"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, P.T.

[Manufacture of concrete tiles and construction of tile roofs on collective farms] Proizvodstvo tsementno-peschanoi cherepitsy i ustroistvo cherepichnoi krovli v kolkhozakh. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 59 p.
(Tiles) (Tiles, Roofing) (MLRA 9:3)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, P.T.; YEVSTYUGOV, A.I., nauchnyy redaktor; GURVICH, E.A., redaktor; LYUBKOVSKAYA, N.I., tekhnicheskikh nauk

[Manufacture of concrete wall blocks on collective farms; workers' manual] Proizvodstvo stenovykh betonnykh kamnei v kolkhozakh; posobie dlia podgotovki rabochikh. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1956. 75 p. (MLRA 9:12)
(Concrete blocks)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV P.T.

ZORIN, P.A.; MARTYNOV, P.T.; SOBOLEV, M.A., nauchnyy redaktor; GRINBERG, S.M., redaktor; GLADKIKH, N.N., tekhnicheskiy redaktor.

[Local unfired building materials] Mestnye bezobzhigonye stroitel'nye materialy. Moskva, Gos.izd-vo lit-ry po stroit.materialam, 1956. 122 p. (MLRA 10:6)

(Building materials)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, P., inzhener.

Mobile unit for making building blocks out of soil. Sel'.stroi. 11 no.6:4-6 Je '56. (MLRA 9:9)
(Building blocks)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, P., inzhener.

New bench for manufacturing cement and sand tiles. Sel'.stroi. 11 [i.e.12] no.1:22-23 Ja '57. (MLRA 10:3)
(Tiles, Roofing)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, Pavel Timofeyevich; RAZINKOV, P., redaktor; YEGOROVA, I., tekhnicheskiy redaktor

[Using gypsum in rural construction] Primenenie gipsa v sel'skom stroitel'stve [Moskva] Mosk.rabochii, 1957. 100 p. (MLRA 10:10)
(Gypsum)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, Pavel Timofeyevich; NIKIFOROV, Vasiliy Spiridonovich; KOBYLYAKOV, L.M., redaktor; BALLOD, A.I., tekhnicheskiy redaktor.

[Local building materials in agriculture] Mestnye stroitel'nye materialy v sel'skom khoziaistve. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1957. 484 p. (MIRA 10:11)

(Building materials)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

BOGATYKH, Ya.D.; GALAKTIONOV, A.A.; DZIKAN, V.A.; YEVSTYUGOV, A.I.; KOZLOVSKIY, A.S.; MARTYNOV, P.T.; DUBROVSKIY, V.A., red.; FEDOTOVA, A.F., tekhn. red.

[Collective farm builder] Stroitel' v kolkhoze. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 502 s. (MIRA 11:12)
(Building)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, Pavel Timofeyevich; RAZINKOV, P., red.; LIL'YE, A., tekhn.red.

[Precast concrete in rural construction] Sbornyi beton v sel'skom stroitel'stve. Moskva, Mosk.rabochii, 1959. 138 p. (MIRA 12:8)

(Farm buildings) (Precast concrete construction)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

ZORIN, Petr Alekseyevich, inzh.; KRYLOV, Nikolay Vital'yevich, inzh.-arkhitektor; MARTYNOV, Pavel Timofeyevich, inzh.; RAZINKOV, P., red.; LIL'YE, A., tekhn.red.

[Handbook for rural builders; building materials, details, and construction elements] V pomoshch' sel'skomu stroiteliu; stroitel'nye materialy, detali i konstruktsii. Moskva, Mosk.rabochii, 1959. 438 p. (MIRA 13:5)

(Building)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

ZORIN, Petr Alekseyevich, inzh.; KRYLOV, Nikolay Vital'yevich, inzh.-arkhitektor [deceased]; MARTYNOV, Pavel Timofeyevich, inzh.; RAZINKOV, P., red.; PAVLOVA, S., tekhn.red.

[Helping rural builders] V pomoshch' sel'skomu stroiteliu. Izd.2., perer. i dop. Moskva, Mosk.rabochii, 1960. 494 p. (MIRA 14:4)

(Construction industry)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

ARKHANGEL'SKIY, P.Ye.; BERNSHTEYN, A.M.; BYKOV, M.A.; DLUGACH, M.L.; IL'YASHEVSKIY, Ya.A.; KIRILLOV, A.A.; KOZLOVSKIY, A.S.; KRYLOV, N.V.; LESOV, N.M.; MARTYNOV, P.T.; NIKANDROV, B.I.; PARUNIN, V.Ye.; RUDANOV, M.L.; SINYAKOV, V.K.; FAL'KNER, O.G.; PETRYAKOV, A.I., red.; BALLOD, A.I., tekhn.red.

[Manual on the construction of farm buildings] Spravochnik po sel'skokhoziaistvennomu stroitel'stvu. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 704 p.
(Farm buildings) (MIRA 13:12)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

BOGATYKH, Ya.D.; GALAKTIONOV, A.A.; DZIKAN, V.A.; YEVSTYUGOV, A.I.; KOZLOVSKIY, A.S.; MARTYNOV, P.T.; BANNIKOV, S.A., red.; PROKOF'YEVA, L.N., tekhn. red.

[Textbook for training agricultural construction workers] Posobie po podgotovke rabochikh-stroitelei v sel'skom khozaistve. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1961. 638 p. (MIRA 14:5)

(Building trades)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MA[illegible], [illegible]. V.

How to choos[illegible] [illegible] [illegible] [illegible]. [illegible]va, 1[illegible]. [illegible] p.

1. [illegible] culture - Equipment [illegible] su[illegible].

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

PISHCHEV, V.M.; MARTYNOV, P.V.

All-Union State Standard 6942-54 "Cast-iron sewer pipes and fittings." Vod. i san. tekh. no.5:20-23 My '60. (MIRA 13:10)
(Sewer pipe--Standards)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MAKSIMOV, P.M., professor; NEVSKIY, A.A., assistent; NAGOVITSINA, M.A., assistent; MARTYNOV, P.V., assistent; URLASHEVA, A.V., assistent

Substitution of blood in clinical practice. Vest.khir. no.5: 30-33 '61. (MIRA 15:1)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. P.M. Maksimov) i gospital'noy terapevticheskoy kliniki (zav. - prof. Ye.S. Myasoyedov) Ivanovskogo meditsinskogo instituta.
(BLOOD PLASMA SUBSTITUTES)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, R.D., kapitan 3-go ranga

Socialist competition in a unit. Vest.protivovozd.obor. no.12:52-54 D '61. (MIRA 15:3)

(Military education)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

RYSKAL', A.; KROKHIN, I.; MARTYNOV, S.

Letters to the editor. Voen. znan. 39 no.6:20 Je '63. (MIRA 16:8)

1. Zamestitel' predsedatelya oblastnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu, Aktyubinsk (for Ryskal'). 2. Predsedatel' komiteta pervichnoy organizatsii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu domoupravleniya No.4, Chernigov (for Krokhin). 3. Predsedatel' komiteta pervichnoy organizatsii Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu, Leningrad (for Martynov).
(Military education)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S.F.

SHAROV, N.V.; SHAKHET, G.P.; RAMENOV, A.S.; KUKHAREV, P.P.; KLOCHKOV, S.A., retsenzent; MARTYNOV, S.F., retsenzent; OSIPOV, Ya.I., retsenzent.

[Machinery and apparatus for the fur industry] Mashiny i apparaty mekhovogo proizvodstva. Pod obshchei red. N.V.Sharova. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1953. 358 p. (MLRA 7:6)
(Fur industry)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

1. MARTINOV, S. I.

2. USSR (600)

4. Machinery-Maintenance and Repair

7. General socialist competition for better utilization of equipment. Avt. tra t. prom. no. 11, 19[illegible] .

9. Monthly List of Russian Accessions. Library of Congress, March 1953, Uncl.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S.I.

AID P - 1880

Subject : USSR/Meteorology and Hydrology

Card 1/1 Pub. 71-a - 23/26

Author : Martynov, S. I. and Popov, O. S.

Title : Are our theorists departing from the practitioners

Periodical : Met. i gidro., no.2, 59-60, 1955

Abstract : A critical review of the new edition of Nastavleniya Gidrometeorologicheskim stantsiyam (Directives for Hydrometeorological Stations). Many errors have not been corrected, some requirements are impossible to fullfil, others are too vague, and some definitions are incorrect. The authors strongly recommend the publishing of a new, revised edition.

Institution : None

Submitted : No date

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S.M., dots.; KURIY, Kh.V.; NIKIFORUK, Ya.I.; RABINOVICH, A.R.

Coombs' antiglobulin test and its significance in the diagnosis of autoimmune hemolytic anemias [with summary in English, p.60]. Peobl. gemat. i perel.krovi 2 no.6:15-20 N-D '57. (MIRA 11:2)

1. iz L'vovskogo nauchno-issledovatel'skogo instituta pereliveniya krovi (dir. - dotsent D.G.Petrov)
(ANEMIA, HEMOLYTIC, immunology, autoimmune, Coombs' test (Rus))

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S.M., dotsent

Thromboplastin-forming effect of hemotransfusion in the thrombopenic syndrome and hemophilia. Probl.gemat. i perel.krovi 4 no.3:26-31 Mr '59. (MIRA 12:6)

1. Iz gematologicheskogo otdeleniya L'vovskogo nauchno-issledovatel'skogo instituta perelivaniya krovi (dir. - dotsent D.G. Petrov).

(PURPURA, THROMBOPENIC, ther.
blood transfusion, eff. on thromboplastin form. (Rus))
(HEMOPHILIA, ther.
same)
(BLOOD TRANSFUSION, in various dis.
thrombopenic purpura & hemophilia, eff. on thromboplastic form. (Rus))
(THROMBOPLASTIN
form. in thrombopenic purpura & hemophilia, eff. of blood transfusion (Rus))

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S.M.

