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15-1957-7-9289

Amphibolites and Serpentinites in the Shalginskiy Region and Their Interrelation (Cont.)

Components	1	2	3	4	5	6	7	8
SiO_2	44.46	43.9	51.88	43.32	74.5	75.86	72.80	85.30
TiO_2	0.60	0.4	0.04	1.69	1.43	0.02	0.09	0.07
Al_2O_3	21.86	10.56	17.43	14.20	1.43	0.66	3.06	0.50
Cr_2O_3	0.04	0.1	0.08	0.06	0.2	0.17	0.15	0.44
Fe_2O_3	3.84	4.69	3.91	3.00	9.82	8.75	8.86	5.52
FeO	8.8	7.60	9.52	12.81	--	0.33	0.26	2.56
MnO	0.13	0.23	0.59	2.40	0.05	0.12	--	0.03
MgO	3.22	16.53	5.37	9.36	1.12	4.44	6.26	1.59

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15-1957-7-9289

Amphibolites and Serpentinites in the Shalginskiy Region and Their Interrelation (Cont.)

CaO	12.80	10.09	3.72	4.06	0.67	0.62	0.65	0.59
Na_2O	1.33	0.44	0.83	0.68	0.68	0.2	0.15	0.18
K_2O	0.27	2.03	2.90	2.33	--	--	--	0.16
P_2O_5	0.06	0.11	--	0.78	--	0.076	0.03	0.07
SO_3	0.89	0.72	--	0.34	--	0.20	--	0.36
H_2O	0.28	0.10	0.29	0.10	3.76	4.38	3.06	0.70
others	2.14	1.80	3.75	5.11	3.47	3.48	4.52	2.38
Total	100.72	99.29	100.31	100.24	97.23	99.30	99.89	100.45

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15-1957-7-9289

Amphibolites and Serpentinites in the Shalginskiy Region and Their Interrelation (Cont.)

1) dark-green medium-grained olivine gabbro, southeastern part of the massif; 2) dark-green coarsely crystalline amphibolite, drill-hole 13, depth 56 m; 3) dark fine-grained amphibolite, drill-hole 3, depth 70 m; 4) black fine-grained amphibolite, drill-hole 7, depth 106 m; 5) dark-green antigoritic opalized serpentinite, pit XI, depth 2 m; 6) dense greenish-brown tremolite-antigorite opalized rock, drill hole 12, depth 16 m; 7) gray-green antigoritic opalized serpentinite, drill-hole 15, depth 24 m; 8) dark-brown weathered listwanite, southeastern part of the massif.

Card 5/5

O. V. Bryzgalin

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3(5) PHASE I BOOK EXPLOITATION SOV/2880

Bok, Ivan Ivanovich, Academician, Kazakh SSR Acedemy of Sciences

Nablyudeniya po poleznym iskopayemym pri geologicheskikh issledovaniyakh; metodicheskiye rekomendatsii. (Observations of Mineral Deposits During Geological Explorations) Alma-Ata, AN Kazakhskoy SSR, 1957. 53 p. 3,300 copies printed.

Sponsoring Agency: Akademiya nauk Kazakhskoy SSR. Institut geologicheskikh nauk.

Resp. Ed.: V.V. Lavrov, Candidate of Geological and Mineralogical Sciences; Ed.: L.Ya. Kolchigina; Tech. Ed.: Z.P. Rorokina.

PURPOSE: The booklet is intended for field geologists, geologic surveyors, hydrogeologists, and geophysicists. It will also be useful to students of regional geography and to economic planners.

COVERAGE: This booklet presents simple methods for observing and evaluating various mineral deposits, particularly those connected with Pre-Paleozoic gneisses and schists, sedimentary Paleozoic rocks, and igneous intrusive and effusive rocks. Attention is centered on non-metallic minerals. Mineral

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search techniques are described. The book is based mainly on data gathered in Kazakhstan and adjacent parts of Central Asia, the Urals and Western Siberia. There are 18 references, all Soviet.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

Bok, I. I.

SHCHERBA, G.N.; YERMOLAYEV, K.Ye.; KAYUPOV, A.K.; KIM, V.A.; NIKITINA, L.G.; FLEROV, Ye.A.; SATPAYEV, K.I., akademik, red.; BOK, I.I., red.; SEMENOVA, M.V., red.; POPOV, N.D., tekhn.red.

[Geology of the Leninogorsk and Zyryanovsk mine regions in the Altai Mountains] Geologiia Leninogorskogo i Zyrianovskogo rudnykh polei na Altae. Pod red.K.I.Satpaeva. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po geoli okhrane nedr, 1957. 370 p. (MIRA 11:1)

1. Akademiya nauk Kazakhskoi SSR, Alma-Ata.
(Kazakhstan--Geology, Structural)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

SATPAYEV, K.I.; BORUKAYEV, R.A.; AKHMEDSAFIN, U.M.; BOK, I.I.; KUSHEV, G.L.; SERGIYEV, N.G.; SHLYGIN, Ye.D.; SHCHERBA, G.N.; MONICH, V.K.; LOMONOVICH, I.I.; LAVROV, V.V.; MEDOYEV, G.TS.; NOVOKHATSKIY, I.P.; BARBOT-DE-MARNI, A.V.; GALITSKIY, V.V.; KOLOTILIN, N.F.; ZHILINSKIY, G.B.; KAYUPOV, A.K.; KAZANLI, D.N.; SATPAYEVA, T.A.; ABDULKABIROVA, M.A.; GAZIZOVA, K.S.; VEYTS, B.I.; KHAYRUTDINOV, D.Kh.; MUKHAMEDZHANOV, S.M.; CHOLPANKULOV, T.Ch.; PARSHIN, A.V.; TAZHIBAYEVA, P.T.; YANULOVA, M.K.; BYKOVA, M.S.; VOLKOV, A.N.; BOLGOV, G.N.; MITRYAYEVA, N.M.; CHOKABAYEV, S.Ye.; KUNAYEV, D.S.; YARENSKAYA, M.A.; REBROVA, T.I.

Tireless explorer of the depths of the earth's crust; on the 65th birthday and 40th anniversary of the scientific engineering activities of Academician M.P. Rusakov. Vest. AN Kazakh. SSR 13 no.12:96-97 D '57. (MIRA 11:1)

(Rusakov, Mikhail Petrovich, 1892-)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

SATPAYEVA, Taisiya Alekseyevna; BOK, I.I., akademik, otv.red.; GLAZYRINA, D.M., red.; ROROKINA, Z.P., tekhn.red.

[Genetic characteristics of deposits of the copper sandstone type in connection with the mineralogical composition of their ores] Geneticheskie osobennosti mestorozhdenii tipa medistykh peschanikov v sviazi s mineralogicheskim sostavom ikh rud. Otv. red. I.I.Bok. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1958. 240 p. (MIRA 13:4)

1. AN KazSSR (for Bok).
(Ore deposits)

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3(5) PHASE I BOOK EXPLOITATION SOV/1886

Ob"yedinennaya nauchnaya sessiya po metallogenicheskim i prognoznym kartam, Alma-Ata, 1958.

Materialy nauchnoy sessii po metallogenicheskim i prognoznym kartam; doklady. (Materials Presented at the Scientific Session on Metallogenetic and Postulated Ore Occurrence Maps; Reports) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1958. 318 p. Errata slip inserted. 3,850 copies printed.

Ed.: A.S. Pogozhev; Tech. Ed.: F.F. Alferova.

Sponsoring Agencies: (1) Akademiya nauk SSSR, (2) Akademiya nauk Kazakhskoy SSR, Alma-Ata, (3) USSR, Ministerstvo geologii i okhrany nedr, (4) Kazakh SSR, Ministerstvo geologii i okhrany nedr.

PURPOSE: This book is intended for exploration geologists, mining engineers, and cartographers.

Materials Presented (Cont.) SOV/1886

COVERAGE: This collection of reports was presented at the United Scientific Session on Metallogeny and Postulated Ore Occurrence Maps convoked by the Academy of Sciences in Alma-Ata, December, 1958. The reports deal with various aspects of compiling metallogenetic and ore occurrence maps as well as the methodology and techniques of correlating geophysical exploration data. These reports deal only with non-ferrous metals. Three other reports delivered at the conference but not included in this work were read by Ye.Ye. Zakharov, N.S. Shatskiy, and Yu.K. Goretskiy. References accompany each article.

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Aleshin, M.N., V.O. Pervov. [Ural'skoye GU MOOM]. Technique of Compiling of Copper and Iron Metallogenetic and Postulated Occurrence Maps for the Urals 88

Lazarev, F.V., I.V. Lennykh [GU MOOM]. Copper and Nickel Postulated Occurrence Maps for Certain Districts of the Southern Urals 100

Ivankin, P.F., A.K. Kayupov, and G.N. Shcherba. [AN KazSSR]. Metallogenetic Postulated Occurrence Maps of Rudnyy Altay 110

Shcherba, G.N. Postulated Occurrence Maps for Rare Minerals in Central Kazakhstan 119

Bok, I.I., and L.A. Miroshnichenko [IGN AN KazSSR]. Polimetallic Deposits of Central Kazakhstan and Guides for Predicting Their Occurrence and Exploration 131

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BOK, I.I.

