APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, Yu.A.; KHAIN, V.Ye.

Scientific meeting of the Institute of Geology and Mineralogy of the Academy of Sciences of the Georgian S.S.R. Izv.AN SSSR.Ser. geol. 21 no.5:122-125 My '56. (MLRA 9:8)
(Georgia--Geology, Structural)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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Kosygin, Yu.A.

KOSYGIN, Yu.A., prof.

Development of basic structural elements of the earth's crust and various types of deep tectonic movements. Trudy Akad. neft. prom. no.3:3-21 '56. (MIRA 10:11)

(Geology, Structural)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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KOSYGIN, Yu.A., professor

Tectonics of the U.S.S.R. Priroda 44 no.9:28-38 S '55. (MLRA 8:11)
(Geology, Structural)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, Yu.A., doktor geologo-mineralogicheskikh nauk.

Geology exposes legends. Nauka i zhizn' 22 no.10:38-42 O '55.
(Geological research) (MLRA 9:1)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, Yu.A.; GORLOV, S.I.; KARPENKO, N.M.

Tectonics of the western Ciscaucasian marginal depression. Izv. AN SSSR. Ser.geol.20 no.4:92-101 Jl-Ag'55. (MLRA 8:10)
(Caucasus, Northern--Geology, Structural)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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15-57-4-4318

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, p 40 (USSR)

AUTHOR: Kosygin, Yu. A.

TITLE: Tectonic Map of the Earth (Skhema tektoniki zemnogo shara)

PERIODICAL: Tr. Akad. neft. prom-sti, 1955, Nr 2, pp 3-17

ABSTRACT: The author published a tectonic map of the earth, based on maps of A. D. Arkhangel'skiy and N. M. Strakhov, and introducing improvements and additional details. The basic structural elements of the earth are described briefly. In may be concluded from the map that the area of the geosynclines continued to decrease and that development progressed toward the diminution of the tectonic processes and toward the replacement of active geosynclinal activity by stable platform conditions. However, recent features of the

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VASIL'YEV, V.G.; KOSYGIN, Yu.A., redaktor; BEKMAN, Yu.K., redaktor; PERSHINA, Ye.G., redaktor; POLOSINA, A.S., tekhnicheskiy redaktor.

[Natural gas handbook for a geologist] Spravochnik geologa po prirodnomu gazu. Moskva, Gos.nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry. Vol.3. [Geological and prospecting work] Geologo-poiskovye raboty]. 1955. 712 p. (MIRA 8:5)

(Gas, Natural--Geology) (Prospecting)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

SHCHERBAKOV, Dmitrii Ivanovich, akademik; KOSYGIN, Yu. A., redaktor; USPENSKAYA, N.V., redaktor; ISLENT'EVA, P.G., tekhnicheskiy redaktor

[New problems of Soviet geology] Nowye problemy sovetskoi geologii. Moskva, Izd-vo "Znanie," 1955. 31 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii, Ser.3,no.11).
(Geology) (MLRA 8:7)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, YU.A.

Osnovy tektoniki neftenosnykh oblastei
(Principles of the tectonics of oil-bearing regions).
Moskva, Gostoptekhizdat, 1952. 512 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 1, April 1953

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, Yu.A., doktor geologo-mineralogicheskikh nauk, professor; RYABUKHIN, G.Ye., doktor geologo-mineralogicheskikh nauk, professor.

Main tectonic features of the Caspian Depression and main problems in studying its deep-seated geology. Trudy VNIGNI no.2:40-48 '51. (Caspian depression--Geology, Structural) (MLRA 10:4)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, Yu.A.; GRATSIANOVA, O.P., redaktor; MURATOVA, V.M., redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Geologist's handbook on natural gas] Spravochnik geologa po prirodnomy gazu. Moskva, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry.Vol.1 [General geology] Obshchaia geologiia. 1951. 415 p. (MLRA 8:10)
(Geology)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, YU. A.

"Base Drilling and Its Geological Foundation," Izvestiya Akademiy Nauk SSSR, Seriya Geologicheskaya, No. 1, 1950.

TRANSLATION AVAILABLE, W-14527

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, Yu.A.; LUCHITSKIY, I.V.; ROZANOV, Yu.A.

Experiments on gypsum deformations and its geological significance. Biul. MOIP. Otd. geol. 24 no.2:3-19 '49. (MIRA 11:5)
(Gypsum)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, YU. A.

"Mathematic Studies in Tectonics," Iz. Ak. Nauk SSSR, Ser. Geol., 2, 1949

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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KOSYGIN, Yu. A.

Kosygin, Yu. A., Luchitskiy, I. V., and Rozanov, Yu. A. - "Experiments on the deformation of gypsum, and their geological significance", Byulleten' Mosk. o-va ispytateley prirody, Otd. geol., 1949, Issue 2, p. 3-19.

SO: U-4631, 16 Sept. 53, (Letopis 'nykh Statey, No. 24, 1953).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, Yu.A.

Kosygin, Yu.A. "On the application of the principle of vertical pressure to the lesser tectonic structures of the Russian Platform", Byulleten' Mosk. o-va ispytateley prirody, otd. geol., 1948, Issue 6, p. 61-68.
Vol. 53

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, YU. A. PA 66T57

USSR/Geology Mar/Apr 1948
Tectonics

"Some Regularities in the Distribution of Salt Domes in the South Emba Region," Yu. A. Kosygin, N. A. Shvemberger, Yu. P. Nokitina, 4 pp

"Byul Mosk Obsh Ispy Prirod, Otdel Geolog" Vol XXIII, No 2

Authors, taking as examples the distribution of domes in the periphery of the Baychunasskiy depression, show that the localization and orientation of salt domes in the western Transkazakhstan is closely connected to the formation of the contemporary depressions in the Pre-Caspian syncline.
[redacted] 66T57

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

[illegible], Yu. A. Dr. Geolog-Mineralog. Sci.

Dissertation: "Salt Tectonics of Stage Areas." Inst. of Geologic Sci. Acad. Sci. USSR, 7 Feb 47.

SO: Vechernyaya Moskva, Feb 1 47 (Project #[illegible]36)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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KOSYGIN, YU. A.

8

General tectonic classification of salt domes. Yu. A. Kosygin. *Neftyanoe Khozyaistvo* 24, No. 6/7, 9-13 (1946).—Based on the theory of the mechanism of formation of salt domes, evolved by K. in 1940, a classification of the domes is outlined. It is essentially a general tectonic classification, since folding and other movements of the earth strata are regarded to be the principal factor affecting the formation and growth of salt domes. Numerous important details have been disregarded in this classification. They are: subdivision into shallow and deep domes, the shape of the salt core, and the characteristics of the overlying structure. Bruno C. Metzner

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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KOSYGIN, Yu. A.

"The machanics of formation of salt Domes", Byulleten' MOIP, otd. geogolog., Vol. 20 (5-6), 1945.

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KOSYGIN, M.K.; ROSLYAKOV, G.V.

"Principles of efficient ore prospecting methods" by V.I. Krasnikov. Sov. geol. 4 no.1:154-156 Ja '61. (MIRA 14:1)

1. Irkutskiy politekhnicheskiy institut.
(Ore deposits) (Prospecting)
(Krasnikov, V.I.)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, M.K., ROSLYAKOV, G.V.

"Prospecting for mineral deposits" by A.A. IAkzhina. Reviewed by M.K. Kosygin, G.V.Rosliakov. Sov. geol. 3 no.7:154-155 Jl '60. (MIRA 13:8)

1. Irkutskiy gornometallurgicheskiy institut.
(Prospecting)
(IAkzhina, A.A.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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ANTIPOV, G.I.; IVASHCHENKO, M.A. [deceased]; KORABEL'NIKOVA, V.V.; KOSYGIN, M.K., dotsent; KUZNETSOV, G.A., dotsent; PEKARIN, P.M.; ROSLYAKOV, G.V., dotsent; STRAKHOV, L.G.; CHERNYSHEV, G.B., red.; TKALICH, S.M., red.; MUKHIN, S.S., red.izd-va; GUROVA, O.A., tekhn.red.

