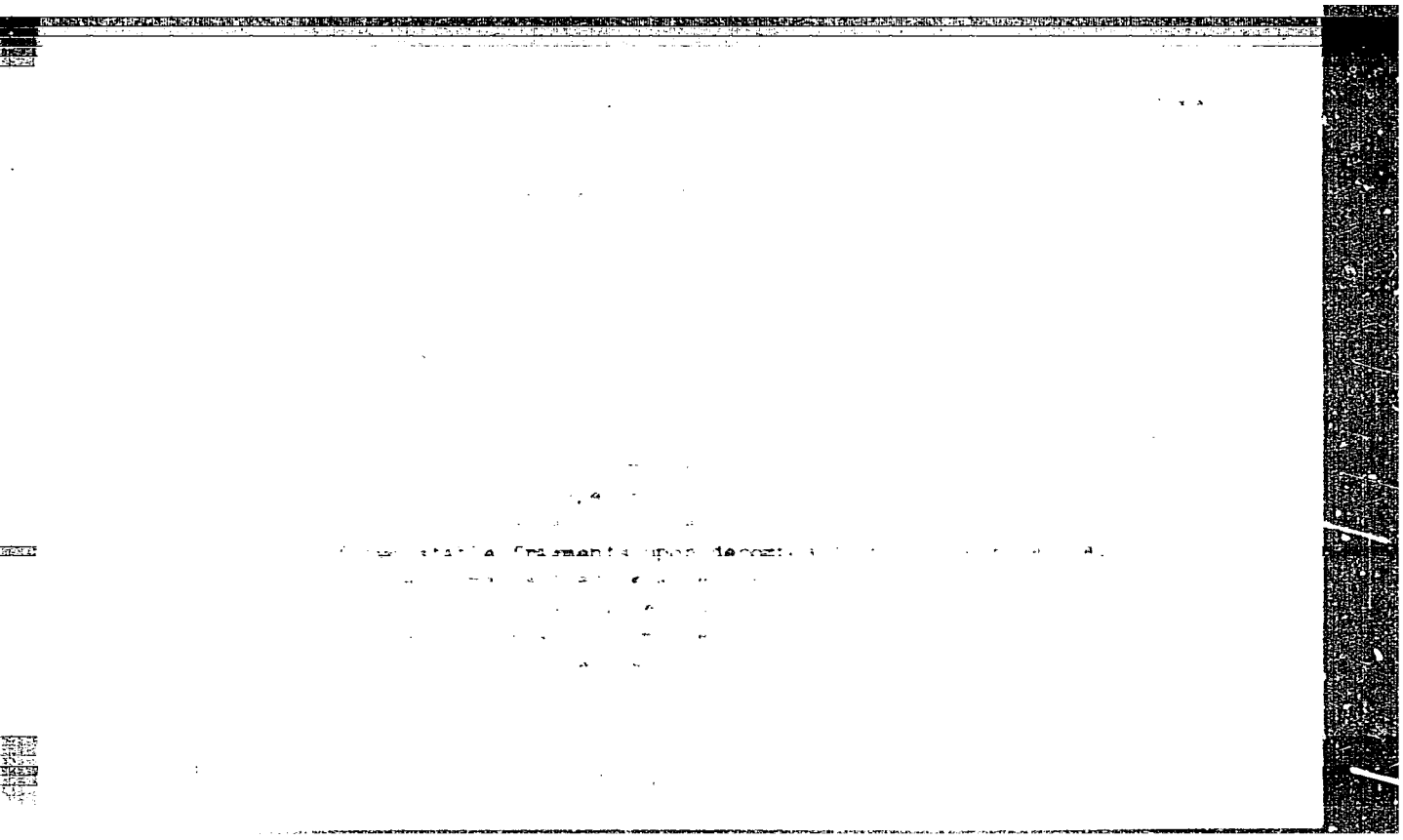

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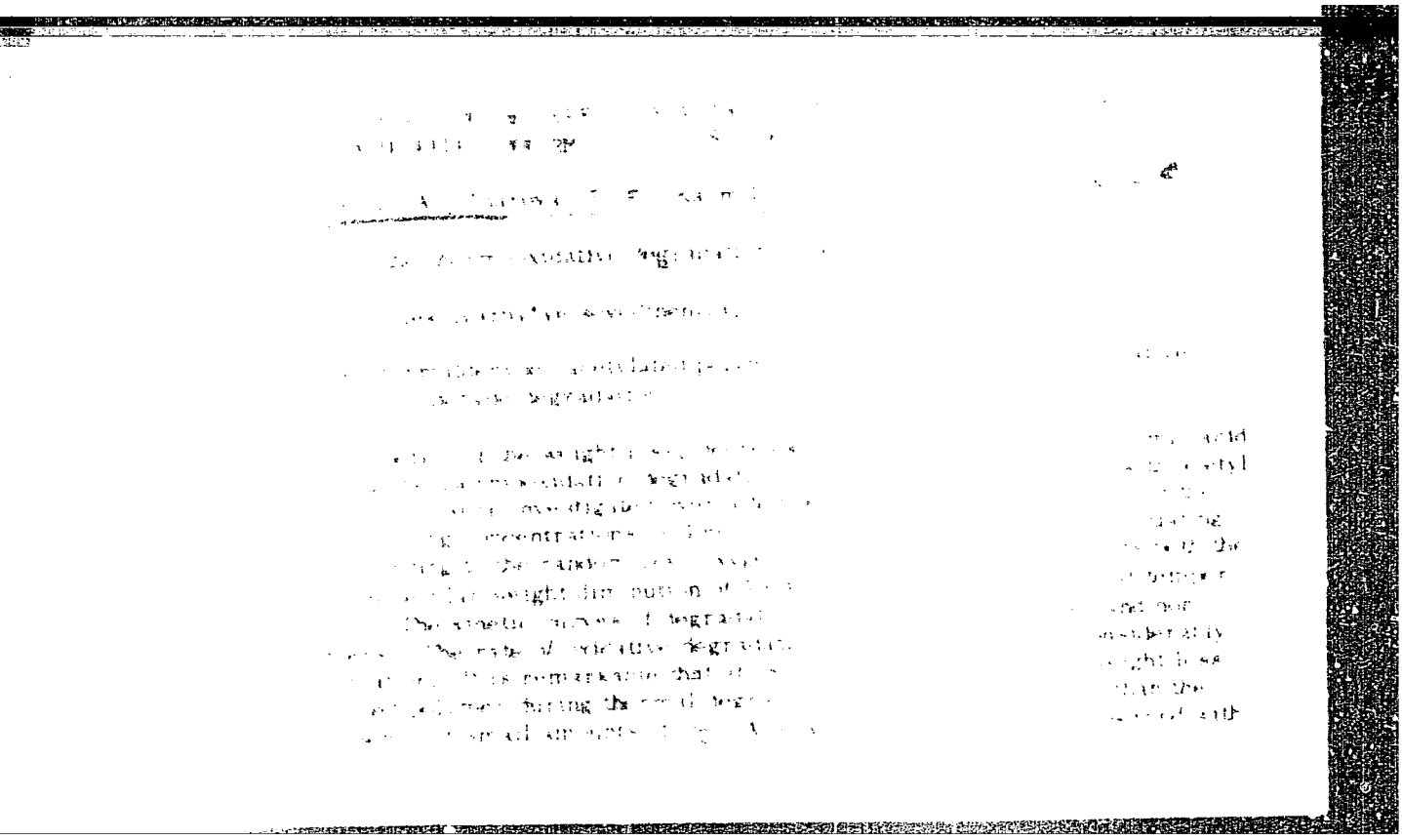