Study of complex ores in Kazakhstan during the 40 years of the Soviet regime. Izv. AN Kazakh. SSR. Ser. geol. no.2:3-13 '58. (MIRA 12:5)

(Kazakhstan--Ore deposits)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, I.I., akademik

Valuable monograph ("Basic problems of ore mining in the mountain regions of Central Asia and Kazakhstan" by I.Z. Lysenko. Reviewed by I.I.Bok). Vest. AN Kazakh. SSR 14 no.8:103-104 Ag '58. (MIRA 11:10)

1. AN KazSSR.

(Kazakhstan--Mining engineering)
(Soviet Central Asia--Mining engineering) (Lysenko, I.Z.)

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BOK, I.I., akademik

Genetic classification of surface mineral deposits. Sbor.nauch. trud.KazGMI no.18:69-89 '59. (MIRA 15:2)

1. Akademiya nauk Kazakhskoy SSR.
(Ore deposits--Classification)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BANDALETOV, S.M.; BESPALOV, V.F.; BOGATYREV, A.S.; BOK, I.I.; GALITSKIY, V.V.; ZHILINSKIY, G.B., IVSHIN, N.K.; KAZANLI, D.N.; KAYUPOV, A.K.; KONEV, A.K.; KUSHEV, G.L.; LYAPICHEV, G.F.; MEDOYEV, G.TS.; MONICH, V.K.; MYAGKOV, V.M.; NIKITIN, I.F.; NOVOKHATSKIY, I.P.; SATPAYEV, K.I.; SHLYGIN, Ye.D.; SHCHERBA, G.N.

Eminent geologist of Kazakhstan. Vest. AN Kazakh.SSR 15 no.1: 94-95 Ja '59. (MIRA 12:1)
(Borukaev, Ramazan Aslanbekovich, 1899-)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

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AVROV, P.Ya.; AYTALIYEV, Zh. A.; AUEZOV, M.O.; AKHMEDSAFIN, U.M.; BATISHCHEV-TARASOV, S.D.; BAZANOVA, N.U.; BAISHEV, S.B.; BAYKONUROV, A.B.; BEKTUROV, A.B.; BOGATYREV, A.S.; BOK, I.I.; BORUKAYEV, R.A.; BURLICHENKO, N.L.; BYKOVA, M.S.; ZHILINSKIY, [redacted] D.A.; IVANKIN, P.F.; KAZANLI, D.N.; KAYUPOV, A.K.; [redacted], S.K.; KOLOTILIN, N.F.; KUNAYEV, D.A.; KUSHEV, G.L.; L[illegible], [illegible].V.; MASHANOV, O.Zh.; MEDO[illegible], G.TS.; MONICH, V.K.; MUKANOV, S.; MUSREPOV, G.; MUKHAMEDZHANOV, S.M.; PARSHIN, A.V.; POKROVSKIY, S.N.; POLOSUKHIN, A.P.; RUSAKOV, M.P.; SERGIYEV, N.G.; SAYFULLIN, S.Sh.; TAZHIBAYEV, P.T.; FESENKOV, V.G.; SHLYGIN, Ye.D.; SHCHERBA, G.N.; CHOKIN, Sh.Ch.; CHOLPANKULOV, T.Ch.

Sixtieth birthday of Academician Kanysh Imantaevich Satpaev. Vest. AN Kazakh. SSR 15 no.4:58-61 Ap '59. (MIRA 12:7)
(Satpaev, Kanysh Imantaevich, 1899-)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BARBOT DE MARNI, Arseniy Viktorovich; kand.geologo-mineral.nauk; BOK, I.I., otv.red.; KOROTKOVA, Ye.A., red.; SHEVCHUK, T.I., red.; ALEKROVA, P.F., tekhn.red.

[Deposits of basic building materials in northern Kazakhstan (in regions of virgin and waste lands); explanatory notes, cadastral survey, and a map] Mestorozhdeniia osnovnykh stroitel'nykh materialov v severnoi chasti Kazakhstana (v raionakh tselinnykh i zalezhnykh zemel'); ob"iasnitel'naia zapiska i kadastr s kartoi. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1960. 375 p. (MIRA 13:5)

(Kazakhstan--Building materials)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

SHADRIN, L.P.; BOK, I.I., ~~akademik~~

Geological and mineralogical description of rocks and ores of the Inya iron-ore deposit and some problems of its genesis. Sbor. nauch. trud. Kaz GMI No.19:208-216 '60. (MIRA 15:3)

1. Akademiya nauk Kazakhskoy SSR (for Bok).
(Tigiretskiy Range--Ore deposits)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BRIZHAK, V.V.; BOK, I.I.; MONICH, V.K., doktor, prof.

Studying the causes of the scattering of the coordinates of twin axes of plagioclases as exemplified by the Korosten' pluton. Sbor. nauch. trud. Kaz GMI no.19:223-230 '60. (MIRA 15:3)
(Korosten' region--Rocks, Igneous) (Plagioclase--Optical properties)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

SATPAYEV, K.I.; BOK, I.I.; ZHILINSKIY, G.B.

Problems in the development of metallogeny. Sov. geol. 3 no. 9:45-56 S '60. (MIRA 13:11)

1. Akademiya nauk KazSSR.
(Ore deposits)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, Ivan Ivanovich, akademik; PARSHIN, Aleksey Vasil'yevich, kand. geologo-mineral.nauk; KOROTOVSKIY, M.P., red.; ALFEROVA, P.F., tekhn.red.

[Mineral resources in Kazakhstan] Poleznye iskopaemye Kazakhstana. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1961. 50 p. (MIRA 14:4)

(Mines and mineral resources)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, I.I.

M.V.Lomonosov and the development of the study of ore formation. Izv. AN Kazakh.SSR. Ser.geol. no.4:XXXVIII-XLIV '61.

(MIRA 15:3)

(Lomonosov, Mikhail Vasil'evich, 1711-1765)
(Ore deposits)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

ZHUKOV, Pavel Konstantinovich; KAZANIN, Yuriy Ivanovich; KAYUPOV, Aryktay Kayupovich; MURSALIMOV, Khakim Ibragimovich; PIGULEVSKIY, Nikolay Arsen'yevich; SHLYGIN, Artem Yevgen'yevich. Prinimali uchastiye: BAYKENEV, Sh.A.; BAYNAZAROVA, G.; ZORIN, Ye.S.; KRIKUNOVA, N.P.; SHUKHOV, N.N.; BOK, I.I., akademik, otv. red.; NESTEROVA, I.I., red.; ALFEROVA, P.F., tekhn. red.

[Basic features of the geology and metallogeny of the Koksu-Tekeli area of the Dzungarian Ala-Tau]Osnovnye cherty geologii i metallogenii Koksu-Tekeliiskogo raiona Dzhungarskogo Alatau. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 123 p. (MIRA 15:11)

1. Institut geologicheskikh nauk (for Zhukov, Kazanin, Kayupov, Pigulevskiy, Shlyginin). 2. Yuzhno-kazakhstanskoye geologicheskoye upravleniye (for Mursalimov). 3. Akademiya nauk Kazakhskoy SSR (for Bok).

(Dzungarian Ala-Tau—Geology, Economic)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

GAZIZOVA, Kafiya Sadretdinovna; BOK, I.I., akademik, otv. red.; KUZNETSOV, Yu.N., red.; ROROKINA, Z.P., tekhn. red.

[Basic characteristics of the geology and mineralogy of the Gul'shad deposit (central Kazakhstan)]Osnovnye cherty geologii i mineralogii Gul'shadskogo mestorozhdeniia [TSentral'nyi Kazakhstan). Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 204 p. (MIRA 15:10)
(Kazakhstan—Geology) (Kazakhstan—Mineralogy)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

YANULOVA, Marina Konstantinovna; BOK, I.I., akad., otv. red.; SOKOLOV, A.G., red.; ROROKINA, Z.P., tekhn. red.

[Mineralogy of the Karagayly skarn-barite-complex ore deposit (Central Kazakhstan)] Mineralogiia skarnovo-barito-polimetallicheskogo mestorozhdeniia Karagaily (TSentral'nyi Kazakhstan) Alma-Ata. Vol.1. [Hypogenic mineralization] Gipogennaia mineralizatsiia. 1962. 240 p. (MIRA 15:5)

1. Akademiya nauk Kazakhskoy SSR (for Bok).
(Karagayly region (Kazakhstan))—Ore deposits)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

SATPAYEV, K.I., akademik, otv. red.; BOGATYREV, A.S., red.; BORUKAYEV, R.A., red.; BOK, I.I., red.; RUSAKOV, M.P., red.; MIROSHNICHENKO, L.A., spets.red.; LYAPICHEV, G.F., spets.red.; POGOZHEV, A.S., red.; RZHONDKOVSKAYA, L.S., red.; GASHINA, Ye.A., tekhn. red.

[Productive capacities of Central Kazakhstan] Proizvoditel'nye sily TSentral'nogo Kazakhstana; trudy. Alma-Ata, Izd-vo AN Kaz. SSR. Vol.2. [Minerals and regional geology] Poleznye iskopaemye i regional'naia geologiia, 1959. 350 p. (MIRA 16:7)

1. Ob"yedinennaya nauchnaya sessiya po problemam razvitiya proizvoditel'nykh sil TSentral'nogo Kazakhstana, Karaganda, 1958. 2. Prezident AN Kaz.SSR (for Satpayev). 3. Ministerstvo geologii i okhrany nedr Kaz.SSR (for Bogatyrev). 4. Institut geologicheskikh nauk AN Kaz.SSR (for Rusakov).