[Angara-Ilim iron ore deposits of trap formation in the southern Siberian Platform] Angaro-Ilimskie zhelezorudnye mestorozhdeniia trappovoi formatsii iuzhnoi chasti Sibirskoi platformy. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960. 375 p. (MIRA 13:10)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr. 2. Geologi Irkutskogo geologicheskogo upravleniya (for Antipov, Ivashchenko, Korabel'nikova, Pekarin, Strakhov). 3. Irkutskiy gornometallurgicheskiy institut (for Kosygin, Roslyakov). 4. Irkutskiy gosudarstvennyy universitet (for Kuznetsov). 5. Glavnyy inzh. Irkutskogo geologicheskogo upravleniya (for Tkalich).
(Angara-Ilim region--Iron ores)

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KOSYGIN, M.K.

Method of prospecting for iron ore deposits in the Angara-Ilim area. Trudy MGRI 31:3-10 '57. (MIRA 11:6)
(Angara Valley--Iron ores)
(Prospecting)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, M. K., Doc Geol-Mineral Sci -- (diss) "Methods of prospecting, surveying, and appraisal of ~~xxxxxxx~~ iron-ore deposits in the Angara-Ilim~~xx~~ region." Irkutsk, 1957. 30 pp. (Min Higher Ed USSR, Mos Geol ~~Research~~ Prospecting Inst im S. Ordzhonikidze, Irkutsk Min Metallurg Inst), 150 copies. (KL, 9-58, 114)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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15-57-10-14276

On the Structure and Genesis of the Angara-Ilim Iron Deposits

porphyrites in the form of semicircles, horseshoes, columns, veins and irregular bodies, all of which are commonly altered by hydrothermal solutions. Crater-tpye brecciates and necks were found in some localities. These volcanic craters and vents are associated in space and in genetic aspects with the ore bodies, the main mass of which is metasomatic, brecciated and intruded, and which may also appear in the form of vein magnetite. In some separate cases the veins enter surrounding sedimentary rocks, but such penetrations are very shallow. The shapes and sizes of the craters vary: they reach from 0.1 km^2 to 1.3 km^2 in area and are of elliptical or oval form. In some places two or three craters are connected by deep canals and some of them may be joined at a certain depth. The authors concluded that, prior to the formation of ores, the region underwent several (no less than four) periods of volcanic activity associated with trap magma. The hydrothermal process of ore formation took place in several stages. In the first stage the ore-bearing solution caused the formation of metasomatic rocks, followed by

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15-57-10-14276

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, p 143-144 (USSR)

AUTHORS: Kosygin, M.K., Roslyakov, G.V.

TITLE: On the Structure and Genesis of the Angara- Ilim Iron Deposits (K voprosu o strukture i genezise angaro-ilimskikh zhelezorudnykh mestorozhdeniy)

PERIODICAL: Tr. Irkut. gorno-metallurg. in-ta, 1956, Nr 10, pp 144-151

ABSTRACT: Detailed study of this location led to the discovery of volcanic craters and pipes which represent ancient volcanic vents of the central type. They are filled with the tuffaceous rocks made up of vitroclastic tuffs, tuffites, tuff breccia, which are commonly fused and in places completely altered into garnet-diopside-calcite aggregates. Within these vents and at their contacts with sedimentary rock lie diabase

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KOSYGIN, L.I.

Improving automatic cold-upsetting machine. Mashinostrotel' no.1:16 Ja '62. (MIRA 15:1)
(Forging machinery--Technological innovations)

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KOZLOV, F.R.; KOSYGIN, A.N.; ZASYAD'KO, A.F.; NESMEYANOV, A.N.; ANTROPOV, P.Ya.; YELUTIN, V.P.; RUDAKOV, A.P.; KIRILLIN, V.A.; TOPCHIYEV, Aleksandr V.; BLAGONRAVOV, A.A.; SHEVYAKOV, L.D.; SHILIN, A?A?; MEL'NIKOV, N.V.; KRASNIKOVSKIY, G.V.; TOPCHIYEV, Aleksey V.; BOYKO, A.A.; BRATCHENKO, B.F.; GRAFOV, L.Ye.; KUZ'MICH, A.S.; KRATENKO, I.M.; MAN'KOVSKIY, G.I.; PLAKSIN, I.N.; AGOSHKOV, M.I. SPIVAKOVSKIY, A.O.; POCHENKOV, K.I.; KRASOZOV, I.P.; KOZHEVIN, G.V.; LINDENAU, N.I.; KUZNETSOV, K.K.

A.S.Skochinskii; obituary. Vest.AN SSSR 30 no.11:73-75 N '60. (MIRA 13:11)
(Skochinskii, Aleksandr Aleksandrovich, 1874-1960.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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KOZLOV, F.R.; KOSYGIN, A.N.; ZASYAD'KO, A.F.; NESMEYANOV, A.N.; ANTROPOV, P.Ya.; YELYUTIN, V.P.; RUDAKOV, A.P.; KIRILLIN, V.A.; TOPCHIYEV, Aleksandr V.; BLAGONRAVOV, A.A.; SHEVYAKOV, L.D.; SHILIN, A.A.; MEL'NIKOV, N.V.; KRASNIKOVSKIY, G.V.; TOPCHIYEV, Aleksey V.; BOYKO, A.A.; BRATCHENKO, B.F.; GRAFOV, L.Ye.; KUZ'MICH, A.S.; KRATENKO, I.M.; MAN'KOVSKIY, G.I.; PLAKSIN, I.N.; AGOSHKOV, M.I.; SPIVAKOVSKIY, A.O.; POCHENKOV, K.I.; KRASOZOV, I.P.; KOZHEVIN, G.V.; LINDENAU, N.I.; KUZNETSOV, K.K.

Academician A.A.Skochinskii; obituary. Mast.ugl. 9 no.11:22 N '60. (MIRA 13:12)

(Skochinskii, Aleksandr Aleksandrovich, 1873-1960)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, Aleksey Nikolayevich

[Speech at the 22d Congress of the CPSU, October 21, 1961] Rech' na XXII s"ezde KPSS, 21 oktiabria 1961 goda. Moskva, Gos. izd-vo polit. lit-ry, 1961. 23 p. (MIRA 14:11)
(Communist Party of the Soviet Union)
(Russia—Industries)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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KOSYGIN, A.N.

Abundance can not be an evil. Nauka i zhizn' 27 no.10:1 O '60.
(MIRA 13:10)

1. Pervyy zamestitel' Predsedatelya Soveta Ministrov SSSR.
(Automatic control) (Social conditions)

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KOSYGIN, A.N.

[Plan for the development of the national economy of the U.S.S.R. in 1960; report and closing address at the third session of the Fifth Supreme Soviet of the U.S.S.R., October 27 and 30, 1959. Law of the state development plan for the national economy of the U.S.S.R. in 1960] O plane razvitiia narodnogo khoziaistva SSSR na 1960 god; doklad i zakliuchitel'nye slova na III sessii Verkhovnogo Soveta SSSR piatogo sozyva 27 i 30 oktiabria 1959 goda. Zakon o gosudarstvennom plane razvitiia narodnogo khoziaistva SSSR na 1960 god. Moskva, Gosplanizdat, 1959. 59 p. (MIRA 13:3)
(Russia--Economic policy)

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KOSYGIN, A.N.

