"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, L.A.

Parasites of the larch spinner (Dendrolimus sibiricus Tschtv.) in the Soviet Far East and adjacent countries. Soob.DVFAN SSSR no.12: 119-123 '60. (MIRA 13:11)

1. Dal'nevostochnyy filial imeni V.L.Komarova Sibirskogo otdeleniya AN SSSR.

(Silkworms--Diseases and pests)

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IVLIYEV, L. A., CAND BIO SCI, "SIBERIAN SILKWORM IN THE FORESTS OF THE FAR EAST." VLADIVOSTOK, 1961. (ACAD SCI USSR. SIBERIAN DEPT. JOINT ~~SCI~~ Acad COUNCIL FOR BIO SCIENCES). (KL-DV, 11-61, 214).

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, L.A.; SINCHILINA, Ye.M.

Tussock moth and its effect on the fluctuation in the abundance of the tent caterpillar in the Amur Valley. Vop. ekol. 7:65-67 '62. (MIRA 16:5)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR, Vladivostok.

(Amur Valley--Tussock moth)
(Amur Valley--Tent caterpillars)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, L.A.; KONONOV, D.G.

Some mass pests of conifer seeds in Kamchatka. Soob. DVFAN SSSR no. 15:83-88 '62. (MIRA 17:9)

1. Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya AN SSSR.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

KOSTIN, V.D.; KRYLOV, A.V.; IVLIYEV, L.A.

Leaf beetle Galeruca tanaceti L., a potential potato pest in Kamchatka. Soob. LVFAN SSSR no.17:97-99 '63.

(MIRA 17:9)

1. Dal'nevostochnyy filial im. V.L. Komarova Sibirskogo otdeleniya AN SSSR.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, L.A.; KONONOV, D.G.

Longicorn beetles of Kamchatka. Soob. DVFAN SSSR no.19: 117-123 '63. (MIRA 17:9)

1. Biologo-pochvennyy institut dal'nevostochnogo filiala Sibirskogo otdeleniya AN SSSR.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

KAPIANSKIY, Ya., kand.tekhn.nauk; IVLIYEV, M., inzh.

New instrument for determining tension in reinforcements. Stroitel' no.6:31 Je '58. (MIRA 11:7)
(Prestressed concrete--Testing)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

S/193/60/000/012/018/018
A004/A001

AUTHOR: Ivliyev, M. I.

TITLE: The Non-Ferrous Metallurgy of Bulgaria

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No.12, pp.68-69

TEXT: The author presents a report on the development of the non-ferrous metallurgy in the People's Republic of Bulgaria and states that in 1959 the output of lead concentrate amounted to 115,000 tons, that of zinc concentrate to 107,000 tons, while the copper-concentrate output was 55,000 tons. After the effectiveness of geological prospecting was increased under the second Five-Year Plan, rich deposits of lead, zinc and copper ores and other minerals were discovered. At present, the prospected lead and zinc ore deposits amount to more than 100 million tons. The Rodop Mining Fields are the main raw material base for the non-ferrous metallurgy. There are 21 mines in the Madan Rayon. Moreover, important deposits of lead and zinc ores were discovered in the Nedelin, Madzharov and Ustrem Rayons and at the northern slopes of the Rodop mountains. Semi-metallic ores were discovered in the Osogov mountains. The author emphasizes the importance of capital investments which were made during the two Five-Year Plans and which accelerated

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the expansion of geological prospecting. Thus a total of 2.5 billion levs were invested from 1948 - 1957, out of which 1.6 billion levs were spent on prospecting and 234 million levs on machinery and installations. During this time 1.14 million m of drilling and 660,000 running meters of mine sinking was effected. The ratio of capital investment to increase in industrial reserves is estimated at 100 to 20,000 levs. Based on these prospecting results and with the aid of the Soviet Union, mines totaling an annually output of 1.7 million tons of lead and zinc ore were constructed or rebuilt, while the concentration plants at present have a total capacity of 3,500 tons of ore per day. During the last years an important increase in prospected copper deposits could be noticed. Geological prospecting concentrated mainly on the deposits in the Panagyur, Burgas and Brachan rayons. A new big copper-ore deposit, "Medet", was discovered and is being worked in open-pit mining, warranting an output of 20,000 tons of electrolytic copper annually. Non-ferrous metallurgical plants were built with the aid of the Soviet Union. In 1959 Bulgaria produced 33,000 tons of copper and 9,000 tons of zinc. Under the present Five-Year Plan, the erection of the big lead and zinc plant at Plovdiv was started, having a projected capacity of 40,000 tons of lead and 30,000 tons of zinc per year. In 1960 the copper works of Zlatitsa-Pirdon will have a capacity of 15,000 tons of electrolytic copper per year. The development of the Bulgarian

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A004/A001

The Non-Ferrous Metallurgy of Bulgaria

non-ferrous industry can be seen from table 1, while table 2 shows the total increase in heavy-industry products.

Table 1

1) kind of product; 2) lead and zinc ores; 3) copper ores; 4) lead concentrate (70%); 5) zinc concentrate (52%); 6) copper concentrate (20%), lead. (all figures in 1,000 tons)

Таблица 1
В тыс. т

1) Вид продукции	1939 г.	1948 г.	1952 г.	1957 г.	1959 г.
2) Свинцово-цинковые руды	24	162	723	1053	2783
3) Медные руды	4	47	147	502	913
4) Свинцовый концентрат (70%)	3	17	58	90	115
5) Цинковый концентрат (52%)	2	10	43	87	107
6) Медный концентрат (20%)	—	2,7	9	36	55
7) Свинец	0	2	2,7	10	33

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A004/A001

The Non-Ferrous Metallurgy of Bulgaria

Table 2
1) total increase of heavy-industry products (in%); 2) electric power; 3) fuel; 4) ferrous metallurgy; 5) non-ferrous metallurgy; 6) mechanical engineering and metal-working; 7) chemical industry.

Таблица 2
В процентах

	1939 г.	1948 г.	1958 г.	1959 г.
1) Общий объем продукции тяжелой промышленности	100	100	100	100
в том числе:				
2) электроэнергетическая	8,2	5,0	5,2	5,8
3) топливная	20,3	11,4	6,8	6,8
4) черная металлургия	1,0	0,2	2,4	3,4
5) цветная металлургия	1,3	6,4	10,1	11,4
6) машиностроение и металлообработка	10,5	19,9	30,1	30,2
7) химическая промышленность	5,3	2,3	6,2	7,9

There are 2 tables and 3 non-Soviet references.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, N. I.

IVLIYEV, N. I.: - "Oaks for artificial plantin on the chernozem soils of the Trans-Volga portion of Kuybyshev Oblast". Kuybyshev, 1955. Min Higher Education USSR, Khar'kov Order of Labor Red Banner Agricultural Inst imeni V. V. Dokuchayev. (Dissertation for the Degree of Candidate of Agricultural Sciences)

SO: Knizhnaya Letopis', No. 40, 1 Oct 55

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

K

COUNTRY : USSR
CATEGORY : Forestry. Forest Cultures.

ABS. JOUR. : RZhBiol., No. 4, 1959, No. 14506

AUTHOR : Ivligov, N.I.
INST. : Kuybyshevsk Agric. Inst.
TITLE : Experiments with Oak Cultures in Mixed Plantations in the Trans-Volga Area.

ORIG. PUB. : Izv. Kuybyshevsk. s.-kh. in-ta, 1958, 13, 215-252

ABSTRACT : Investigations were conducted in 1952 - 1954 on plantations of oak mixed with the common elm, English elm, common ash, holly maple, warty birch, common pine, and Norway maple 50 - 55 years old and found on ordinary heavy, clayey chernozem soils in Kuybyshevskaya Oblast. It was determined that it was more advantageous to cultivate the oak in mixed plantations, but under these conditions the holly maple must be regarded as a basic companion

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, N.K.