(Kazakhstan--Mines and mineral resources)
(Kazakhstan--Geology)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, I.I.; BARBOT de MARNI, A.V.; VISLOGUZOVA, A.V.; GALIYEV, M.S.; LI, A.B.; LOMONOVICH, M.I.; YAKOVENKO, Z.V.; ASSING, I.I.; NURMANGALIYEV, A.B.; SOKOLOV, S.I.; GRIGOR'YEVA, Ye.P.; SEROV, N.P.; LEONOV, G.M.; ZAKHAROV, B.S.; ZAGAYNOV, V.I.; BOROVSKIY, V.M.; LITVINOVA, A.A.; POGREBINSKIY, M.A.; NASONOVA, O.M.; KHAYDAROV, R.M.; SUVOROVA, R.I., red.; ALFEROVA, P.F., tekhn. red.

[Ili Valley, its nature and resources] Iliiskaia dolina, ee priroda i resursy. Pod obshchei red. M.I.Lomonovicha. Alma-Ata, Izd-vo AN Kaz.SSR, 1963. 338 p. (MIRA 16:8)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut geologicheskikh nauk. 2. Nauchnyye sotrudniki Instituta geologicheskikh nauk AN KazSSR (for Bok, Barbot de Marni, Visloguzova, Galiyev, Li, Lomonovich, Yakovenko). 3. Institut pochvovedeniya AN KazSSR (for Assing, Nurmangaliyev, Sokolov, Borovskiy, Litvinova, Pogrebinskiy). 4. Institut botaniki AN KazSSR (for Grigor'yeva, Nasonova). 5. Institut zoologii AN KazSSR (for Serov). 6. Kazakhskiy politekhnicheskiy institut (for Leonov). 7. Ministerstvo sel'skogo khozyaystva KazSSR (for Zakharov). 8. Kazanskiy filial Instituta "Gidroproyekt" im. S.Ya.Zhuka (for Khaydarov).

(Ili Valley--Physical geography)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, I.I., akademik; SAGUNOV, V.G., kand. geologo-mineral. nauk

Raw material resources for trace element fertilizers in the Kazakh S.S.R. Vest. AN Kazakh. SSR 20 no.2:23-31 F '64. (MIRA 18:1)

1. AN Kazakhskoy SSR (for Bok).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, I.I.

Infiltrated and evaporated concentrations of mineral matter as the climatic genotypes of mineral deposits and their correlation. Izv. AN Kazakh. SSR. Ser.geol. 22 no.2:3-16 Mr-Ap '65.

(MIRA 18:5)

1. Institut geologicheskikh nauk imeni Satpayeva, Alma-Ata.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, Ivan Ivanovich; BORUKAYEV, R.A., akademik, glav. red.; ANKINOVICH, S.G., doktor geol.-miner. nauk, otv. red.; NESTEROVA, I.I., red.; KOVALEVA, I.F., red.

[Ores of agricultural importance; fundamentals of their geology and their prospecting and evaluation indicators] Agronomicheskie rudy; osnovy ikh geologii i poiskovo-otsenochnye priznaki. Alma-Ata, Nauka, 1965. 305 p. (MIRA 18:9)

1. Akademiya nauk Kaz.SSR (for Borukayev).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

SATPAYEV, K.I., akademik, glav. red.[deceased]; BOK, I.I., otv. red.; NABOKOV, N.P., red.; SAGUNOV, V.G., red.; TABYLDIYEV, K.T., red.; BRAILOVSKAYA, M.Ya., red.

[Geology and resources of agrochemical raw material of Kazakhstan] Geologiia i resursy agrokhimicheskogo syr'ia Kazakhstana. Glav. red. K.I.Satpaev. Alma-Ata,"Nauka," Kazakhskoi SSR, 1965. 214 p. (MIRA 19:1)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut geologicheskikh nauk.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, M.F.

Characteristics of the development of the esophagus in man and its role in the origination of anomalies. Dokl. AN SSSR 160 no.6: 1437-1440 F '65. (MIRA 18:2)

1. Astrakhanskiy gosudarstvennyy meditsinskiy institut. Submitted May 21, 1964.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, N.B.; ZVYAGINTSEV, D.E.; ROTIN, Ya.F.; AZHORIN, A.A., red.

[Overall mechanization of livestock farms in virgin regions] Kompleksnaia mekhanizatsiia zhivotnovodcheskikh ferm v tselinnykh raionakh. Moskva, Kolos, 1964. 127 p. (MIRA 18:1)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, N.B., kand. tekhn. nauk

Determining the adjustment angle of the working parts of rotary cultivators. Trakt. i sel'khozmash. no.9:23-24 S '64. (MIRA 17:11)

1. TSelinogradskiy sel'skokhozyaystvennyy institut.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, N.B., kand. tekhn. nauk

Determining basic parameters for rototillers. Trakt. i sel'khozmash. no.7:30-32 Jl '65. (MIRA 18:7)

1. TSelinogradskiy sel'skokhozyaystvennyy institut.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOK, N.I.

GAZIZOVA, Kafiya Sadretdinovna; BOK, N.I., red.; SEMENOVA, M.V., red. izd-va; KRYNOCHKINA, K.V., tekhn.red.

[Structural geology and genetic characteristics of the Kounrad copper deposits] Geologo-strukturnye i geneticheskie osobennosti mednogo mestorozhdeniia Kounrad. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po geoli okhrane nedr, 1957. 129 p. (MIRA 11:1)
(Karaganda Province--Copper ores)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

S/194/62/000/012/012/101
D201/D308

AUTHOR: Bóka, András

TITLE: Analog-to-digital converter

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1962, 53, abstract 12-1-106 shch (Hung. pat., cl. 42m, 14, no. 148818, Dec. 15, 1961)

TEXT: The proposed circuit consists of several magnetic core switches connected in series. The input windings of all cores have different numbers of turns and are connected in series. The combination of magnetic states of cores depends on the magnitude of the input voltage. At a predetermined instant a read-out pulse common to all cores is applied, the output signals being produced only in output windings of those cores whose polarity was previously reversed. 2 figures. /Abstracter's note: Complete translation./

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

S/194/62/000/011/001/062
D201/D308

9.7100

AUTHORS: Bóka, András and Ladányi, József

TITLE: A logic system using ferrites and diodes

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 11, 1962, 12, abstract 11-1-23y (Tájékoztató. Magyar tud. akad. számítástechn. közp., 1961, no. 7, 111-126, 11, 17, 22 (Hung.; summaries in Rus., Ger. and Eng.))

TEXT: This is a communication on a standard logic circuit using ferrites and diodes, as developed at the computer center of the Hungarian Academy of Sciences. Fundamental reasons and requirements of the design are given and the principle of operation is described. Examples of synthesis of complex logic functions using the above circuits are given. Simple symbolic designation of bloc-circuit diagrams is introduced side by side with the so-called 'image' Karnaugh symbols. It is shown that the first samples of logical MAGLOGAL cells operate in push-pull at a comparatively low frequency

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A logic system ... S/194/62/000/011/001/062
D201/D308

(50 kc/s). It is also stated that Boolean functions can be readily realized by combining the MAGLOGAL cells with one, two or three inputs. The results of experimental investigation of the ferrite and diode logic system are given which show its high degree of reliability. It is also stated that MAGLOGAL cells are easily combined with other devices. 10 figures. [Abstracter's note: Complete translation.]

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKA, Andras

Dynamic measuring method for testing transfluxor elements. Meres automat 12 no.4/5:148-150 '64.

1. Computing Center, Hungarian Acacademy of Sciences, Budapest.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKA, I.

"Organizational Problems of the Gazda Movement" P. 24. (TOVBTERMELES, Vol. 7, No. 3, Mar. 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKACH-POLGAR, E. [Bakacs-Polgar, E.]; KURTS-CHIKI, I. [Kurcz-Csiky, I.]

Simple method for the isolation of radioactive strontium and barium. Zhur.anal.khim. 18 no.10:1206-1210 O '63. (MIRA 16:12)

1. Institut zdravookhraneniya, Budapesht, Vengriya.

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L 00799-67 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6026371 (A) SOURCE CODE: UR/0075/66/021/005/0558/0560

AUTHOR: Bokach-Polgar, E.; Kurts-Chiki, I

ORG: Institute of Public Health, Budapest, Hungary (Institut zdravookhraneniya)

TITLE: Determination of radioactive strontium in atmospheric precipitations

SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 5, 1966, 558-560

TOPIC TAGS: radioactive strontium, strontium, yttrium, atmospheric precipitation, strontium oxalate, yttrium oxalate

ABSTRACT: A simple and rapid method has been developed for routine determination of radioactive strontium in atmospheric precipitation without separation of barium. The ^{90}Sr to ^{89}Sr ratio is determined after yttrium has been separated by the simple and rapid method based on the different solubilities of yttrium and strontium oxalates in acid solutions which the author suggests. Orig. art. has: 1 figure and 2 tables. [Based on authors' abstract] [NT]

SUB CODE: 07/ SUBM DATE: 15Dec64/ ORIG REF: 001/ SOV REF: 001/ OTH REF: 005/

Card 1/1 mjs UDC: 543.52

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKACHEV, N.G.