For a close connection between science and society. Vest.AN SSSR 31 no.7:90-106 Jl '61. (MIRA 14:6)

1. Pervyy zamestitel' Predsedatelya Soveta Ministrov SSSR.
(Research)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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KOSYGIN, A.; NOVIKOV, V.; MURAV'YEVA, N.; ZOTOV, V.; AKIMOV, I.; SPORYSHEV, V.; KOLOSOVA, V.; CHESNOKOV, N.; NEFEDOVA, O.; BOGAYEVA, A.; PIKOVSKIY, G.; KARMANOV, M.; SIYTAM, Ye.; KHODAKOVA, S.; KUSHNER, P.; BLYAKHMAN, I.; BASSIAS, L.; KINESHEMTSEVA, A.; REZNIKOV, M.; KALININ, S.; MILANOVA, D.; VENGEROVA, R.; AGROSKINA, M.; RATNER, B.; NARODETSKIY, B.; MARKOVA, L.; GOLUBENKOVA, N.; TSEKHANSKAYA, S.; TERENT'YEVA, N.; NESTEROVA, S.; AKSENOV, S.

D.M.Khazan-Andreeva; obituary. Tekst.prom. 21 no.12:90 D '61. (MIRA 15:2)
(Khazan-Andreeva, Dora Moiseevna, 1894-1961)

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KOSYGIN, A.

Raise the standard of work of the State Bank to meet the growing demands of a further improvement in business accounting. Den. i kred. 12 no.3:5-12 S'54. (MLRA 8:2)
(Banks and banking) (Industrial management)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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Andreyev, A.; BERIYA, L.; BULGANIN, N.; VOZNESENSKIY, N.; VOROSHILOV, K.; KAGANOVICH, L.; KOSYGIN, A.; KUZNETSOV, A.; MALENKOV, G.; MIKOYAN, A.; MOLOTOV, V.; PONOMARENKO, P.; POPOV, G.; SUSLOV, M.; KHRUSHCHEV, N.; SHVERNIK, N.; SHKIRYATOV, M.

Andriev Aleksandrovich Zhdanov; obituary. Vympel 11 no.17:1-4 S '48. (MIRA 12:9)

(Zhdanov, Andrei Aleksandrovich, 1896-1948)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYGIN, G.M.

Characteristics of the winter feeding habits of black grouse and raven in Lenskiy District, Yakutia. Ornitologiia no.5: 147-148 '62. (MIRA 16:2)

(Lenskiy District (Yakutia)--Black grouse)
(Lenskiy District (Yakutia)--Ravens)
(Lenskiy District (Yakutia)--Birds--food)

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KOSYANSKIY, B.S.

Using the PKS-20 steam dryer for drying corn germ. Sakh. prom. 37 no.8:58-60 Ag '63. (MIRA 16:8)

1. Benderskiy krakhmalo-patochnyy zavod.
(Corn starch) (Drying apparatus)

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BARTOSHKINA, P.; VASIL'YEV, A.D.; KATOVSKAYA, A. [Katouskaia, A.]; KOSYANOVA, M. [Kas'ianava, M.] (g.Mogilev); LIPNITSKIY, S. [Lipnitski, S.]

Letters to the editor. Rab. i sial. 37 no.1:20 Ja '61. (MIRA 14:2)

1. Nachal'nitsa zhenskogo soveta Mogilevskogo zheleznodorozhnogo uzla (for Bartoshkina). 2. Zaveduyushchiy Povetskogo fel'dshesko-akuzherskogo punkta (for Vasil'yev). 3. Kolkhoznitsa sel'skohozyaystvennoy arteli imeni Kalinina Krychovskogo rayona Mogilevskoy oblasti.

(Aged) (White Russia--Rural conditions)

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IL'SKIY, Aleksandr Loneinovich; KOS'YANOV, V.M., kandidat tekhnicheskikh nauk, retsenzent; ANDREYEV, M.M., dotsent, retsenzent; PETROVA, Ye.A., inzhener, vedushchiy redaktor; POLOSINA, A.S., tekhnicheskiy redaktor

[Calculation and construction of boring equipment] Raschet i konstruirovanie burovogo oborudovaniia. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1957. 551 p. (MLRA 10:3)
(Boring machinery)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

VULAKH, V.L.; IVANOVA, V.V.; KOS'YANOV, G.I.; PANASYUK, V.V., kandidat fiziko-matematichnikh nauk, redaktor

[Scientific works of Lvov scientists; engineering and applied mechanics. A biobibliography] Naukovi pratsi uchenykh L'vova; tekhnika i prykladna mekhanika. Bio-bibliografichni materialy. L'viv, 1956. 132 p. (MLRA 10:3)

1. Akademiya nauk URSR, Kiyev. L'vivs'ka biblioteka.
(Bibliography--Lvov--Engineers)
(Lvov--Engineers--Bibliography)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOS'YANENKO, V.G., akademik

"Structural principles of the skeleton" by B. Kummer. Reviewed by V.G. Kas'ianenko. Arkh. anat. gist. i embr. 38 no. 5:115-117 My '60. (MIRA 14:2)

1. Adres avtora: Kiyev, Vladimirskaya ul., 55, Institut zoologii AN USSR.

(BONES) (KUMMER, B.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

AUTHORS: Kos'yanenko, V.A., Finkel'shteyn, Ye.N. 119-2-12/13

TITLE: The Projector 411-1 (Proyektor 411-1).

PERIODICAL: Priborostroyeniye, 1958, Nr 2, pp. 32-32 (USSR)

ABSTRACT: This projector serves the purpose of measuring small details by enlargement and by the simultaneous use of the co-enlargement of a scale. The interchangeable objectives permit 10 - 200-fold enlargement. With an additional device it is possible to determine the diameters of small holes and the distances between the axis of the holes. There is 1 figure.

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Card 1/1 1. Projectors-USSR 2. Opaque projectors-Applications

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APTEKAR', A.; BARATS, I.; BIDA, L.; KOS'YANENKO, S.

Method based on personnel norms used for planning labor productivity in ferrous metallurgy. Biul. nauch. inform.: trud i zar. plata 4 no.11:3-11 '61. (MIRA 14:12)
(Ukraine--Steel industry--Labor productivity)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

SUMIN, Ivan Petrovich; KUSHNEROV, Petr Ivanovich; KOS'YANENKO, Filipp Ivanovich; OKHRIMENKO, V.A., otv. red.; BERESLAVSKAYA, L.Sh., tekhn. red.

[Using the long hole method for coal breakage in the Kuznetsk Basin mines] Primenenie dlinnoshpurovogo sposoba otboiki uglia na shakhtakh Kuzbassa. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 24 p. (MIRA 15:1)
(Kuznetsk Basin--Coal mines and mining)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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KOSYAN, Sh.A.; BARSEGYAN, G.B.

Dust-filled air of the working places in the casting house of the Armenian Dynamoelectric Machine Plant. Zhur. eksp. i klin. med. 3 no.6:79-83 '63 (MIRA 17:4)

1. Kafedra gigiyeny truda Yerevanskogo meditsinskogo instituta.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

GOPIUS, A.Ye.; KATS, Yu.A.; KHOKHRYAKOV, A.N.; KOSYAKOVA, V.I.

Testing automobile radiators made of arsenic brass. Trudy Giprotsvetmetobrabotka no.20:280-286 '61. (MIRA 15:.)
(Automobile—Radiators) (Brass—Testing)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

MILOVANOVA, L.V.; KOSYAKOVA, S.A.

Operating experience of P.E.Erastov, best spinner. Khim. volok. no.3:65 '60. (MIRA 13:7)

1. Klinskiy kombinat.
(Klin--Rayon spinning)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

GOPIUS, A.Ye., kand.tekhn.nauk; MINKIN, M.L., kand.tekhn.nauk; NAUMOVA, M.M.; KATS, Yu.A.; KHOKHRYAKOV, A.N.; KOSYAKOVA, V.I.