Myeloplastic syndrome. Sbor.trud.L'vov. nauch.-issl. inst. perel. krovi i neotlozh. khir. no.4:5-20 '60. (MIRA 16:12)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S.M.; KURIY, Kh.V.; GROMATSKIY, N.I.

Passive agglutination of erythrocytes as a diagnostic method for some immunohemopathies. Sbor. trud. L'vov. nauch. -issl. inst. perel. krovi i neotlosh. khir. no.4:55-63 '60
(MIRA 16:12)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S.M., dotsent

Saturation of blood with oxygen in an anoxemia test using oximetry. Nauch.trudy L'vov.obl.terap.ob-va no.1:49-54 '61. (MIRA 16:5)

1. Kafedra fakul'tetskoy terapii pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov L'vovskogo meditsinskogo instituta.
(ANOXEMIA) (CORONARY HEART DISEASE)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S. M.; SIMBIRTSEVA, G. D. (L'vov)

Secretion of uropepsinogen during the treatment of peptic ulcer. Klin. med. no.2:31-35 '62. (MIRA 15:4)

1. Iz kafedry fakul'tetskoy terapii (zav. - dotsent S. M. Martynov) pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov L'vovskogo meditsinskogo instituta.

(PEPTIC ULCER) (UROPEPSINOGEN)

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L 1353-66 EWT(m)/EPF(c)/EWP(j)/T DJ/RM

ACCESSION NR: AP5024394 UR/0286/65/000/015/0079/0079
678.058:678.029

AUTHOR: Mats, G. S.; Dubiner, M. I.; Martynov, S. V.

TITLE: A device for continuous vulcanization of rolled products. Class 39, No. 173399

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 79

TOPIC TAGS: vulcanization, asbestos product

ABSTRACT: This Author's Certificate introduces: 1. A device for continuous vulcanization of rolled products, e. g. asbestos friction belts. The device contains two endless steel traction pressing bands which pass over tension guide rollers, and a vulcanization drum mounted on frames in fixed bearings. Over the surface of the drum are electric heating elements. The device is designed for increased productivity and high quality vulcanization of the finished products. The fixed vulcanization drum is connected with two movable vulcanization drums by rods. These rods are of equal length and are hinged to hydraulic cylinders which move the drums and tighten the pressing plates. 2. A modification of this device with double vulcani-

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ACCESSION NR: AP5024394

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zation drums. The drums are concentrically located, the outer drum rotating freely above the surface of the inner drum, which is fastened tightly to a movable pipe. Replaceable electric heater stacks are mounted on the surface of the inner drum.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut asbestovykh tekhnicheskikh izdeliy (All-Union Scientific Research Institute of Industrial Asbestos Products) 44

SUBMITTED: 12Apr63 ENCL: 00 SUB CODE: IE, MT

NO REF SOV: 000 OTHER: 000

Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S.Ya.

Standardization office in a plant. Standartizatsiia [illegible]: 43-44 S '61. (Mira 14:9)

(Briansk—Automobile industry)
(Standardization)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, S.Ya.

Standardization at the Bryansk Automobile Plant. Standartizatsiia 27 no.12:41-42 D '63. (MIRA 17:4)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

FILIPPOV, S.I.; MARTYNOV, S.Z.

Kinetic regularities of direct oxidation of additions in molten iron. Izv. vys. ucheb. zav.; Cern. met. no. 1:5-11 '61.
(MIRA 14:2)

1. Moskovskiy institut stali.
(Steel--Metallurgy)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.A.

Determining geometric dimensions of a flat distributor sleeve-valve in hydraulic machines. Nauch.dokl.vys.shkoly; mash.i prib. no.4:53-58 '58. (MIRA 12:5)

1. Stat'ya predstavlena Leningradskim Voyenno-mekhanicheskim institutom.

(Valves)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, Vladlen Arkad'yevich; PANTELEYEV, V., red.; CHEPELEVA, O., tekhn.red.

[American farmers under the yoke of monopolies] Amerikanskie fermery pod gnetom monopolii. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1960. 213 p. (MIRA 13:12)
(United States--Agriculture)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, Vladimir Alekseyevich; LAVRENT'YEVA, Ye.V., red.; GOLITSYN, A.V., red.kart; GLEYKH, D.A., tekhn.red.

[The Lebanon; travel notes] V Livane; putevye zametki. Moskva, Gos.izd-vo geogr.lit-ry, 1959. 51 p. (MIRA 13:1)
(Lebanon--Description and travel)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, Vladimir Aleksoyevich; SKOROV, G.Ye., otv.red.; ZOTOVA, Yu.N., red.izd-va; TSIGEL'MAN, L.T., tekhn.red.

[The Congo under the yoke of imperialism; social and economic problems of the Belgian colony] Kongo pod gnetom imperializma; sotsial'no-ekonomicheskie problemy bel'giiskoi kolonii. Moskva, Izd-vo vostochnoi lit-ry, 1959. 232 p. (MIRA 13:2)

(Congo, Belgian--Economic conditions)
(Congo, Belgian--Politics and government)

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Martynov, Valentin Alekseyevich; Selikhov, Yuriy Ivanovich

Panoramic receivers and spectrum analyzers (Panoramnyye priyemniki i analizatory spektra) Moscow, Izd-vo "Sovetskoye Radio", 1964. 407 p. illus., biblio. 5350 copies printed. Under the editorship of G. D. Zavarin. Editor: K. I. Kuchumova; Technical editor: G. Z. Shalimova

TOPIC TAGS: panoramic radio receiver, radio emission spectrum analyzer, narrow band channel, wide band channel, frequency convertor

PURPOSE AND COVERAGE: This book was intended for instructors, engineers, and students at vuzes concerned with problems of the observations used for radio communication and for analysis of the spectra of radio emission. Basic prindiples and methods of building a panoramic radio receiver are analyzed; the fields of application and the purpose of such panoramic equipment are determined; their requirements are formulated; the relationships among the basic parameters of such equipment are established; design relationships are given; and functional systems for these devices are analyzed. Basic theoretical and technical questions are illus-

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trated on examples of existing apparatus. Recommendations are given concerning the design of channels and subassemblies. In addition to the authors, V. A. Malyutin and B. P. Illis helped write some sections. The authors express their gratitude also to Candidate of Technical Sciences Z. G. Berson.

TABLE OF CONTENTS:

Foreword - - 3
Introduction - - 5
Ch. I. Principles of constructing a panoramic radio receiver and of analyzing radio-emission spectra - - 11
Ch. II. Narrow-band channel of panoramic equipment - - 51
Ch. III. Wide-band channel of panoramic equipment - - 119
Ch. IV. Frequency conversion in panoramic equipment - - 150
Ch. V. Indication and recording of signals - - 209
Ch. VI. The panoramic receiver and spectral analysis - - 246
Ch. VII. Practical systems of panoramic receivers and spectral analyzers - - 320
Ch. VIII. Methods of improving the indications of panoramic equipment - - 358

Card 2/3

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Literature - - 405

SUB CODE: EC SUBMITTED: 5Nov64 NR REF SOV: 045

OTHER: 002

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

GONCHAROV, L.V., otv. red.; MARTYNOV, V.A., red. SVANIDZE, I.A., red.; KARTUZOV, S.F., red.; KOZLOVSKAYA, G.M., red.

[Economics of Africa] Ekonomika Afriki; sbornik statei. Moskva, Nauka, 1965. 174 p. (MIRA 18:9)

1. Akademiya nauk SSSR. Institut Afriki.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

SAKS, V.N., glav. red.; [illegible], [illegible] A., zam. glav. red.; BINKE, S.F., red.; [illegible], [illegible], red.; VOLKOVA, V.S., red.; GROMOV, V.I., red.; [illegible], I.K., red.; LAVRENTYEV, A.I., red.; MARTYNOV, V.A., red.; NIKOLAYEV, N.I., red.; STRELKOV, S.A., red.; [illegible]ITSKIY, [illegible], red.; CHOCHIA, N.G., red.; SHANTSER, Ye.V., red.; [illegible]ATSKIY, S.B., red.

[Basic problems in the study of the Quaternary period; for the 7th [illegible] of INQUA, [illegible] A., 1965] Osnovnye problemy izucheniia chetvertichnogo perioda; k VII Kongressu INQUA (SShA, 1965). Moskva, Nauka, 1965. 495 p. (MIRA 18:9)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki [illegible] Department AN SSSR (for Saks).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.A.; NIKITIN, V.P.

[illegible] Irgiacial layers in the [illegible] of the [illegible] "continent" on the [illegible] River. [illegible]
Sib. [illegible] AN [illegible] no. 5:[illegible]-8. [illegible]

[illegible]

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, Valentin Alekseyevich; SELIKHOV, Yuriy Ivanovich;
Prinimali uchastiye: MALYUTIN, V.A.; ILLIS, B.I.;
ZAVARIN, G.D., red.; KUCHUMOVA, K.I., red.

[Panoramic receivers and spectrum analyzers] Panoramnye priemniki i analizatory spektra. Moskva, Sovetskoe radio, 1964. 407 p. (MIRA 17:12)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

SELIKHOV, A[illegible] (Kiev), MARTYNOV, V.A.; [illegible], A.Ye.

[illegible] of [illegible] in the U.S.A.; travel notes; [illegible] elektrifikatsii sel'skogo khoziaistva SShA; putevye zapiski. Moskva, Nauka, 1965. 169 p. (MIRA 18:12)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.B., DVOSKIN, L.I., SAVEL'YEV, V.P., USPENSKIY, B.S., YAKUB, YU.A.

"The 330-500,000 V step-down sub-stations and their main equipment."

Report to be submitted for the 19th Biennial Session, Intl. Conf. on Large Electric Systems(CIGRE), Paris, France, 16-26 May '62.