Background toning of political and administrative maps. Geod. i kart. no.4:39-46 Ap '57. (MIRA 10:8)
(Cartography)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKACHEV, N. G.: Master Tech Sci (diss) -- "Problems of the harmony of colors in the color design of the backgrounds of political, political-administrative, and administrative table maps". Voronezh, 1959. 17 pp (Min Higher Educ USSR, Moscow Inst of Engineers of Geodesy, Aerial Photography, and Cartography), 150 copies (KL, No 13, 1959, 104)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKACHEV, N.G., starshiy prepodavatel'

Classification of political, politico-administrative, and administrative maps by their type of coloration. Izv. vys. ucheb. zav.; geod. i aerof. no.2:129-134'61. (MIRA 14:6)

1. Voronezhskiy gosudarstvennyy universitet.
(Maps)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKACHEV, N.G.

Color maps of the landscape types and physicogeographical regions of the Central Black Earth Region. Izv.Vor.otd.Geog.ob-va no.3:97-100 '61. (MIRA 15:11)
(Central Black Earth Region--Physical geography--Maps)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BORISOVA, N.P.; BOKACHEVA, L.P.

Determination of the structure of polymers by the MO LKAO method.
Vest. LGU. 18 no.16:120-126 '63. (MIRA 16:11)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKACHEVA, L.P.; POPKOV, K.K.; TABOLINA, L.N.

Calculating the spatial distribution of dosed fluxes of captured gamma radiation. Inzh.-fiz. zhur. 6 no.11:85-89 N '63. (MIRA 16:11)

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L 19586-63 EPF(c)/EWT(1)/EPF(n)-2/EWT(m)/BDS AFFTC/ASD/AFWL/SSD
Pr-4/Pu-4

ACCESSION NR: AP3006490 S/0170/63/006/009/0047/0051

AUTHOR: Bokacheva, L. P.; Kiselev-Fedorov, V. P.; Popkov, K. K.; Rubanov, S. M.

TITLE: Problem of calculating heat release by gamma components

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 9, 1963, 47-51

TOPIC TAGS: nuclear reactor, Gamma radiation, thermal shielding, heat release, scattered Gamma radiation, capture Gamma radiation, radiative capture, water water reactor, reactor vessel, buildup factor

ABSTRACT: A simplified method is proposed for calculating the heat generated by capture γ-radiation in the thermal shielding and reactor-vessel material of a water-water reactor. The method is based on hypothetical substitution of the water layers located between the shieldings by equivalent layers of steel; the calculations are then carried out using the buildup factor for scattered γ-radiation for homogeneous iron shielding. Tests showed that for

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L 19586-63
ACCESSION NR: AP3006490

iron 1 cm thick, the error does not exceed 1%. Graphs of the heat flux generated by capture γ-radiation in iron and water are presented. Orig. art. has: 3 figures and 5 formulas.

ASSOCIATION: none

SUBMITTED: 04Jan63 DATE ACQ: 30Sep63 ENCL: 00

SUB CODE: NS NO REF SOV: 006 OTHER: 001

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKALOV, A. K.

Fruit Culture

Orchard of the Molotov Collective Farm. Sad i og. No. 2, 1953.

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

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

USSR/Soil Science. Organic Fertilizers. J-4

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24797.

Author : Bokan', V.I.
Inst :
Title : Activity of Phosphoro-Bacterin on a Basis of Mineral Fertilizers.

Orig Pub: Sb. nauchno-issled. rabot. stud. Stavropol'sk. s.-kh. in-t, 1956, vyp. 4, 34-35.

Abstract: No abstract.

Card : 1/1

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKANENKO, L.I.

Determining frequency and phase characteristics of electrodynamic seismic receptors by means of auxiliary excitation coils. Izv.AN SSSR Ser.geofiz. no.7:776-793 Jl '56. (MLRA 9:9)

1.Akademiya nauk SSSR, Geofizicheskiy institut.
(Seismometers)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BERZON, Inna Solomonovna; BOKANENKO, Lev Ivanovich; ISAYEV, Vasiliy Semenovich; SHCHUKINA, Ye.P., red.; BRUZGULS, V.V., tekhn.red.

[Seismic studies on the Tuyuksu Glacier] Seismicheskie issledovaniia na lednike Tuiuksu. Moskva, Izd-vo Akad.nauk SSSR, 1959. 66 p. (Akademiia nauk SSSR. Mezhduvedomstvennyi komitet po provedeniiu Mezhdunarodnogo geofizicheskogo goda seismicheskie issledovaniia, no.2). (MIRA 13:2)
(Tuyuksu Glacier--Seismology--Observations)

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Akademiya nauk SSSR. Institut fiziki zemli

Seysmicheskaya razvedka (Seismic Prospecting) Moscow, Izd-vo AN SSSR, 1959. 374 p. (Series: Its: Trudy, No. 6 /173/) Errata slip inserted. 1,500 copies printed.

Ed.: I.S. Berzon, Doctor of Physical and Mathematical Sciences; Ed. of Publishing House: L.I. Ratnikova; Tech. Ed.: V.V. Volkova.

PURPOSE: The publication is intended for geologists and geophysicists, particularly for those interested in the study of seismic waves and their use in geological prospecting.

COVERAGE: This is a collection of 17 articles published by the Academy of Sciences USSR as transactions of the Institute of Physics of the Earth. The first four articles present mainly an analysis of amplitudinal properties of waves. The second group of four articles deals with problems of frequency analysis of seismic waves. The remaining articles cover a wide field of problems in seismology such as methods of interpretation of dynamic properties of waves,

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observation of reflected latitudinal waves, design of high-frequency seismic instruments, etc. References are given at the end of each article.

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Seismic Prospecting

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APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKANENKO, L.I.; ISAYEV, V.S.

Preliminary results of the determination of the ice depth of Mount Elbrus using the seismic method. Inform.sbor. o rab.Geog.fak.Mosk.gos.un. po Mezhdunar.geofiz.godu. no.5:10-58 '60. (MIRA 16:3)
(Elbrus, Mount—Ice)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKANENKO, L.I., mladshiy nauchnyy sotrudnik; AVSYUK, Yu.N., mladshiy nauchnyy sotrudnik

Subglacial relief and the thickness of the Lazarev Shelf Ice. Inform.biul.Sov.antark.eksp. no.44:43-48 '63. (MIRA 17:4)

1. Institut fiziki Zemli imeni O.Yu.Shmidta AN SSSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKANENKO, L.I.

Determining the frequency characteristics of ultrasonic transducers. Izv. AN SSSR. Fiz. zem. no.12:53-55 '65. (MIRA 19:1)

1. Institut fiziki Zemli AN SSSR. Submitted June 11, 1965.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

L 32731-66 EWP(j)/EWT(1)/EWT(m)/T RM/GW

ACC NR: AP6010818 (N) SOURCE CODE: UR/0387/65/000/012/0053/0055

52
49
B

AUTHOR: Bokanenko, L. I.

ORG: Institute of Physics of the Earth, Academy of Sciences, SSSR (Institut fiziki zemli, Akademiya nauk SSSR)

TITLE: Determination of the frequency characteristics of ultrasonic sensors 10

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 12, 1965, 53-55

TOPIC TAGS: ultrasonic sensor, frequency characteristic, circuit design, seismic modeling, seismic wave

ABSTRACT: The author proposes a method of determining the frequency characteristic of ultrasonic sensors for modeling seismic wave processes. The method is based on a comparison of the amplitude and phase frequency characteristics of the investigated sensor with corresponding characteristics of an inertialess capacitor receiver of ultrasonic oscillations. The plates of the capacitor receiver are thin strips of metal foil glued opposite one another on both sides of the plexiglas sheet of a two-dimensional model. A longitudinal wave excited by a radiator causes a change in the thickness of the model's material and consequently a change in the distance between the plates of the measuring

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

L 32731-66

3

ACC NR: AP6010818

capacitor, resulting in the generation of a voltage directly proportional to displacement across the tube grid. Since the plates of the capacitor have a very small mass and are glued directly to the material of the model, the presence of the capacitor does not distort the wave field in the model, i.e., the capacitor receiver is an inertia-free pickup of the displacements caused by the longitudinal wave. To determine the amplitude and phase characteristics of the ultrasonic sensors, the radiator excites a wave field which is recorded on the seismoscope by means of the capacitor and the investigated receivers. From the obtained recordings the ratio amplitudes and the difference of phases of the recordings of these receivers are determined for a sequence of frequencies. If the investigated receiver records the displacement of the wave field, then the obtained ratios are the sought frequency characteristics of the investigated receiver. If the investigated receiver records the amplitude component of the wave field, it is necessary to change from the displacement component of the capacitor receiver to the amplitude component. The author expresses his thanks to L. L. Khudzinskiy, I. S. Parthomenko, and V. A. Obukhov whose advice helped to set up the program of investigations. Orig. art. has: 3 figures and 1 formula.

SUB CODE: 09, 08 / SUBM DATE: 11Jun65 / ORIG REF: 005 / OTH REF: 002

Card 2/2 JS

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

L 08041-67 EWT(1) GW

ACC NR: AP7001655 SOURCE CODE: UR/0387/66/000/006/0083/0087

AUTHOR: Bokanenko, L. I.