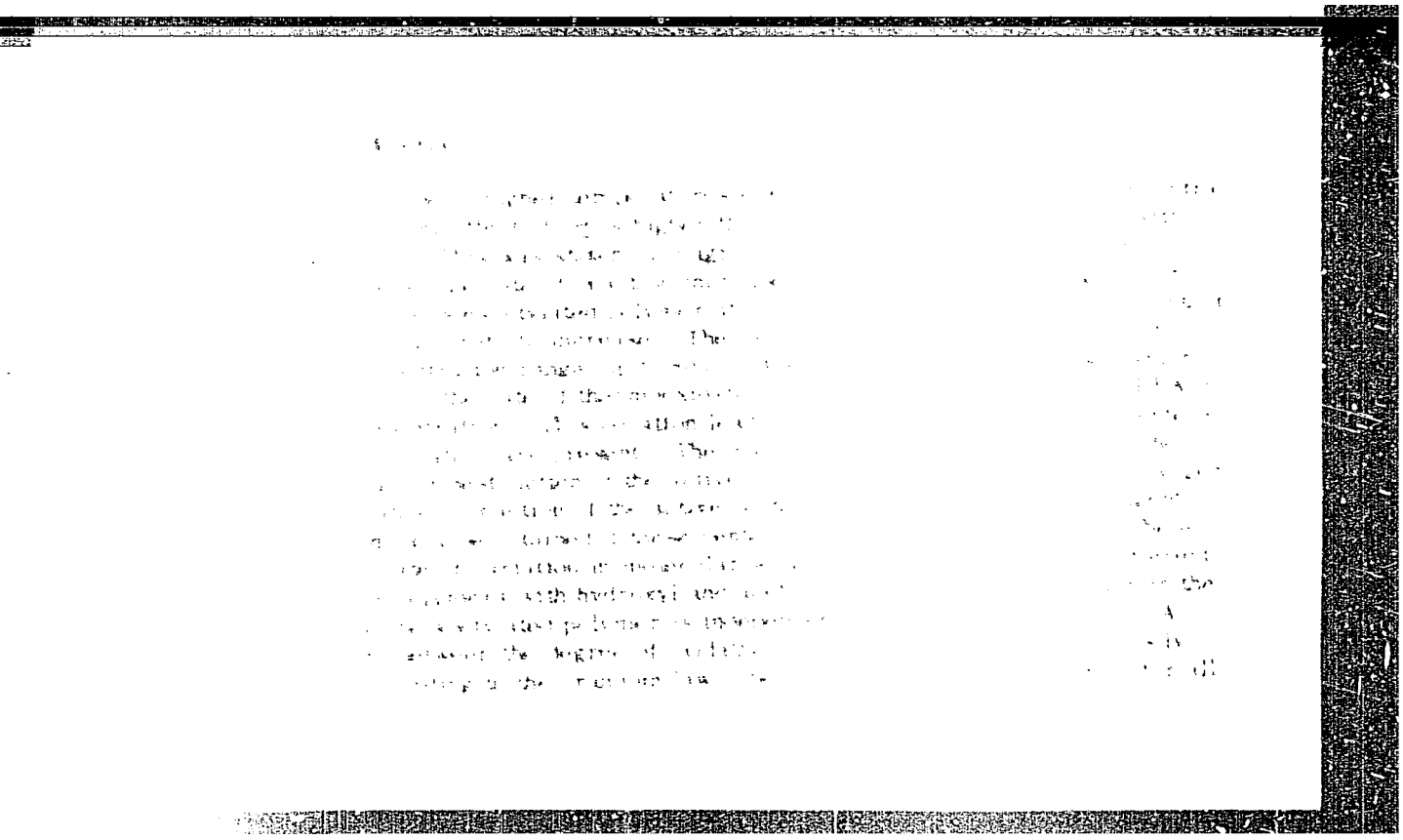

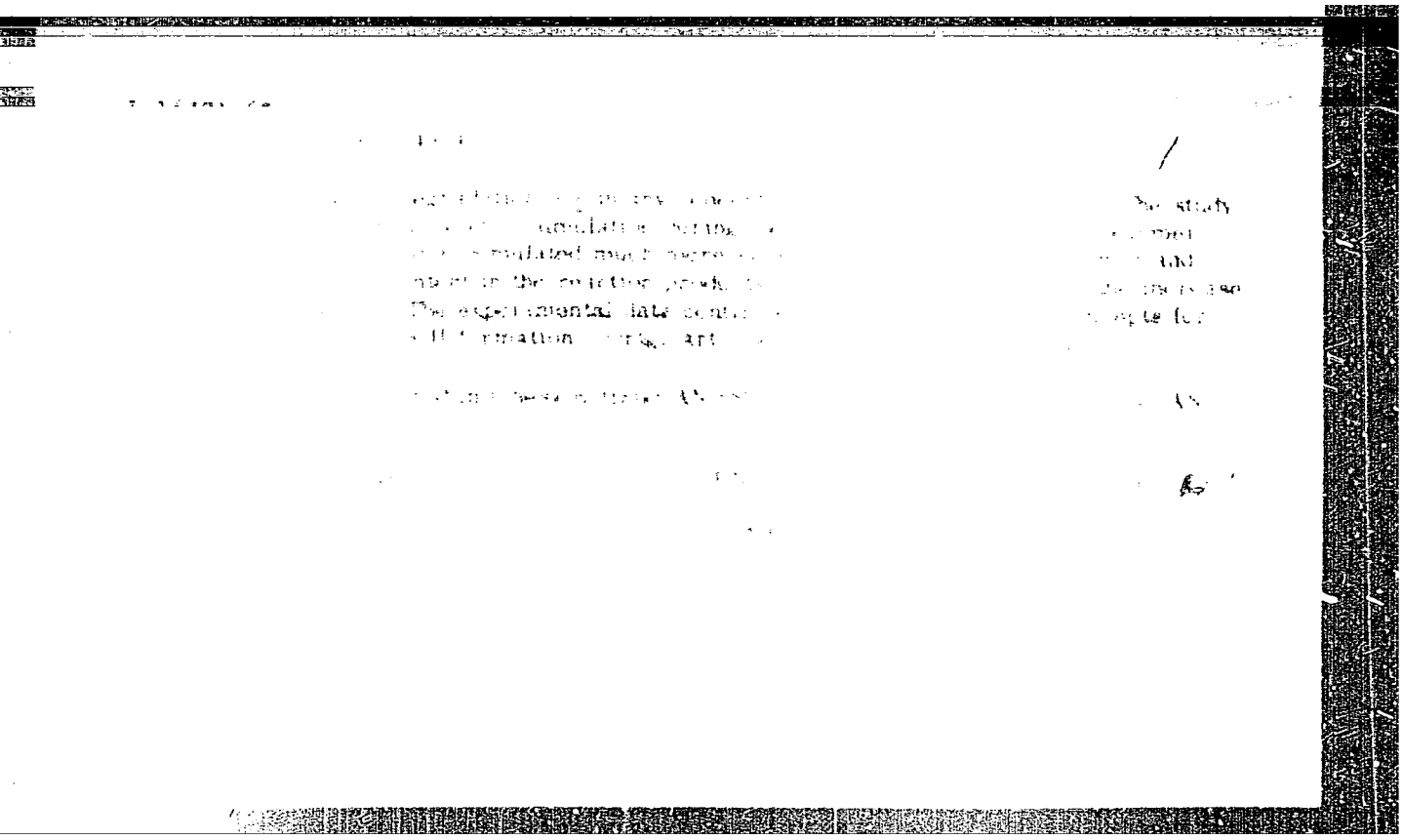

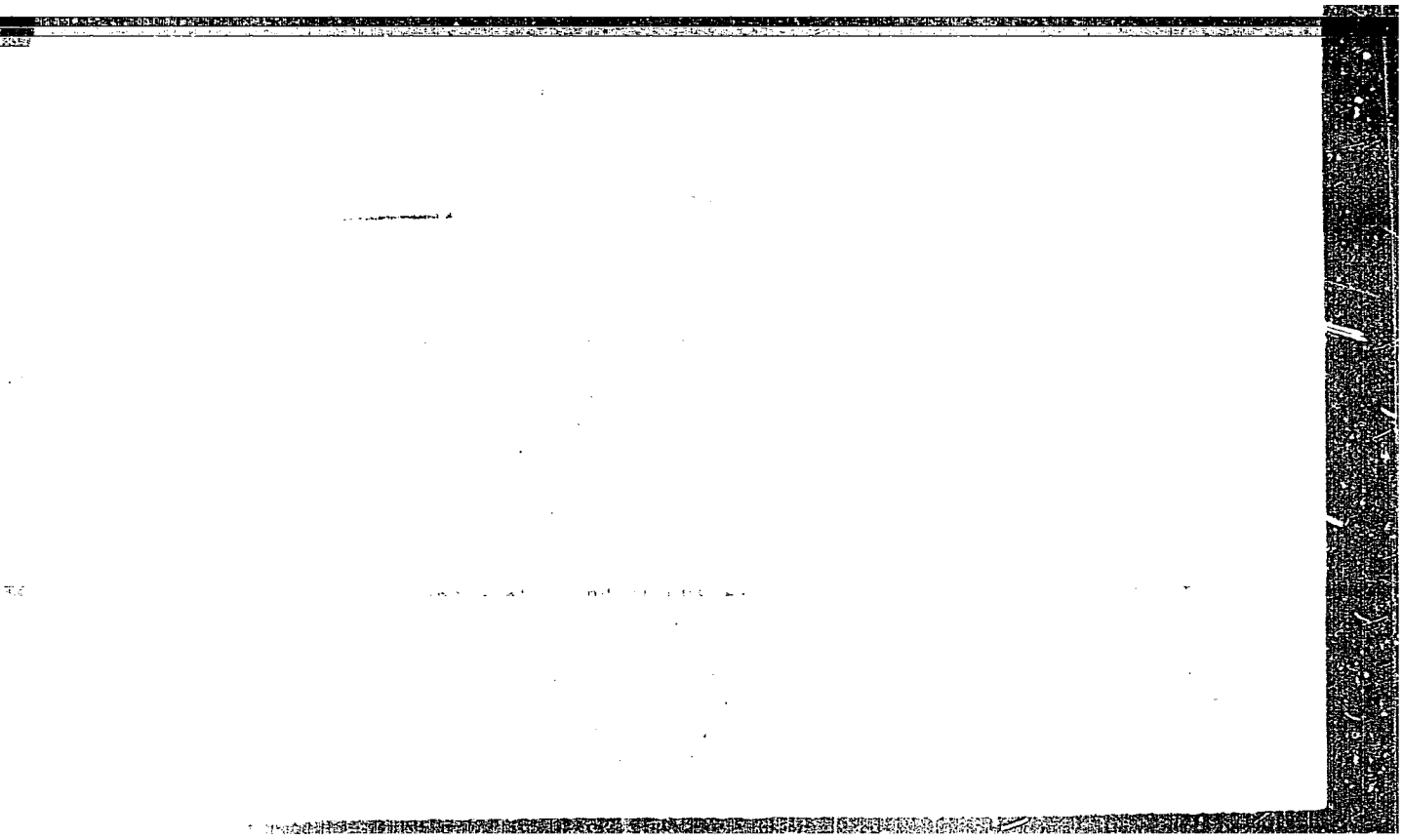

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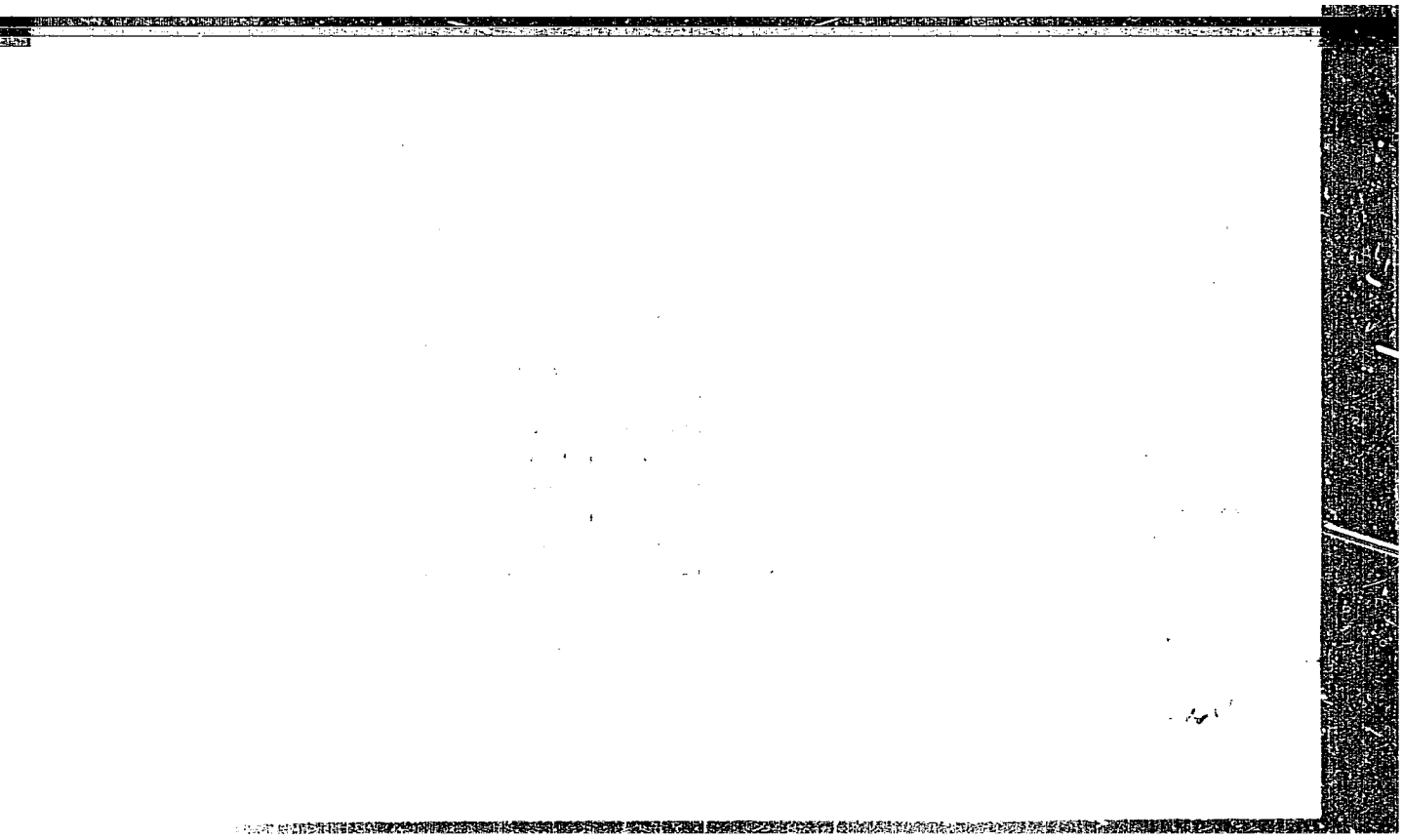


APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411420020-7"

DUDINA, Nadezhda Aleksandrovna; RYZHIK, Z.M., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Methods of welding nickel and some of its alloys] Sposoby svarki nikelia i nekotorykh ego splavov; stenogramma lektsii. Leningrad, 1962. 44 p. (MIRA 15:3)
(Nickel--Welding)

EBIN, L.Ye., doktor tekhn. nauk, prof.; MYSTRITSKIY, D.N., kand. tekhn. nauk; LUKOVNIKOV, A.V.; PAN'KIN, V.V., inzh.; DUDINA, V.Ye.

[Auxiliary power plants and electrical systems for increasing the reliability of rural electric power distribution] Rezervnye elektrostantsii i elektroagregaty dlia povysheniia nadezhnosti sel'skogo elektrosnabzheniia. Moskva, Otdel tekhnicheskoi informatsii VIESKh, 1960. 70 p. (MIRA 15:4)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva.
(Rural electrification)

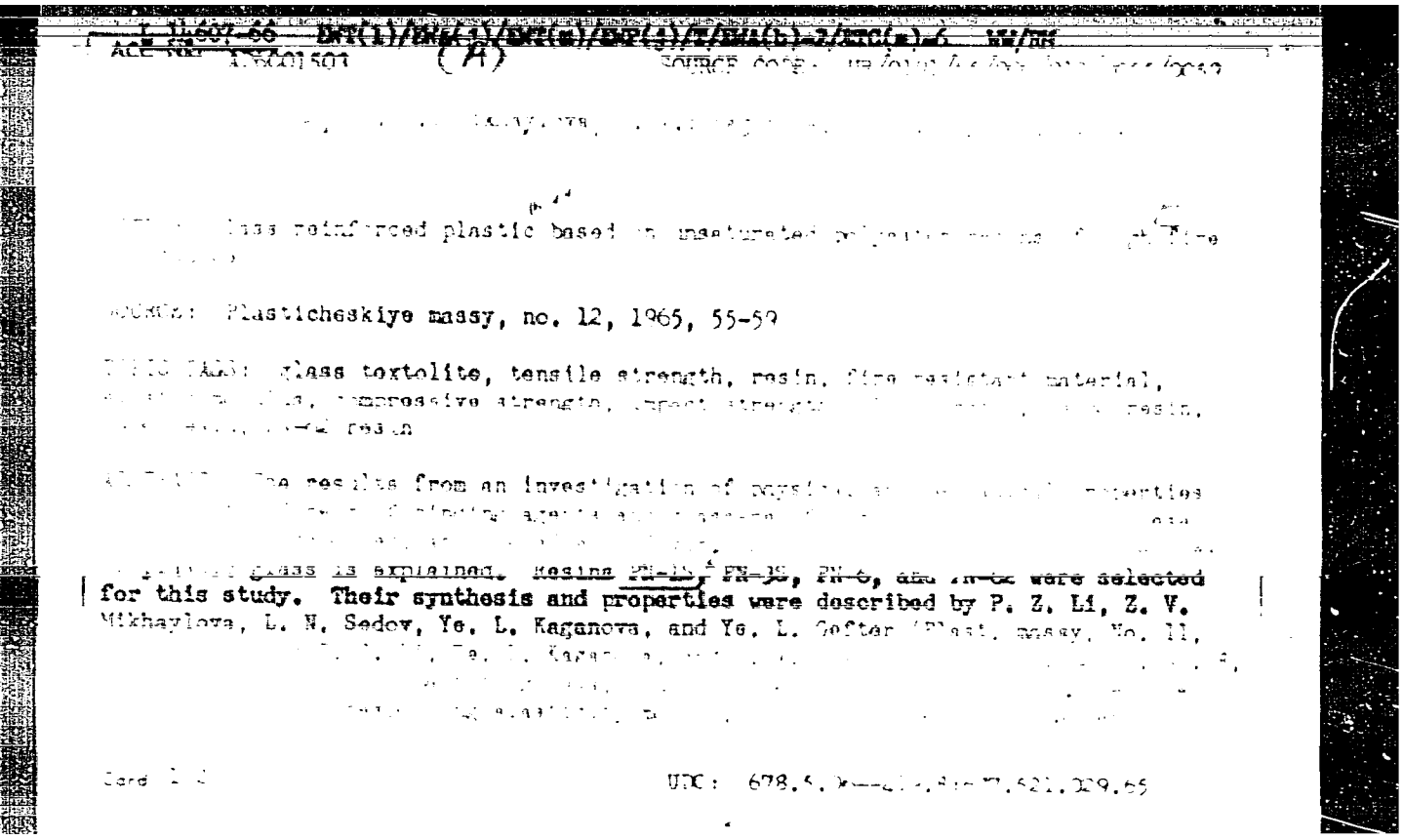
BYSTRITSKIY, D.N., kand.tekhn.nauk; DUDINA, V.Ye., kand.tekhn.nauk

Use of auxiliary electric power plants in agriculture. Mekh. i elek. sots. sel'khoz. 20 no.1:37-39 '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo khozyaystva.
(Electricity in agriculture)

VITENBERG, A.R.; DUDINA, Yu.D.

Colored glass-reinforced plastics as building materials. Plast. massy no.10:47-49 '60. (MIRA 13:12)
(Glass reinforced plastics) (Building materials)



ACC NR: AP6001501 (A) SOURCE CODE:

[illegible] glass reinforced plastic based on unsaturated polyester [illegible]

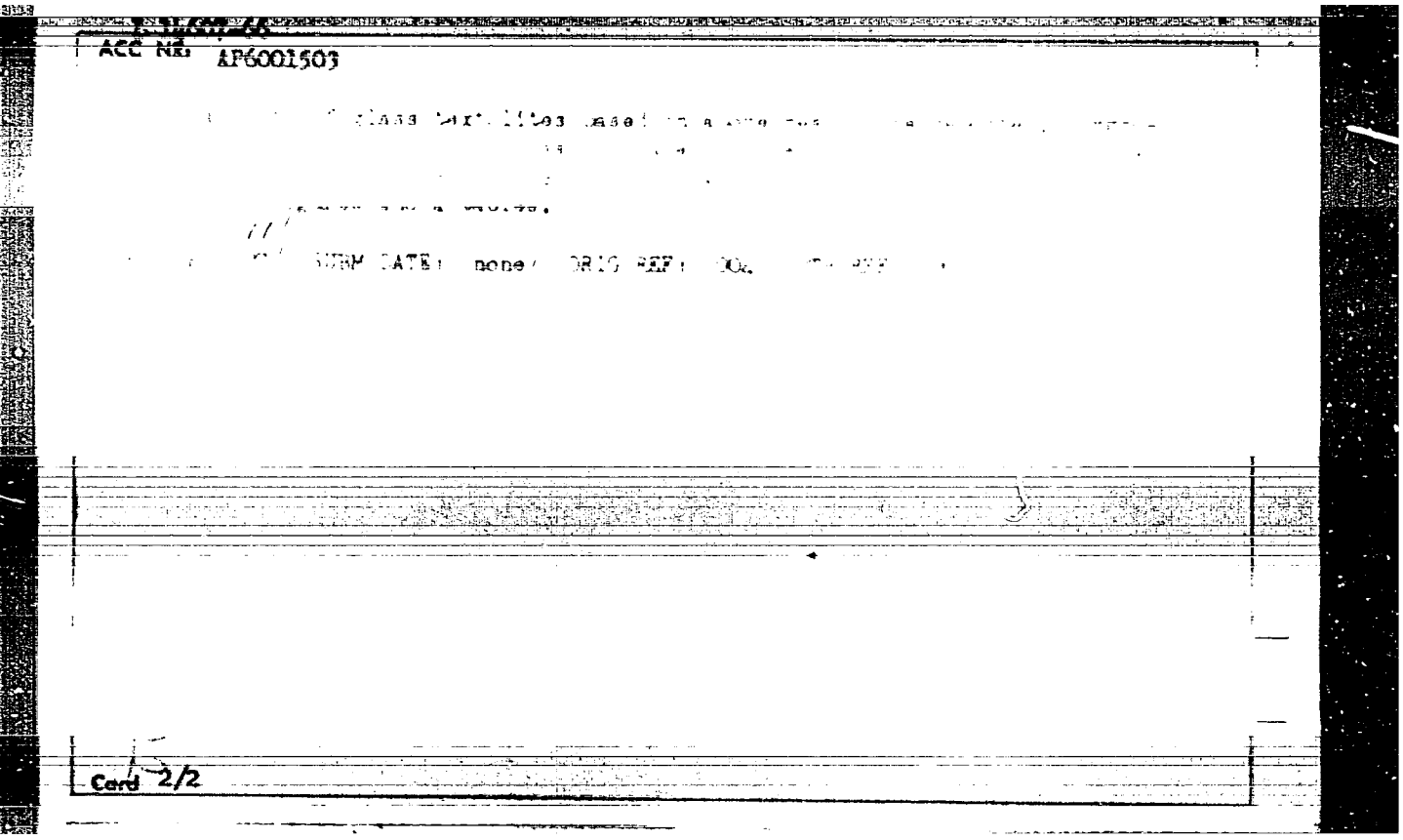
SOURCE: Plasticheskiye massy, no. 12, 1965, 55-59