127-58-6-13/25

AUTHORS: Tsoy, N.D., and Ivliyev, N.K., Mining Engineers

TITLE: Mass Blasting of a Block in the Bystrushinskiy Mine (Massovyy vzryv bloka na Bystrushinskom rudnike)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 6, pp 48-52 (USSR)

ABSTRACT: This is a detailed description of the mass blasting of a block in the Bystrushino mine. The authors present calculations for using explosives, electric current and also give the exact timing of all preparatory operations. There are 3 figures and 2 tables.

AVAILABLE: Library of Congress

Card 1/1 1. Explosives-Applications

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

S/196/62/000/010/029/035
E194/E155

AUTHORS: Platonov, G.F., and Ivliyev, N.K.

TITLE: Operating experience with induction equipment for heating containers at the Leninogorskiy Polimetallicheskiy Kombinat (Leninogorsk Polymetal Combine)

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.10, 1962, 15, abstract 10 K80. (Metallurg. i khim. prom-st' Kazakhstana. Nauchno-tekhn. sb. (Metallurgical and Chemical Industry of Kazakhstan. Scientific-technical Symposium), no.4, 1961, 31-36).

TEXT: An induction method of heating steel containers for the transport of concentrate was proposed at the Leninogorsk Polymetal Combine. In 1960 Kazgiprotsvetmet designed a three-section pilot plant of this kind. Each section of the equipment consists of a concrete cone which houses the inductor winding. Fire-resisting concrete and a number of guides of non-magnetic steel are used to protect the inductor against mechanical damage. The gap between the equipment walls and the container is 55 mm;

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the container rests on the spring mounted heat-resistant base of the equipment. A sump and discharge tube are provided for drainage of condensate and sludge. Remote control equipment and thermal pick-ups are provided. The reactive power is compensated by static capacitors. The power demand of the equipment is 26-30 kW, the voltage 348-360 V, the operating current 124-150 A and the power factor 0.6. Heat-resistant concrete was found unsuitable for insulating the inductors of this type of installation because the concrete was hygroscopic and there were heavy leakage currents exceeding the operating current. Therefore, the inductor was made of hollow conductor wound on a laminated plastic frame. In the period December-February the heating time for the containers was 8-12 minutes, and in the period March-November 3-5 minutes. The corresponding electric power consumptions are 3-4 kWh and 1.5-2 kWh per container, which is much more economic than the hot air, hot water or steam systems hitherto used.

[Abstractor's note: Complete translation.]

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, N. N.

"Study of the Synthesis of Triazines from Urea." Min. Higher Education USSR, Gor'kiy Polytechnical Inst imeni A. A. Zhdanov, Gor'kiy, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 22, 1955, pp 93-105

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

KUPLYAYEV, I.M. (Leningrad, B. Pushkarskaya ul. d. 30., kv.27); IVLIYEV, E.N. (Gor'kiy, ul. Radistov, d.6, kv.6); CHERNOV, Ya.G. (Gor'kiy, ul. Radistov, d. 6, kv.6); PISAREV, A.L. (Moskva, Lyubertsy, 4. pos. Vsesoyuznogo nauchno-issledovatel'skogo ugol'nogo instituta, d.5, kv.5); GASPAROV, R.G. (Moskva, I-51, 2-y Kolobovskiy pereulok d.9/2 kv.18); POPOV, B.I. (Irkutsk, 13, Depovskiy pereulok, d.83, kv.2); PIONTKOVSKIY, B.A. (Moskva, Ye-77, Sredne-Pervomayskaya ul. d.13, kv.4); VEDENEYEV, G.M. (Moskva, I-110, B. Spasskaya, d. 15/17, kv.29); KRECHER, V.G. (Uzhgorod, Zakarpatskaya obl., ul. Kosmodem'yanskoy, d.4, kv.69); SIDORENKO, A.P. (Leningrad, ul. Frunze, d.15, kv.38); SPIRIDONOV, A.V. (Leningrad, ul. Frunze, d.15, kv.38); SEREDA, P.A. (Moskva); IL'IN, V.F.; PEL'TSMAN, L.N.; DANILEVICH, A.I. (Khar'kov, Plekhanovskiy pereulok, d.9a, kv.2); KHIMENKO, L.T. (Khar'kov, Plekhanovskiy pereulok, d.92, kv.2); LYKOV, M.V. (Moskva, Leninskiy prospekt, d.55); RYBAL'CHENKO, G.F. (Moskva, Leninskiy prospekt, d.55); BOYKO, V.F. (Leningrad, M-142, ul. Tipanova, d.3, kv.130); KITAYEV, G.I. (Chelyabinsk, Smolenskaya ul. d.4); SKLYAROV, A.Ye. (Novocherkassk, Rostovskoy obl. pos. Oktyabr'skiy, Gvardeyskaya ul. d.30, kv.29)

Discoveries and inventions. Prom. energ. 19 no.11:57-58 N '64. (MIRA 18:1)

1. Zavod "Amurkabel'", Khabarovsk (for Il'in, Pel'tsman).

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

BANDURIN, A.(g.Izhevsk); CHEREZOV, V. (g.Izhevsk); NIKITIN, V.(g.Yaroslavl'); YURTSEV, V.; PERMYAKOV, M.V., inzh.; KOKORIN, V.K., inzh.; TASHKINOV, V., inzh.-konstruktor; IVLIYEV, V., tekhnik-stroitel' (pos.Ashukino Moskovskoy obl.); DUBROVIN, B., g.Votkinsk); GUSAROV, L. (g.Aleksin); SHCHETININ, N.

Advertising board. Izobr. i rats. no. 5:60-61 My '61. (MIRA 14:5)

1. Glavnyy inzh.fabriki "Iskra", g. Blagoveshchensk, Amurskaya obl. (for Yurtsev). 2. Zavod imeni Sergo Ordzhonikidze, konstruktorskoye byuro, g. Chelyabinsk (for Permyakov, Kokorin). 3. Zamestitel' glavnogo inzh.Zyryanovskogo svitsovogo kombinata (for Shchetinin).
(Technological innovations)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, V.G., inzhener

The finishing plant in the Gori Cotton Combine begins to function. Tekst.prom.15 no.10:19-23 O'55. (MLRA 8:12)
(Gori--Cotton finishing)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, V.G., inzhener.

Planning an automatic factory. Tekst. prom. 17 no.5:30-35 My '57.
(Textile industry--Automation) (MLRA 10:6)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, V. D.

LATYSHEV, G. D.

PHASE I BOOK EXPLOITATION SOV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurasulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. K. Lobanov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

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Transactions of the Tashkent (Cont.) SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURPOSE : The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

SADOV, F.I., doktor tekhn. nauk, prof.; CHAPLINA, N.D.; IVLIYEV, V.G.; LUR'YE, A.L.; ABEZGUZ, A.Ya.; DYNIN, F.M.; ESKIN, I.L.; VASIL'YEV, G.V.; GAL'PERIN, M.M., retsenzent; IL'INSKIY, N.S., retsenzent; MORYGANOV, P.V., doktor tekhn. nauk, prof., retsenzent; MOSHKIN, V.I., retsenzent; RUDAKOV, D.N., retsenzent; TSVETKOV, M.N., retsenzent; DUKHOVNYY, F.N., red.

[Design and planning of finishing factories for the cotton industry] Proektirovanie otdelochnykh fabrik khlopchato-bumazhnoi promyshlennosti. Moskva, Legkaia industriia, 1965. 355 p. (MIRA 18:7)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, V.T.