Investigating materials for radiator pipes of automobile engines. Avt.prom. 28 no.5:15-17 My '62. (MIRA 15:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut obrabotki tsvetnykh metallov, Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut i Gor'kovskiy avtozavod.
(Automobiles--Radiators) (Brass--Testing)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

CHERTOUSOV, Mikhail Dmitriyevich, zasl. deyatel' nauki i tekhniki RSFSR, prof., doktor tekhn. nauk[deceased]; KOZHEVNIKOV, M.P., prof., doktor tekhn. nauk, red.; YAKOVLEV, N.A., starshiy prepod., kand. tekhn. nauk, red.; ASTAFICHEVA, T.N., dots., kand. tekhn. nauk, red.; KOSYAKOVA, G.N., dots., kand. tekhn. nauk, red.; MOZHEVITINOV, A.L., prof., red.; ZHITNIKOVA, O.S., tekhn. red.

[Hydraulics]Gidravlika; spetsial'nyi kurs. Izd.4., ispr. Moskva, Gosenergoizdat, 1962. 629 p. (MIRA 16:1)

1. Kafedra gidravliki Leningraskogo politekhnicheskogo instituta (for Kozhevnikov, Yakovev, Astaficheva, Kosyakova).
(Hydraulics)

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SOV/124-58-11-12614

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 97 (USSR)

AUTHOR: Kosyakova, G. N.

TITLE: The Hydraulic Jump in a Steeply Sloping Stream Bed (Gidravlicheskiy pryzhok v rusle s bol'shim uklonom dna)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1955, Nr 178, pp 71-79

ABSTRACT: It is pointed out that the problem of the hydraulic jump can be considered at this time as sufficiently fully studied for stream beds with a horizontal bottom only. The author derives the equations of a jump in a rectangular stream bed having a steep slope, utilizing the momentum law for that purpose. This is accomplished under the premise that the free stream surface downstream of the jump is horizontal. One of the parameters in the fundamental equation obtained from the momentum law is determined empirically. As is noted by the author, the proposed relationship is valid for a broader range of values of bottom slopes than the relationships proposed earlier by B. A. Bakhmetev (1938) and Kindsvater (Proc. Amer. Soc. Civil Engrs., 1942, Nr 9). The range of applicability of this relationship is $i_k \leq i \leq 1/3$, where i_k is the critical slope. O. F. Vasil'yev

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KOSYAKOVA, G.A.; FAYN, I.A.

Consumers' goods of ceramics. Stek. i ker. 11 no.7:3-4 Jl '54.
(Ceramic industries) (MLRA 7:7)

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KOSYAKOV, Yu.A.

Automatically controlled unit for mechanized painting and drying of plastic motion-picture screens. Lakokras.mat.i ikh prim. no.6:66-70 '62. (MIRA 16:1)

1. Gosudarstvennaya vsesoyuznaya proizvodstvennaya kontora po lakokrasochnym pokrytiyam Glavkhimplastkraski Ministerstva khimicheskoy promyshlennosti SSSR.
(Motion-picture screens--Painting)
(Automatic control)

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EYGELES, M.A.; ANTONOVA, T.N.; KUZNETSOV, V.P.; VOLOVA, M.L.; SAKHAROVA, Ye.P.; KOSYGIN, V.V.; KISLOV, A.V.; BALASHOVA, G.G.

Simultaneous production of high-quality fluorite concentrates from multicarbonate ores low in fluorite. TSvet. met. 37 no.11: 32-35 N '64. (MIRA 18:4)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYAKOV, V.S., inzh.; MOLOSTOV, V.N., inzh.; NAKHALOV, V.A., inzh.

Resistance of materials used for rod-type grids of MP-VTI fly-ash collectors. Elek.sta.29 no.3:86 Mr '58. (MIRA 11:5)
(Power plants--Equipment and supplies)
(Materials--Testing)

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L 27605-65

ACCESSION NR: AP5001642

slightly, and that branching of the chain causes a decrease in the distribution coefficients. The nature of the diluent also has a pronounced effect on the extraction. Orig. art. has: 7 figures, 5 formulas and 11 tables.

ASSOCIATION: none

SUBMITTED: 24Jun64 ENCL: 00 SUB CODE: IC

NO REF SOV: 004 OTHER: 011

Card 2/2

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L 27605-65 EWT(m)/EPF(n)-2/EWP(t)/EWP(b) Pu-4 IJP(c) JD/WW/JG

ACCESSION NR: AP5001642 S/0186/64/006/006/0655/0665

AUTHOR: Gurayev, Ye. S.; Kosyakov, V. N.; Yakovlev, G. N. 25 23 B

TITLE: Extraction of actinide elements with dialkyl phosphoric acids

SOURCE: Radiokhimiya, v. 6, no. 6, 1964, 655-665

TOPIC TAGS: actinide element, uranium extraction, neptunium extraction, plutonium extraction, americium extraction, cerium extraction, dialkyl phosphoric acid

ABSTRACT: The object of the work was to study the extraction of uranium (VI), neptunium (V), plutonium (IV), americium (III) and cerium (III) with dialkyl phosphoric acids from nitric acid solutions and the influence on the extraction of such factors as the length and degree of branching of the carbon atom chain of the alkyl radical, concentration of the extracting agent in the organic phase, concentration and type of the acid in the aqueous phase, and type of the neutral diluent. The nature of the dependence of the distribution coefficients of Am (III), Pu (IV), and U (VI) on the concentration of the extracting agent in the organic phase and on the content of hydrogen ions in the aqueous phase was elucidated. It was shown that when the carbon chain of the radical in the dialkylphosphate increases in length, the extractability of these elements increases

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ZAYTSEV, A.A.; KOSYAKOV, V.N.; RYKOV, A.G.; SOBOLEV, Yu.P.; YAKOVLEV, G.N.

[Disproportionation of americium (V)] Disproportsionirovanie ameritsiia (V). Moskva, In-t atomnoi energii AN SSSR, 1960. 18 p. (MIRA 16:12)

(Americium)

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PENNEMEN, R.[Penneman, R.A.]; KINEN, T. [Keenan, T.K.]; KOSYAKOV, V.N. [translator]; YAKOVLEV, G.N., red.;SAKHAROV, V.M., red.; DOTSENKO, V., tekhn. red.; OROTEYEVA, Yu., tekhn. red.

[Radiochemistry of americium and curium] Radiokhimiia ameritsiia i kiuriia. Pod red. G.N.IAkovleva. Moskva, Izd-vo inostr. lit-ry, 1961. 96 p. (MIRA 15:1)
(Americium) (Curium) (Radiochemistry)

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ZAYTSEV, A.A.; KOSYAKOV, V.N.; RYKOV, A.G.; SOBOLEV, Yu.P.; YAKOVLEV, G.N.

Kinetics of reduction of americium(V) by hydrogen peroxide. Radiokhimiia 2 no.3:348-350 '60. (MIRA 13:10)
(Americium) (Hydrogen peroxide)

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ZAYTSEV, A.A.; KOSYAKOV, V.N.; RYKOV, A.G.; SOBOLEV, Yu.P.; YAKOVLEV, G.N.

Disproportionation of americium(V). Radiokhimiia 2 no.3:339-347 '60. (MIRA 13:10)

(Americium)

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ZAYTSEV, A.A.; KOSYAKOV, V.N.; RYKOV, A.G.; SOBOLEV, Yu.P.; YAKOVLEV, G.N.

[Kinetics of americium (V) reduction by hydrogen peroxide] Kinetika vosstanovleniia ameritsiia (V) perekis'iu vodoroda. Moskva, In-t atomnoi energii AN SSSR, 1960. 11 p. (MIRA 16:12)

(Americium) (Reduction, Chemical)

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Disproportionation of Am (IV) SOV/89-7-1-13/26

$2AmO_2^+ + 4H^+ = AmO_2^{2+} + Am^{4+} + 2H_2O$ can be proved. The yields of individual reactions depending upon the molar concentration of the various solutions are mentioned. There are 1 table and 8 references, 2 of which are Soviet.