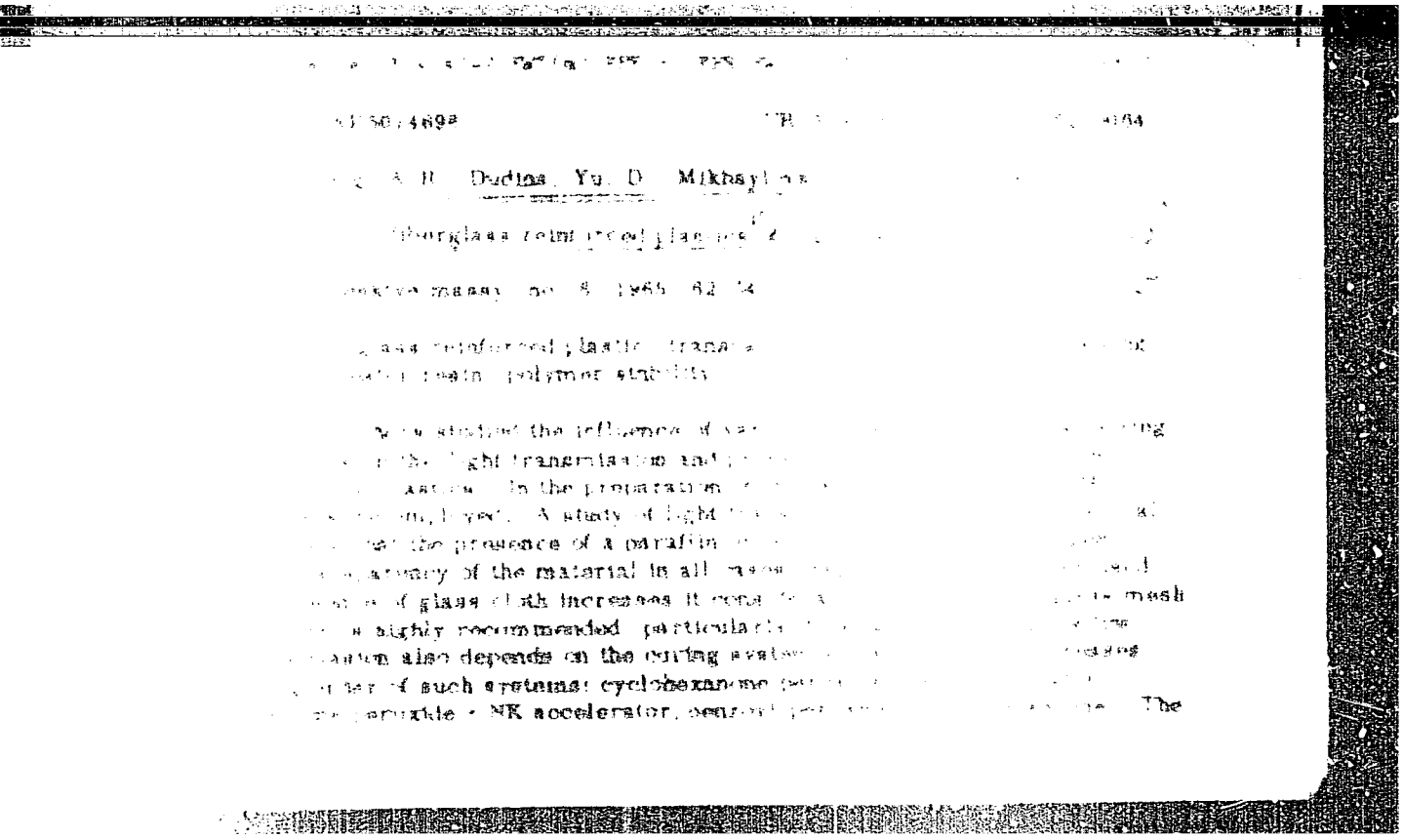
TOPIC TAGS: glass textolite, tensile strength, resin, fire resistant material, [illegible], compressive strength, impact strength, [illegible] resin, [illegible] resin

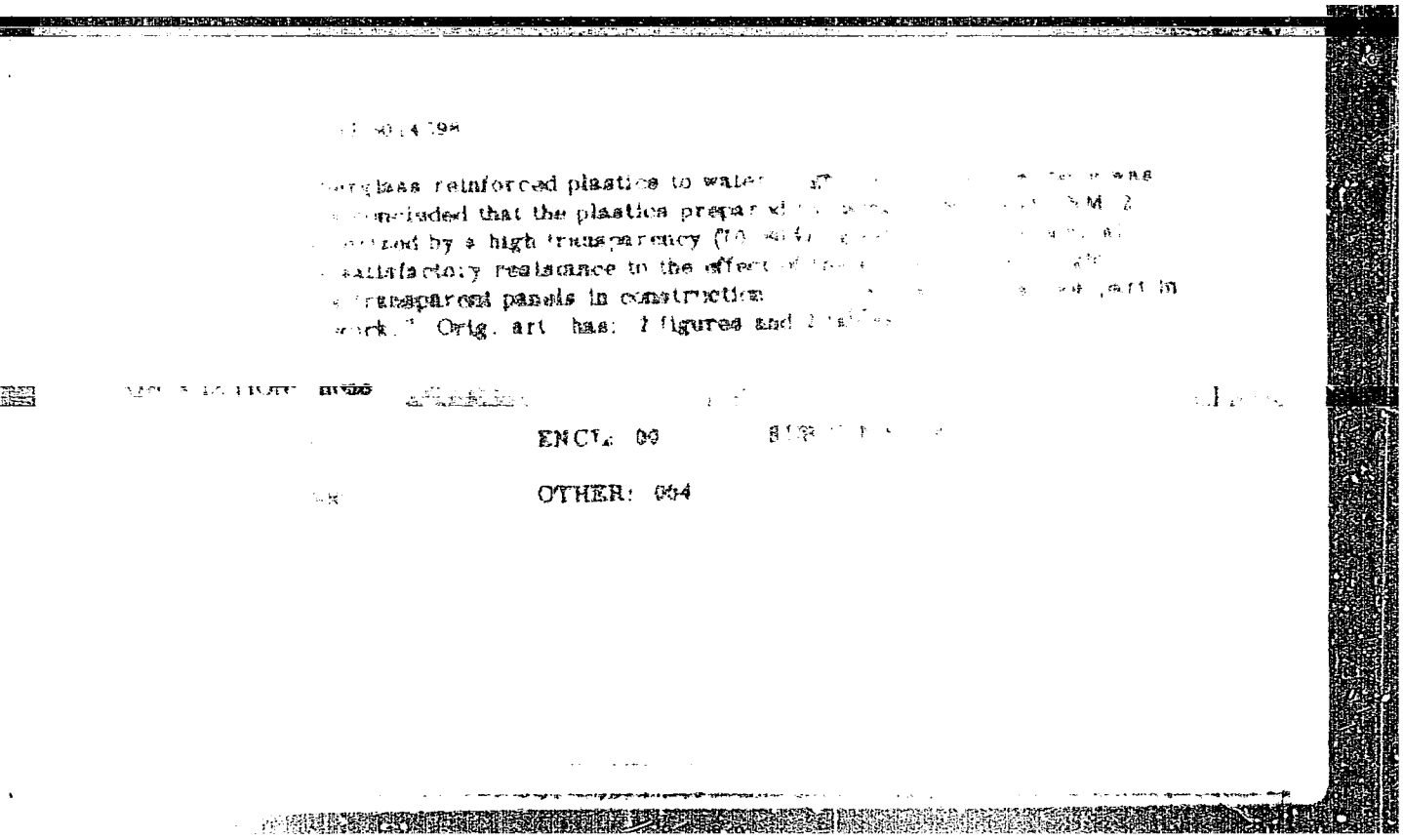
ABSTRACT: The results from an investigation of physical [illegible] properties [illegible] glass is explained. Resins PN-1, PN-3, PN-6, and PN-8 were selected for this study. Their synthesis and properties were described by P. Z. Li, Z. V. Mikhaylova, L. N. Sedov, Ye. L. Kaganova, and Ye. L. Gofter (Plast. massy, No. 11, [illegible]

Card 1/2

UDC: 678.5.[illegible]:621.039.65







...glass reinforced plastics to wate... ...
...concluded that the plastics prepar... ...
...ized by a high transparency (... ...
...satisfactory resistance to the effect... ...
...transparent panels in construction... ...
...work." Orig. art. has: 7 figures and ...

ENCL: 00

OTHER: 004

DUDINOV, V. A.

USSR/Engineering
Energy - Conservation
Furnaces, Electric

Jul 48

"Methods for Economizing on Power Consumption in Heat Treatment, Casting and Forging Shops of Machine Construction Factories," N. F. Tikhonov, M. P. Zagoskin, A. S. Kudryavtsev, V. A. Dudinov, Kirov Factory in Urals, 3 pp

"Prom Energet" No 7

Suggestions were awarded a third prize in 1947 All-Union Contest. Describes how capacity of electric furnace was increased, and construction and working routine altered. Diesel cylinder blocks and heads are now cast in chills instead of molds. Mentions various refinements in molding and melting techniques. Refers to forging of caterpiller tracks in tow heats instead of three, reducing piston clearances in hammers, and reducing air supply for fans in coke fires.

PA 6/49T27

1 Dudinov V.A. PHASE I BOOK EXPLOITATION 484

Anikin, Nikolay Aleksandrovich; Drobyshevskaya, Nadezhda Ivanovna; Dudinov, Vladimir Alekseyevich; Kon'kov, Arkadiy Sergeyevich; Polyakov, Gleb Maksimovich

Spravochnik izobretatelya i ratsionalizatora (Inventor's and Innovator's Handbook) Moscow, Mashgiz, 1957. 702 p. 35,000 copies pringed.

Ed.: Rozenberg, I. A., Candidate of Economic Sciences; Akhun, A. I., Konovalov, V. I., Peretts, V. B., Belinichar, I. Sh., Dubitskiy, G. M., Canditates of Technical Sciences; Kamyukhov, S. M., Docent; Zakharov, B. P., Gektina, R. F., and Vakhonin, L. N., Engineers; Tech. Ed.: Sarafannikova, G. A.

PURPOSE: This handbook is intended for workers and foreman.

COVERAGE: The book contains information on processing, formulation, and justification of beneficial suggestions and inventions. It presents data on mathematics, mechanics, electrical engineering, hydraulics, and other technical branches of science, as well as data on the selection of machine

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building materials (properties and designation), the design of machine parts, and the technology of their manufacture. The tasks and rights of inventors and efficiency experts are discussed. The text is illustrated with examples of efficiency-promoting suggestions and typical calculations.