DVOSKIN, All-Union Scientific Research Planning Inst. of Thermoelectric Industry.
MARTYNOV, none given
SAVEL'YEV, All-Union Electrical Engineering Inst. im V.I. Lenin
USPENSKIY, All-Uni n Inst. for Planning Hydroelectric Power Stations
Yakub, none given

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.B., inzh.; FUZYRIYSKIY, G.S., inzh.

VEI air switches. Vest.elektroprom. 33 no.2:34-38 F '62. (MIRA 15:2)

(Electric cutouts)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.D., kand. tekhn. nauk, dotsent

U ing the similitude method in determining basic parameters of solution mixers. Izv. vys.ucheb. zav.; mashinostr. no.10: 167-172 '64 (MIRA 18:1)

1. Moskovskiy inzhenerno-stroitel'nyy institut.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYN V, V.D., Cand Tech Sci -- (diss) "Study of the technological process of polishing 65G ~~belt~~ beer steel by self-~~copying~~ tracking method." Rostov-on-Don, 19[illegible], 2[illegible] p. with drawings (Min of Higher Education [illegible]. Georgian Order of Labor Red Banner Polytechnic Inst im S.M. Kirov) 20[illegible] copies (KL, [illegible], [illegible])



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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

SOV/122-59-3-39/42

AUTHOR: Martynov, V.D.

TITLE: Investigation of the Manufacturing Process in the Grinding of 65G Steel Gauge Plate by the Automatic Copying Method (Issledovaniye tekhnologicheskogo protsessa shlifovaniya polosovoy stali 65G metodom samokopirovaniya)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 3, p 88 (USSR)

ABSTRACT: Author's summary of a dissertation submitted to the Georgian Polytechnic Institute (Gruzinskiy Politekhnicheskiy Institut, Ordena Trudovogo Krasnogo Znameni Imeni S.M. Kirova) for the attainment of the Degree of Candidate of Technical Sciences. The new automatic grinding method, using a floating grinding wheel, has been examined. Empirical equations, which determine the effect of basic production factors on the height of micro-unevennesses, the mean depth of metal removal and the required power in grinding by the automatic copying

Card 1/2

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SOV/122-59-3-39/42

Investigation of the Manufacturing Process in the Grinding of 65G Steel Gauge Plate by the Automatic Copying Method

method have been derived. Recommendations for the practical design of special grinding machines intended for the grinding of steel strips have been given.

Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

TEPINKICHIYEV, V.K., [illegible] ; [illegible], V.[illegible], [illegible]
CHERNYA, N.N., [illegible] ; [illegible], V.N., [illegible]
red.; [illegible], V.A. [illegible] Spol. [illegible], [illegible]
BABIKOV, V.V., [illegible].

[Use of ultrasonic [illegible] facture] Primenenie [illegible] mashinostroenii. [illegible] 1964. 157 p. [illegible]

1. Rostov-[illegible] [illegible] nostroyeniya.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.D., dotsent.

KP-4M tractor-drawn field cultivator. Sel'khozmashina no.11:15-17 N '55. (MLRA 9:1)

1.RISKhM.

(Cultivators)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

PETRUSHOV, A., doktor ekonom.nauk; AFANAS'YEV, L.A., kand.ekonom.nauk; DANILEVICH, M.V., kand.ekonom.nauk; YEGIAZAROVA, N.A., kand.ekonom. nauk; KOVALEV, Ye.V.; KOL', M.A.; KUZNETSOV, B.P., kand.ekonom. nauk; KUTSOBINA, N.K.; MARTYNOV, V.A., kand.ekonom.nauk; MEN'SHIKOVA, M.A.; NIKITENKO, B.A.; ONUFRIYEV, Yu.G.; PROKHOROVA, G.N.; RYDVANOV, N.F.; SEGAL', N.M., kand.istor.nauk; UKHOVA, A.M.; FARIZOV, I.O., kand.istor.nauk; SHIFRIN, E.L., doktor ekonom.nauk; SHLIKHTER, A.A., kand.ekonom.nauk; LISOVSKIY, Yu.P.; MARTYNOV, V.D.; GARSIA, L., red.; MOSKVINA, R., tekhn.red.

[Agriculture of capitalist countries; a statistical manual] Sel'skoe khoziaistvo kapitalisticheskikh stran; statisticheskii spravochnik. Otvet.red.A.Petrushov. Moskva, Izd-vo sotsial'no-ekon.lit-ry, 1959. 829 p. (MIRA 13:6)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy.
(Agriculture--Statistics)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.D., inzh.

Calculating the power of engines used in drives of paddled mortar mixers. Stroi.i dor.mashinostr. 4 no.9:8-11 S '59. (MIRA 12:11)

(Mixing machinery)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

S/653/61/000/000/010/051
I060/I260

AUTHORS: Martynov, V.D., and Bespamyatnov, V.P.

TITLE: Investigation of application of woodplastics in agricultural machinery in machine building plants of the Rostov Sovnarkhoz

SOURCE: Plastmassy v mashinostroyenii i priborostroyenii. Pervaya respublikanskaya nauchno-tekhnicheskaya konferentsiya po voprosam primeneniya plastmass v mashinostroyenii i priborostroyenii, Kiev, 1959. Kiev, Gostekhizdat, 1961, 95-104

TEXT: Research dealt with the following subjects: 1. Preparation of a list of metal and wooden parts of agricultural machines which can be replaced by plastics with a resulting economic advantage. 2. Development of a method of estimating economic efficiency of plastic parts. 3. Changes of design of parts, so as to facilitate their fabrication from plastic materials. 4. Laboratory investiga

Card 1/2

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S/653/61/000/000/010/051
I060/I260

Investigation of application of woodplastics...

of powders and selection of compositions possessing the required physical and mechanical properties. 5. Introduction of component parts of plastic materials into combines. It has been found that for the combine CK-3(SK-3) 60 parts with a total weight of 162.5 kgs. can be replaced by plastics. The capital investment for fabrication of these parts will be recouped in less than 6 months. The design of many metal and wooden parts will have to be changed if they have to be replaced by plastics. The powders manufactured by the ROSTEL-MASh plant are simple in compounding, cheap and satisfy physical and mechanical requirments. Eight metal parts of the combine SK-3 can be replaced by plastics with a resulting 80% reduction of weight, and 50% reduction of cost of these parts. There are 3 figures and 1 table.

Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

CHUNTYZHEV, Kh.O.; PRONIN, S.V.; LISOVSKIY, Yu.P.; MARTYNOV, V.D.; MARKARYAN, S.B.; FARIZOV, I.O.; ALEKSANDROVSKAYA, L.I.; USOV, G.A.; TIMUR, M.; YURLOV, P.F.; AFANAS'YEV, L.A., otv. red.; GARSIA, L., red.; DARONYAN, M., mladshiy red.; NOGINA, N., tekhn. red.

[Agricultural cooperation under the conditions of capitalism] Sel'skokhoziaistvennaia kooperatsiia v usloviiakh kapitalizma. Moskva, Sotsekgiz, 1963. 350 p. (MIRA 16:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy.
(Agriculture, Cooperative) (Capitalism)

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L 57534-65 EWT(d)/EWT(m)/EWP(i)/EWP(c)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/EWA(h) Pf-4/Peb JD

ACCESSION NR: AR5015175 UR/0137/65/000/005/D014/D014

SOURCE: Ref. zh. Metallurgiya, Abs. 5D88

35
B

AUTHOR: Martynov, V. D.; Ignatenko, N. N.; Shadchinev, V. A.; Cherepakhin, A. N.; Chernya, N. N.; Monakhov, V. N.

TITLE: Automatic ultrasonic production line for cleaning grease from rolled metal rods with a diameter from 10 to 70 mm

CITED SOURCE: Sb. Primeneniye ul'trazvuka v s.-kh. mashinostr. Rostov-na-Donu, Rostovsk. un-t, 1964, 109-120

TOPIC TAGS: ultrasonics, ultrasonic cleaning, cleaning, grease, metal rod

TRANSLATION: The article describes an experiment carried out in the Rostsel'mash plant on ultrasonic cleaning of grease from rolled rod. Several different methods of cleaning are presented and recommendations are given as to a choice of the most efficient cleaning methods applying chemical and ultrasonic means. A. Leont'yev.

SUB CODE: MM, IE ENCL: 00

Card 1/1

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V. F.: Master Vet Sci (diss) -- "A study of opisthorchiasis [illegible] vores under the conditions of the Khanty-Mansi National Okrug (Epidemiology, immunodiagnosis, and therapy)". Moscow, 1[illegible]. 14 pp (All-Union Acad Agric Sci im V. I. Lenin, All-Union Inst of Helminthology im Acad K. I. Skryabin), 1[illegible] copies (KL, No 14, 1[illegible], 1[illegible])

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.F.; SALAZKIN, A.A.

Distribution of the mollusk Bithynia leachi in Western Siberia. Zool.zhur. 41 no.1:135-138 Ja '62. (MIRA 15:4)

1. Agricultural Experimental Station of Khanty-Mansiysk, and Oz-Tazov Branch of the All-Union Research Institute of Lake and River Fishery Management.
(Siberia, Western--Mollusks)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.F.

Invasion of fish by metacercaria of Opisthorchis felineus in the Khanty-Mansiysk National Territory. Med.paraz. i paraz.bol. supplement to no.1:68 '57. (MIRA 11:1)

1. Iz Khanty-Mansiyskoy sel'skokhozyaystvennoy opytnoy stantsii.
(KHANTY-MANSIYSK NATIONAL TERRITORY--TAPEWORMS)
(PARASITES--FISHES)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V.F.