ORG: Institute of Physics of the Earth, AN SSSR (Institut fiziki Zemli AN SSSR)

21
B

TITLE: Spectrum analyzer for ultrasonic pulses

SOURCE: AN SSSR. Izvestiya. Fizika zemli, no. 6, 1966, 83-87

TOPIC TAGS: spectral analyzer, ultrasonic equipment

ABSTRACT: The A-65 amplitude spectrum analyzer has been developed for increasing the accuracy of analysis of ultrasonic pulses. The apparatus is fully described in this paper, which is accompanied by a block diagram and highly detailed circuit diagram which serves as the basis for most of the textual description. Essentially it is an electronic heterodyne analyzer of periodically repeating pulses (frequency of 25-200 cps) in the frequency range 10-250 kc/sec. The A-65 is designed for obtaining a frequency amplitude spectrum of ultrasonic pulses recorded with ultrasonic apparatus such as a LS-1 seismoscope. Three channels are used for feeding from the seismoscope to the analyzer: a signal containing the part of the record for analysis; synchronizing pulses; time mark. Comparison of the spectra obtained with the A-65 revealed that after taking into account the measurement accuracy in determining amplitudes from photographs of the spectra, which is 0.2 mm, the accuracy of analysis at frequencies above 10 kc/sec is not worse than ±3%. In the frequency range 0-10 kc/sec the accuracy of analysis deteriorates. The scheme for the apparatus was suggested by G. M. barkovskiy and P. F. Frolovyy. Orig. art. has: 4 figures and 1 table. [JPRS: 38,230]

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Card 1/1 mc UDC: 534.64

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

ACC NR: AP6003337 SOURCE CODE: UR/0387/66/000/001/0068/0075

AUTHOR: Bokanenko, L. I.

ORG: Institute of Physics of the Earth im. O. Yu. Shmidt, Academy of Sciences SSSR (Institut fiziki Zemli Akademii nauk SSSR)

TITLE: An ultrasonic transducer based on a bimorph

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 1, 1966, 68-75

TOPIC TAGS: piezoelectric transducer, ultrasonic seismic equipment, seismologic instrument, seismic modeling, seismometer

ABSTRACT: The author describes an ultrasonic point-contact transducer (receiver or transmitter) developed by the Department of Seismic Prospecting Methods at the Institute of Physics of the Earth AS SSSR. The device (KTK) uses the bending deformation of a bimorph which makes direct point contact with the vibrating medium. The instrument is designed for ultrasonic seismic studies in solid media. The bimorph has dimensions smaller than the length of the waves to be registered. When the transducer operates as a receiver, it may be used for recording any of the components of the wave field observed in the medium. A diagram of the unit is shown in the figure. One end of the bimorph 1 is fastened in holder 7. The

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other end is made in the form of a pyramid whose vertex is supported

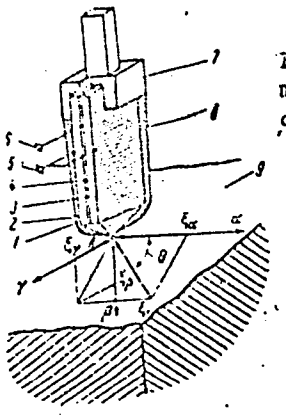

Fig. 1. Bimorph transducer

by the medium to be studied 9. A metal interlayer 4 is placed between the plates of the bimorph to give the cell greater mechanical strength. Lead 5 is formed by the outer liners of the cell 2-3. A second lead 6 is connected to the metal plate which makes electrical contact with the inner liners of the bimorph. A layer of elastic material 8 is applied to the bimorph for damping the natural oscillations of the cell. The directional pattern of the point-contact bimorph receiver has the same shape as that of an ordinary seismic detector. In the ultrasonic frequency range, below the normal zero mode of the bimorph, the transducer has linear and parallel frequency axes, amplitude-frequency and phase-frequency responses, and operates for all practical purposes like a wide-band displacement rate meter. The point-contact bimorph

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receiver is sufficiently accurate for many ultrasonic seismic studies using ordinary seismometers. This type of instrument opens up new possibilities for ultrasonic seismic research, and at the same time increases the accuracy of current studies. This transducer can also be used as an ultrasonic radiator. In this case, it operates as a lumped-constant source. However, the efficiency of the point-contact bimorph transmitter is considerably lower than that of presently used piston-type radiators based on Rochelle salt. The author is grateful to V. B. Tsukernik, I. S. Parkhomenko, L. L. Khudzinskiy and V. T. Makeyev whose advice and assistance were helpful in carrying out this research program. Orig. art. has: 9 figures. [14]

SUB CODE: 08, 09/ SUBM DATE: 11JUN65/ ORIG REF: 012/ OTH REF: 003/ ATD PRESS: 5011

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKANEV, N.

BOKANEV, N.

Improving the design of the SUB-3 automatic meat dumpling machine. Mias. Ind. SSSR. 25 no.3:52-53 '54. (MLRA 7:7)

1. Rostovskiy-na-Donu myasokombinat.
(Meat industry)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

L 38584-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM

ACCESSION NR: AP5011034 UR/0079/64/034/011/3849/3849

AUTHOR: Stepanov, B. I.; Bokanov, A. I.

TITLE: p-carbethoxyphenylidiethylphosphine

SOURCE: Zhurnal obshchey khimii, v. 34, no. 11, 1964, 3849

TOPIC TAGS: organic phosphorus compound, chlorine, chlorinated organic compound

Abstract: An aliphatic-aromatic phosphine with an electrophilic substituent in the ring: p-carbethoxyphenyldiethylphosphine, was prepar[illegible] time by replacement of chlorine on the carbethoxy group [illegible] diethylphosphine, prepared by reaction of p-chlorophenyldi[illegible] ethyl magnesium bromide. The molecular refraction [illegible] spectra of the product are discussed. The phosphine was [illegible] carbethoxyphenyltriethylphosphonium picrate as a demonstra[illegible]

AFFILIATION: Moskovskiy khimiko-tekhnologicheskiy inst[illegible]
(Moscow Chemicotechnological Institute)

SUBMITTED: 04Jul64 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 001 OTHER: 001 JPRS

Card 1/1

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

L 32655-65 EWT(m)/EPF(c)/T/EWP(j) Pc-4/Pr-4 RM

ACCESSION NR AP5005554 S/0079/65/035/002/0350/0352

AUTHOR: Bokanov, A. I.; Plakhov, V. A.

TITLE: Synthesis of p-chlorophenyldichlorophosphine

SOURCE: Zhurnal obshchey khimii, v. 35, no. 2, 1965, 350-352

TOPIC TAGS: phosphine, phenyldichlorophosphine, chlorobenzene

ABSTRACT: A method has been developed for separating p-chlorophenyldichlorophosphine from the isomeric mixture obtained by Baldwin [illegible] 3547, [illegible]) from chlorobenzene, phosphorus trichl[illegible] Hydrolysis in a boiling ethanol-hydrochloric acid mixt[illegible] gave a [illegible] yield of p-chlorophenylphosphorous acid. [illegible] room temperature with phosphorus trichloride [illegible] dichlorophosphine after vacuum rectification. Infra[illegible] the initial isomers contain mainly the p-isomer, whereas [illegible] tion of a mixture of equal amounts of p- and o-isomers. The total yield of purified p-isomer was 50-55%. Orig. art. has: 1 figure and 1 formula.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow chemical engineering institute)

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L 32655-65

ACCESSION NR: AP5005554

SUBMITTED: 09Sep63 ENCL: 00 SUB CODE: OC

NO REF SOV: 007 OTHER: 006

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

STEPANOV, B.I.; BOKANOV, A.I.

Conjugation capacity of phosphonyl groups. Zhur. ob. khim. 35 no.6:1124-1125 Je '65. (MIRA 18:6)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

STEPANOV, [illegible] [illegible]KANOV, A.I.

Conjugation capacity of phosphonyl groups. Zhur. ob. khim. 35 no.7:1315 Jl '65. (MIRA 18:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKANOV, A.I.; KOROLEV, B.A.; STEPANOV, B.I.

Basicity of phosphines and the electronic properties of some organophosphorus groups. Zhur. ob. khim. 35 no.10:1879-1880 O '65. (MIRA 18:10)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

L 36496-66 EWT(m)/EWP(1) RM

ACC NR: AP6027088 SOURCE CODE: UR/0079/65/035/010/1879/1880

AUTHOR: Bokanov, A. I.; Korolev, B. A.; Stepanov, B. I.

ORG: Moscow Chemical Engineering Institute im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut)

TITLE: Basicity of phosphines and electronic properties of certain organo-phosphorus groups

SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1879-1880

TOPIC TAGS: organic phosphorus compound, electric property, titrimetry, nitromethane, ionization, atom, phenyl compound, electron donor

ABSTRACT: Potentiometric titration in nitromethane at 25°C was used to determine the ionization constants $pK_a(H_2O)$ of a series of tertiary phosphines: $(C_2H_5)_3P$ 8.86, $(C_2H_5)_2PC_6H_5$ 6.41, n-$(C_2H_5)_2PC_6H_4Cl$ 5.68, and $P(C_6H_5)_3$ 2.61. The ionization constants of phosphines with aryl and ethyl substituents on the phosphorus are accurately described by the equation: $pK_a = -4.606 - 4.094\Sigma\sigma_\phi$, where σ_ϕ are the Kabachnik constants. The applicability of the latter to the calculation of ionization constants of aryl-substituted phosphines means that the free electron pair of the

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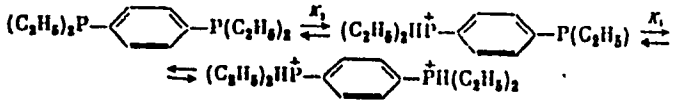
L 36496-66

ACC NR: AP6027088

phosphorus atom in the phosphino group in the basic (unexcited) state is not conjugated with the π system of the aryl group. Having determined both ionization constants of p-phenylenebisdiethylphosphine, pK_a^1 3.35, pK_a^2 6.57,



the authors found the values of σ_ϕ for the p-diethylphosphinophenyl and p-diethylphosphonium phenyl groups. The electron-donor property of the diethylphosphino group was found to be weak. The electron--acceptor property of the p-diethylphosphonium phenyl group is approximately the same as that of the p-ammonium phenyl groups. Orig. art. has: 1 formula. [JPRS: 36,328]

SUB CODE: 07 / SUBM DATE: 03May65 / ORIG REF: 002 / OTH REF: 002

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

ACC NR: AP7000245 SOURCE CODE: UR/0079/66/036/004/0762/0763

AUTHOR: Stepanov, B. I.; Bokanov, A. I.; Korolev, B. A.