Work carried out by the laboratory of the Leningrad plant of dental materials. Med.prom. 11 no.4:49 Ap '57. (MLRA 10:6)
(DENTAL MATERIALS)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEV, Yakov Dmitriyevich; SHEKHURIN, Diodor Yefremovich; VERSHILOVA, N.A., red.; GVIRTS, V.L., tekhn.red.

[Organizing technical information and propaganda in research institutes] Organizatsiia tekhnicheskoi informatsii i propagandy v nauchno-issledovatel'skikh institutakh. Pod.red.N.A.Vershilovoi. Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1956. 42 p. (Bibliotechka rabotnikov po tekhnicheskoi informatsii i ratsionalizatsii, no.8) (MIRA 11:1)

(Technology--Information services)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEVA, A., kand.ekon.nauk

Characteristics of structural cost calculations for passenger and freight-passenger river craft. Rech.transp. 19 no.1:31-33 Ja '60. (MIRA 13:5)

(Shipbuilding--Costs)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEVA, A., kand.ekonom.nauk; POSTNOV, A., kand.tekhn.nauk; TAMBERG, D., kand.tekhn.nauk

Technical and economic grounds for new roader types. Rech. transp. 21 no.12:23-24 D '62. (MIRA 15:12)
(Merchant ships—Cost of operation)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

YERPICHEV, M.I., inzh.; IVLIYEVA, A.M., kand.ekonomicheskikh nauk

Comparative analysis of the economic indices of ships with various power plants. Trudy LIVT no.3:3-22 '60. (MIRA 15:3)
(Inland water transportation--Accounting)
(Marine engines)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEVA, A.M., kand.ekon.nauk; ALAKIN, P.M., inzh.; BULOV, A.A., inzh.

Economic basis of prospective types of cargo carrying vessels for the Northern Steamship Company. Trudy LIVT no.65:26-35 '64.
(MIRA 18:10)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

SOV/123-59-15-59751

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, pp 121 - 122 (USSR)

AUTHORS: Borin, F.A., Ivliyeva, M.P.

TITLE: On the Recrystallization of Aluminum and Its Alloys With Zirconium and Magnesium

PERIODICAL: Sb. nauchn. tr. Nauchn.-tekhn. o-vo tsvetn. metallurgii, Mosk. in-t tsvetn. met. i zolota, 1958, Nr 29, pp 125 - 134

ABSTRACT: Al of 99.99% and 99.97% purity was taken for the investigations as well as alloys of Al with 1 and 3% of Mg, and Al with 0.01, 0.1, 1 and 2% of Zr. The specimens were deformed by 4 - 92% and annealed at temperatures from 100 - 600°C. Microsections were made of the specimens on which, after etching, the average size of grain was determined. The crystal size of Al of 99.97% purity recrystallizing at a temperature of 600°C after the critical deformation amounted to 1,600 μ, that of Al of 99.99% purity to 2,400 μ. The critical degree of deformation for all alloys was 4%. Admixtures of Zr and Mg also contributed the more to a reduction in the size of the recrystallized grain, the greater the quantities of

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SOV/123-59-15-59751

On the Recrystallization of Aluminum and Its Alloys With Zirconium and Magnesium

admixtures. The effects of Zr are greater than those of Mg. The behavior of alloys with 1% Zr content is abnormal, as they posses a second maximum on their recrystallization curves at a deformation of 92%. Very small admixtures make the temperature of recrystallization increase considerably. The deformation of Al practically has no effect on the electric conductivity, which shows that in pure Al the phenomenon of regression takes place during the process of deformation or, at normal temperatures, after deformation. 8 figures, 3 references.

P.S.M.

Card 2/2

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 46036-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AT6022711 SOURCE CODE: UR/2848/66/000/041/0227/0231

AUTHORS: Krestovnikov, A. N.; Glazov, V. M.; Ivliyeva, V. I.; Makhmudova, N. M. 61 B+1

ORG: Moscow Institute of Steel and Alloys, Department for Physico-chemical Investigation of Manufacturing Processes of Semiconductor Materials and Pure Metals (Moskovskiy institut stali i splavov, Kafedra fiziko-khimicheskikh issledovaniy protsessov proizvodstva poluprovodnikovykh materialov i chistykh metallov)

TITLE: Investigation of electrical conductivity of alloys belonging to the system Sb_2Te_3 - Sb_2S_3 in the solid and liquid state

SOURCE: Moscow. Institut stali i splavov. Sbornik, no. 41, 1966. Fizicheskaya khimiya metallurgicheskikh protsessov i sistem (Physical chemistry of metallurgical processes and systems), 227-231

TOPIC TAGS: antimony compound, antimony sulfide, tellurium containing alloy, electric conductivity, semiconductor conductivity, alloy phase diagram

ABSTRACT: The electrical conductivity of the system Sb_2Te_3 - Sb_2S_3 was studied as a function of composition and temperature. The investigation supplements the results of N. Kh. Abrikosov and V. I. Ivliyeva /No further reference given. Note of abstracter/. The experimental procedure is described by D. A. Petrov and V. M. Glazov (Zavodskaya laboratoriya, 1958, No. 1). The experimental results are presented graphically (see Fig. 1). It was found that all alloys of this system are semiconductors in the liquid state. From the appearance of the conductivity-temperature-composition curves, it is

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L 46036-66

ACC NR: AT6022711

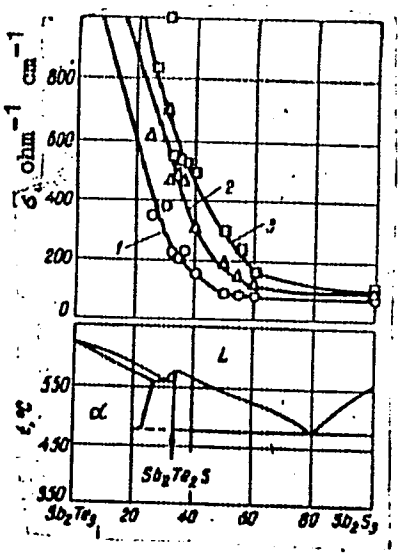

Fig. 1. Comparison of the concentration dependence of electrical conductivity of melts of the system Sb_2Te_3 - Sb_2S_3 with the phase diagram of this system. (The data for the construction of the phase diagram were taken from the work of N. Kh. Abrikosov and V. I. Ivliyeva). 1 - 600C, 2 - 700C, 3 - 800C.

concluded that, contrary to the assertion of N. Kh. Abrikosov and V. I. Ivliyeva, no ternary compound exists in this system. Orig. art. has: 3 graphs.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 001

Card 2/2 YIIT

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

69403

SOV/137-59-4-8720

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 4, p 197 (USSR)

18.1200A

AUTHORS: Zakharov, M.V., Ivliyeva, V.I.