SUBMITTED: November 17, 1958

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21 (1), 5 (2)

AUTHORS: Zaytsev, A. A., Kosyakov, V. N., Rykov, A. G., Sobolev, ~~Yu. P.,~~ Yakovlev, G. N. SOV/89-7-1-13/26

TITLE: Disproportionation of Am (IV) (Disproportsionirovaniye Am (IV))

PERIODICAL: Atomnaya energiya, 1959, Vol 7, Nr 1, pp 69-71 (USSR)

ABSTRACT: As a preliminary result, it is said that the reactions $2Am^{4+} + 2H_2O = Am^{3+} + AmO_2^{+} + 4H^{+}$ and $Am^{4+} + AmO_2^{+} = Am^{3+} + AmO_2^{2+}$ have actually been experimentally proved. The production of the various chemical solutions and the times needed for working-up the material are given. The concentration of Am (III), Am (IV), and Am (VI) was measured by means of the quartz spectrometer SF-4. The material to be measured was filled into a hermetically closable cylindrical cuvette of 2 cm length, and was measured in the spectrometer in this condition. Total americium concentration was determined from the α-activity of the Am^{241}. Apart from the initially mentioned results, it was further stated that the reactions: $3Am^{4+} + 2H_2O = 2Am^{3+} + AmO_2^{2+} + 4H^{+}$

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The Radiolytic Reduction of Am (VI) and Am (V) SOV/89-7-1-7/26

tion of AmO_2^{2+}, the observed and calculated reduction rate of AmO_2^{+} in 0.1 M H_2SO_4, as well as the yields of H_2O_2 and of the hydrogen radicals in sulphuric- and hydrochloric acid are given in tables. There are 7 figures, 3 tables, and 13 references, 3 of which are Soviet.

SUBMITTED: November 17, 1958

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

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The Radiolytic Reduction of Am (VI) and Am (V) SOV/89-7-1-7/26

vestigated. The following is to be said with respect to the experimental part: Chemically pure Am^{241} was used, which contained less than 1% impurities. The chemical reagents were purified separately although they were "chemically pure". The americium concentrations in the solutions were radiometrically measured. The production of Am(V), Am(VI), the self-reduction of Am(V) and Am(VI), and the accumulation of hydrogen peroxide in Am^{241}-solutions are described in detail. The results obtained are partly shown by diagrams, and the following curves deserve special mention: a) radiolytic reduction of americium in 2.0 M $HClO_4$ and in 0.2 N $HClO_4$ + 1.0 M H_2SO_4; radiolytic reaction of Am(V) and accumulation of H_2O_2 in 1.0 M H_2SO_4. b) Variation of the average valence state (N) of americium in the radiolytic reduction in 9.0 M $HClO_4$ at various americium concentrations. c) Variation of the average valence state (N) of americium in the radiolytic reduction in 0.5 M HNO_3 up to 14.5 M HNO_3. The rates and the yield of the radiolytic reduc-

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5 (2)

AUTHORS: Zaytsev, A. A., Kosyakov, V. N., Rykov, A. G., Sobolev, Yu. P., Yakovlev, G. N.

SOV/89-7-1-7/26

TITLE: The Radiolytic Reduction of Am (VI) and Am (V) (Radioliticheskoye vosstanovleniye Am (VI) i Am (V))

PERIODICAL: Atomnaya energiya, 1959, Vol 7, Nr 1, pp 37 - 46 (USSR)

ABSTRACT: The constants of the radiolytic reaction rate of AmO_2^{2+} in hydrochloric-, nitric- and sulphuric acid are experimentally determined, the radiation yields of the reduction products furnishing the values for calculating the reaction rate. If these quantities are combined with the production of hydrogen peroxide, it is possible therefrom to draw conclusions as to the contribution made by hydrogen radicals in the reduction reaction. On the basis of experimental data it is believed to be possible to give a mechanism for the radiolytic reduction of AmO_2^{2+} and AmO_2^{+}. From the equations found for the reduction rate of AmO^{+} it is possible to calculate the production of hydrogen peroxide and of hydrogen radicals in the solutions in-

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PHASE I BOOK EXPLOITATION SOV/5084

International Conference on the Peaceful Uses of Atomic Energy. 2d, Geneva, 1958.

Doklady sovetskikh uchenykh. [t.4] Khimiya radioelementov i radiatsionnykh prevrashcheniy (Reports of Soviet Scientists. v. 4.: Chemistry of Radioelements and Radiation Transformations) Moscow, Atomizdat, 1959. 323 p. 8,000 copies printed. (Series: Its: Trudy)

Ed. (Title page): A. P. Vinogradov, Academician; Ed.: V. I. Labazmov; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This collection of articles is intended for scientists and engineers interested in the applications of radioactive materials in science and industry.

COVERAGE: The book contains 26 separate studies concerning various aspects of the chemistry of certain radioactive elements and the processes of radiation effect on matter. These reports discuss present-day methods of reprocessing irradiated nuclear fuel, research in the chemistry of mercury, thorium, uranium, plutonium, and americium, problems related to the sorption and burying of radioactive wastes, the radiolysis of aqueous solutions and of organic compounds, the mechanism of polymer chain grafting, and the effect of radiation on natural and synthetic rubbers. V. N. Prusakov edited the present volume. Most of the reports are accompanied by references. Contributors to individual investigations are mentioned in annotations to the Table of Contents.

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Alenchikova, I. F., L. L. Zaytseva, L. V. Livis, V. V. Fomin, and K. T. Chebotarev. Production and Properties of Several Binary Fluorides of Tetravalent Plutonium (Report No. 2208) 137

Takovlev, G. N., and V. N. Kosyakov. Investigations on the Chemistry of Americium (Report No. 2127) 147
[D. S. Gorenko-Germanov is mentioned as having supplied the material for the second section of this study.]

Zvyagintsev, O. Ye., V. D. Nikol'skiy, S. M. Starostin, A. Kurbanov, and V. S. Smelt. Contribution to the Chemistry of Radioactive Ruthenium (Report No. 2143) 166

Spitsyn, V. I., V. D. Balukova, A. F. Naumova, V. V. Gromov, F. M. Spiridonov, Ye. M. Vetrov, and G. I. Grekov. Study of the Migration of Radioactive Elements in Soils (Report No. 2207) 174

Voznesenskiy, S. A., G. A. Sereda, P. F. Dolgikh, and L. I. Baskov. Detoxication of Low-Salt-Content and Low-Activity Waste Waters From Radiochemical Plants (Report No. 2024) 189

Bol'shakov, K. A., A. T. Avdonin, V. T. Borshchev, F. V. Rauzen, and others. Experimental Industrial Plant for Purification of Laboratory Waste Waters Contaminated With Radioactive Elements (Report No. 2025) 194

Bogorov, V. G., and Ye. M. Kreps. On the Possibility of Burying Radioactive Wastes in Deep-Water Depressions of the Ocean (Report No. 2058) 204

Proskurnin, M. A., and Ya. M. Kolotyrkin. Investigations Into the Radio-Chemistry of Aqueous Solutions (Report No. 2022) 211
[The investigations were carried out at the Laboratoriya radiatsionnoy khimii fiziko-khimicheskogo instituta im. L. Ya. Karpova (Laboratory of Radiation Chemistry of the Physicochemical Institute imeni L. Ya. Karpov) under the direction of M. A. Proskunin, V. D. Orekhov, Ye. V. Barelko, and A. I. Chernova. The data on oxidation reduction reactions taking place in aqueous solutions under the effect of γ-radiation were obtained from investigations made at the Laboratoriya korrozii i elektrokhimii metallov (Laboratory of Corrosion and Electrochemistry of Metals) under the direction of Ya. M. Kolotyrkin, N. Ya. Bune, and G. S. Tyurikov. The following are mentioned as having made a study of conjugate reactions such as the formation of dyes from leuco bases: V. D. Orekhov, A. A. Zansokhova, L. I. Belen'kiy, T. V. Bromberg, and M. Ye. Kazanskaya.]