ORG: Moscow Chemico-technological Institute im. D. I. Mendeleev (Moskovskiy khimiko-tekhnologicheskiy institut)

TITLE: p-diethylphosphonylbenzoic acid

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 4, 1966, pp 762-763

Abstract: p-Diethylphosphonylbenzoic acid was prepared by successive oxidation and saponification of p-carbethoxyphenyldiethylphosphine. The conversion of the phosphine to the acid was carried out under mild conditions. After determining the ionization constant of the acid, pK_a 367 ± 0.03, the authors calculated the value of $sigma_n$ 0.53 for the p-diethyloxophosphinic group according to the Hammett equation. The acid was converted to p-carbomethoxyphenyldiethylphosphine oxide in absolute methanol in the presence of concentrated sulfuric acid. The acid was titrated potentiometrically with sodium hydroxide in aqueous solutions. [JPRS: 37,177]

TOPIC TAGS: phosphinic acid, alkylphosphine, ionization constant

SUB CODE: 07 / SUBM DATE: 22 Oct 65 / ORIG REF: 003 / OTH REF: 001

Card 1/1 UDC: 542.257.1 + 661.718.1 + 547.583

0923 0788

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

MALAKHOV, P.N. , kand. tekhn. nauk;BOKANOV, M.V., inzh.

Starting a synchronous motor with rigidly connected exciter by means of manually operated VMG oil circuit breakers. Izv. vys. ucheb. zav.; energ. no. 1:65-72 Ja '58. (MIRA 11:7)

1. Bryanskiy institut transportnogo mashinostroyeniya.
(Electric motors, Synchronous)
(Electric circuit breakers)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

BOKANOV, N.V. (g. Bezhitsa Bryanskoy oblasti).

Energy users in a three-phase circuit. Fiz.v shkole 16 no.1: 59-61 Ja-Fe '56. (MIRA 9:3)
(Electric currents, Alternating --Polyphase)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

C.A.

Synthesis of some alkoxyhalophenoxyacetic acids and derivatives. S. S. Nametkin, K. S. Bokarev, and N. N. Mel'nikov (Timiryazev Plant Physiol. Inst., Moscow). *Doklady Akad. Nauk S.S.S.R.* 77, 419-22(1951).—A series of substituted phenoxyacetic acids (I) were prepd. for tests as to fungicidal and bactericidal substances and surface-active agents. These were prepd. by condensation of appropriate phenolates with salts or esters of halo-substituted acids; $ClCH_2CONH_2$ gave the corresponding amides. The following I were obtained: *2-alkoxy-4,5-dichloro: alkoxy=MeO*, 100%, m. 152° (from C_6H_6); *EtO*, 93.1%, m. 143° (from $(CH_2Cl)_2$); *PrO*, 95.6%, m. 86° (from petr. ether); *BuO*, 91%, m. 103° (from petr. ether). *2-Alkoxy-4,5-dibromo: MeO*, 95.1%, m. 102° (from $(CH_2Cl)_2$); *EtO*, 96%, m. 151° (from $(CH_2Cl)_2$); *PrO*, 95.1%, m. 119° (from $(CH_2Cl)_2$); *BuO*, 93.4%, m. 70° (from petr. ether). *4-Alkoxy-2-chloro: MeO*, 93.8%, m. 130° (from aq. MeOH); *EtO*, 73.0%, m. 145° (from aq. MeOH); *PrO*, 85%, m. 125° (from aq. MeOH); *BuO*, 80%, m. 87° (from aq. MeOH); *iso-AmO*, 75.8%, m. 100° (from petr. ether). *4-Alkoxy-2-bromo: MeO*, 97.5%, m. 158° (from MeOH); *EtO*, 80.7%, m. 158° (from MeOH); *PrO*, 72.7%, m. 139° (from MeOH); *BuO*, 71.5%, m. 100° (from petr. ether); *iso-AmO*, 64.1%, m. 75° (from petr. ether). *α-(4-Alkoxy-2-chlorophenoxy)butyric acids*, prepd. similarly: *MeO*, 80.8%, m. 94° (from petr. ether); *EtO*, 70.5%, m. 86° (from C_6H_6-petr. ether); *PrO*, 72%, m. 61° (from petr. ether); *BuO*, 70.8%, m. 78° (from petr. ether); *iso-AmO*, 75.4%, m. 75° (from petr. ether). *4-Alkoxy-2-bromo: MeO*, 83%, m. 101.5° (from C_6H_6-petr. ether); *EtO*, 73.7%, m. 87° (from petr. ether); *PrO*, 67.3%, m. 60° (from petr. ether); *BuO*, 74.5%, m. 69° (from petr. ether); *iso-AmO*, 75%, m. 81° (from petr. ether). Following *α-(4-alkoxy-2-chlorophenoxy)acetamides: MeO*, 53.8%, m. 127° (from aq. MeOH); *EtO*, 55.1%, m. 137° (from aq. MeOH); *PrO*, 52%, m. 105.6° (from aq. MeOH); *BuO*, 64.7%, m. 93° (from petr. ether); *iso-AmO*, 62%, m. 95° (from petr. ether). *α-(4-Alkoxy-2-bromophenoxy)acetamides: MeO*, 55.1%, m. 150.5° (from aq. MeOH); *EtO*, 63.3%, m. 150° (from $(CH_2Cl)_2$); *PrO*, 66%, m. 131° (from $(CH_2Cl)_2$); *BuO*, 65%, m. 112° (from $(CH_2Cl)_2$); *4-iso-AmO*, 63.3%, m. 109° (from C_6H_6-petr. ether). G. M. Kosolapoff

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BA
A II

Synthesis of some halogenoalkoxyphenoxyacetic acids and their derivatives. S. S. Namethin, K. S. Bukarev, and N. N. Melnikov (*C. R. Acad. Sci. U.R.S.S.*, 1951, 77, 419–422).—The compounds 6 : 3 : 4 : 1-OR·C_6H_3X·O·CH_2·CO_2H, 4 : 2 : 1-OR·C_6H_3X·O·CH_2·CO_2H, 4 : 2 : 1-OR·C_6H_3X·O·CH_2·CO·NH_2, and 4 : 2 : 1-OR·C_6H_3X·O·CHPr·CO_2H (X = Cl, Br; R = Me, Et, Pr, Bu, iso-C_5H_{11}) are prepared by the general reaction (no experimental details given): NaOAr + CHRX·CO_2H → OAr·CHR·CO_2H + NaX, where Ar is C_6H_3X·OR or $C_6H_3X_2$·OR, X is Cl or Br, and R is H or alkyl.

The following substituted phenoxyacetic acids are described: 3 : 4-*dichloro*-6-*methoxy*- (100), m.p. 152°, 3 : 4-*dichloro*-6-*ethoxy*- (93·1), m.p. 143°, 3 : 4-*dichloro*-6-n-*propoxy*- (96·6), m.p. 86°, 3 : 4-*dichloro*-6-n-*butoxy*-, (91), m.p. 103°, 3 : 4-*dibromo*-6-*methoxy*- (96·1), m.p. 162°, 3 : 4-*dibromo*-6-*ethoxy*- (96), m.p. 153°, 3 : 4-*dibromo*-6-n-*propoxy*- (96·1), m.p. 119°, 3 : 4-*dibromo*-6-n-*butoxy*- (93·4), m.p. 70°, 2-*chloro*-4-*methoxy*- (93·8), m.p. 139° [*amide* (53·6), m.p. 127°], 2-*chloro*-4-*ethoxy*- (73·9), m.p. 145° [*amide* (55·1), m.p. 137°], 2-*chloro*-4-n-*propoxy*- (85), m.p. 125° [*amide* (52), m.p. 105—106°], 2-*chloro*-4-n-*butoxy*- (80), m.p. 87° [*amide* (64·7), m.p. 93°], 2-*chloro*-4-*isopentoxy*- (78·8), m.p. 100° [*amide* (62), m.p. 95°], 2-*bromo*-4-*methoxy*- (93·5), m.p. 156° [*amide* (55·1), m.p. 150·5°], 2-*bromo*-4-*ethoxy*- (89·7), m.p. 158° [*amide* (63·3), m.p. 150°], 2-*bromo*-4-n-*propoxy*- (72·7), m.p. 139° [*amide* (66), m.p. 131°], 2-*bromo*-4-n-*butoxy*- (71·5), m.p. 100° [*amide* (65), m.p. 112°], and 2-*bromo*-4-*isopentoxy*-**phenoxyacetic acid** (64·1%), m.p. 78° [*amide* (63·3%), m.p. 109°]. The following substituted 1-phenoxypropane-1-carboxylic acids are also described: 1-2′-*chloro*-4′-*methoxy*- (80·8), m.p. 94°, 1-2′-*chloro*-4′-*ethoxy*- (70·5), m.p. 88°, 1-2′-*chloro*-4-n-*propoxy*- (72), m.p. 61°, 1-2′-*chloro*-4′-n-*butoxy*- (70·5), m.p. 78°, 1-2′-*chloro*-4′-*isopentoxy*- (78·4), m.p. 73°, 1-2′-*bromo*-4′-*methoxy*- (83), m.p. 101·5°, 1-2′-*bromo*-4′-*ethoxy*- (73·7), m.p. 87°, 1-2′-*bromo*-4′-n-*propoxy*- (67·3), m.p. 60°, 1-2′-*bromo*-4′-n-*butoxy*- (74·8), m.p. 69°, and 1-2′-*bromo*-4′-*isopentoxy*-**phenoxypropane-1-carboxylic acid** (75%), m.p. 81°. R. Truscoe