TITLE: Durable and Temporary Hardness of Some Metals and Chemical Compounds at Corresponding Temperatures

PERIODICAL: Sb. nauchn. tr. Nauchno-tekhn. o-vo tsvetn. metallurgii, Mosk. in-t tsvetn. met. i zolota, 1958, Nr 29, pp 84 - 92

ABSTRACT: The authors determined durable and temporary (hot) hardness of cubic (Pb, Al, Cu, Ni) and hexagonal (Cd, Zn, Mg, Ti) metals and of some chemical compounds on Cu and Al bases at corresponding temperatures (0.4 - 0.8 $T_{m.p}$). It was established that in cubic metals durable and temporary hardness raised with higher melting point. Having the same refractoriness, the metals of hexagonal system possess higher durable and temporary hardness; they are, however, characterized by more intensive softenability, proportional to raising temperatures. In most metals the rate of hardness decrease diminishes when approaching the solidus. Chemical compounds of high hardness and brittleness at room temperatures are softening by tens and hundreds of times at

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69403

SOV/137-59-4-8720

Durable and Temporary Hardness of Some Metals and Chemical Compounds at Corresponding Temperatures

temperatures of the order of magnitude of 0.8 $T_{m.p.}$ No definite correlation between hardness and refractoriness of chemical compounds at corresponding temperatures was observed. Durable hardness of chemical compounds depends in a high degree on the structure of the crystalline lattice. Usually the hardness of the compounds increases with a more complex composition and structure of its crystalline lattice. Very high durable hardness at 0.8 $T_{m.p}$ was revealed in complex-structure chemical compounds such as Al_2CuMg and Al_5FeSi.

E.K.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVLIYEVA, Ye. A.

KOROL'KOV, I.I.; KRUPNOVA, A.V.; GARMANOVA, Ye.N.; IVLIYEVA, Ye.A.

Effect of the diffusion of sugar on its yield in percolation hydrolysis of wood. Gidroliz. i lesokhim. prom. 11 no.2:1-5 '58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.
(Sugar) (Hydrolysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; IVLIYEVA, Ye.A.; NYABOVICH, V.I.; PAPASHNIKOV, L.M.

Kinetic method of evaluating systems of percolation hydrolysis of sawdust. Gidroliz. i lesokhim. prom. 11 no.6:3-6 '58. (MIRA 11:10)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.
(Hydrolysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

SUMETSKIY, I.Sh.; IVNENKO, A.Ya.

Automatic regulator for pumping stations. Gor. zhur no.4:75-76 Ap '63. (MIRA 16:4)

(Pumping stations) (Automatic control)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVNITSKAYA, A.; BLAGOSKLONOV, K.N., kand.biol.nauk

Incident in a traveling bee yard. IUn. nat. no.8:22-23 Ag '58. (MIRA 11:9)

(Birds, Injurious and beneficial)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

KAYNARSKIY, I.S.; DEGTYAREVA, E.V.; PINDRIK, B. Ye.; KUKHTENKO, V.A.; KULAKOV, N.I.; BEL'CHENKO, B.I.; IVNITSKAYA, N.S.; SMORODA, I.M.; SHAROV, M.F.; KOZIN, L.M.; KVASHA, A.S.; PELESHCHUK, M.I.; PRYAKHIN, L.G.; LEVINA, L.I.; DANILOV, V.I.; DIDENKO, S.Yu. PROTSENKO, G.A.

Reducing dust formation from dinas bricks and dinas mortar. Ogneupory 29 no.3:109-112 '64 (MIRA 17:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (for Kaynarskiy, Degtyareva, Pindrik, Kukhtenko). 2. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy koksokhimicheskoy promyshlennosti (for Kulakov, Bel'chenko, Ivnitskaya). 3. Vsesoyuznyy trest po stroitel'stvu i montazhu koksokhimicheskikh zavodov (for Peleshchuk, Pryakhin, Levina). 4. Ukrainskiy nauchno-issledovatel'skiy institut gigiyeny truda i professional'nykh zabolevaniy (for Danilov, Didenko, Protsenko).

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

SMIRNOV, A.I.; IVNITSKAYA, R.B.; ZALAVINA, T.P.

Experimental data on the possibility of the chemical precipitation of phosphates from sea water. Trudy GIGKHS no.7:289-302 '62. (MIRA 16:5)

(Phosphate) (Sea water)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVNITSKAYA, Tamara Vasil'yevna

[Publications of documents on the history of the working class of the U.S.S.R., 1918-1920] Publikatsii dokumentov po istorii rabochego klassa SSSR, 1918-1920 gg. Moskva, Glav. arkhiv. upravlenie SSSR, 1960. 71 p. (MIRA 14:7)

(Labor and laboring classes)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVNITSKAYA, V.Ye.

How various methods of cultivating alfalfa sod affect microbiological processes in light-colored Chestnut soils of Azerbaijan. Trudy Inst. mikrobiol. no.7:275-284 '60. (MIRA 14:4)

1. Kafedra fiziologii rasteniy Azerbaydzhanskogo sel'skokhozyaystvennogo instituta.
(ALFALFA) (TILLAGE) (AZERBAIJAN--SOIL MICRO-ORGANISMS)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

NIKBERG, I.M., inzh.; IVNITSKIY, B.Ya., inzh.

Wear-resistant materials for parts of blast furnace charging equipment. Stal' 23 no.3:205-206 Mr '63. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii proizvodstva i truda chernoy metallurgii.
(Blast furnaces--Equipment and supplies)
(Mechanical wear)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

AMINOVA, R.Kh., kand. ist. nauk; TETENEVA, L.G., kand. ist. nauk; ALIMOV, I.A.; DMITRIYEV, G.L.; DZHAMALOV, O.B., doktor ekon. nauk, redaktor; DZHURAYEVA, T., kand. ist. nauk, red.; ATFENYUK, S.Ya., red.; DANILOV, V.P., glav. red.; BELOV, G.A., red.; GRIGOR'YAN, L.L., red.; IBRAGIMOV, Z.I., red.; IVNITSKIY, N.A., red.; IL'YASOV, S.I., red.; KAKABAYEV, S.D., red.; KAMENSKAYA, N.V., red.; KRAYEV, M.A., red.; KULIYEV, O.K., red.; MAKHARADZE, M.B., red.; OBICHKIN, G.D., red.; PLESHAKOV, S.T., red.; RADZHABOV, Z.I., red.; SELEZNEV, M.S., red.; TURSUNBAYEV, A.B., red.; FEDOROV, A.G., red.; SHEPELEVA, T.V., red.; FATLAKH, B., red.; MASHARIPOVA, D., red.; BULATOVA, R., red.; GOR'KOVAYA, Z.P., tekhn. red.; KARABAYEVA, Kh.U., tekhn. red.

[Socialist reorganization of agriculture in Uzbekistan] Sotsialisticheskoe pereustroistvo sel'skogo khoziaistva v Uzbekistane, 1917-1926 gg. Pod red. O.B.Dzhamalova. Tashkent, Izd-vo Akad. nauk UzSSR. Vol.1. 1962. 792 p. (MIRA 16:5)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut istorii i arkheologii.

(Uzbekistan--Agriculture)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

SHAROVA, P.N.; IVNITSKIY, N.A., otv. red.; KOVALENKO, D.A., red.izd-va; PRUSAKOVA, T.A., tekhn. red.