Bakh, N. A., V. I. Medvedovskiy, and V. V. Sarayeva. Radiolysis and Radiation Oxidation of Organic Compounds (Report No. 2273) 229
[The following are mentioned: N. S. Kolosova and V. F. Tsurikov,

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ZAYTSEV, A. A., KOSYAKOV, V. N. RYKOV, A. G., SOBOLEV, Yu. P. and YAKOVLEV, G. N.
(Inst of Atomic Energy AS USSR)

"Investigation of Several Oxidation-Reduction Reactions of Americium"

Isotopes and Radiation in Chemistry, Collection of papers of 2nd All-Union Sci. Tech. Conf. on Use of Radioactive and Stable Isotopes and Radiation in National Economy and Science, Moscow, Izd-vo AN SSSR, 1958, 380pp.

This volume published the reports of the Chemistry Section of the 2nd AU Sci Tech Conf on Use of Radioactive and Stable Isotopes and Radiation in Science and the National Economy, sponsored by Acad Sci USSR and Main Admin for Utilization of Atomic Energy under Council of Ministers USSR Moscow 4-12 Apr 1957.

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KOSYAKOV, V. N.; YAKOVLEV, G. N.; CHULKOV, P. M.; DEDOV, V. B.; and SOBOLEV, Y. P.

"The Preparation of Thin Films of Plutonium Americium and Curium by an Electrolytic Method." J. Nuclear Energy 5, No. 1, 159-61, 1957.

Methods for quantitative electrodeposition of Pu, Am, and Cm, on metallic surfaces were developed. The elements were deposited as hydroxides from neutral and weakly acidic alcoholic solutions of the chlorides.

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15-1957-10-14145

The Influence of Different Elements on the Fluorescence of Uranium in Sodium Fluoride

beads of NaF weighing 5 mg and containing 5×10^{-9} g of U. The elements were introduced into the bead either by mixing with NaF or with the corresponding salt, in different proportions, in case of soluble compounds, by dipping the bead of NaF, which contains a definite quantity of U, into the quenching salt solution. When using the dipping method, it is necessary to know the precise weight of the bead, inasmuch as beads of different weights take up different amounts of solution. The intensity of fluorescence is strongly influenced by the surface of the bead, which is a function of the quality of fusion, of the cooling of the bead, and also of the quantity of NaF. The elements investigated may be divided approximately into five groups, according to their influence on the fluorescence of uranium. 1) Na, K, Rb, Zn, Ti, S, Mo, W, Cl, Br, and J show essentially no effect, even in relatively large quantities. 2) Be, Ce, La, Th, P, Ni, Fe, Mn, Cu, Sr, Cd, Mg, B, Se, Cs, Zn, Ba, Li, and Si extinguish fluorescence when present in the bead in large quantities (on the order of several per cent of the weight of the bead). 3)

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Kosyakov, V.N.

15-1957-10-14145

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, p 124 (USSR)

AUTHORS: Starik, I. Ye., Starik, F. Ye., Atrashenkok, L. Ya., Kostyrev, G. B., Kosyakov, V. N., Krylov, A. Ya.

TITLE: The Influence of Different Elements on the Fluorescence of Uranium in Sodium Fluoride (Vliyaniye razlichnykh elementov na lyuminestsentsiyu urana vo ftoristom natrii)

PERIODICAL: Tr. Radiyev. in-ta AN SSSR, 1956, vol 7, pp 114-125

ABSTRACT: The principal merits of the fluorescent method of determining U are its simplicity, speed, and high sensitivity. It is possible to determine up to 1 x 10^{-10} grams of U in the bead. The precision of the determination is generally close to 20%. In any method using different activators, measuring devices, and sources of ultraviolet light, impurities exert considerable influence by altering the fluorescence of the Uranium or by extinguishing it. The influence of 45 elements on the fluorescence of U in NaF was studied. The investigations were made on

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KOSYAKOV, V N

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1727
AUTHOR JAKOVLEV,G.N., ČULKOV,P.M., DEDOV,V.B., KOSJAKOV,V.N., SOBOLEV,JU.P.
TITLE The Production of Thin Layers of Plutonium, Americium, and Curium by the Method of Electric Deposition.
PERIODICAL Atomnaja Energija, 1, fasc. 5, 131-132 (1956)
Issued: 1 / 1957

For the examination of the nuclear properties of transuranium metals the authors developed a method of quantitative electric deposition of Pu, Am, and Cm on metal surfaces. Deposition occurred from neutral and slightly acid alcohol-acetone solutions of chlorides in form of hydroxides.

Apparatus: Various types of electrolyzers were used for the investigation. The glass bowls were carefully pressed immediately on to the cathode. The platinum anode is arranged strictly parallel to the cathode. With a set of glass vessels it is possible to obtain layers with different areas and of different shapes. Illustrations of electrolyzers are attached.

Experimental Methods: As to density of the depositions and quality of the layers, electrolysis of the neutral solutions furnishes compounds of trivalent chlorides. A mixture of 50% ethyle alcohol, 45% acetone, and 5% water was used as a solvent. The most effective method for the production of trivalent plutonium is the chlorination of plutonium oxide by tetrachlorine carbon vapors in a noble gas atmosphere at from 625 to 650° C. Also the production of neutral solutions of Americium and Curium chloride presents no difficulties. The qualitative separation of elements and the production of qualitatively fully satis-

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YAKOVLEV, G.N., nauchnyy sotrudnik; KOSYAKOV, V.N., nauchnyy sotrudnik

[Spectrophotometric research on the behavior of americium ions in solution; reports presented by the U.S.S.R. to the International Conference on Peaceful Uses of Atomic Energy] Spektrofotometricheskie issledovaniia povedeniia ionov ameritsiia v rastvorakh; doklady, predstavlennye SSSR na Mezhdunarodnuiu konferentsiiu po mirnomu ispol'zovaniiu atomnoi energii, 1955. 15 p. (MIRA 12:11)
(Americium)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYAKOV, V.N.

DEDOV, V.B.; KOSYAKOV, V.N.

[Electrolytic deposition of plutonium, americium, and curium] Elektrolificheskoe osazhdenie plutoniia, ameritsiia i kiuriia; doklady, predstavlennye SSSR na Mezhdunarodnuiu konferentsiiu po mirnomu ispol'zovaniiu atomnoi energii. Moskva, 1955. 14 p. [Microfilm] (MLRA 9:3)

(Electrometallurgy) (Plutonium) (Americium) (Curium)

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BENDERSKIY, L.S.; BYSTROV, A.M.; VASIL'YEV, N.V.; GORELIKOV, V.D.; DANILOV, V.N.; DIVINSKIY, Yu.L.; YERMOLAYEV, V.A.; KOSYAKOV, V.M.; FEDOROV, V.V.