TABLE OF CONTENTS:

AUTHORS: Dudinov, V. A., Arapov, N. V. 72-58-3-10/15

TITLE: Saggerless Burning of Semiporcelain in Direct Tunnel Kilns (Beskapsel'nyy obzhig polufarfora v tunnel'noy pechi pryamogo deystviya)

PERIODICAL: Steklo i Keramika, 1958, [illegible], Nr 3, pp. 37-39 (USSR)

ABSTRACT: A direct tunnel kiln for saggerless burning and single-stage charging was built in the works "Stroyfayans" in Leningrade, as the first of this kind in the USSR. It attained its planned output with a time interval of 1 hour 2o minutes for the passage of the truck. The time-interval of the passage of the trucks was reduced to from 5o to 55 minutes and the planned output of the kiln was exceeded by introducing new methods of organization and engineering and by following some suggestions with respect to rationalisation (V. M. Shurygin, V. N. Krylov and others), as well as by scientific collaboration with the Leningrad-branch of the Teploproyekt (N. V. Arapov). In 1956, after a 2 years' experience with this kiln, V. A. Dudinov proposed further improvements without carrying out cardinal alterations with the kilns. The

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gas-line was shortened and its diameter increased, due to which the resistance of the gas-supply was reduced, which made it possible to increase the gas-supply substantially by means of the same gas-blasting device. By this, a reduction of the interval of the passage of the trucks to 30 minutes was achieved. The kiln-temperature increased abruptly due to the increased gas-supply, which resulted in much waste (figure). The introduction of a 30 minutes' interval required an enlargement of the combustion zone in the furnace. A cooling of the products in the furnace by taking off hot air from the cooling-zone by means of an exhaustor and by conveying it into the combustion-zone, formed part of the project of structural alteration. Yet this lead equally to much waste with cooling. In view of achieving a more intense cooling of the products, an adequate recuperator which achieved the necessary cooling was built in the arch of the cooling-zone of the kiln. The removed heat was used for drying the forms and for the hot blower. As may be seen from the table, the output of the tunnel kiln was very much increased. Moreover, many expenses were saved by this.
There are 1 figure, 1 table and 0 references.

Saggerless Burning of Semiporcelain in Direct Tunnel Kilns 72-58-3-10/15

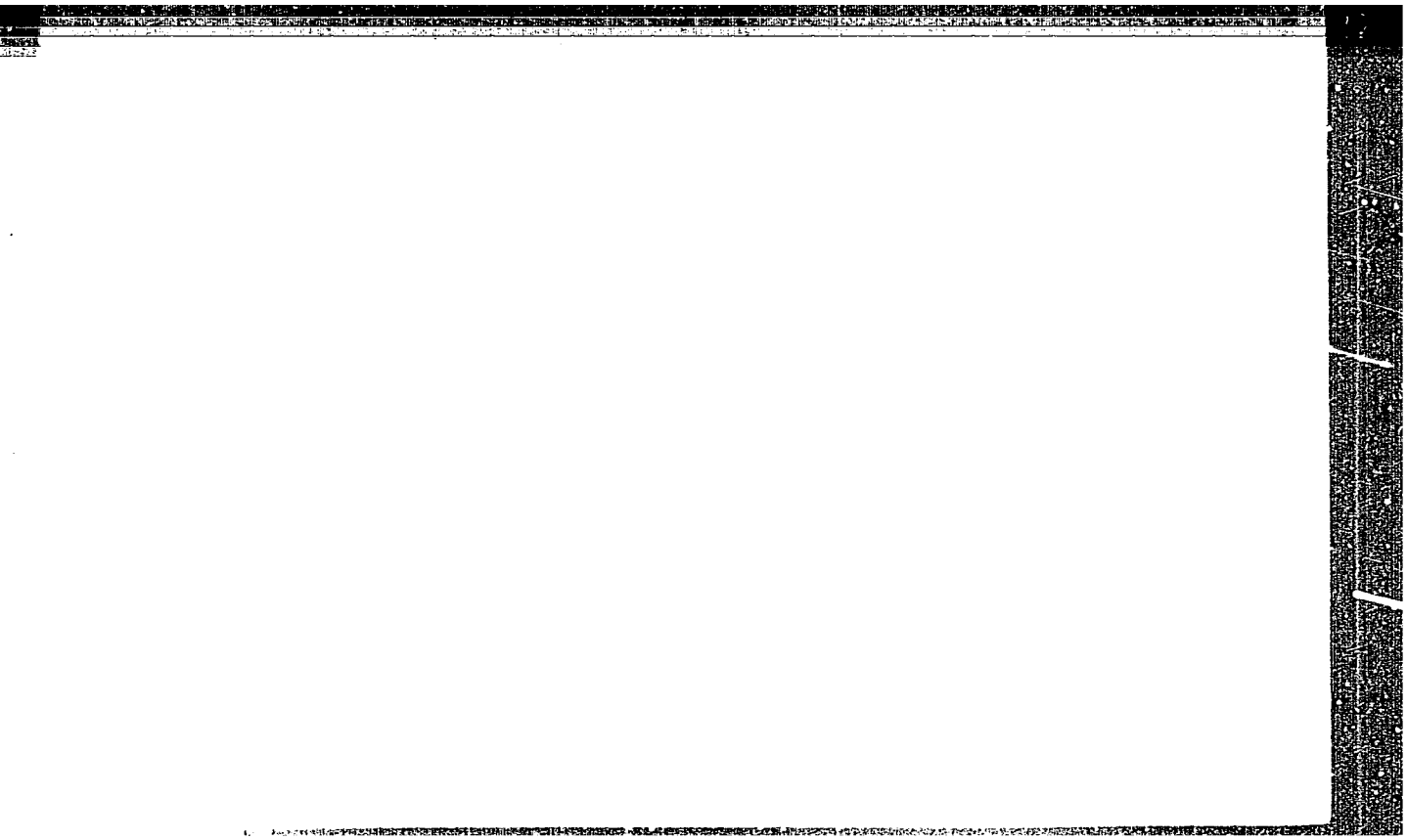
ASSOCIATION. Leningradskiy zavod "Stroyfayans" ("Stroyfayans" Works, Leningrad)

1. Ovens--Design

Card 3/3

ANIKIN, Nikolay Aleksandrovich; DROBYSHEVSKAYA, Nadezhda Ivanovna; DUDINOV, Vladimir Alekseyevich; KON'KOV, Arkadiy Sergeyevich; KONYUKHOV, Sergey Mikhaylovich; MESHCHERINOV, Fedor Ivanovich; POLETSKIY, Aleksandr Timofeyevich; POLYAKOV, Gleb Maksimovich; SAL'NIKOV, Oleg Alekseyevich; CHERNOBAY, Dmitriy Gavrilovich; GAVRILOV, P.G., kand. tekhn.nauk, retsenzent; NEFED'YEV, G.N., kand. fiz.-mat. nauk; SOKOLOV, V.M., kand. fiz.-mat. nauk; SOKOLOVSKIY, V.I., kand. tekhn. nauk; RUDIN, S.N., insh.; KYDINOV, M.S., kand. tekhn. nauk; DUBITSKIY, G.M., doktor tekhn. nauk, red.; ZAKHAROV, B.P., inzh., red.; KONOVALOV, V.N., kand. tekhn. nauk, red.; PERETS, V.B., kand. tekhn. nauk, red.; ROZENBERG, I.A., kand. ekonom. nauk, red.; STEPANOV, V.V., kand. tekhn. nauk, red.; SUSTAVOV, M.I., insh., red.; SHABASHOV, S.P., kand. tekhn. nauk, red.; DUGINA, N.A., tekhn. red.

[Handbook for inventors and innovators]Spravochnik dlia izobretatelia i ratsionalizatora . [By] N.A.Anikin i dr. Izd.3., ispr. i dop. Moskva, Mashgiz, 1962. 791 p. (MIRA 16:1)
(Technological innovations—Mechanical engineering)



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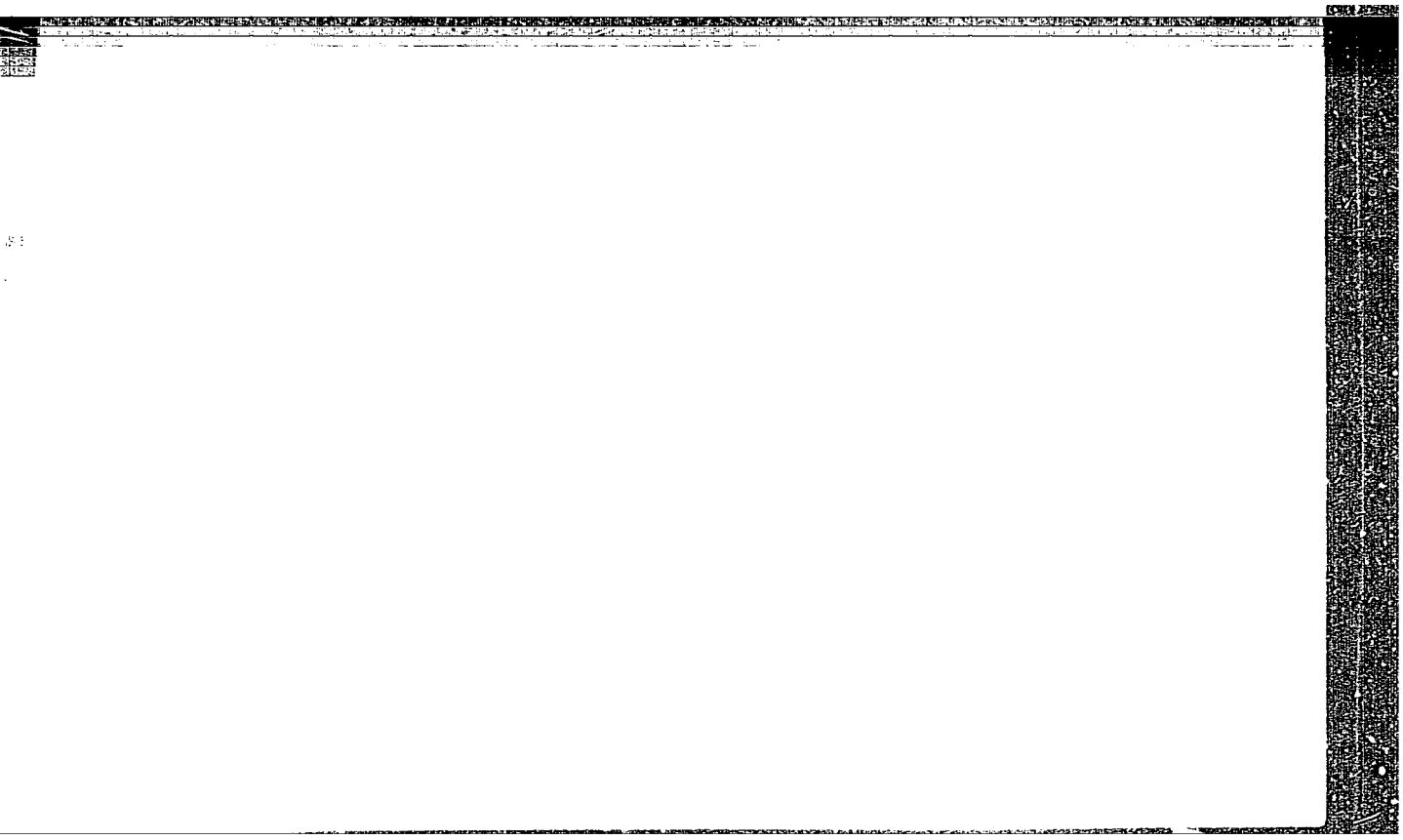


APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411420020-7"

L 15763-66 EWT(1) GW

ACC NR: AP6006777 SOURCE CODE: UR/0033/66/043/001/0144/0148

AUTHOR: Barabashov, N. P.; Garazha, V. I.; [illegible]

ORG: Kharkov Astronomical Observatory (Khar'kovskaya astronomicheskaya observatoriya)

TITLE: Some thoughts on the possibility of correcting planetary photometric cross sections

SOURCE: Astronomicheskiy zhurnal, v. 43, no. 1, 1966, 144-148

TOPIC TAGS: planetary astronomy, photographic photometry, Mars, ~~Martian disk~~

ABSTRACT: The method proposed by I. K. Koval' (Astron. tsirkulyar, no. 319, 1, [illegible] correcting the distortions in the brightness [illegible] of a planetary [illegible] photometric [illegible] [illegible] [illegible] [illegible] to correct the distortion [illegible] [illegible] Martian [illegible] made comparisons against the [illegible] of a star [illegible] following integral [illegible]

$$F(i) = \int [illegible]$$

Card 1/2 UDC 523.40

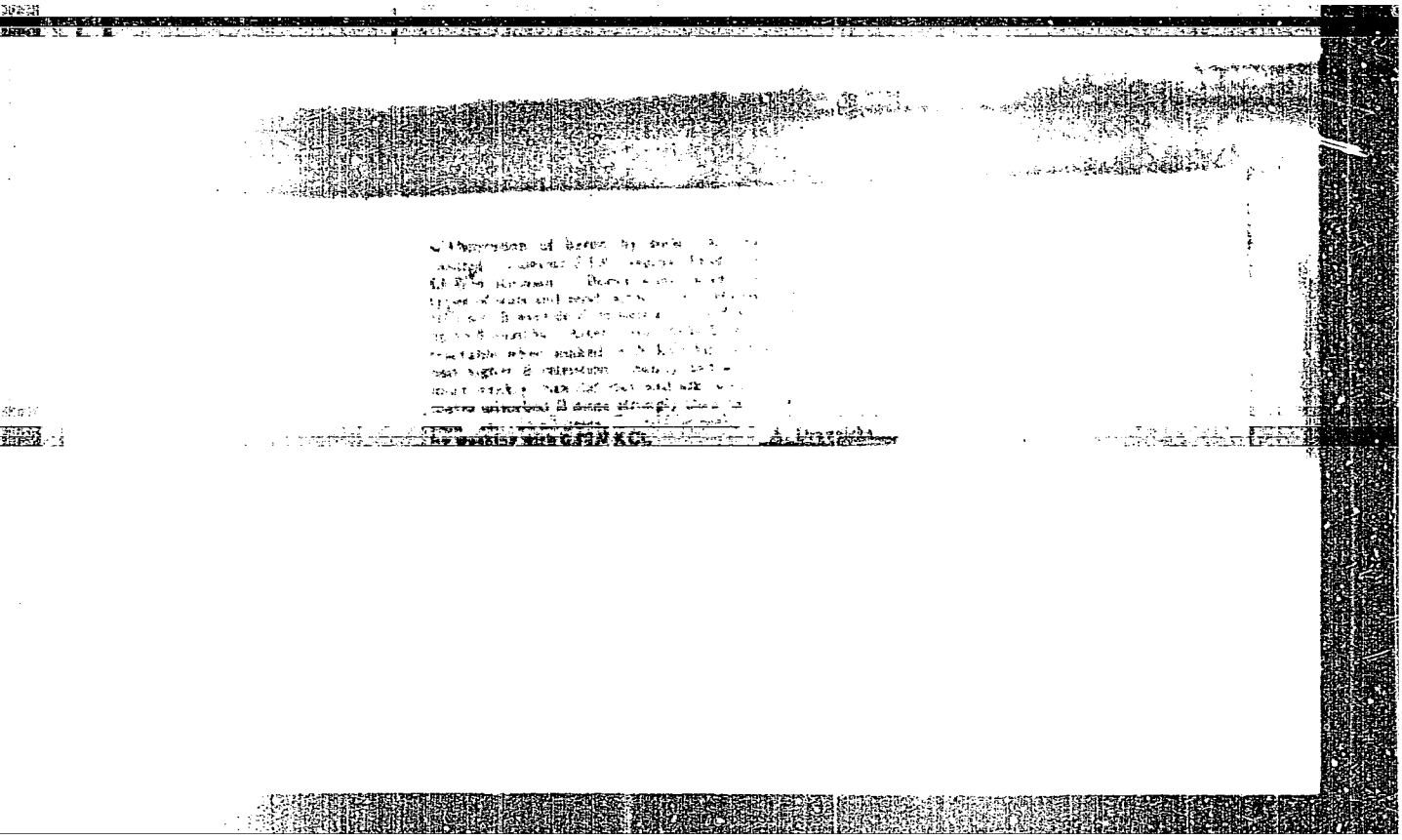
L 15763-66

... and f(x) are the observed and true ... an-
... is the measured ...
... is considered to be the only appropriate stable one. Decreasing the error in measurements in F(x) decreases the error ... the unknown
... It is found, however, that the ...

... PRESS.

4200

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411420020-7"



5(3)

AUTHORS: Novikov, S. S., Shvekhgeymer, G.A., Dudinskaya, A. A.

S/074/60/029/02/003/007
B008/B001

TITLE: Nitro Compounds in Diene Synthesis

PERIODICAL: Uspekhi khimii, 1960, Vol 29, Nr 2, pp 187-219 (USSR)

ABSTRACT: This is a survey of the papers on diene synthesis with special attention to the problems of stereochemistry and the chemical properties of adducts obtained from unsaturated nitro compounds. Tables are enclosed which show all papers on diene synthesis of nitrodienes and nitrophylodienes published until 1959 inclusive. The mechanism of the reaction discovered by Diels and Alder is explained (Refs 12-25). The effect of the nitro group on the

Nitro Compounds in Diene Synthesis

S/074/60/029/02/003/007
B008/B001

are formed on condensation of nitroolefins with dienes, contain one nitro group and one double bond. Thus, it is possible to obtain three different products on hydrogenation of the adduct: saturated nitro compound, saturated and unsaturated amines. Since the synthesis of these products is of importance in proving the configuration, methods for the selective hydrogenation of the adducts being formed are included in this paper. These methods are treated in references 2, 52-54. Ye.G. Katayev, and P. S. Matveyeva are mentioned. There are 3 tables and 56 references, 8 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii AN S3SR im. N. D. Zelinskogo (Institute of Organic Chemistry AS USSR imeni N. D. Zelinskiy)

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S/062/60/000/010/025/031/XX
B002/B060

AUTHORS: Novikov, S. S., Shvekhgeymer, G. A., and Dudinskaya, A. A.

TITLE: Condensation of Hexachloro Cyclopentadiene With Unsaturated Nitro Compounds

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 10, pp. 1858-1860

TEXT: Two types of nitro compounds may be used for the condensation of hexachloro cyclopentadiene with unsaturated nitro compounds: 1) CH_2=CHR (where R is, say, NO_2 or $COOR'$-NO_2), or 2) NO_2-CH=CHR" (where R" may be hydrogen, alkyl, aryl, or $COOCH_3CN$). For steric reasons, a condensation with unsaturated hydrocarbon compounds is scarcely possible. It is believed on the strength of studies of 1-nitro-propylene-1 (Ref. 4) that the reaction with disubstituted unsaturated nitro compounds is likewise hardly possible, while it does take place - though slowly - with monosubstituted unsaturated nitro compounds. Experimental results have fully confirmed these theoretical

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predictions: 3-nitro-1,4,5,6,7,7-hexachloro bicyclo-[2,2,1] heptene-5 was synthesized in a good yield by 14 hours' heating a solution of nitro-ethylene and hexachloro cyclopentadiene in chloro benzene to 100-102°C. The condensation products of hexachloro cyclopentadiene with 2-nitro-ethyl ester of acrylic acid, 2,2-dinitro-propyl ester of acrylic acid, 2,2,2-trinitro-ethyl ester of acrylic acid, and 2,4,6-trinitro-phenyl ester of acrylic acid were synthesized in a similar manner. On the other hand, it was not possible to perform a reaction of hexachloro cyclopentadiene with ω-nitro-styrene, β-nitro-acrylic acid methyl ester, 1-nitro-propylene-1, 2-nitro-propylene-1, or β-nitro-acrylic acid nitrile. A toxicological study conducted by N. M. Permyakova showed that all of the condensation products have an insecticidal effect. There are 4 non-Soviet references.