[Collectivization of agriculture in the Central Chernozem Region, 1928-1932] Kollektivizatsiia sel'skogo khoziaistva v TSentral'no-chernozemnoi oblasti, 1928-1932 gg. Moskva, Izd-vo Akad. nauk SSSR, 1963. 285 p. (MIRA 16:4)
(Central Chernozem Region--Collective farms)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVNITSKIY, T. G., Candidate Phys-Math Sci (diss) -- "Projective geometry in the works of K. A. Andreyev, A. K. Vlasov, and N. A. Glagolev". Khar'kov, 1959. 12 pp (Min Higher Educ Ukr SSR, Khar'kov Order of Labor Red Banner State U im A. M. Gor'kiy), 150 copies (KL, No 25, 1959, 126)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 13921-66 EWT(d)/T/EWP(1) LIP(c)

ACC NR: AP6001203 SOURCE CODE: UR/0378/65/000/005/0060/0065

52

B

AUTHOR: Ivnitskiy, V. A. (Candidate of Technical Sciences, Consultant)

ORG: TsMIS "Sel 'khoztekhnika," Moscow

TITLE: Asymptotic study of the stationary queue in the case of a generalized input flow

SOURCE: Kibernetika, no. 5, 1965, 60-65

16,44,55

TOPIC TAGS: reliability engineering, automatic control, queuing theory, Markov process, random process

ABSTRACT: The paper investigates a unilinear system of mass servicing with expectation. The single request servicing is a special case of a random quantity with an arbitrary distribution law. Here the input accepts a Markovian flow the parameters λ_i of which depend on the length of the queue i. The rate of servicing also depends on the length of the queue. In the theory of reliability, λ_i corresponds to the intensity of breakdowns and often the actual values of this parameter are quite small. Consequently, using the recurrent method the author derives the asymptotic formulas (for $\lambda_i \longrightarrow 0$) of the stationary distribution of queue lengths assuming a weak input flow. The results may prove very useful in the reliability theory since they permit the incorporation of various kinds of redundancies, and the relationships between the breakdown intensity and load whenever a group of setups is serviced by a single crew. Author expresses sincere gratitude to I. N. Kovalenko, under whose direct supervision the present investigation was conducted. Orig. art. has: 39 formulas.

SUB CODE: 12/ SUBM DATE: 14Nov64/ ORIG REF: 004

UDC: 512.152

Card 1/1

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 06527-67 EWT(d) EWP(1) IJP(c)

ACC NR: AP7000468 SOURCE CODE: UR/0103/66/000/005/0091/0102

AUTHOR: Ivnitskiy, V. A.

24
B

ORG: none

TITLE: Queueing system with an unreliable instrument

SOURCE: Avtomatika i telemekhanika, no. 5, 1966, 91-102

TOPIC TAGS: queueing theory, poisson equation, asymptotic expansion

ABSTRACT: The single-line queueing system analyzed has Poisson flow input and arbitrarily distributed queueing time. The system is liable to failure and may be restored to proper operation while occupied or while idle. An input queue consisting of a finite number of "users" is also analyzed. The generating function of queue length in the case of a finite number of users is described by an asymptotic expansion to series by powers of the small parameter 1/n, where n is considered to be a large number. The author thanks I. N. Kovalenko under whose leadership this work was carried out. Orig. art. has: 35 formulas. [JPRS: 37,380]

SUB CODE: 12 / SUBM DATE: 15 Dec 65 / ORIG REF: 007 / OTH REF: 002

UDC: 519.152

Card 1/1 egk

0923 1173

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

AUTHORS: Afanas'yev, V. D., Candidate of Technical Sciences, Ivobotenko, [illegible]. A., Engineer

105-58-3-3/31

TITLE: Speed Control of a Direct Current Motor When Fed by a Magnetic Amplifier (Regulirovaniye skorosti dvigatelya postoyannogo toka pri pitanii yego ot magnitnogo usilitelya)

PERIODICAL: Elektrichestvo, 1958, Nr 3, pp. 14-19 (USSR)

ABSTRACT: An approximated, yet rather simple computation method is given here. It admits the determination of the mechanical characteristics of the amplifier motor system according to the work characteristic of the amplifier from the catalogue. For the computation of the static characteristics of direct current motors of low output which are fed from the power supply (industrial frequency) over a magnetic amplifier the inductive resistance of the armature can be neglected and substituted by an equivalent effective resistance R_e... (equation (1)). Thus the task consists in finding artificial amplifier characteristics in various load resistances which differ from the nominal ones. For this purpose the conception of the universal characteristic (Ref. 1) is used. The amplifier

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Speed Control of a Direct Current Motor When Fed by a Magnetic Amplifier 105-58-3-3/31

characteristic consists of relative units, i.e. as function of the steering-control current, taking into account the positive feed-back of the amplifier. The experimental- and computed characteristics of the magnetic amplifier PMU-1 given here show that they differ by 10%. Therefore it can be assumed that the computation method given here guarantees sufficient accuracy for practice. The computations for other amplifiers have analogous results. The description of the checking of the possibility of a substitution of the motor load by an equivalent effective resistance by experimental way follows. It is shown that the introduction of only corresponding positive current feed-back is not sufficient in order to obtain fixed mechanical characteristics of the motors. Besides this also the negative voltage feed-back has to be carried out. The experiments showed that in schemes with magnetic amplifiers with internal feed-back it is necessary to use additionally a small winding for the external positive current feed-back; i.e. in such a way that the current feed-back factor is increased by 3-5% and the carrying out of the negative voltage feed-back is thus facilitated. Comprisingly is said that the selection of the amplifier type is very important for securing the demanded

Card 2/3

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

8 (5)

AUTHOR: Ivobotenko, ~~Boris~~ B. A. ~~Alekseyevich~~, Post-graduate Student SOV/161-58-4-12/28

TITLE: Comparative Theoretical Examination of Reaction Motors With Concentrated and Distributed Winding on the Stator (Sravnitel'noye teoreticheskoye issledovaniye shagovykh reaktivnykh elektrodvigateley s sosredotochennymi i raspredelennymi obmotkami na statore)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika, 1958, Nr 4, pp 83-95 (USSR)

ABSTRACT: The following requirements are to be met with by reaction motors working as power engines: An impulse frequency up to 200 per second and more, a reaction of some degrees, a shaft-torque up to 1 mkg and more, as well as the possibility of reversing during work. Of all known designs, the three-stator motor (TSM) meets these demands best. Its advantages and drawbacks are shown here. A reaction motor with distributed multiphase windings on the stator does not show the drawbacks of the TSM and enables a high working speed. The exactness of giving the impulses depends here, however, on the amplitude ratio of the impulses conducted to the winding phases. This

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restriction is eliminated if a split stator winding is used. All conditions for a reaction-field are thus fulfilled. A threephase reaction motor TSM is first examined here, concerning the data characterizing its work. A reaction motor with a split multiphase winding on the stator (RMS) is then examined and compared with the TSM. It is shown that the static synchronizing moment of a real TSM does not reach the maximum value in jumps, but according to a steeply rising curve. The main advantages of the TSM are a great synchronizing moment and therewith the high accuracy of impulse-giving. On both motors - TSM and RMS - equivalent measurements were used here for the examination, and the parameters to be compared were expressed by the reaction a, thus enabling a comparison. The comparison shows that when increasing the number of winding branches on the RMS, and simultaneously reducing the number of poles, the maximum static moment as well as the static and dynamic efficiency factor of the RMS increase, while the time constant of its winding remains practically unchanged, and is smaller by one order of magnitude, compared with the time constant of the stator

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

winding of the TSM. With a predetermined reaction a, this means that it is more advantageous to have an RMS with a smaller number of poles, and to obtain the necessary reaction at the expense of an increase in the number of the parallel branches in the phases. However, the control circuit of the RMS becomes thereby more complicated. The most suitable variant will, therefore, depend on the demands made for each individual case. A comparison further shows that the power consumption of the RMS and the time constant of its winding decreases proportionally, when further reducing the reaction of a two-pole motor at the expense of an increase of the number of winding branches. The use of the RMS is, therefore, of special advantage for a small reaction. It is specially pointed out that it was the purpose of the present paper to determine that the use of distributed windings on the stator constitutes an excellent solution for the production of reaction motors with a high working speed. The results and equations for a split multiphase winding obtained here, can be applied to a case with any other distributed winding. A drawback of motors with distributed windings is the small

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

Comparative Theoretical Examination of Reaction Motors With Concentrated and Distributed Winding on the Stator SOV/161-58-4-12/28

synchronizing moment. There are 3 references, 1 of which is Soviet.