Producing quality casting of magnesium alloys by means of liquid metal filtration. Lit. proizv. no.11:37-39 N '64. (MIRA 18:8)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

L 33950-65 EPA(s)-2/EWT(m)/EPF(n)-2/EWA(d)/EPR/EWP(t)/EWP(b) Ps-4/Pt-10/Pu-4 IJP(c) MJW/JD/WW/JG

ACCESSION NR: AP4049500 S/0128/64/000/011/0037/0039

AUTHOR: Benderskiy, L. S. (Engineer); Bystrov, A. M.; Vasil'yev, N. V.; Gorelikov, V. D.; Danilov, V. N.; Divinskiy, Yu. L.; Yermolayev, V. A. (Engineer); Kosyakov, V. M.; Fedorov, V. V. (Engineer)

TITLE: Obtaining high-grade castings from magnesium alloys by filtering the liquid metal

SOURCE: Liteynoye proizvodstvo, no. 11, 1964, 37-39

TOPIC TAGS: magnesium alloy, magnesium base alloy, foundry technology, alloy casting, metal filtration

ABSTRACT: A method of obtaining high-grade castings from magnesium alloys by filtering the liquid metal was investigated. The effectiveness of filtering liquid alloy ML5 and the effect of filtration on the chemical composition, mechanical properties and structure of the alloy were determined. The investigations showed that there are no flux and slag inclusions in the fractures. The author concludes that defects from flux and slag inclusions are reduced by a factor of 12-15, and final flow is reduced by a factor of 7-8. The optimum ratio between the total area of grid openings and the total area of the cross section of the risers should be no less than 5:1. The recommended height of the filter is 60-80mm. Orig. art. has: 7 figures and 1 table.

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isotopes $\Delta\nu$ and g_J (Landé factor) were measured in several series. $\Delta\nu = \Delta W/h$, ΔW being the energy of hyperfine splitting of the ground state ($^2S_{1/2}$) at H=0. The results (Table) proved very sensitive to the purity of the matrix substance. There are 2 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. Ioffe of the Academy of Sciences USSR)

SUBMITTED: December 1, 1962

Atom	matrix	$\Delta\nu$, Mc	$\delta(\Delta\nu)/\Delta\nu$, %	g_J
Ag^{107}	free atom	1712,56±0,04		2,00224±0,00020
Ag^{109}	free atom	1976,94±0,04		2,00224±0,00020
Ag^{107}	H_2O	1736,9 ±3,1	+1,42	2,0021±0,0005
Ag^{109}	H_2O	2004,7 ±2,9	+1,40	2,0020±0,0006
Ag^{107}	C_2H_5OH	1500,3 ±2,4	−12,39	2,0003±0,0008
Ag^{109}	C_2H_5OH	1733,0 ±2,3	−12,36	2,0004±0,0009

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

S/056/63/044/004/016/044
B102/B186

AUTHORS: Zhitnikov, R. A., Kolesnikov, N. V., ~~Kosyakov, V. I.~~

TITLE: Paramagnetic resonance of silver atoms trapped in polar media at 77°K

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 4, 1963, 1204 - 1210

TEXT: Previous investigations (ZhETF, 43, 1186, 1962) on the paramagnetic resonance of silver atoms trapped in non-polar media were continued; the method of measurement was the same. The difference consisted in the media used; first nonpolar media (solid at room temperature) were used, and then polar ones (liquid at room temperature): distilled water and absolute ethyl alcohol. The measurements were made with a radiospectroscope (3-cm band) with h-f modulation of the magnetic field. The constant magnetic field was measured with an accuracy of 10^{-4} by the nuclear magnetic resonance method. For each of the silver isotopes (Ag^{107}, Ag^{109}, I = 1/2) there are four Zeeman fine structure levels between which two resonance levels are possible in strong fields: $(F=1,m=1) \rightarrow (F=0,m=0)$ and $(F=1,m=0) \rightarrow (F=1,m=1)$. For both

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

S/056/62/043/004/011/061
B102/B180

Paramagnetic resonance ...

ASSOCIATION: Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Physicotechnical Institute of the Academy of Sciences USSR)

SUBMITTED: May 9, 1962

Legend to the tables: (1) Die material; (2) commercial parraffin; (3) freq; (4) type of spectrum (A, B); (5) Mc/sec.

Table 1.

Атом	Матрица (1)	Тип спектра (3)	ν, мггц (4)	H_1, Ое	H_2, Ое	$\delta H = H_1 - H_2$, Ое
Ag^{107}	Технический парафин (2)	A	9600,0±0,5	3086,0±0,3	3710,3±0,3	623,4±0,6
Ag^{109}	То же	A	9600,0±0,5	3028,5±0,3	3750,1±0,3	721,6±0,6
Ag^{107}	» »	Б	9600,0±0,5	3107,2±0,7	3694,6±0,6	587,4±1,3
Ag^{109}	» »	Б	9600,0±0,5	3051,2±1,2	3732,0±0,7	680,8±1,9
Ag^{107}	$C_{20}H_{42}$	A	9503,9±0,5	3052,1±0,3	3675,8±0,6	623,7±0,9
Ag^{109}	$C_{20}H_{42}$	A	9503,9±0,5	2993,8±0,3	3715,7±0,3	721,9±0,6
Ag^{107}	$C_{17}H_{36}$	A	9500,6±0,5	3087,6±0,3	3712,8±0,5	625,2±0,8
Ag^{109}	$C_{17}H_{36}$	A	9500,6±0,5	3028,7±0,5	3752,6±0,5	723,9±1,0

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ond transition. These values were used to calculate $\Delta\nu$ and the Landé fac' - g_J by

$$\nu = -\Delta\nu\left\{\frac{1}{2}(1+x_1^2)^{1/2}+\frac{1}{2}(1-x_1)-\frac{g_I\beta H_1}{h\Delta\nu}\right\},$$
$$\nu = -\Delta\nu\left\{\frac{1}{2}(1+x_2^2)^{1/2}-\frac{1}{2}(1+x_2)-\frac{g_I\beta H_2}{h\Delta\nu}\right\}; \quad (3).$$
$$x_1 = (g_J - g_I)\beta H_1/h\Delta\nu, \qquad x_2 = (g_J - g_I)\beta H_2/h\Delta\nu,$$

$x = (g_J - g_I)\beta H/\Delta W$ is a dimensionless quantity proportional to the magnetic field, $g_I = -\mu_I/\beta I$, the nuclear gyromagnetic ratio, A is the hyperfine interaction constant, μ_I the nuclear magnetic moment, and $\Delta W = Y_2(2I+1)A$, the hyperfine splitting of the atomic ground state energy level for H=0, β is Bohr's magneton. As there is little difference between the $\Delta\nu$ and g_J values for trapped and free silver atoms, the trapped atoms can be treated as free ones with slightly perturbed electron shells. The die material has little effect on the spectrum. The two different types of spectra of the trapped silver atoms show that at 77°K they are in two different places in the paraffin structure. At room temperature they withdraw and the paramagnetic resonance vanishes completely and irreversibly. There are 4 figures and 2 tables.

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41128
S/056/62/043/004/011/061
B102/B180

AUTHORS: Zhitnikov, R. A., Kolesnikov, N. V., Kosyakov, V. I.

TITLE: Paramagnetic resonance in free silver atoms trapped in non-polar media at 77°K

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 4(10), 1962, 1186 - 1196

TEXT: The method of paramagnetic resonance has hitherto been used only for trapped hydrogen or nitrogen atoms. The measurements were made with a 3-cm band radiospectroscope with rf modulation (975 kc) of the permanent magnetic field, a cylindrical H_{011} resonator and an automatic recording device. The specimens were prepared in the radiospectroscope cavity by vacuum evaporation of the silver from a molybdenum coil and a paraffin from a glass heater with condensation on the bottom of a 77°K quartz Dewar flask. The $Ag^{107}:Ag^{109}$ ratio was 51.9:48.1. The experimental results are given in Table 1. H_1 and H_2 are the magnetic field strengths for the first and sec-

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

ISUPOV, V.A.; KOSYAKOV, V.I.

Dielectric polarization and piezoelectric properties of some seignettoelectric solid solutions made from sodium niobate. Fiz. tver. tela 1 no.6:929-934 Je '59. (MIRA 12:10)

1.Institut poluprovodnikov AN SSSR, Leningrad.
(Sodium niobate) Ferroelectric substances)

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Dielectric Polarization and the Piezoelectric Properties SOV/57-28-10-12/40
of Ferroelectric Solid Solutions of Calcium-, Strontium- and Barium
Metaniobates in Lead Metaniobate

of barium and strontium metaniobate exhibit high piezoelectric properties. Several of the piezoelectric characteristics of a number of mixtures are stable in a wide temperature range. There are 9 figures and 9 references, 7 of which are Soviet.