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)

SUBMITTED: May 15, 1959

AUTHORS: Suvorov, N. N., Dudinskaya, A. A., Morozovskaya, L. M. 79-28-5-60/69

TITLE: Hormones of the Thyroid and Their Homologs (Gormony shchitovidnoy zhelezy i ikh gomologi). III. Synthesis of the Amine Analogs of Betasine (III. Sintez aminoanalogov betazina)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5, pp. 1374-1378 (USSR)

ABSTRACT: In continuation of the compounds synthetized by the authors for the purpose of investigating their antithyroidal effect in dependence on their chemical structure (Reference 2), they used the N-acetyl-β4-nitrophenyl-β-alanine (I) - synthetized already earlier by them - which through the skeleton nickel catalyst was hydrated to β-4-aminophenol-β-N-acetylamine-proprionic acid (II) as initial product for the synthesis of the 4-amino analog of betasine. This acid was saponified and the obtained unseperated β-4-aminophenyl-β-alanine (III) was iodated in pure state in diluted hydrochloric acid with monochloro-

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iodide, which lead to the necessary β-(amino-3,5--diiodophenyl-β-alanine) (IV)(see scheme 1). The easily accessible β-3-nitrophenyl-β-alanine (V) was hydrated on the above catalyst for the synthesis of β-(3-amino-4,6--diiodophenyl)-β-alanine (VII), and the obtained β-3-aminophenyl-β-alanine (VI) was iodated with monochloroiodide. For experimental reasons the structure (VII) and not that of (VIII) or (IX) was attributed to the iodization product. The final proof for compound (VII) was supplied the following way: The aromatic amino group was substituted by iodine through the diazocompound and the obtained triiodaminic acid (X) was oxidized with potassium permanganate with the formation of triiodobenzoic acid (melting point 247-248°C). This proved to be identical with the 2,4,5-triiodobenzoic acid (XI) by Wheeler & Johns (Uiller i Dzhons) which was proved by direct comparison with the acid itself as well as of the ethylesters obtained by the authors. The results of the physiological activity of the synthetized compounds will be given at a later time.

 There are 5 references, 3 of which are Soviet.

Hormones of the Thyroid and Their Homologs. III. Synthesis of the Amine Analogs of Betasine

79-28-5-60/69

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemical and Pharmaceutical Research Institute imeni S. Ordzhonikidze)

SUBMITTED: April 13, 1957

Card 3/3

AUTHORS: Suvorow, N. N., Dudinskaya, A. A. 79-28-5-59/69

TITLE: Hormones of the Thyroid and Their Homologs (Gormony shchitovidnoy zhelezy i ikh analogi) II. Synthesis of Betasine Derivatives (Sintez izomerov betazina)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5, pp. 1371-1374 (USSR)

ABSTRACT: The β-diiodotyrosine (reference 1) synthetized by one of the authors together with V. M. Rodionov and V. G. Avramenko, is of high antithyroidal activity. Known under the name of "Betasine", it is used in medicine. β-diiodotyrosine is a β-(4-oxy-3,5-diiodophenyl)-β--alanine. For the purpose of investigating the dependence of the antithyreotropic effect on the chemical structure, it was of interest to synthetize isomers with another position of the phenolhydroxyl in betasine. The ortho--analog, β-(2-oxy-3,5-diiodophenyl)-β-alanine (formula I), was synthetized by iodization of β-(2--oxyphenyl)-β-alanine, which had been obtained by

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Hormones of the Thyroid and Their Homologs
II. Synthesis of Betasine Derivatives

79-28-5-59/69

Posner (Posner) (reference 1) from coumarin and hydroxylamine. In order to realize the synthesis of the metabetasine isomer the β-(3-oxyphenyl)-β-alanine (II) was subjected to iodization. The compound (II) was produced according to V. M. Rodionov from M-oxybenzaldehyde. It is of interest that even in the case of an excess of iodated agents not a tri- but a di-substituted compound is formed. Based on stereometric considerations the structure of β-(3-oxy-4,6-diiodophenyl)-β-alanine (III) is attributed to the latter, which was also proved by its synthesis through the diazo compound of β-(3-amino-4,6-diiodophenyl)-β-alanine (IV), the structure of which is fixed (reference 3). It must be pointed out that the American chemical scientist Jackson (Dzhekson) (reference 4) arrived at similar conclusions with respect to the α-amino acids. In a rather complicated way he proved that in the iodization of m-tyrosine a β-(3-oxy-4,6-diiodidephenyl) alanine forms. The results on the physiologic activity of the synthetized compounds are mentioned in other papers. There are 9 references,

Card 2/3

Hormones of the Thyroid and Their Homologs 79-28-5-59/69
II. Synthesis of Betasine Derivatives

3 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemical and Pharmaceutical Research Institute imeni S. Ordzhonikidze)

SUBMITTED: April 13, 1957

Card 3/3

AUTHORS: Rodionov, V. M.(Deceased), Dudinskaya, A. A., SOV/79-28-8-50/66
Avramenko, V. G., Suvorov, N. N.

TITLE: The Synthesis of β-Amino Acids From Aromatic Oxy and Alkoxy Aldehydes (O sintezе β-aminokislot iz aromaticheskikh oksi-i alkoksial'degidov)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8, pp. 2242 - 2246 (USSR)

ABSTRACT: In connection with earlier investigations by Rodionov (Refs 1-4) this paper gives the results of decomposition reactions carried out with various oxy and methoxy benzaldehydes with malonic acid in the presence of ammonium acetate [modification of the reaction of V.M.Rodionov according to Johnson (Dzhonson)]. In the classical case the reactions under investigation formed a mixture of two products: the β-amino acid (I) and the α,β unsaturated acid (II). With the Rodionov reaction the following was found to be true: salicylaldehyde gives cumarin-3-carbonic acid instead of the β-amino acid; m-oxybenzaldehyde forms β-(3-oxyphenyl)-β-alanine (yield: 52,3%); n-oxybenzaldehyde gives a mixture

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of diammonium salts of 4-oxybenzylide malonic acid (36,5%) and β-tyrosine (25,5%). Of the corresponding methoxybenzaldehydes the meta- and para-isomers give β-amino acids, while the o-methoxybenzaldehyde gives only the α,β unsaturated acids. Of protocatechualdehyde, vanillinaldehyde, and veratraldehyde only the last forms a β-amino acid. The ortho-substituted benzaldehydes give no β-amino acids by the Rodionov reaction. There are 9 references, 4 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze i Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.Mendeleyeva (All-Union Scientific Chemical and Pharmaceutical Research Institute imeni S.Ordzhonikidze and Moscow Chemical Technological Institute imeni D.I.Mendeleyev)

SUBMITTED: June 27, 1957

The Synthesis of β-Amino Acids From Aromatic Oxy and Alkoxy Aldehydes SOV/79-28-8-50/66

Card 3/3

SUVOROV, N.N.; MOROZOVSKAYA, L.M.; DUDINSKAYA, A.A.

Hormones of the thyroid gland and their analogs. Part 4: Synthesis of desamino analogs of betasine. Zhur.ob.khim. 28 no.9:2601-2603 S '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(Tyrosine)

NOVIKOV, S.S.; SHVEKHGEYMER, G.A.; DUDINSKAYA, A.A.

Nitro compounds in diene synthesis. Usp.khim. 29 no.2: 187-219 F '60. (MIRA 13:6)

1. Institut organicheskoy khimii AN SSSR imeni N.D. Zelinskogo.
(Nitro compounds) (Chemistry, Organic--Synthesis)

SUVOROV, N.N.; LUDINSKAYA, A.A.

Hormones of the thyroid gland and their analogs. Part 5: New synthesis of β-thyroxine. Zhur.ob.khim. 30 no.6:2051-2055 Je '60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(THYROXINE)

DUDINSKAYA, A.A.; SHVEKHGEYMER, G.A.; NOVIKOV, S.S.; SLOVETSKIY, V.I.

Influence of the configuration of the nitrophilodienes $R-CH=CH-NO_2$ on their condensation with cyclopentadiene. Izv. AN SSSR. Otd. khim. nauk no. 1:182-184 Ja '61. (MIRA 14:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Cyclopentadiene)

DUDINSKAYA, A.A.; SHVEKHGEIMER, G.A.; NOVIKOV, S.S.

Condensation of piperylene with nitro olefins. Izv.AN SSSR.Otd. khim.nauk no.3:522-523 Mr '61. (MIRA 14:4)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.
(Piperylene) (Olefins)

NOVIKOV, S.S.; SHVEKHGEYMER, G.A.; DUDINSKAYA, A.A.

Condensation of cyclopentadiene with mono- and disubstituted nitro olefins. Izv.AN SSSR Otd.khim.nauk no.4:690-695 Ap '61. (MIRA 14:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Cyclopentadiene) (Olefins)

DUDINSKAYA, A.A.; NOVIKOV, S.S.; SHVEKHGEYMER, G.A.

Structural orientation of the diene condensation of trans-piperylene with some nitrodienophiles. Izv. AN SSSR, Ser. khim. no.2:2024-2029 '65. (MIRA 18:11)

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

BUDINSKIY, Il'ya Vladimirovich; LEPNIKOVA, Ye., red.; KOROLEVA, A., mlad. red.; NOGINA, N., tekhn. red.

[The world socialist system and the general laws of its development] Mirovaia sistema sotsializma i zakonomernosti ee razvitiia. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1961. 292 p. (MIRA 14:9)

(Communist countries—Economic conditions)

BUDINSKIY, I.

Several features of the development of the world socialist market.
Vop. ekon. no.12:40-50 D '61. (MIRA 14:12)
(Communist countries--Commerce)

DUDINSKIY, I.

Glorious results and majestic prospects. Sov. profsoiuzy 17 no.1: 48-52 Ja '61. (MIRA 14:1)
(Competition, International)

DUDINSKIY, I.

Economic growth of the world socialist system. Vop. ekon. no.5: 86-97 My '62. (MIRA 15:6)
(Communist countries—Economic conditions)

SOROKIN , G.M.; OLEYNIK, I.P., doktor ekon. nauk; RYABUSHKIN, T.V., doktor ekon. nauk; DUDINSKIY, I.V., kand. ekon. nauk; MIROSHNICHENKO, B.P., kand. ekon.nauk; SERGEYEV, V.P., kand. ekon. nauk; TARNOVSKIY, O.I., kand. ekon. nauk; STOROZHEV, V.I., kand. ist. nauk; KONOVALOV, Ye.A., kand. ekon. nauk; GERTSOVICH, G.B., kand. ekon. nauk; POPOV, K.I., kand. ekon. nauk, red.; ZEVIN, L.Z., red.; NIKOLAYEV, D.N., red.; PAK, G.V., red.; GERASIMOVA, Ye.S., tekhn. red.

[The building of communism in the U.S.S.R. and cooperation among the socialist countries]Stroitel'stvo kommunizma v SSSR i sotrudnichestvo sotsialisticheskikh stran. Pod obshchei red. G.M.Sorokina. Moskva, Ekonomizdat, 1962. 334 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy. 2. Chlen-korrespondent Akademii nauk SSSR (for Sorokin).

(Communist countries--Foreign economic relations)

Dudinskiy, Il'ya Vladimirovich

Rost ekonomicheskogo mogushchestva mirovoy sistemy sotsializma. Moskva, Ekonomizdat, 1963.

142 p. tables.