ASSOCIATION: Kafedra elektricheskikh mashin Moskovskogo energeticheskogo instituta (Chair for Electrical Machines at the Moscow Institute of Power Engineering)

SUBMITTED: May 29, 1958

Card 4/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

Vsesoyuznoye ob"yedinennoye soveshchaniye po avtomatizatsii proizvodstvennykh protsessov v mashinostroyenii i avtomatizirovannomu elektroprivodu v promyshlennosti. 3d, Moscow, 1959

Elektroprivod i avtomatizatsiya promyshlennykh ustanovok; trudy soveshchaniya (Electric Drive and Automation in Industrial Systems; Transactions of the Conference) Moscow, Gosenergoizdat, 1960. 470 p. 11,000 copies printed.

General Eds.: I.I. Petrov, A.A. Sirotin, and M.G. Chilikin; Eds.: I.I. Sud, and R.F. Silayev; Tech. Eds.: K.P. Voronin, and G.Ye. Larionov.

PURPOSE: The collection of reports is intended for the scientific and technical personnel of scientific research institutes, plants and schools of higher education.

COVERAGE: The book is a collection of reports submitted by scientific workers at plants, scientific institutes and schools of higher education at the third Joint All-Union Conference on the Automation of Industrial Processes in Machine Building and Automated Electric Drives in Industry held in Moscow on May 12-16, 1959. The Conference was called by the Academy of Sciences USSR, the Gosplan SSSR (State Planning Commission USSR), the GNTK SSSR, the Gosudarstvennyy Komitet po avtomatizatsii i mashinostroyeniyu (State Committee on Automation and Machine Building) and the Natsional'nyy Komitet SSSR po avtomaticheskomu upravleniyu (USSR National Committee on Automatic Controls) and prepared by the Nauchno-tekhnicheskiy komitet po avtomatizirovannomu elektroprivodu (Scientific and Technical Committee on Automated Electric Drives), the MEI (Moscow Institute of Energetics), the VNIIEM, the IAT (Institute of Automation and Telemechanics) of the Academy of Sciences USSR, and the Komissiya po tekhnologii mashinostroyeniya Instituta mashinovedeniya AN SSSR (Commission on the Technology of Machine Building of the Institute of Science of Machines of the Academy of Sciences USSR). It was the purpose of the Editorial Board to arrange the reports in a way which would ensure a relatively systematic presentation of theoretical and practical problems relating to electric drives and automatic controls of industrial mechanisms used in various branches of industry. Basic problems of automated electric drive and their solution are outlined. The book also contains articles on electric machinery and means of automation. Considerable attention is paid to noncontact automatic control systems, including systems with semiconductor devices and magnetic amplifiers, and to computers intended both for the analysis and the synthesis of linear and nonlinear automatic regulation and control systems. Reports already published in journals or official publications have been considerably abbreviated; those which have appeared in volume V of NII EP transactions or in the journal "Elektrichestvo" are marked with an asterisk. No personalities are mentioned. References accompany some of the papers.

PART I. GENERAL PROBLEMS CONCERNING THE THEORY AND PRACTICE OF ELECTRIC DRIVE AND AUTOMATION OF CONTROL

Botvinnik, M.M., Doctor of Technical Sciences, and Z.K. Sazonova, Engineer. Synchronous Induction Machine and Prospects of Its Application* 421

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Konstantinov, V.G., Candidate of Technical Sciences. High-Efficiency Semiconductor Amplifier for the Control of Electric Machine Excitation* 466

IVOBOTENKO, B.A.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOBOTENKO, B.A., inzh.

Step motors. Elektrichestvo no.8:54-61 Ag '60. (MIRA 13:8)

1. Moskovskiy energeticheskiy institut.
(Electric motors) (Automatic control)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOBOTENKO, B.A., inzh.

Choice of the main geometrical dimensions in designing reactive step motors. Vest. elektroprom. 31 no.8:57-62 Ag '60. (MIRA 15:5)
(Electric motors)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

RATMIROV, Valeriy Arkad'yevich; IVOBOTENKO, Boris Aleksayevich; VUL'FSON, I.A., red.; FRIDKIN, L.M., tekhn. red.

[Pulse motors for automatic control systems]Shagovye dvigateli dlia sistem avtomaticheskogo upravleniia. Moskva, Gosenergoizdat, 1962. 125 p. (Biblioteka po avtomatike, no.66) (MIRA 16:1)

(Electric motors)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOBOTENKO, B.A.

Experimental determination of the static synchronizing torque of step-by-step motors. Elektrichestvo no.4:71-73 Ap '62. (MIRA 15:5)

1. Moskovskiy energeticheskiy institut.
(Electric motors)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOBOTENKO, V.A., inzh. (Moskva)

Problem concerning the individual drives of the cages of reduction and gauging pipe-rolling mills. Elektrichestvo no.6:73-76 Je '62. (MIRA 15:6)

(Pipe mills--Electric driving)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

TSATSENKIN, V.K., inzh.; IVOBOTENKO, B.A., inzh.

Dynamics of step-type electric motors. Elektrichestvo no.9:67-72 S '62. (MIRA 15:9)

1. Moskovskiy energeticheskiy institut.
(Electric motors)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOBOTENKO, B.A., inzh.; RUBTSOV, V.P., inzh.

Electromagnetic design of reactive reductor-type stepping motors. Trudy MEI no.38:223-266 '62. (MIRA 17:2)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

RATMIROV, Valeriy Arkad'yevich; IVOBOTENKO, Boris Alekseyevich; TSATSENKIN, Viktor Kirillovich; SADOVSKIY, Lev Aleksandrovich; CHILIKIN, M.G., prof., red.; GERSHENZON, G.S., red.

[Systems with stepping motors] Sistemy s shagovymi dvigateliami. Moskva, Energiia, 1964. 134 p. (Biblioteka po avtomatike, no.110. Elektroprivody s poluprovodnikovym upravleniem) (MIRA 17:11)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

SHPOLYANSKIY, V.A.; CHERNYAGIN, B.M.; IVOBOTENKO, B.A., kand. tekhn. nauk, retsenzent; BARANOVA, Z.S., inzh., red.

[Electrical timing devices] Elektricheskie pribory vremeni. Moskva, Mashinostroenie, 1964. 387 p.
(MIRA 17:11)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 03990-67

ACC NR: AP6012113 (A,N) SOURCE CODE: UR/0413/66/000/007/0027/0027

AUTHORS: Ivobotenko, B. A.; Gertsov, S. M.; Lovenetskiy, Yu. N.; Lutsenko, V. Ye.; Minkin, M. M.

17

ORG: none

TITLE: A multiphase step electric motor. Class 21, No. 180239

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 27

TOPIC TAGS: electric motor, torque

ABSTRACT: This Author Certificate presents a multiphase step electric motor of the induction type with control windings and with permanent excitation magnets located in the stator. The electric motor has a toothed rotor without a winding (see Fig. 1). The design increases the torque in given size motors and simplifies their production. The stator is made with an internal permanent magnet in the form of two symmetrical halves magnetized with opposite polarity. The permanent magnet is enclosed between the halves of the stator.