The problem of the distribution of opisthorchiasis among people, certain carnivores and fish in the Khanty-Mansi Area, Tyumen' Province. Med. paraz. i paraz. bol. 27 no.2:172-173 Mr-Ap '58 (MIRA 11:5)

1. Iz Khanty-Mansiyskoy sel'skokhozyaystvennoy opytnoy stantsii.
(TREMATODE INFECTIONS,
opisthorchiasis spread among people & animals in Russia (Rus))

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(1) [illegible]

(2) "[illegible] alpha [illegible]:

1. [illegible]

2. [illegible]

3. [illegible]

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

Ca

**α-Keto oxides. I. Hydrogenation of aliphatic-aromatic α-keto oxides.** T. I. Temnikova and V. F. Martynov (Leningrad State Univ.). *J. Gen. Chem.* (U.S.S.R.) 15, 490-513(1945)(English summary)—Chloroacetone (70 g.), 100 g. BzH, and 100 cc. MeOH were treated with cooling and stirring with MeONa (from 15 g. Na) in 250 g. MeOH; after filtration, treatment with water acidified by AcOH, and extn. with $Et_2O$ there was obtained 50% *benzylidenacetone oxide* (I), $b_{10}$ 134-7°, m. 56-7° (from MeOH, then petr. ether); *semicarbazone*, m. 140-1° (from EtOH). $ClCH_2COEt$ (30 g.) and 35 g. BzH in 10 cc. MeOH, treated as above with MeONa (from 6.3 g. Na) in 80 cc. MeOH, gave 54% *1-phenyl-2-propionylethylene oxide* (II), $b_3$ 138-40°, m. 53-3° (from petr. ether); *semicarbazone*, m. 127-9° (from EtOH). Similarly, $MeCOCHClMe$ gave 60% *1-phenyl-2-acetylpropylene oxide*, $b_3$ 113-14°, $d_4^{20}$ 1.092, $d_4^{15}$ 1.082, $n_D^{15}$ 1.52180 (III); *semicarbazone*, m. 115-18° (from EtOH). Hydrogenation of these in $Et_2O$ in the presence of Pt Black was shown to proceed in steps with addn. of the 1st $H_2$ being 4-5 times faster than the addn. of the 2nd $H_2$, the addn. of $H_2$ to I and II gave oxides of the corresponding unsatd. alks., while addn. of $2H_2$ gave the corresponding glycols. The products thus isolated were: *methylstyrylcarbinol oxide*, $b_3$ 128-30°, $d_4^{20}$ 1.105, $n_D^{20}$ 1.53233, which, on treatment with water, in the presence of a several drops $H_2SO_4$, hydrated to *α-phenyl-γ-ethylglycerol*, m. 95-7° (from $Et_2O$); *ethylstyrylcarbinol oxide*, $b_3$ 132-4°, m. 43-5° (from petr. ether), which hydrated to *α-phenyl-γ-ethylglycerol* (from III), (from $Et_2O$); and *methylbenzylacetylcarbinol* (from III), $b_3$ 118-19°, $d_4^{20}$ 1.0905, $d_4^{15}$ 1.0722, $n_D^{15}$ 1.51258 (*semicarbazone*, 158-9° (from EtOH)), which failed to hydrate under the conditions given above. The glycols from the addn. of $2H_2$ were: *1-methyl-2-benzylethylene glycol*, m. 52-3°, $b_3$ 154-5°; *1-ethyl-2-benzylethylene glycol*, $b_3$ 160-3°-4°; and *1,2-dimethyl-1-benzylethylene glycol*, $b_3$ [illegible]

G. M. Kosolapoff

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1. BUTLEROV, A. M.: MARTYNOV, V. F.

2. USSR (600)

4. Butlerov, Aleksandr Mikhailovich, 1828-1886

7. Natural-materialistic views of A. M. Butlerov. Vest Len. un. 7 no. 2, 1952.

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

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

DANILOV, S. N.; MARTYNOV, V. F.

Glycidic Acid

Investigations of compounds containing a three-membered oxide ring. Part 1. Reaction of the ethyl ester of β,β-dimethylglycidic acid with ammonia. Zhur. ob. khim. 22 no. 9, 1952

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

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V. F.

Martynov, V. F., Rozenine, N. A.-"Investigation of compounds containing a three-membered oxide ring. Part 2. Reaction of the ethyl ester of BB' -dimethylglycidic acid with hydrogen sulfide." (p. 1577)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1955, Vol. 25, No. 9

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

MARTYNOV, V. F.

Compounds containing a three membered oxide ring. III. Reaction of ethyl ester of β,β'-dimethylglycidic acid with aniline. V. F. Martynov (A. A. Zhdanov State Univ., Leningrad). *Sbornik Statei Obshchei Khim., Akad. Nauk S.S.S.R.* 1, 378-81(1953); cf. *C.A.* 48, 4440g.—In the reaction of Et β,β'-dimethylglycidate with $PhNH_2$ the oxide ring is cleaved at the tertiary C atom. Heating 20 g. Et β,β-dimethylglycidate with 30 g. $PhNH_2$ in a sealed tube 6 hrs. to 150-70° gave 19 g. solid product, $b_{11}$ 183-4°, m. 70-1°, identified as *$PhNHCMe_2CH(OH)CO_2Et$* (I). I (4 g.) was added to 10 ml. $H_2SO_4$ and heated with an open flame, yielding much $CO_2$ the reaction being completed at about 120°, and yielding on dilu. with $H_2O$, 92% *2,3-dimethylindole*, m. 101-2°; *picrate*, m. 155-6°; *adduct with 2,4,6-trinitrotoluene*, m. 123-4° (cf. Schickh, *C.A.* 30, 4817). G. M. Kosolapoff

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MARTYNOV, V. F.

USSR

Compoun[illegible]taining a three-membered oxide ring. IV. React[illegible]drogen sulfide with oxides of 1-methyl-1-ethylethyle[illegible]ad 1-methyl-1-phenylethylene. V. F. Martynov and [illegible] M. Romanov (A. A. Zhdanov State Univ., Leningrad). *Sbornik. Statei Obshchei Khim.* 2, 970-5 (1953); cf. *C.A.* 49, 997h, [illegible]a) crude chlorohydrin from $ClCH_2Ac$ and $PhMgBr$ yield[illegible] with powd. KOH 09% α-methylstyrene oxide (I), b. 74-5°. This (15 g.) was added over 2 hrs. to 10 g. $Ba(OH)_2$ in 75 ml. 75% EtOH which had been satd. with $H_2S$, the mixt. treated 1.5 hrs. with $H_2S$, the Ba removed with $CO_2$, the ppt. washed with EtOH, the combined filtrate freed of EtOH, and the org. layer distd., giving 37% *MePhC(OH)CH₂SH*, b. 118-19°, $d_{20}$ 1.1198, $n^{20}_D$ 1.567, which with HgO yielded the *Hg mercaptide*, m. 99-100° (from EtOH). The thioglycol (5 g.) refluxed 3-4 hrs. with 30-40 g. Raney Ni in abs. EtOH gave *MePhCOH*, m. 33-7°. I (10 g.) added to a closed system contg. 10 g. $Ba(OH)_2$ in 50 ml. 75% EtOH with $H_2S$ passed in at the rate at which it was consumed (no excess) gave an unstated yield of *(MePhC(OH)CH₂)₂S* (II), m. 98-9°. To 0.01 mole I and 0.01 mole MePhC(OH)-$CH_2SH$ was added 0.7 g. EtONa in EtOH (exothermic reaction) and the mixt. refluxed 10 hrs., yielding II. 2-Ethyl-1,2-propylene oxide (III), b. 81-3° (15 g.) was slowly added to 10 g. $Ba(OH)_2$ in 50% EtOH previously satd. with $H_2S$, and the gas stream maintained 2.5 hrs. after the addn.; the usual working-up yielded 30% *MeEtC(OH)CH₂SH* (IV), $b_{20}$ 70-8°, $d_{20}$ 1.0076, $n^{20}_D$ 1.481; when the addn. of III was made in 40 min. instead of 1.5 hrs., the mixt. yielded but a trace of IV, the main product being *(MeEtC(OH)CH₂)₂S*, b. 158-60°, $d_{20}$ 1.0200, $n^{20}_D$ 1.492. Cf. Smith and Sjöberg, *C.A.* 30, 4465[illegible]. G. M. Kosolapoff

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MARTYNOV, V. F.

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**Compounds containing a three-membered oxide ring. V. Reaction of the ethyl ester of 3,3-dimethylglycidic acid with o- and p-toluidines.** V. F. Martynov (A. A. Zhdanov State Univ., Leningrad). *Zhur. Obshchei Khim.* 23, 999-1002 (1953); cf. *C.A.* 48, 4440g.—Heating 13 g. $p$-$MeC_6H_4NH_2$ and 20 g. $O.CMe_2.CHCO_2Et$ (I) in sealed tube 6 hrs. at 150-70° gave 60% $EtO_2CCH(OH)CMe_2NHC_6H_4Me$-$p$, $b_{10}$ 186-8°, m. 54-5° (from dil. EtOH). This (2 g.) heated with 10 ml. $H_2SO_4$ to 110° evolved CO and on continued heating to 140°, treatment with ice, and neutralization, it gave 1.1 g. *2,3,5-trimethylindole*, purified by steam distn., m. 118-19° (from dil. EtOH); *picrate*, m. 177-80°. Similar reaction of I with $o$-$MeC_6H_4NH_2$ at 170-80° gave 50% $EtO_2CCH(OH)CMe_2NHC_6H_4Me$-$o$, $b_2$ 134-5°, $d_4^{20}$ 1.0868, $n_D^{20}$ 1.529, which heated as above with $H_2SO_4$, gave 41% *2,3,7-trimethylindole*, $b_2$ 105-6°, m. 86-7°; *picrate*, m 149-50°; this indole is not distillable with steam and is rather unstable in air. G. M. Kosolapoff

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MARTYNOV, V.F.