Includes bibliographical references

DUDINSKIY, I., doktor ekonom.nauk

Development of the economy and strengthening of the mutual cooperation of the countries of the Mutual Economic Assistance Council. Komm. Vooruzh. Sil 5 no.23:45-51 D '64. (MIRA 18:1)

PANKHOMENKO, Vasiliy Georgiyevich; ARKHANGEL'SKIY, N.A., prof., retsenzent; BULGAKOV, N.V., prof., retsenzent; ZAYTSEV, V.G. (Moskva), kand.tekhn. nauk, retsenzent; SHEKLAKOV, D.M. (Moskva), prepodavatel', retsenzent; PISHCHANSKAYA, B.A. (Odessa), prepodavatel', retsenzent; GUTAN, M.K., prepodavatel', retsenzent; GOL'DIN, A.E., prepodavatel', retsenzent; KHRYPOV, N.N. (Sverdlovsk), prepodavatel', retsenzent; DERYABINA, L.I., prepodavatel', retsenzent; YENGEL'YANOV, D.M. (Leningrad), prepodavatel', retsenzent; GONCHAROVA, L.D. (Simferopol'), prepodavatel', retsenzent; MATVEYEV, Ye.P., prepodavatel', retsenzent; ALEKSEYEV, I.M., prepodavatel', retsenzent; DUDINSKIY, S.L. (Leningrad), prepodavatel', retsenzent; BABUN, V.B. (Khar'kov), kand.tekhn.nauk, retsenzent; CHERNOV, N.V., prof., doktor tekhn.nauk, spetsred.; BORISOVA, O.A., red.; SUDAK, D.M., tekhn.red.

[Introduction to the study of commercial wares] Vvedenie v tovarovedenie promyshlennykh tovarov. Moskva, Gos.izd-vo torg.lit-ry, 1959. 135 p. (MIRA 12:7)
(Commercial products)

PARKHOMENKO, Vasiliy Georgiyevich; ARKHANGEL'SKIY, N.A., prof., retsenzent; [deceased]; BULGAKOV, N.V., prof., retsenzent; ZAYTSEV, V.G., retsenzent(Moskva); SHEKLAKOV, D.M., prepodavatel' tekhnikumov sovetskoy torgovli, retsenzent(Moskva); KOZLOVA, Z.V., retsenzent (Moskva); PISHCHENSKAYA, B.A., retsenzent (Odessa); GUTAN, M.K., retsenzent; GOL'DIN, A.E., retsenzent; KHRYPOV, N.N., retsenzent(Sverdlovsk); DERYABINA, L.I., retsenzent; YEMEL'YANOV, D.M., retsenzent (Leningrad); GONCHAROVA, L.D., retsenzent(Simferopol'); MATVEYEV, Ye.P., retsenzent; ALEKSEYEV, I.M., retsenzent; DUDINSKIY, S.L., retsenzent(Leningrad); BABUN, V.B., kand. tekhn. nauk, retsenzent(Khar'kov); CHERNOV, N.V., prof., doktor tekhn. nauk, spets. red.; BORISOVA, G.A., red.; GROMOV, A.S., tekhn. red.

[Introduction to a knowledge of manufactured goods]Vvedenie v tovarovedenie promyshlennykh tovarov. Izd.2., dop. i perer. Moskva, Gostorgizdat, 1962. 142 p. (MIRA 16:1)
(Commercial products)

DUDINSKII, V.N.

DUDINSKIY, V.N.

Hydraulic tracer attachments for universal lathes. Stan. i instr. 28 no.11:13-14 N '57. (MIRA 10:12)
(Lathes—Attachments)
(Hydraulic machinery)

DUDINSKIY, Ya.A. [Dudynsʹkyy, IA.A.]

Histochemical study of the cytochrome oxidase activity in intercalary growth zones. Ukr. bot. zhur. 22 no.2:15-19 '65. (MIRA 18:4)

1. Institut botaniki AN UkrSSR, otdel fiziologii.

FIALKOVSKAYA, T.; MOSKOLOV, N.; DUDINTSEV, L.

Ventilation of chambers used for motor-vehicle painting.
Avt.transp. 39 no.10:27-29 O '61. (MIRA 14:10)
(Motor vehicles—Painting)

R/008/62/000/001/004/007
D272/D304

AUTHOR: Dudiță, Fl.

TITLE: Polycardanic transmissions

PERIODICAL: Mecanică aplicată, no. 1, 1962, 79-95

TEXT: The kinematics and dynamics of polycardanic driving gear are studied to solve the problems of development of high tonnage transport vehicles. Recurrence formulas are established as a function of the kinematic parameters of the polycardanic gear - α, β, γ - which are valid for any joint of the gear considered. With the aid of the methods of the theory of sets, general conditions for realizing homokinetic devices are determined. It is demonstrated that in a n-cardanic gear ($2^{n-1} - 1$) kinematic systems are possible which fulfil the conditions of homokineticity. Several of these possible schemes are analyzed and various applications discussed. The dynamics of these systems are then examined; the general laws are established. The outputs of the cardanic joint and of the

Card 1/2

Polycardanic transmissions

translation coupling are derived, and on the basis of these the total output of the polycardanic gear drive is determined for the case of series or parallel-series (mixed) connection. Applications are illustrated in actual examples from practice. There are 7 figures and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Institutul politechnic Brasov (Brasov Polytechnic Institute)

SUBMITTED: September 18, 1961

Card 2/2

DUDITA, Florin, ing.

Autovibrations generated by the Cardanic transmission of the automobile. Constr mas 15 no.5:366-371 My '63.

1. Institutul politehnic, Brasov.

DUDITA, Fl.

Transitory conditions in automobile transmission. Studii cerc mec apl [i.e. 15] no.3:681-728 '64.

1. Polytechnic Institute, Brasov. Submitted December 16, 1963.

JAKAB, I.; TEODOSIU, C.; RUGINA, I.; DUDITA, Fl.

Experimental study method of the dynamic behavior of truck transmissions. Constr mas 16 no. 3:150-153 Mr '64.

L 36010-66
ACC NR: AP6027335 SOURCE CODE: RU/0018/66/000/001/0029/0037

12
b

AUTHOR: Dudita, Florin

ORG: none

17

TITLE: New trends in the construction of the universal-joint transmissions used in motor vehicles

SOURCE: Constructia de masini, no. 1, 1966, 29-37

TOPIC TAGS: vehicle power transmission system, vehicle component, motor vehicle, industrial development

ABSTRACT: A brief summary of the principal new types of universal-joint drives for motor vehicles, calling attention to the respective advantages and drawbacks. The devices described are manufactured in many countries, principally Western ones. Orig. art. has: 33 figures. [Based on author's Eng. abst.] [JPRS: 36,559]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 008 / SOV REF: 005
OTH REF: 061

Card 1/1 UDC: 621.82(09):629.113

NEKRASOV, Z.I., akademik; CHEKIN, V.V.; ROMANOV, V.P.; DUDKA, A.P. [Dudka, O.P.]

Effect of a rotating magnetic field on a boiling layer containing ferromagnetic particles. Dop. AN URSR no.1:42-44 '62. (MIRA 15:2)

1. Institut gornoy metallurgii AN URSR. 2. AN USSR (for Nekrasov).

(Founding)
(Ferromagnetism)

DUDKA, A.P.

Measurement of the thickness of ferromagnetic materials by Hall sensing elements. Zav. lab. 30 no.5:618-619 '64.
(MIRA 17:5)

1. Dnepropetrovskiy inzhenerno-stroitel'nyy institut.

DUDKA, I.A.

Review of the methods for investigating aquati fungi. Ukr.bot. zhur. 18 no.6:45-55 '61. (MIRA 15:3)

1. Institut botaniki AN USSR, otdel mikologii.
(Fungi) (Water--Microbiology)

DUDKA, I.A. [Dudka, I.O.]

Aquatic Hyphomycetes species new to the U.S.S.R. Ukr.bot.zhur. 19 no.1:66-71 '62. (MIRA 15:4)

1. Institut botaniki AN USSR, otdel mikologii.
(Hyphomycetes)

BUDKA, I.A.

First discovery of the genus Blastocladia in the U.S.S.R. Bot. mat. Otd. spor. rast. 16:83-87 '63. (MIRA 16:10)

DUDKA, I.A.[Dudka, I.O.]

Materials on the flora of aquatic fungi of the Ukrainian S.S.R. Part 1: Species of the genus Stagonospora Sacc. from the Kiev area. Ukr. bot. zhur. 20 no.2:76-79 '63. (MIRA 16:6)

1. Institut botaniki AN UkrSSR, otdel mikologii.
(Kiev region—Stagonospora)

DUDKA, I.A. [Dudka, I.O.]

Data on the flora of aquatic fungi of the Ukrainian S.S.R.
Report No.2: Aquatic hyphomycetes of the Kiev area of Polesye.
Ukr. bot. zhur. 20 no.4:86-93 '63. (MIRA 17:4)

1. Institut botaniki AN UkrSSR, laboratoriya mikologii.

DUDKA, I.A. [Dudka, I.O.]

Materials on the flora of aquatic fungi of the Ukrainian S.S.R. Report No. 3: Aquatic ascomycetes from the environs of Kiev. Ukr. bot. zhur. 20 no.6:86-91 '63. (MIRA 17:2)

1. Institut botaniki AN UkrSSR, laboratoriya mikologii.

DUDKA, I.A.; MONCHENKO, V.I.

Fungus Catenaria anguillulae Sorokin in the body cavity of cyclops (Crustacea, Copepoda). Dop. AN URSR no.11:1537-1540 '63. (MIRA 17:12)

1. Institut botaniki AN UkrSSR i Institut zoologii AN UkrSSR.

DUDKA, I.A. [Dudka, I.O.]

Ecology and seasonal dynamics of aquatic hyphomycetes of the southern part of the Kiev Polesye. Urk. bot. zhur. 21 no.5:50- '64.
(MIRA 18:)

1. Laboratoriya mikologii Instituta botaniki AN UkrSSR

DUDKA, I. A.

"On the effect of oxygene regime of water basins on the seasonal dynamics of aquatic hyphomycetes."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

AS UkSSR, Kiev.

DUDKA, M.; BASOVICH, O. [Basovych, H.], insh.

Constructing collective farm buildings without using wooden elements. Sil'.bud. 7 no.7:14-15 Jl '57. (MIRA 12:11)

1. Glavnyy inzhener Mikhaylovskoy meshkolkhoznoy stroitel'noy organizatsii (for Dudka).
(Building blocks)

DUBKEVICH, B.N.

Some aspects of studying the sensitivity of a-c electric measuring circuits. Izv. SO AN SSSR no.6 Ser. tekh. nauk no.2: 117-120 '64. (MIRA 17:10)

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR, Novosibirsk.