SUBMITTED: May 10, 1958

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

Dielectric Polarization and the Piezoelectric Properties SOV/57-28-10-12/40
of Ferroelectric Solid Solutions of Calcium-, Strontium- and Barium
Metaniobates in Lead Metaniobate

40 molar %. The Curie-point of these solid solutions decreases in the range of 0-20% of calcium metaniobate content, whereas it remains constant in the range of 20-40% of calcium metaniobate. The dielectric constant of the solid solutions in question is relatively small. 2) The degree of spontaneous polarization exhibited by polycrystalline samples of some solid solutions is very high as compared to that of polycrystalline samples of barium titanate, indicating a pronounced tendency of lead metaniobate towards spontaneous polarization. When measurements were conducted with samples of a 40% content of $BaNb_2O_6$ a value of the spontaneous polarization of 21 micro-Coulomb/cm^2 was obtained. 3) The curves of the temperature dependence of the resonance frequency of solid solutions of strontium metaniobate in lead metaniobate exhibit a kink at negative temperatures. The maxima of the characteristics of the piezoelectric properties of the mixtures in question are found in the vicinity of this temperature. 4) The solid solutions

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

24(6)

AUTHORS: Isupov, V. A., Kosyakov, V. I. SOV/57-28-10-12/40

TITLE: Dielectric Polarization and the Piezoelectric Properties of Ferroelectric Solid Solutions of Calcium-, Strontium- and Barium Metaniobates in Lead Metaniobate (Dielektricheskaya polyarizatsiya i p'yezoelektricheskiye svoystva segneto-elektricheskikh tverdykh rastvorov metaniobatov kal'tsiya, strontsiya i bariya v metaniobate svintsa)

PERIODICAL: Zhurnal tekhnicheskoy fiziki, Vol 28, Nr 10, [illegible] pp 2175 - 2185 (USSR)

ABSTRACT: This is an investigation of the dependence of the Curie-temperature of polycrystalline samples of solid solutions of calcium metaniobates in lead metaniobate upon the content of calcium metaniobate. The authors used samples of the system lead metaniobate - barium metaniobate - strontium metaniobate (which were produced for the work covered by reference 5, that paper also presenting a description of the method of production). Summary: 1) Solid solutions of calcium metaniobate in lead metaniobate are produced at a content of $CaNb_2O_6$ of not less than

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ACC NR: AP6013505

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a capacitor for variation of the oscillator frequency in the IMI-2. During scanning of the magnetic field, an error signal appears at the output of the phase detector in the magnetometer. After amplification, this signal causes the motor to change the oscillator frequency in the magnetometer so that resonance conditions are maintained. The basic element in the field pip generating circuit is a 526U heterodyne wavemeter. The voltage from the oscillator in the IMI-2 is fed to an MVL-3 vacuum-tube millivoltmeter. The amplified voltage then goes to the input of the 526U wavemeter where the oscillator frequency is mixed with the heterodyne frequency. The best signals, which result when the oscillator frequency is a multiple of the heterodyne frequency, are the magnetic field pips. After amplification and detection in a 28IM low-frequency amplifier, these pips are recorded together with the electron paramagnetic resonance spectrum on the microwave spectrometer chart. The intervals between pips may be varied within a range of 30 to 60 oersteds. Fields of 1400-3800 oersteds may be calibrated. The relative error in calibration is $3 \cdot 10^{-4}$ or less. Alignment and operating procedure are described as well as some characteristics of the device. Some possibilities for improvement of the circuit are discussed. Orig. art. has: 2 figures. [14]

SUB CODE: 09/ SUBM DATE: 09Mar65/ ORIG REF: 004/ OTH REF: 001

ATD PRESS: 4254

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L 26096-66 EEC(k)-2/EWA(h)/EWT(1)

ACC NR: AP6013505 SOURCE CODE: UR/0120/66/000/002/0093/0095

AUTHOR: Bukin, I. I.; Kosyakov, V. I.; Maksimov, V. L.; Nadovodiyev, E. V.

ORG: Leningrad Polytechnical Institute (Leningradskiy politekhnicheskiy institut)

TITLE: An automatic magnetic field calibrator for electron paramagnetic resonance microwave spectrometers

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1966, 93-95

TOPIC TAGS: EPR spectrometer, microwave spectroscopy, magnetometer, phase detector

ABSTRACT: A circuit is given for an instrument which automatically calibrates the magnetic field for electron paramagnetic resonance spectrometers. One of the main advantages of the circuit is that it may be assembled from standard components which are available in chemistry and physics laboratories engaged in electron paramagnetic resonance research. The device is conditionally divided into two functional units: 1. a system for automatically tracking the change in the magnetic field of the spectrometer; 2. a circuit for generating the field pips. The basic element in the first section is a standard IMI-2 magnetometer. The nuclear resonance signal from the phase detector of the magnetometer is fed to the input of a UE-119 amplifier. The output voltage from the amplifier is the supply for a reversible RD-09 motor with a 1/15.62 speed reducer. The motor shaft is connected through a clutch to the vernier shaft of

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AFANAS'YEV, N.V.; KOSYAKOV, V.F.

Device for determining the flowability of molding mixtures. Lit. proizv. no.1:19-20 Ja '62. (MIRA 16:8)

(Sand, Foundry--Testing)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300029-6

KOSYAKOV, V.F.

Flow ratio of molding mistures. Lit.prbizv. no.7:41-43 Jl '61. (MIRA 14:7)

(Sand, Foundry)

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Fluidity Tests of Sand Mixes

large section is put over it (Fig.10b). The whole device is put under a laboratory standardized drop hammer with a hammer head of weight Q'. After this, the device is turned 180°, so that now the top is at the bottom. The small bushing is extracted (Fig.10v) and the device is put under the drop hammer again which pounds three times with the weight Q" on the top of the cylinder. In the cylinder, there will be a small bushing again and from the clearance h (Fig.9) the height h' is determined. The results of the comparative tests are shown in Fig.11. For control purposes, the same tests were conducted under similar conditions and static load. The results are shown in Fig.12. All these results were evaluated statistically (Fig.13). There are 4 diagrams, 9 graphs and 5 references, 4 of which are Soviet and 1 American.

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SOV/128-59-10-14/24

18(5)

AUTHORS: Afanas'yev, N.V., and Kosyakov, V.F., Engineers

TITLE: Fluidity Tests of Sand Mixes

PERIODICAL: Liteynoye proizvodstvo, 1959, Nr 10, pp 37-40 (USSR)

ABSTRACT: The authors present a new method of fluidity tests on sand mixes. At first, the following known methods were tried out: 1) The AFA method (Ditert); 2) the SFL method ("Soyuzformolit'ye" by P.P. Berg, O.V. Kolacheva and K.V. Krylova); 3) the methods of S.A. Skomorokhov and L.N. Cherkasov; 4) the method of Keyl. The tests showed that the AFA and SFL methods do not enable determination of the regular change of fluidity which depends on a change of the mix composition. For this reason the authors present a new method which is called the method of the BITM (Bryanskiy institut transportnogo mashinostroyeniya (Bryansk Institute of Transport Machine Construction)) (Authors Certification Nr 115309). This method is based on the brittleness of the tested mixes. Figs. 9 and 10 show the testing device. 160 g of the mixes which are to be tested are put into the cylinder with a small section. The cylinder with a

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KOSYAKOV, V. F.

"Casting Bronze Linings in Steel Bearing Shells."
Liteynoe Delo, 1939, no. 1, pp. 41-42.

K. describes a method of simultaneously casting bronze in 20 bearings, resulting in economy of labour and reduction in the loss of metal and in moulding area.

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