Card 1/2 UDC: 621.313.13.025.4-133.3

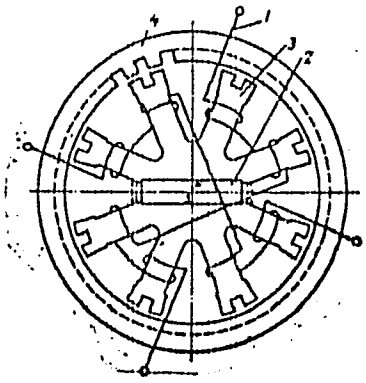
APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 08990-67

ACC NR: AP6012113

Fig. 1. 1 - control windings; 2 - permanent magnet; 3 - stator; 4 - rotor



Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 21Jan65

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 29761-66 EWT(m)/EWP(e)/EWP(k)/EWA(d)/T/EWP(v)/EWP(t)/ETI IJP(c) JD/HM/GD-2

ACC NR: AP6015102 (N) SOURCE CODE: UR/0135/66/000/005/0010/0013

AUTHOR: Ivochkin, I. I. (Engineer)

ORG: MVTU im. N. E. Bauman

23
20
B

TITLE: Mechanical properties of a welded joint of VKS1 high-strength steel working under biaxial tension

18 18 18 18

SOURCE: Svarochnoye proizvodstvo, no. 5, 1966, 10-13

TOPIC TAGS: high strength steel, superstrength steel, steel welding, butt welding, weld structure, weld strength/VKS1 steel

ABSTRACT: Thin-wall pressure vessels welded from high-strength steel sheets (tensile strength 180—200 kg/mm^2) often fail at relatively low stresses. The effect of welding conditions on the mechanical properties of VKS1 steel welds has been investigated. Steel sheets 2.5 mm thick, heat treated to a tensile strength of 200 kg/mm^2, were TIG welded without backing at a speed of 10—48 m/hr, annealed at 940C for 30 min, air cooled, tempered at 240C for 4 hr and subjected to hydrostatic bulging tests. Specimens welded at speeds of 29—48 m/hr had a columnar structure and failed in the weld. Specimens welded at lower speeds cracked mostly across the weld owing to the structural inhomogeneity of the joint. The highest strength, though much lower than that of the base metal, was obtained at a welding speed of 19—28 m/hr. Further experiments showed that the mechanical properties of the welds made at a speed of 29—48 m/hr can be greatly increased by suppressing the formation

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 39761-66

ACC NR: AP6015102

of a columnar structure by adding a mixture of iron and ferrotitanium powders to the bath behind the arc. The cold powder cools the tail portion of the bath so that it solidifies simultaneously along the entire volume, while the modifying action of titanium produces a fine-grained weld structure. The method makes it possible to increase the mechanical properties of welded joints made at high welding speeds and to weld circumferential and longitudinal welds under identical conditions at high speeds. Orig. art. has: 5 figures. [MS]

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 004/ ATD PRESS: 4259

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 3853-66 EWP(e)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(h)/EWA(c)

ACC NR: AP5026516 JD/HW/WB SOURCE CODE: UR/0286/65/000/019/0048/0048

INVENTOR: Gavrilyuk, V. S.; Ivochkin, I. I.

ORG: none

TITLE: Method of introduction of a powdered modifier. Class 21, No. 175158

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 48

TOPIC TAGS: metal, metal welding, weld modifier, weld defect, welding technology, weld hot cracking

ABSTRACT: An Author Certificate has been issued for a method for the introduction of a powdered modifier into the solidifying portion of a weld. To improve the weld resistance to hot cracking, prevent oxidation of the modifier, and ensure a uniform distribution of the modifier throughout the weld, the modifier is introduced by a jet of shielding gas. [AZ]

SUB CODE: 13/ SUBM DATE: 10Mar64/ ATD PRESS: 4152

Card 1/1 UDC: 621.791.856.046

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 11651-66 EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c)

ACC NR: AP6000613 MJW/JD/HM/WB SOURCE CODE: UR/0135/65/000/012/0001/0003

AUTHOR: Ivochkin, I. I. 44,55

ORG: MVTU im. N. E. Baumana 44,55

38
36
B

TITLE: Suppressing formation of columnar crystals by forced solidification of melting pool

SOURCE: Svarochnoye proizvodstvo, no. 12, 1965, 1-3

TOPIC TAGS: steel, superstrength steel, steel welding, steel weld, weld structure, columnar structure, columnar structure elimination, structure refining/VKS 1 steel

ABSTRACT: At high welding speeds, weld metal solidifies in the form of columnar crystals growing almost perpendicularly to the center line of the weld and forming a seam which is usually the weakest part of the weld. The formation of the columnar structure can be at least partially suppressed by lowering the rate of welding speed. This, however, increases the width and grain size of the heat-affected zone, i.e., shifts the weakest part of the joint from the weld to the heat-affected zone. Hydrostatic bulging tests with TIG-welded, 2.5-mm thick, VKS-1 steel sheet specimens showed, for instance, that specimens welded at a rate of 48 m/hr fail by longitudinal cracks in the weld with a thickness reduction of less than 2%. Specimens welded at a rate of 17 m/hr failed by cracking across the weld with a thickness reduction of 7—8%. The deterioration of the heat-affected zone and the formation of columnar

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L 11651-66

ACC NR: AP6000613

structure in the weld can be effectively suppressed by welding at high rates with continuous feeding of steel powder into the rear part of the melting pool. This promotes a simultaneous solidification of the whole volume of the pool, prevents growth of columnar crystals, and reduces the overheating of the heat-affected zone. In the burst test, VKS-1 steel specimens welded at a rate of 29 m/hr, with or without powder feeding, failed at respective reductions of 9—13 and 5—6%, compared to 10.5—15.5% for base sheet. The "freezing" of the melting pool appears to have some additional beneficial effects, such as lowering weld susceptibility to hot cracking and to general, intergranular, and knifelike corrosion, as was shown by preliminary experiments. It is possible that feeding metal powder into the ingot mold during pouring would reduce the zone of columnar structure in ingots. Orig. art. has: 5 figures and 1 table. [DV]

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 4175

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

PAVLOV, Aleksandr Ivanovich; AL'SHITS, I.M., kand. khim. nauk, retsenzent; KUZNETSOV, P.I., inzh.; IVOCHKIN, V.F., nauchn. red.; KUSKOVA, A.I., red.

[Bonded ship structures] Kleenye sudovye konstruktsii. Leningrad, Sudostroenie, 1965. 282 p. (MIRA 18:12)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

KATK ', Pavel Pavlovich; KOSTROV, Aleksey Ivanovich; FAYNBERG, Yefim Davidovich [deceased]; AVRUKH, E.G., inzh. retsenzent; IVOCHKIN, V.F., inzh., retsenzent; SMIRNOV, V.I., nauchn. red.; SHAKHNOVA, V.M., red.

[Motorboats and launches made of plastics] Shliupki i katera iz plastmass. Leningrad, Izd-vo "Sudostroenie," 1964. 263 p. (MIRA 17:6)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

VESHEV, A. V.; IVOCHKIN, V. G.

Electric profiling with a "Zemlia-2" induction-method apparatus. Razved. i okh. nedr 28 no.6:27-34 Je '62. (MIRA 15:10)

1. Leningradskiy gosudarstvennyy universitet.

(Electromagnetic prospecting—Equipment and supplies)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

SHAUB, Yuriy Borisovich; IVOCHKIN, V.G., nauchn. red.; IONINA, I.N., ved. red.; DEM'YANENKO, V.I., tekhn. red.

[Principles of aerial electric prospecting with the use of a rotating magnetic field] Osnovy aeroelektrorazvedki metodom vrashchaiushchegosia magnitnogo polia. Leningrad, Gostoptekhizdat, 1963. 227 p. (MIRA 17:1)
(Electric prospecting)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOCHKIN, V.G.

Electromagnetic profiling during geological mapping. Vest. LGU 19 no.24:69-77 '64 (MIRA 18:1)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVCCS, P.

Once again about traffic regulation on Stalin Avenue. p. 13, (AUTO MOTOR, Budapest, Hungary), Vol. 8, No. 3, Feb. 1955.