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CA

Synthesis of some ethers of halohydroquinones and halopyrocatechols. S. S. Namethkin, K. S. Bokarev, and N. N. Mel'nikov. *Doklady Akad. Nauk S.S.S.R.* 77, 293-6 (1951).—Chlorination of hydroquinone ethers by SO_2Cl_2 or Cl in $CHCl_3$ gave the Cl deriva. (largely of 2-*Cl*). Bromination in $CHCl_3$ gave the Br deriva., also, as expected, largely the 2-*Br* isomers. The products are characterized by analysis and phys. constants only. Chlorination of *p*-*ROC*$_6$*H*$_4$*OH* by SO_2Cl_2 gave the following *Cl deriv.* (R, yield (%), b.p., etc., given): *Me*, 64.1, bₐ 97-103°; *Et*, 75.3, bₐ 117-18°, d_4^{20} 1.2302, *n* 1.5451; *Pr*, 83.5, bₐ 120-2°, d_4^{20} 1.1932, *n* 1.5391; *Bu*, 84.9, bₐ 136-8°, d_4^{20} 1.1638, *n* 1.5328; *iso-Am*, 86.4, bₐ 144-6°, d_4^{20} 1.1422, *n* 1.5272. The corresponding *Br deriv.*: *Me*, 90.6, m. 45°, bₐ 113-15°; *Et*, 89.7, bₐ 137-40°, d_4^{20} 1.5013, *n* 1.5708; *Pr*, 88.8, bₐ 151-4°, d_4^{20} 1.4546, *n* 1.5126; *Bu*, 89.2%, bₐ 158-60°, d_4^{20} 1.3783, *n* 1.5499; *iso-Am*, 90.4, bₐ 164-7°, d_4^{20} 1.3187, *n* 1.5420. Similar halogenations of ethers of pyrocatechol gave 4,5-*di-Cl* or *di-Br deriv.*, but insufficient amts. of halogenating agents gave inseparable mixts. of isomers. The following 4,5-*di-Cl deriv.* were obtained from *o-ROC*$_6$*H*$_4$*OH*: R = *Me*, 79.4, m. 72°, bₐ 140-50°; *Et*, 81.1, m. 71°; *Pr*, 73.2, m. 37°; *Bu*, 91.5, m. 48°, bₐ 164-74°; *iso-Am*, 83.2, bₐ 162-5°, d_4^{20} 1.1631, *n* 1.5267. 4,5-*di-Br analogs*: *Me*, 96.5, m. 92°; *Et*, 97, m. 97°; *Pr*, 96.7, m. 66°; *Bu*, 99, m. 52°; *iso-Am*, 85.1, bₐ 202-4°, d_4^{20} 1.5941, *n* 1.5664. The products were prepd. for tests as fungicides and bactericides. G. M. Kosolapoff

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BOKAREV K. S.

Structure and physiological activity of some substituted phenoxyalkylcarboxylic acids on plants. N. N. Mel'nikov, R. Kh. Turetskaya, and K. S. Bokarev (K. A. Timiryazev Inst. Plant Physiol., Moscow). Doklady Akad. Nauk S.S.S.R. 90, 921-3(1953).—Tests with a large no. of substituted phenoxyalkylcarboxylic acids showed that an RO group attached to the Ph nucleus slightly raised the growth rate (kidney-bean cutting) and that a MeO gave a variable effect, the meta position giving the highest activity and the 2-position giving the lowest; the same is true for halogen substitution. An Et group in the 2-position of the acid radical raises the activity drastically, allyloxy derivs. are less active than the propoxy deriva., except for 2-allyloxyphenoxyacetic acid, which is quite active. Amides may be more or less active than the free acids; anilides of allyloxyphenoxyacetic acids are more active than the amides. 4-Methoxy-2-chlorophenoxyacetic acid is nearly as active as 3-indolebutyric acid. 4-methoxy-2-bromophenoxyacetamide is also highly active.

G. M. Kosolapoff

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BOKAREV, K S

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Khimiya Gerbitsidov i Stimulyatorov Rosta Rasteniy (Herbicide Chemistry and Stimulators of Plant Growth, by) N. N. Mek'nikov, Yu A. Baskakov i K. S. Bokarev. Moskva, Goskhimizdat, 1954.

381 p. Diagrs., Tables.

"Literatura" at the end of each chapter.

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Bokarev, K. S.

Mel'nikov, N. N., Baskakov, Yu. A., and Bokarev, K. S.: Khimiya gerbitsidov i stimulyatorov rosta rastenii (Chemistry of Herbicides and Stimulators of Plant Growth). Moscow: Goskhimizdat, 1954. 28 pp. Reviewed in *Fiziol. Rastenii* 2, No. 6, 589-90 (1955). CH

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Bokarev, K. S.

Analysis of herbicidal preparations. K. S. Bokarev and N. N. Mel'nikov. *Khim. Prom.* 1954, No. 1, 42-3.—Detn of 2,4-dichlorophenoxyacetic acid and of its BuOH ester, carried out by titration with NaOH with methyl red as indicator avoids the error caused by the usually present 2,4-dichlorophenol and gives good results. Procedures for detn of the 2 weed killers were worked out. 2,4-Dichlorophenoxyacetic acid is extd. from a dissolved and acidified sample with Et_2O, the ether is evapd. and the residue is dissolved in neutral alc. and titrated with 0.1 *N* NaOH with methyl red as indicator. To det. free 2,4-dichlorophenoxyacetic acid in its Bu ester, a sample of the ester is dissolved in neutral EtOH, dild. with H_2O, and titrated with NaOH with methyl red as indicator. To det. the ester, a sample is refluxed with alc. KOH. The alc. is evapd., the residue is dissolved in satd. KCl soln., the soln. is extd. with Et_2O, the ether is evapd., and the residue is dissolved in EtOH and titrated with NaOH with methyl red as indicator.

M. Hosch

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BOKAREV, K.S.

Synthesis and physiological activity in plants of some β-aryloxyethanols and aryloxyacetones. K. S. Bokarev and N. N. Mel'nikov. *J. Gen. Chem. U.S.S.R.* 24, 1079-88 (1954)(Engl. translation).—See *C.A.* 49, 14078*e*.

B. M. R.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206020015-5

Bokarev, K. S.

Synthesis and physiological activity in plants of some 2-aryloxyethanols and aryloxyacetones. K. S. Bokarev and N. N. Mel'nikov (K. A. Timiryazev Inst. Plant Physiol. Acad. Sci. U.S.S.R., Moscow)). *Zhur. Obshchei Khim.* 24, 2014-23(1954).—Various aryloxyethanols were prepd. by refluxing ArOH and $ClCH_2CH_2OH$ in aq. NaOH 2 hrs. followed by extn. with $(CH_2Cl)_2$. Thus were prepd. the following *ArOCH₂CH₂OH* (Ar, % yield, and phys. consts. given): *4-BrC₆H₄*, 52.9, m. 53°, b₇ 147-9°; *3,4-Cl₂C₆H₃*, 53.2, m. 58°, b₁₀ 183-90°; *2,4,5-Cl₃C₆H₂*, 80, m. 65°; *2-MeOC₆H₄*, 62.3, b₁₁ 163-4°, d₂₀ 1.1561, n_D^{20} 1.5439; *3-isomer*, 70, b₃ 143°, d₂₀ 1.1531, n_D^{20} 1.5410; *2-EtOC₆H₄*, 65, m. 38-9°, b₇ 128-30°; *3-PrOC₆H₄*, 81%, b₅ 157°, d₂₀ 1.0867, n_D^{20} 1.5240; *4-isomer*, 70.5, m. 75°; *3-BuOC₆H₄*, 84.3, b₅ 170-2°, d₂₀ 1.0591, n_D^{20} 1.5197; *2,4-Cl(PrO)C₆H₃*, 51.7, b₇ 169-71°, d₂₀ 1.1920, n_D^{20} 1.5367; *2,4-Cl(BuO)C₆H₃*, 64.5, b₇ 171-2°, d₂₀ 1.1631, n_D^{20} 1.5309; *2,4-Cl(iso-AmO)-C₆H₃*, 64.8, b₅ 191-4°, d₂₀ 1.1319, n_D^{20} 1.5211; *2,4-Br(BuO)-C₆H₃*, 66.7, b₇ 200-2°, d₂₀ 1.3212, n_D^{20} 1.5433; *4,5,2-Cl₂-(MeO)C₆H₂*, 66.7, m. 94°; *2-EtO analog*, 44.8, m. 77°; *2-PrO analog*, 75, m. 55°, b₇ 177-9°; *2-BuO analog*, 71.2, b₅ 189-2°, d₂₀ 1.2529, n_D^{20} 1.5160; *2-iso-AmO analog*, 62.8, b₇ 199-52°, d₂₀ 1.1918, n_D^{20} 1.5170; *4,5,2-Br(MeO)-C₆H₂*, 74.8, m. 112°; *2-EtO analog*, 57, m. 88°; *2-PrO*