Compounds containing a three-membered oxide ring. VI. Reaction of the ethyl ester of β-methyl-β-ethylglycidic acid with aniline. V. F. Martynov and Ya. A. Kastron (A. A. Zhdanov St[redacted]). *Zhur. Obshchei Khim.* 23, 1550-63(1953); cf. *C.A.* 48, 8221e.—Heating 31.6 g. MeEtC.CH(CO₂Et).O and 55.8 g. PhNH₂ in an ampul 40 hrs. at 170-80° gave 50% *PhNHCMeEtCH(OH)CO₂Et*, b₃ 150-4°, m. 59-60°, which, heated with $H_2SO_4$ to 110-15°, evolved CO, characteristic of α-HO acids, and yielded 42% *2-methyl-3-ethylindole*, b₃ 117.5-18.5°, m. 44-4.5°; *picrate*, m. 150-1°. Thus the rupture of the oxide ring in the starting material occurred at the β-C atom, while in the indole formation the retropinacol rearrangement occurred selectively, so that the Et group underwent the migration.

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MARTYNOV, V. F.

Compounds containing a three-membered oxide ring. VII. Reaction of the amide of 6,6-dimethylglycidic acid with cyclohexyl-, dicyclohexyl-, and benzylamines. V. F. Martynov (A. A. Zhdanov State Univ., Leningrad). Zhur. Obshchei Khim. 23, 1654-9(1953); cf. C.A. 48, 10729f.—Heating in a sealed tube 5 g. $H_2NCOCH.CMe_2.O$ (I) and 4.3 g. cyclohexylamine in 30 ml. abs. EtOH 6 hrs. at 120° gave 54% $H_2NCOCH(OH)CMe_2NHC_6H_{11}$, m. 164-5° (from dil. EtOH). This (5 g.) and 20 ml. $H_2SO_4$ heated to 160-80° with an open flame until the gas evolution was nearly complete and the melt quenched in ice, neutralized, with $Na_2CO_3$-KOH, and steam distd. gave 41% $OHCCMe_2NHC_6H_{11}$, $b_6$ 84-7°, $n_D^{18.5}$ 1.4677, $d_{18.5}$ 0.9385; 2,4-dinitrophenylhydrazone, m. 153-4°. The aldehyde forms a trimer, m. 114-15°, on extended storage. I (9 g.) in 20 ml. abs. EtOH heated similarly in a sealed tube with 20 ml. abs. EtOH and 16 g. dicyclohexylamine gave 45% $H_2NCOCH(OH)CMe_2N(C_6H_{11})_2$, m. 113.5-14.0° (from dil. EtOH). This heated with $H_2SO_4$ as above gave a very low yield of steam distillable material which had an amine odor and gave a Ag mirror test, indicating aldehyde formation. I and $PhCH_2NH_2$ heated as above 9 hrs. at 130° gave 52% $H_2NCOCH(OH)CMe_2NHCH_2Ph$, m. 90-1° (from $H_2O$). This (1.5 g.) refluxed with 2.6 g. $Ba(OH)_2$ in 25 ml. $H_2O$ 8 hrs. gave after removal of the Ba ion with $H_2SO_4$ 16.6% $OHCCMe_2NHCH_2Ph$, m. 70-1°; heating the original amide with $H_2SO_4$ led to extensive decompn. and only CO could be identified among the products. Heating 10 g. $EtO_2CCH.CMe_2.O$ and 15 g. $PhCH_2NH_2$ in 25 ml. abs. EtOH in a sealed tube 9 hrs. to 150-60° gave some $PhCH_2NHCOCH(OH)CMe_2NHCH_2Ph$, m. 88-9° (from ligroine); HCl salt, m. 228°. VIII. Reaction of ethyl ester of 3,3-tetramethyleneglycidic acid with aniline. Ibid. 1659-62.—To 20 g. Na dust under MePh were added 73 g. cyclopentanone and 120 g. $ClCH_2CO_2Et$ with cooling to maintain the mixt. at 5°; the mixt. treated on the following day with $H_2O$ yielded 50% $R.CH(CO_2Et).O$ (R = cyclopentylidene throughout this abstr.), $b_{10}$ 113-14°. This (50 g.) and 30 g. $PhNH_2$ heated in an ampul 8 hrs. at 170-80° gave 65% $R(NHPh)CH(OH)CO_2Et$, m. 117-18° (from ligroine). The latter warmed with concd. $H_2SO_4$ gave CO and 100% 1,2,3,4-tetrahydrocarbazole, m. 113-14°, probably through an intermediate $R(NHPh)CHO$; the picrate of the product, m. 144-5°. G. M. Kosolapoff

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MARTYNOV, V.F.

Investigation in the field of compounds containing a three-membered oxide ring. Part 8. Interaction of ethyl ester of β, β-tetramethyleneglycidic acid with aniline. Zhur.ob.khim. 23 no.10:1659-1662 O '53. (MLRA 6:11)

1. Leningradskiy Gosudarstvennyy ordena Lenina universitet im. A.A.Zhdanova, Kafedra teorii stroyeniya. (Esters) (Aniline)

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MARTYNOV, V. F.

Compounds containing a three-membered oxide ring. IX. Condensation of α-haloketones with furfural. V. F. Martynov (A. A. Zhdanov State Univ., Leningrad). Zhur. Obshchei Khim. 23, 1884-6(1953); cf. C.A. 48, 13848b.—MeCOCHClMe (50 g.) and 60 g. furfural in 50 ml. MeOH were treated with ice cooling with 10 g. Na in 150 ml. MeOH; after usual treatment with $H_2O$ there was obtained 32 g. greenish yellow *1-furyl-2-methyl-2-acetylethylene oxide*, $b_1$ 72-3°, $d_4^{20}$ 1.1384, $n_D^{20}$ 1.49169. Similar reaction with $PhCOCH_2Cl$ gave 40% *1-furyl-2-benzoylethylene oxide* (I), m. 58-9° (from petr. ether). Reaction with $AcCH_2Cl$ gave a mixt. of products from which individuals were not isolated; a similar result was obtained with $ClCH_2COEt$. I is unstable and in 2-3 days darkens and liquefies.

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MARTYNOV, V.F.

Compounds which contain a three-membered oxide ring. X. Reaction of the ethyl ester of β,β-pentamethyleneglycidic acid with aniline. V. F. Martynov (A. A. Zhdanov State Univ., Leningrad). [illegible] 23, 2006-9 (1953); cf. C.A. 49, 908c.—Addn. of a mixt. of 49 g. cyclohexanone and 61 g. $EtO_2CCH_2Cl$ dropwise to well-stirred suspension of 11.5 g. Na under MePh at 5° (after initial addn. at room temp. until the reaction started) resulted in a lack of visible formation of NaCl, although the Na reacted completely. After 30 min. on a steam bath the pptn. of NaCl took place; after treatment with $H_2O$, the org. layer gave 65% *Et β,β-pentamethyleneglycidate*, $b_{10}$ 130-1°. This (20 g.) heated with 30 g. $PhNH_2$ in sealed tube 16 hrs. at 170-80° gave 50% $CH_2(CH_2)_4C(NHPh)CH(OH)CO_2Et$, $b_1$ 164-7°, m. 96-7°. This (3 g.) was treated with 30 ml. concd. $H_2SO_4$ and heated to 95°, when gas evolution occurred, after which the mixt. was heated to 110° until CO evolution ceased; after quenching with ice there was obtained 100% *2,3-pentamethyleneindole*, m. 144-5°; *picrate*, m. 141-2° (cf. Perkin and Plant, C.A. 29, 138). It is believed that the cyclization takes place through intermediate formation of $CH_2(CH_2)_4C(CHO)NHPh$, followed by ring closure in *o*-position and a ring expansion of the retropinacol type.

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MARTYNOV, V. F.

USSR/Chemistry - Reaction processes

Card 1/1 : Pub. 151 - 20/37

Authors : Martynov, V. F., and Kastron, Ya. A.

Title : Investigation of compounds containing the three-membered oxide ring. Part 11. Reaction of ethyl ether of beta-methyl-beta-ethylglycidic acid with o- and p-toluidine

Periodical : Zhur. ob. khim. 24/3, 498-501, Mar 1954

Abstract : The reaction between ethyl ether of beta-methyl-beta-ethylglycidic acid and o- and p-toluidine, was investigated. It was found that the opening of the oxide ring of above mentioned glycidic acid is accomplished by the tertiary beta-carbon atom. The synthesis of hitherto unknown ethyl ether of alpha-oxy-beta-(p-toluidine)-isocaproic and ethyl ether of alpha-oxy-beta-(o-toluidine)-isocaproic acids, is announced. The conversion of these acids into 2,5-dimethyl-3-ethylindole and 2,7-dimethyl-3-ethylindole, respectively, is described. These two indole homologues are mentioned for the first time. Three USSR references (1913 and 1953).

Institution : The A. A. Zhdanov, Order of Lenin State University, Leningrad

Submitted : October 31, 1953

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MARTYNOV, V. F.

7

**Reaction of aromatic amines with glycidic acids. Synthesis of indole homologs.** V. F. Martynov (A. A. Zhdanov State Univ., Leningrad). *Doklady Akad. Nauk. S.S.S.R.* 89, 869-72(1953); cf. Schickh, *C.A.* 30, 4867[4].—Glycidic acids without aromatic radicals react similarly with aliphatic and aromatic amines, yielding derivs. of α-hydroxy-β-amino acids. Hence, many of the previous structures of reaction products of aromatic amines with such acids should be revised. The product from $PhNH_2$ and Et 3,3-dimethylglycidate (I) treated with concd. $H_2SO_4$ at 120-30° evolves CO, thus indicating that the HO group in the product was in α-position; steam distn. of the residual soln. after addn. of alkali gave 90% cryst. *2,3-dimethylindole*, a condensation product of the expected $PhNHCMe_2CHO$; the formation of the indole deriv. is explained by cyclization and retropinacol rearrangement. If the cyclization is structurally prevented, aldehydes can be obtained; thus 2-hydroxy-3-(cyclohexylamino)isovaleramide heated with $H_2SO_4$ to 170-5° gave 50% 2-(cyclohexylamino)isobutyraldehyde. I reacts readily with aromatic amines (such as *o*- and *p*-toluidines, $2\text{-}C_{10}H_7NH_2$, and 2-aminopyridine), giving 50-60% yields. All the products have structures of Et 2-hydroxy-3-(arylamino)-isovalerate. The *p*-toluidino deriv. heated with $H_2SO_4$ gave nearly 100% *2,3,5-trimethylindole*, while the *o*-isomer gave *2,3,7-trimethylindole*. A similar reaction occurs on heating $PhNH_2$ with Et 3-methyl-3-ethylglycidate or 3,3-diethylglycidate, although a 50% yield is achieved only after some 50 hrs. at 170-80°. The products again lose CO on heating with $H_2SO_4$, indicating that the aromatic amine adds to the β-position. The thus-formed Et 2-hydroxy-3-anilino-3-methylvaleric gave *2-methyl-3-ethylindole*, indicating that in the retropinacol rearrangement only the Et group altered its location. $PhNHCEt_2CH(OH)CO_2Et$ similarly gave *2,3-diethylindole*. G. M. Kosolapoff

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MARTYNOV, V. F.