SO: Monthly List of East European Accessions, (EEAI), LC, Vol. L, No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOCS, B.

Automobile business and automobile sports. p. 15., (AUTO MOTOR, Budapest, Hungary), Vol. 8, No. 3, Feb. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOCS, B.

The position of automobile transportation. p. 3
A factory of autobuses. p. 5
Vol. 9, No. 19 Oct. 1956.
AUTO_MOTOR Budapest, Hungary

SOURCE: East European List, (EEAL) Library of Congress Vol. 6, No. 1
January 1956.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVACS, B.

Conference on automobile traffic of countries with planned economics held in Sofia.

p. 737 (Hungary, Kozponti Szallitasi Tenacs. Kozlekedesi Kozlony. Vol. 13, no. 42, Oct. 1957. Budapest, Hungary)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOCS, B.

On a study tour of automobile transportation in the Soviet Union. p. 93.

KOZLEKEDESTUDOMANYI SZEMLE. (Kozlekedes-es Kozlekedesepitestudomanyi Egyesulet) Budapest, Hungary, Vol. 9, No. 3, Mar. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959.
UNCL

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

L 32132-66 EWP(e)/EWP(t)/ETI IJP(c) JD/WE

ACC NR: AP6023549 SOURCE CODE: HU/0014/65/098/012/0563/0568

31
B

AUTHOR: Ivocs, Laszlo (Graduate metallurgical engineer)

ORG: Ozd Metallurgical Works, Ozd (Ozdi Kohaszati Uzemek)

TITLE: Durability problems of Siemens pit furnaces from the point of view of the refractory-materials industry [This paper was presented at the Refractory Materials Industry Conference held in Miscolc-Tapolcan on 14 May 1965]

SOURCE: Kohaszati lapok, v. 98, no. 12, 1965, 563-568

TOPIC TAGS: refractory, silicate, quartz, metallurgic furnace

ABSTRACT: The refractory-material components employed in the three Siemens pit furnaces operating at Ozd Metallurgical Works contribute significantly to the durability and performance of these furnaces. The operating parameters of these furnaces were described in detail and the behavior of the refractory materials during their service lives was discussed. It was found that only silicate bricks perform satisfactorily and that substitution by quartzite bricks adversely affects the lifetime of the refractory layer. Orig. art. has: 6 figures and 6 tables. [JPRS]

SUB CODE: 13, 11 / SUBM DATE: none / ORIG REF: 002 / SOV REF: 001
OTH REF: 004

Card 1/1 BLG UDC: 669.183.21:666.042:666.76
0915 1512

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

FILIPPOV, M.P.; IVOLGA, N.F.

Spectrophotometric determination of diphenylolpropane in phenol. Zhur. VKHO 9 no. 2:234-235 '64. (MIRA 17:9)

1. Lisichanskiy filial Gosudarstvennogo instituta azotnoy promyshlennosti.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOLGIN, A.

Simplicity and modesty beautify the sportsman.
Kryl.rod. 13 no.6:11 Je '62. (MIRA 19:1)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOLGIN, A., polkovnik.

Outstanding Russian military scientist; on the 155th anniversary of B.S. IAkobi's birth. Voen.znan. 31 no.9:31 S '56. (MLRA 9:11)
(IAkobi, Boris Semenovich, 1801-1874)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOLGIN, A., polkovnik.

"Position engineering operations" by S. Gerbanovskii. Reviewed by A. Ivolgin. Voen. vest. 37 no.1:93-95 Ja '58. (MIRA 11:2)
(Fortification, Field)
(Gerbanovskii, S.)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOLGIN, A., polkovnik; SHEVCHUK, M., gvardii podpolkovnik.

On the 40th anniversary of the Great October Socialist Revolution: Some problems of military engineering in the Lenin documents. Voen.-inzh. zhur. 101 no.4:2-8 Ap '57. (MLRA 10:6)
(Military engineering) (Lenin, Vladimir Il'ich, 1870-1924)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOLGIN, A., polkovnik v otstavke

Terrestrial and solar explosions. Starsh.-serzh. no.8:33 Ag '61. (MIRA 14:10)

(Explosions) (Sun)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOLGIN, A.

City of aeronautical fame. Kryl. rod. 15 no.1:6 Ja '64.
(MIRA 17:2)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

IVOLGIN, A.

Birth of the engine. Kryl. rod. 15 no.7:29 Jl '64.

(MIRA 18:1)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

VINOKUROV, A.; IVOLGIN, A.; KUZ'MIN, N.; DITRIKH, N. (Kaluga)

Facts, events, people. Kryl. rod. 15 no.8:20-21 Ag '64.
(MIRA 18:1)

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IVOLGIN, Aleksandr Ivanovich, polkovnik v otstavke; KPOV, Boris Aleksandrovich, inzh.-polkovnik zapasa, laureat Stalinskoy premii; ROSSAL, N.A., polkovnik, red.; VOLKOVA, V.Ye., tekhn.red.

[Mine-laying and mine-field clearance] Minirovanie i razminirovanie. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 93 p. (MIRA 14:1)

(Mines, Military)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320011-8

SHEVCHUK, Mikhail Konstantinovich, gvardii podpolkovnik; KATUHKIN, Yevgeniy Afanas'yevich, kand. tekhn. nauk, inzh.-podpolkovnik; IVOLGIN, A.I., polkovnik, red.; SOKOLOVA, G.F., tekhn. red.

[How to overcome obstacles erected by the engineers] Kak preodolevat' inzhenernye zagrazhdeniia. Moskva, Voen.izd-vo M-va obor. SSSR, 1961 182 p. (MIRA 15:2)
(Mines, Military) (Obstacles (Military science))

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SYTSKO, P.A.; IVOLGIN, A.I., inzh.

New developments in railroad transportation services for industrial enterprises. Zhel.dor.transp. 44 no.5:18-22 My '62. (MIRA 15:5)

1. Rektor Belorusskogo instituta inzhenerov zheleznodorozhnogo transporta (for Sytsko). 2. Sekretar' Gomel'skogo oblastnogo komiteta Kommunisticheskoy partii Belorussii (for Ivolgin).
(White Russia--Railroads--Freight)

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S/078/60/005/012/015/016
B017/B064

AUTHORS: Ivanov-Emin, B. N., Nisel'son, L. A., Ivolgina, A. T.

TITLE: Study of the Solubility of Scandium Hydroxide in Sodium Hydroxide Solutions

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 12, pp. 2841-2842

TEXT: The solubility of scandium hydroxide in sodium hydroxide solutions containing 1 - 19 moles of NaOH/l was studied at 25°C. Maximum solubility of $Sc(OH)_3$ in an 11.7-mole solution of sodium hydroxide is 5.0 g/l. The existence of peaks on the solubility curve indicates the formation of sodium hydroxo scandiate. The solid phase up to the peak is crystalline scandium hydroxide, and the solid phase behind the peak is a hydrate of sodium hexahydroxo scandiate $Na_3[Sc(OH)_6] \cdot 2H_2O$. N. A. Tananayev is mentioned. There are 1 figure, 1 table, and 9 references: 4 Soviet, 2 British, 2 German, and 1 Czechoslovakian.

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IVOLIN, Nikolay Mikhaylovich; PRYANIKOV, Ye.G., retsenzent; ALEKSEYEV, V.I., red.izd-va; RIDNAYA, I.V., tekhn. red.

[Experience in combining professions on Ob' River motorships] Opyt sovmeshcheniia professii na teplokhodakh Obi. Moskva, Izd-vo "Rechnoi transport," 1962. 33 p. (MIRA 16:2)
(Ob' River--Inland water transportation--Employees)

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