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K. S. BORAREV

analog, 79.7, m. 64–5°; *2-BuO analog*, 52, m. 53–4°, b_4 202–4°; *2-iso-AmO analog*, 45.0, b_3 180–2°, d_{20} 1.1508, n_D^{20} 1.5275. *2-$C_{10}H_7SCH_2CH_2OH$*, 52.5%, m. 55–6°, b_4 220–30°. In tests on repression of sprouting of radishes and hemp, the most active compds. were 2,4-$Cl_2C_6H_3$-OCH_2CH_2OH, the 2,4,5-tri-Cl analog, *p*-$BrC_6H_4OCH_2$-CH_2OH, and 2-$C_{10}H_7OCH_2CH_2OH$; 2,4,6-$Br_3C_6H_2OCH_2$-CH_2OH and the penta-Cl analog were weakly active; 2-alkoxy-4,5-dihalo derivs. were very feeble, and the remaining substances were inactive. The substituted ethanols with 1-$C_{10}H_7NCS$ gave the following *1-$C_{10}H_7NHCO_2CH_2$-CH_2OR* (R and m.p. given): *1-$C_{10}H_7$*, *2-$C_{10}H_7$*, 152°; *2-$MeOC_6H_4$*, 137–8°; *3-isomer*, 107–8°; *2-$EtOC_6H_4$*, 131–2°; *3-PrC_6H_4*, 120–1°; *4-$PrOC_6H_4$*, 101°; *3-$BuOC_6H_4$*, 116–17°. Phenols, ArOH (0.2 mole) treated with 0.1–0.2 mole $BrCH_2Ac$ in 20–40 ml. Me_2CO in the presence of 0.1 mole NaOH in 20–40 ml. H_2O, the mixt. refluxed 10–20 hrs., 5% NaOH added, and the soln. extd. with C_6H_6 gave the following *aryloxyacetones $ArOCH_2Ac$* (Ar, % yield, and phys. consts. given), all of which were biologically inactive in the sprouting tests: *2-ClC_6H_4*, 45, b_4 110–15° (*semicarbazone*, m. 171°); *4-isomer*, 60.5, m. 57°, b_{20} 168–70° (*semicarba-*

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K. S. BEKAREV

zone, m. 181-2°); 2,4-$Cl_2C_6H_3$, 54, m. 54°, b_4 138-41° (semicarbazone, m. 184-5°); 2,4,5-$Cl_3C_6H_2$, 57.3, m. 116° (semicarbazone, m. 202°); Cl_5C_6, 80, m. 105-5.5° (semicarbazone, m. 193-4°, decompn.); 2-BrC_6H_4, 50.2, b_{10} 150-5° (semicarbazone, m. 150-1°); 2,4-$Cl(PrO)C_6H_3$, 51, m. 50°, b_3 170-2° (semicarbazone, m. 147°); 4-BuO analog, 49, b_3 174-5° (semicarbazone, m. 163°); 4,5,2-$Cl_2(EtO)C_6H_3$, 73.5, m. 54° (semicarbazone, m. 168-9°); 2-BuO analog, 52.9, m. 69°, b_3 155-8° (semicarbazone, m. 172°); 4,5,2-$Br_2(MeO)C_6H_3$, 68.3, m. 110° (semicarbazone, m. 173-4°); 4,5,2-$Br_2(EtO)C_6H_3$, 55.0, m. 72° (semicarbazone, m. 176°); 2-PrO analog, 94.5, m. 71° (semicarbazone, m. 166.5°); 2-BuO analog, 81.7, m. 61° (semicarbazone, m. 172-3°); 2-iso-AmO analog, 73.6, b_3 198-200° (semicarbazone, m. 171.5°). 2-$C_{10}H_7SCH_2Ac$, 79.6%, m. 135° (semicarbazone, m. 196°) [cf. Stoermer, Ann. 312, 237(1900)]. 4-$BrC_6H_4OCH_2Ac$ semicarbazone m. 197°; 2,4,6-tri-Br analog, m. 196.5°. (2-Benzothiazolylthio)acetone semicarbazone m. 183-3°.

G. M. Kosolapoff

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BOKAREV, K. S.

USSR

Synthesis of p-iodophenoxyacetic acid labeled with iodine-131. K. S. Bokarev and N. N. Mel'nikov (K. A. Timiryazev Inst. Plant Physiol., Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk S.S.S.R.* 97, 255-6(1954).—To 9.95 g. $p\text{-}O_2NC_6H_4OCH_2CO_2H$ in 100 g. H_2O and 7.9 g. $Ba(OH)_2 \cdot 8H_2O$ was added a soln. of 111 g. $FeSO_4 \cdot 7H_2O$ in 700 ml. H_2O and hot soln. of 400 g. $Ba(OH)_2$ in 800 ml. H_2O; the hot soln. was stirred 0.5 hr., filtered, neutralized with H_2SO_4 to methyl orange, filtered and evapd. yielding 46.2% $p\text{-}H_2NC_6H_4OCH_2CO_2H \cdot {}^1/_2H_2SO_4$, decomp. 185-8°. This (1.62 g.) in 50 ml. H_2O and 5 ml. H_2SO_4 was cooled to 0°, treated in 1 hr. with 0.83 g. solid KNO_2, stirred 1 hr., filtered, and the filtrate placed in a distg. flask, connected with a trap with 20% KOH, and a water pump. Under reduced pressure the solns. was treated with 1.85 g. KI^{131} in 10 ml. H_2O and the mixt. heated on a steam bath 2 hrs. After cooling and addn. of 1 g. $Na_2S_2O_3$ there was obtained a ppt. of 43.2% labeled $p\text{-}IC_6H_4OCH_2CO_2H$, m. 155° from $(CH_2Cl)_2$.

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BOKAREV, K.S.

USSR/Organic Chemistry - Naturally Occurring Substances and Their Synthetic Analogs, E-4

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61617

Author: Bokarev, K. S., Mel'nikov, N. N.

Institution: None

Title: Synthesis of Some New Glucose Esters

Original Periodical: Zh. obshch. khimii, 1955, 25, No 12, 2242-2245

Abstract: For the purpose of a study of the mechanism of the action of derivatives of phenoxyacetic acid upon plants there have been synthesized 2,3,4,6-tetraacetyl-1-(2',4'-dichlorophenoxyacetyl)-(I) and 2,3,4,6-tetraacetyl-1-(2',4',5'-trichlorophenoxyacetyl)-glucose (II). On disacetylation of I and II with a solution of NH_3 in CH_3OH there are formed quantitatively the corresponding chlorophenoxyacetamides. Formation of similar glucose esters in plants is improbable. By boiling of a mixture of 30 g Ag-salt of 2,4-dichlorophenoxyacetic acid, 41.1 g acetobromoglucose and 150 ml

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USSR/Organic Chemistry - Naturally Occurring Substances and Their Synthetic Analogs, E-3

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61617

Abstract: C_6H_6 (10 hours) I has been obtained with almost a quantitative yield, MP 125-126° (from CH_3OH), $[\alpha]^{20}D$ +7.4° (dioxane). Analogously has been prepared II, yield 78.3%, MP 170-171° (from CH_3OH), $[\alpha]^{20}D$ + 8.3° (dioxane). I and II have β-configuration since they are saponified by emulsion.

K. A. Timiryazev Plant Physiology Inst

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Synthesis of *N*-2,4,5-trichlorophenoxyacetyl amino acids. K. S. Bokarev and N. N. Mel'nikov. *J. Gen. Chem. U.S.S.R.* 25, 2385-7(1955)(English translation).—See *C.A.* 50, 9381*a*.

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Synthesis of N-2,4,5-trichlorophenoxyacetyl amino acids. [illegible] [illegible] Treatment of 2,4,5- [illegible] with corresponding amino acids in the presence of aq. NaOH gave the following 2,4,5-$Cl_3C_6H_2OCH_2CO$ [illegible] $NHCH_2CO_2H$ [illegible] $NHCH_2CH_2CO_2H$, m. [illegible] [illegible]

[illegible]

[illegible] m. 141°, dl-form of [illegible] form of $SCH_2CH(CO_2H)NH$ [illegible] [illegible] 98° [illegible] m. 125-6° [illegible]

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BOHAREV, N.S.

Preparation of heteroauxin. S. S. Nam[illegible]
Mel'nikov and K. S. [illegible]

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BOKAREV, K.S.

Aryloxyalkylcarboxylic acids. Itogi nauki: Biol.nauki no.2:145-201 '58. (MIRA 14:4)

(Acids, Organic)

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