USSR.

Compounds containing a three-membered oxide ring. XI. Reaction of the ethyl ester of 3-methyl-3-ethylglycidic acid with *o*- and *p*-toluidines. V. F. Martynov and Ya. A. Kastron (A. A. Zhdanov State Univ., Leningrad). *Zhur. Obshchei Khim.* 24, 498-501(1954); cf. *C.A.* 48, 10729*f*; 49, 3124*c*.—Heating 40 g. Et 3-methyl-3-ethylglycidate (I) with 27 g. *p*-$MeC_6H_4NH_2$ in an ampul 25 hrs. at 170-80° gave 55% *p*-$MeC_6H_4NHCEtMeCH(OH)CO_2Et$, m. 57-8° (from ligroine), which (5.5 g.), mixed with 35 ml. concd. $H_2SO_4$ and heated with an open flame, lost CO (beginning at 85-115°) and yielded almost 100% *2,5-dimethyl-3-ethylindole*, m. 65-8° (from dil. EtOH); also formed in 100% yield on heating MePrC:NNHPh (b. 120-2°) with a little $ZnCl_2$ (vigorous reaction); the product, b. 130-2°, m. 64-5° (picrate, m. 143-5°). Heating 19.5 g. I with 23 g. *o*-$MeC_6H_4NH_2$ at about 205° 22 hrs. gave 58% *o*-$MeC_6H_4NHCEtMeCH(OH)CO_2Et$, b. 143-5°, $d_4^{20}$ 1.0760, $n_D^{20}$ 1.5280, which, heated with $H_2SO_4$, as above, gave 59% *2,7-dimethyl-3-ethylindole*, b. 123-6°, $d_4^{20}$ 1.0188, $n_D^{20}$ 1.5848.

G. M. Kosolapoff

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MARTYNOV, V.F.

USSR.

Compounds containing a three-membered oxide ring. XI. Reaction of ethyl ester of 3-methyl-3-ethylglycidic acid with o- and p-toluidines. V. F. Martynov and Ya. A. Kastron. *J. Gen. Chem. U.S.S.R.* 24, 607-9(1954)(Engl. CM translation).—See *C.A.* 49, 6150c. H. L. H.

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MARTYNOV, V.F.

Compounds containing a three-membered oxide ring. XII. Reaction of the ethyl ester of β,β-diethyl- and β,β-dipropylglycidic acids with aniline. V. F. Martynov and V. F. Martynova. (Leningrad State Univ.). *Zhur. Obshchei Khim.* 24, 2140-50(1954); cf. *C.A.*, 49, 9806a.—Heating 17 g. Et 3,3-diethylglycidate and 27 g. $PhNH_2$ in an ampul 23 hrs. at 170-80° gave 17% *$PhNHCEt_2CH(OH)CO_2Et$* (I), $b_2$ 165-7°. If the same mixt. is heated at reflux 10 hrs. there is formed 11 g. viscous liquid, which solidifies to *N*-phenyl 3,3-diethylglycinamide, m. 114-15° (from ligroine). I (3.9 g.) heated with 15 ml. concd. $H_2SO_4$ to 100° evolves CO; after heating to 120° until the CO evolution ceased, the mass was quenched in ice, neutralized and steam distd. yielding 68% *2,3-diethylindole*, $b_3$ 118-20°, $d_4$ 1.0205, $n_D^{20}$ 1.5806; picrate, m. 121-2°. Addn. at 0° of 0.5 mole EtONa to 57 g. $Pr_2CO$ and 61 g. $ClCH_2CO_2Et$ gave 40% Et 3,3-dipropylglycidate, $b_{18}$ 108-10°, $d_4^{20}$ 0.9573, $n_D^{20}$ 1.4337. This (30 g.) and 60 g. $PhNH_2$ refluxed 45 hrs. gave 20% *N*-phenyl 3,3-dipropylglycinamide, $b_{0.5}$ 151-2°, m. 52-3° (from petr. ether). G. M. K.

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MARTYNOV V. F.

Compounds containing a three-membered oxide ring. XIII. Reaction of ethyl ester of β,β'-pentamethyleneglycidic acid with p-toluidine, o-toluidine, and p-anisidine. V. F. Martynov and N. I. Latina (Leningrad State Univ.) Zhur. Obshchei Khim. 25, 754-7; J. Gen. Chem. U.S.S.R. 25, 719-21 (1955)(Engl. translation); cf. C.A. 50, 2871f.—

Heating 50 g. $(CH_2)_5C.CH(CO_2Et).O$, (I), with 30 g. p-$MeC_6H_4NH_2$ in an ampul 10 hrs. at 150-60° gave 20% $EtO_2CCH(OH)C[(CH_2)_5]NHC_6H_4Me$-p, m. 50-60° (from ligroine), which heated with concd. $H_2SO_4$ at 100-10° until gas evolution ceased, gave 100% *2,3-pentamethylene-5-methylindole*, m. 127-8°; *picrate*, m. 149-50°. I (32 g.) refluxed 30 hrs. with 19 g. o-$MeC_6H_4NH_2$ gave 10% $EtO_2CCH(OH)C[(CH_2)_5]NHC_6H_4Me$-o, b. 140-6°, which heated with $H_2SO_4$ to 105-10° gave a low yield of *2,3-pentamethylene-7-methylindole*, m. 103-4°; *picrate*, m. 119-20°. I and p-$MeOC_6H_4NH_2$ similarly gave after 10 hrs. at 170-80° 21% $EtO_2CCH(OH)C[(CH_2)_5]NHC_6H_4OMe$-p, $b_{0.5}$ 179-81°, $d_{20}$ 1.1419, $n_D^{20}$ 1.543.

G. M. Kosolapoff

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MARTYNOV, V. F.

CH Compounds containing a three-membered oxide ring. XIV. Reaction of some ethyl esters of β-monoalkyl-substituted glycidic acids with aniline. — V. F. Martynov and G. Ol'man. *J. Gen. Chem. U.S.S.R.* [redacted] (Engl. translation). — See *C.A.* 50, 4909a. — J. M. R.

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MARTYNOV, V.F.

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5

Compounds containing a three-membered oxide ring. XIV. Reaction of some ethyl esters of β-monoalkyl substituted glycidic acids with aniline. V. F. Martynov and G. Ol'man (State Univ., Leningrad). *Zhur. Obshchei Khim.* 25, 1561-6(1955); cf. *C.A.* 50, 2542c.—The reactivity of the oxide ring in glycidic acids declines sharply upon introduction of highly branched groups in the proximity of the ring; in these circumstances the reaction with amines tends to proceed at the carboxyl end of the mol. Reaction of 72 g. PrCHO and 122.5 g. $ClCH_2CO_2Et$ with ½ mole EtONa at 0° gave 20.5% Et 2-hexenoate epoxide, $b_{20}$ 97-8°, $d_{20}$ 0.9789, $n_D^{20}$ 1.4327. This (15.4 g.) and 27 g. $PhNH_2$ heated in an ampul 6 hrs. at 150-5° gave 67.5% *PrCH(NHPh)CH(OH)CO₂Et*, $b_{0.5}$ 131.5-2°, $d_{20}$ 1.0696, $n_D^{20}$ 1.5264, which heated with $H_2SO_4$ to 115° 0.5 hr. yielded 50% *2-propylindole*, $b_1$ 119-20°, m. 33-4°; *picrate*, red, m. 144-5.5° (decompn.). iso-PrCHO and $Et_2OCCH_2Cl$ in $Et_2O$, treated with EtONa, gave 38% 1-carbethoxy-2-isopropylethylene oxide, $b_{11}$ 86-7.5°, $d_{20}$ 1.0024, $n_D^{20}$ 1.4313, which heated with $PhNH_2$ 15 hrs. at 134-5° gave 28% *iso-PrCH(NHPh)CH(OH)CO₂Et*, $b_{0.5}$ 120-5°, m. 69°, and a low yield of the corresponding *anilide*, $b_{0.5}$ 160-70°, m. 133.5°; the Et ester heated with $H_2SO_4$ 0.5 hr. at 135° gave 52% *2-isopropylindole*, m. 73.5° (*picrate*, red, decomp. 120°). iso-BuCHO and $ClCH_2CO_2Et$ similarly gave 36% 1-carbethoxy-2-isobutylethylene oxide, $b_{12}$ 105-6°, $d_{20}$ 0.9936, $n_D^{20}$ 1.4396, which heated with $PhNH_2$ 10 hrs. at 145-55° gave 33.1% *iso-BuCH(NHPh)CH(OH)CO₂Et*, $b_{0.5}$ 125-30°, m. 63-3.5°, and a little of the corresponding *anilide*, $b_{0.5}$ 180-90°, m. 187-8°. $C_6H_{11}CHO$ similarly gave 23.5% 1-carbethoxy-2-hexylethylene oxide, $b_6$ 117-19°, $d_{20}$ 0.9882, $n_D^{20}$ 1.4448, which heated with $PhNH_2$ 6 hrs. at 145-55° gave 41% *$C_6H_{11}CH(NHPh)CH(OH)CO_2Et$*, $b_{0.5}$ 153-5°.

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MARTYNOV, V.F.

Compounds containing a three-membered oxide ring. XV. Reactions of the ethyl ester of β-methyl-β-propylglycidic acid with aniline. V. F. Martynov and Ya. A. Kastron (State Univ., Leningrad). *Zhur. Obshchei Khim.* 26, 63-5; *J. Gen. Chem. U.S.S.R.* 26, 61-2(1956)(Engl. translation); cf. *C.A.* 49, 9606a; 50, 7767h.—Reaction of MeCOPr with $ClCH_2CO_2Et$ in the presence of EtONa gave 57% $MePrC.CH(CO_2Et).O$ (I), $b_{15}$ 96-7°, $d_{20}$ 0.9738, $n_D^{20}$ 1.4279. I (34 g.) heated with 55 g. $PhNH_2$ at gentle reflux 30 hrs. gave 30% *$MePrC(NHPh)CH(OH)CO_2Et$*, $b_3$ 144-8°, $d_{20}$ 1.0648, $n_D^{20}$ 1.5258. I (11 g.) heated with 50 ml. $H_2SO_4$ gave off CO in 1 hr. at about 100°, yielding 42% *3-methyl-3-propylindole*, $b_{3.5}$ 127-8°, $d_{20}$ 1.0163, $n_D^{20}$ 1.5778; *picrate*, m. 133-4°. Cf. Fourneau and Billeter, *C.A.* 34, 2792i.

G. M. Kosolapoff

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Martynov, V. F.

USSR/Organic Chemistry - Synthetic Organic Chemistry E-3

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4275

Author : Martynov, V.F., Vasyutina, Zh.D., Nikulina, L.P.

Title : Investigation of Compounds Containing a Three-Membered Oxide Ring. XVI. Study of Interaction of Ammonia with Glycide Acid esters

Orig Pub : Zh. obshch. khimii, 1956, 26, No 5, 1405-1413

Abstract : Study of interaction of ethyl esters of substituted glycide acids of the type $OCRR'CHCOOC_2H_5$ (I) with $NH_3$ taking place according to the scheme:

$I + NH_3 \rightarrow OCRR'CHCONH_2$ (II) $\rightarrow RR'C(NH_2)CHCHCONH$ (III);

$III \rightarrow RR'C(NH_2)CHCHCOOH \rightarrow RR'C(NH_2)CHO$ (IV) $+ CO + H_2O$;

wherein a $R = CH_3$, $R' = C_2H_5$; b $RR' = -(CH_2)_4-$; c $RR' = -(CH_2)_5-$; d $R = CH_3$, $R' = C_6H_5$; e $R = R' = C_6H_5$.

Card 1/5 - 25 -

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USSR/Organic Chemistry - Synthetic Organic Chemistry E-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4205

Reactivity of oxide ring of I decreases with increasing volume of substituents at the beta-carbon atom in the series Ib > Ia > Ic > Ic > Ie. In the case of Ia, b, c opening of the oxide ring takes place at the side of the beta-carbon atom. Structure of III is proven by their conversion with $H_2SO_4$ to IV and HCOOH, however in the case of Id and Ie the IV could not be isolated. Mixture of 20 g Ia and 100 ml 30% aqueous $NH_3$ heated in sealed ampoule (100°, 6 hours), excess $NH_3$ and water are driven off in vacuum, residue dissolved in anhydrous alcohol and a current of dry HCl is passed into the solution; after 7 days hydrochloride of IIIa is separated, yield 20%, MP 198-200° (decomposes; from alcohol). To 1 g IIIa added 7 ml concentrated $H_2SO_4$, heated (160-170°) until evolution of CO ceases, solution poured into ice water, neutralized with alkali, IVa is steam distilled, 2,4-dinitrophenyl hydrazone sulfate MP 215-216°

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USSR/Organic Chemistry - Synthetic Organic Chemistry E-2

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4215

(decomposes). From 40 g Ib and 150 ml 30% aqueous $NH_3$ ( ~20°, held for ~ 12 hours) was obtained IIb (V -- acid), yield 88%, MP 144-145° (from benzene). Analogously IIIa from 10 g Ib and 50 ml 30% aqueous $NH_3$ (100°, 6 hours) gives hydrochloride of IIIb, yield 42%, MP 217-218° (decomposes; from alcohol), and the ammonium salt of V, yield 8.5%, MP 222-223° (decomposes; from 40-50% alcohol). On reaction with alcoholic $NH_3$ (saturated at 0°) the yield of the hydrochloride of IIIb is increased to 56%. 2 g of IIIb hydrochloride treated with 13 ml concentrated $H_2SO_4$ (140-150°), yield of the sulfate of 2,4-dinitrophenylhydrazone of IVb is 29.3%, MP 207-208° (decomposes; from 40-50% alcohol). 10 g Ic and 80 ml 30% aqueous $NH_3$ ( ~20°, 3 days) give IIc (VI -- acid), yield 60%, MP 137-138° (from benzene). From 10 g Ic and 50 ml 30% aqueous $NH_3$ (100°, 6 hours) are obtained 54% ammonium salt of VI, MP 253-254°

Card 3/5 - 27 -

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Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4275

(decomposes; from 30% alcohol). 10 g Ic are converted by action of 50 ml alcoholic $NH_3$ (130-140°, 10 hours) followed by treatment with dry HCl (0°, 3 hours) to the hydrochloride of IIIc, yield 44%, MP 233-234° (decomposes; from 50% alcohol). 5 g IIIc hydrochloride heated with 30 ml concentrated $H_2SO_4$ (160-170°, 1.5 hours), and by steam distillation there is isolated IVc, yield 13%, MP 81-82° (from petroleum ether); 2,4-dinitrophenylhydrazone, MP 137-138° (from 30-40% alcohol). From 10 g Id and 50 ml 30% alcoholic $NH_3$ (100°, 6 hours) is obtained IId, yield 29%, MP 157-158° (from alcohol); on more prolonged heating (100°, 20 hours) there is formed a 27% yield of IIId, MP 148° (from alcohol); hydrochloride, MP 223-226° (decomposes). Analogously by interaction of 10 g Ie with 50 ml concentrated $NH_3$ in alcohol (100°, 6 hours) was obtained IIe, MP 126-127° (from alcohol); under more drastic conditions



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MARTYNOV, V. F.

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Compounds containing a three-membered oxide ring. XVI. Reaction of ammonia with esters of glycidic acids. V. F. Martynov, Zh. N. Vasyutina, and L. P. Nikulina. *J. Gen. Chem. U.S.S.R.* 26, 1585-91(1956)(English translation).—See *C.A.* 50, 14578e. B. M. R.

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V.F. MARTYNOV

Distr: 4E4j/4E2c(j)

Compounds containing a three-membered cycle ring. VII. Condensation of chloroacetonitrile with ketones. Synthesis of β,β-disubstituted nitriles of glycidic acids. V. F. Martynov and A. V. Shcherbakov (State Univ., Leningrad). Zhur. Obshchei Khim. 27, 1188-91(1957); cf. C.A. 50, 14578e.—To 12 g. $ClCH_2CN$, 10.1 g. $Me_2CO$ and 100 ml. abs. $Et_2O$ at −10° was added 9.7 g. dry EtONa; after stirring 0.5 hr. at −10° and 1 hr. at room temp. the mixt. yielded 67% $Me_2C.CH(CN).O$, $b_{12}$ 40-40.5°, $d_{20}$ 0.9550, $n^{20}_D$ 1.4150. MeEtCO similarly gave the *MeEt analog*, 79%, $b_{20}$ 46-6.5°, 0.9420, 1.4215. Use of cyclopentanone gave 73% $(CH_2)_4C.CH(CN).O$, $b_{10}$ 93-4°, 1.0200, 1.4575; cyclohexanone gave the $(CH_2)_5$ *analog*, $b_{10}$ 84-4.5°, 1.0275, 1.4665, while AcPh gave 80% $MePhC.CH(CN).O$, $b_1$ 128-8.5°, 1.0520, 1.5147. XVIII. Reaction of ethyl ester of β-tetramethyleneglycidic acid with aromatic amines. V. F. Martynov. *Ibid.* 1191-5.—Heating 10 g. $(CH_2)_4C.O.CHCO_2Et$ with 18 g. o-$MeC_6H_4NH_2$ in an ampul 20 hrs. at 160-70° gave 40% $(CH_2)_4C(NHC_6H_4Me\text{-}o)CH(OH)CO_2Et$, $b_{0.1}$ 135-6°, $d_{20}$ 1.1105, $n^{20}_D$ 1.5445, which heated strongly with 4 parts concd. $H_2SO_4$ gave 80% *8-methyl-1,3,3,4-tetrahydrocarbazole*, m. 96-7°; *picrate*, m. 118-19°. Similarly, m-$MeC_6H_4NH_2$ gave $(CH_2)_4C(NHC_6H_4Me\text{-}m)$-

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MARTYNOV, V. I.; SHCHELKUNOV, A. V.

$CH(OH)CO_2Et$, 75%, $b_{4.5}$ 143–6°, m. 83–4°, which with $H_2SO_4$ gave a *methyl-1,2,3,4-tetrahydrocarbazole*, m. 83–90°, probably mixed *5-* and *7-methyl deriv.* Similarly *p*-toluidine gave 50% $(CH_3)_2C(NHC_6H_4Me\text{-}p)CH(OH)CO_2Et$, m. 94–5°, which yielded *6-methyl-1,2,3,4-tetrahydrocarbazole*, m. 135–6°. Reaction of $2\text{-}C_{10}H_7NH_2$ similarly gave $(CH_3)_2C(NHC_{10}H_7\text{-}2)CH(OH)CO_2Et$, 54%, m. 114–15°, which yielded on reaction with $H_2SO_4$ a *sulfo deriv.* of the expected *1,2,3,4-tetrahydro-5,6-benzocarbazole*, the sulfo deriv. being a cryst. waxy solid.

G. M. Kosolapoff

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MARTYNOV, V.F.

MARTYNOV, V.F.

Research in the field of compounds consisting of three oxide containing rings. Part 18: Reaction of the ethyl ester of β-tetramethyleneglycidic acid with aromatic amines. Zhur.ob.khim. 27 no.5:1191-1195 My '57. (MLRA 10:8)

1.Leningradskiy gosudarstvennyy universitet.
(Glycidic acid) (Amines) (Propionic acid)

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MARTYNOV, V. F.

Distr: 4E4j/4E3d/4E2c(j)

Compounds containing a three-membered oxide ring. XIX. Reaction of β-arylglycidic acids with ammonia and aromatic amines. V. F. Martynov and O. O'man (State Univ., Leningrad). Zhur. Obshchei Khim. 27, 1881-92 (1957); cf. C.A. 50, 7767b; 52, 3738d. To 106 g. BzH, 122 g. ClCH$_2$CO$_2$Et, and 500 ml. abs. Et$_2$O was added at −10° 1 mole EtONa and after aq. treatment there was obtained 25 g. PhCH:CH(CO$_2$Na)$_2$O and 90 g. *PhCH:CH(CO$_2$Et)$_2$O* (I). The latter kept 20 days in alc. NH$_3$ gave 53% *PhCH(OH)CH(NH$_2$)CONH$_2$*, m. 188-90°. I refluxed in EtOH with PhNH$_2$ 14 hrs. gave 61% *PhCH(OH)CH(NHPh)CO$_2$Et* (II), m. 78-4°; hydrolysis with alc. NaOH gave the free acid, m. 163-4°, also formed from PhCH:CH(CO$_2$Na)$_2$O, PhNH$_2$, and 50% EtOH refluxed 10 hrs. Heating PhCHClCH(OH)CO$_2$Et (8.5 g.) with 14 g. PhNH$_2$ in 30 ml. 96% EtOH 5 hrs. at 130° in a sealed tube gave after evapn., treatment in Et$_2$O with dry NH$_3$, filtration, and distn. 71% II. Heating I with MeNH$_2$ 9 hrs. at 130-5° in an ampul gave 77% *PhCH(OH)CH(NHMe)CO$_2$Et*, b$_{1.5}$ 170-3°, m. 80-1°. PhCH:CH(CO$_2$Na)$_2$O with aq. NH$_4$OH 3 weeks gave a substance, m. 132-3°, devoid of N and contg. 64.79% C and 3.58% H. Oxidation of PhCH(OH)CH(NH$_2$)CONH$_2$ with Pb(OAc)$_4$ at 50° gave BzH. Similar oxidation of PhCH(OH)CH(NHPh)CO$_2$Et gave benzanilide, m. 47-8°. Similar oxidation of PhCH(OH)CH(NHMe)CO$_2$Et gave BzH. Heating 5 g. PhCH(OH)CH(NHPh)CO$_2$Et with 10 ml. concd. H$_2$SO$_4$ at 115° 30 min. gave a tar which was sep'd. and careful neutralization of the soln. gave the unchanged starting material. *p*-MeC$_6$H$_4$CHO, ClCH$_2$CO$_2$Et, and EtONa gave 62% *p-MeC$_6$H$_4$*-

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V. F. Mantynov + G. Olman

$\overline{CH.CH(CO_2Et).O}$, $b_{0.5}$ 119–23°; this heated to 130–50° with excess $PhNH_2$ gave 55% *p-MeC₆H₄CH(OH)CH(NHPh)CO₂Et* (III), $b_{0.5}$ 165–7°, m. 69–70°; if the glycidic ester is kept in alc. $NH_3$ on a steam bath it yields 16% *p-MeC₆H₄CH(OH)CH(NH₂)CONH₂*, m. 168°, which with $Pb(OAc)_4$ gave *p*-$MeC_6H_4CHO$. III heated with $H_2SO_4$ to 115° gave only the sulfonation product, $C_{16}H_{19}O_5NSNa_2(H_2O)$. Anisaldehyde, $ClCH_2CO_2Et$, and EtONa gave 50% *p-MeOC₆H₄*$\overline{CH.CH(CO_2Et).O}$, $b_{0.5}$ 157–8°, which heated with $PhNH_2$ gave 50% *p-MeOC₆H₄CH(OH)CH(NHPh)CO₂Et*, $b_{0.5}$ 190–3°, $n_D^{20}$ 1.5915, $d_{20}$ 1.1788. The glycidic ester with alc. $NH_3$ on a steam bath gave a substance, $C_{10}H_{11}O_3N$, m. 151°, which is not oxidized by $Pb(OAc)_4$ and its infrared spectrum shows the epoxy ring. Heating the glycidic ester with *p*-$MeC_6H_4NH_2$ at 135° gave 85% *p-MeOC₆H₄CH(OH)CH(NHC₆H₄Me-p)CO₂Et*, $b_{0.5}$ 195–203°, m. 97–8°. *p*-$Me_2NC_6H_4CHO$ with $ClCH_2CO_2Et$ and EtONa gave 45% *p-Me₂NC₆H₄CH₂COCO₂Et*, m. 125–6°; this heated with $PhNH_2$ in EtOH at 135° gave apparently the corresponding *amide*, $C_{17}H_{18}O_3N_2$, m. 157–8°, the same being formed by a reaction at 200°. Infrared spectra of the products are shown. G. M. Kosolapoff

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

AUTHORS: Martynov, V. F., [illegible], G. 9-28-[illegible]

TITLE: Investigation Within the Field of Compounds With a Three--Membered Oxide Ring (Issledovaniye v oblasti soyedineniy, soderzhashchikh trekhchlennoye okisnoye kol'tso) XX. The Reaction of the Ethylesters of β-Nitrophenyl-Glycidic Acid and p-Chlorophenylglycidic Acid With Ammonia and Aniline (XX. Vzaimodeystviye etilovykh efirov β-nitrofenil-glitsidnykh kislot i π-khlorfenilglitsidnoy kisloty s ammiakom i anilinom)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 592-601 (USSR)

ABSTRACT: In one of the last works of the authors the reaction of the ethylesters of β-phenylglycidic acid with ammonia and aniline was dealt with; there it was found that all phenylglycidic esters together with nucleophilic groups accumulate amines in the α-position, i. e. just as is done by unsubstituted phenylglycidic esters. For the final solution of the problem concerning the effect of the substituent in the phenylring on the point where the oxide-ring was opened under the action

Card 1/3

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Investigation Within the Field of Compounds With a Three- -Membered Oxide Ring. 79-28-2-6/61
XX:The Reaction of the Ethylesters of β-Nitrophenyl-Glycidic Acid and π-Chlorophenylglycidic Acid With Ammonia and Aniline

of the amines it was necessary to investigate the phenyl-glycidic esters which have electron-binding substituents within the phenylring. For this purpose the ethylesters of the following acids were synthetized and investigated. β-(p-nitrophenyl)-, β-(m-nitrophenyl)-, β-(o-nitrophenyl)- and β-(p-chlorophenyl)-glycidic acid. It was found that analine is added to the ethylesters of β(m-nitrophenyl)-, β-(p-nitrophenyl)- and β-(p-chlorophenyl)-glycidic acid in the α-position. Ammonia is bound at the β-(p-chlorophenyl-glycidic ester in the α-position, at the β-(m-nitrophenyl)- -glycidic esters, however, mostly in the β-position. At β-(p-nitrophenyl)-glycidic ester there is no accumulation of ammonia whatsoever. The ethylester of β-(o-nitrophenyl)- -glycidic acid does neither bind aniline nor ammonia. The reaction of the sodium salt of β-(o-nitrophenyl)-glycidic acid with aniline was investigated, in which case no binding at the oxide ring of the glycidic acid takes place (this corresponds to earlier data). The infrared spectra of absorption of all aromatic glycidic esters investigated by the authors

Card 2/3

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Investigation Within the Field of Compounds With a Three-Membered Oxide Ring. 79-28-3-[illegible]
XX. The Reaction of the Ethylesters of β-Nitrophenyl-Glycidic Acid and π-Chlorophenylglycidic Acid With Ammonia and Aniline

as well as of the products of aniline accumulation were taken. The absorption maxima which most probably are characteristic for the oxide ring are given. There are [illegible] figures, 1 table, and 9 references, 2 of which are Soviet.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: February 16, 1957

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032620002-5

AUTHORS: Martynov, V. P., V[illegible]tina, [illegible] [illegible]

TITLE: Investigation Within the Field of Compounds With a Three-Membered Oxide Ring (Issledovaniye v obl[illegible] [illegible], soderzhashchikh trekhchlennoye [illegible] [illegible]
XXI. The Reaction of the Amido-β-Tetra- and β-pentamethylene-Glycidic Acids With Hexyl- and Benzylamines
(XXI. Vzaimodeystviye amidov β-tetra- i β-pentametilen-glitsidnykh kislot s geksil- i benzil[illegible]

PERIODICAL: Zhurnal Obshchey Khimii, 1 [illegible], Vol 2, Nr 3, pp. [illegible]-[illegible] (USSR)

ABSTRACT: In one of the earlier papers (ref 1) the reactions of fatty and aliphatic aromatic amines with amides of the [illegible]-β-dimethyl-glycidic acid were described. This is the continuation of the previous work. The reaction of the amides of β-tetra- and pentamethylene-glycidic acid with hexyl- and benzylamines was realized by heating their alcohol solutions in sealed ampoules at 100 or 120 - 130°. The amide of β-tetramethylene glycidic acid proved to be most reactive with quite good yields of binding products. The amide of β-pentamethyl-

Card 1/4

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