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807
ELECTRONOGRAPHIC INVESTIGATION OF OXIDE FILMS FORMED ON LIQUID ALUMINUM AND ITS ALLOYS. M. V. Maltsev, Yu. D. Chistyakov, and M. I. Tsypin (Moscow Inst. of Non-Ferrous Metals and Gold). Izvest. Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk [illegible] (In Russian)

[illegible]

Al-Mg, Al-Zn, Al-Mn, Al-Si, Al-Ti, and some ternary commercial Al alloys containing Be, Li, Mg, Ce and Pr. Nichrome rings were used to skim the films from the surface of the molten bath of Al and its alloys at 640, 670, 680, 690, 700, 800, 900, 1000, and 1100°C. It was found that oxide films formed during concentrations of [illegible] chemically active metals (Li, Be, Mg, Ti, and Ce) had a [illegible] phase structure, and depending on the nature of the oxides, the film of the base alloy became either stronger or weaker, thus improving or reducing the anticorrosion resistance of the alloy. (R.V.J.)

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Maltsev, M V

Neutralizing the Deleterious Effect of Lead on Copper and Brasses. M. V. Maltsev, V. M. Teplinskaya, and M. V. Simonova. (Tsvet. Metally, 1956, (7), 68-72; Referat. Zhur. Met., 1957, (8), 277).—[In Russian]. Means of neutralizing the harmful effect of Pb on Cu, α-brasses, and (α + β)-brasses were studied by introducing small quantities (0.05-0.3%) of Ce, Cr, and Ca in the form of master alloys. The microstructures of the alloys revealed that the introduction of the addn. had altered the chem. character of the grain-boundary region and had caused a change in the order of crystn. and distribution of the structural constituents. In place of the low-m.p. Pb, new precipitates appeared at the grain boundaries, accompanied by a sharp rise in the mech. properties and workability of the alloys at both room and elevated temp. The optimum quantities of Ce, Cr, and Ca were determined. As a result of prodn.-scale tests, it was proved possible to eliminate the harmful effect of Pb by neutralizing addn. under works conditions.

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1-4E2c

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Analysis, Phase Transitions

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26132

Author : V.M. Glazov, M.V. Mal'tsev, Yu.D. Chistyakov.
Title : Study of Graph of State of Aluminum-Tantalum Alloys.

Orig Pub : Izv. AN SSSR,Otd. tekhn. n., 1956, No 4, 131-136

Abstract : The aluminum corner of the state graph of Al - Ta was investigated by the microstructural, macrostructural, thermal, and x-ray refraction methods. Alloys containing from 0.01 to 5.1% by weight of Ta were homogenized at 500° during a week's time and, after that, were annealed in steps at temperatures from 200° to 630° 40 hours at each temperature. The dependence of the number of grains per sq. cm of the surface of a macroscopic slide, of the microscopic hardness of crystals of the solid solution and the macroscopic hardness on the alloy composition were studied. A heat effect answering a non-variant transformation was noted at 669°. According to the x-ray refraction analysis, the maximum solubility of Ta in Al changes from 0.24% at 630° to 0.15% at 20°. The outline of the aluminum side of the state graph of Ta - Al is proposed, the graph containing the peritectic reaction $TaAl_3 + L \rightarrow \alpha$ at 668° and a steeply falling curve of maximum solubility of Ta in Al.

Card : 1/1

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VYSOTSKAYA, Veronika Nikolayevna; CHIPIZHENKO, Andrey Ivanovich; MAL'TSEV, M.V., kandidat tekhnicheskikh nauk, retsenzent; SHPICHINETSKIY, Ye.S., kandidat tekhnicheskikh nauk, retsenzent; KREYNES, S.A., inzhener, retsenzent; FOMIN, N.V., redaktor; KAMAYEVA, O.M., redaktor izdatel'stva; KARASEV, A.I., tekhnicheskiy redaktor

[Physical metallurgy] Metallovedenie. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 360 p. (MLRA 10:1)
(Physical metallurgy)

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MAL'TSEV, M.V.

AKIMOVA, K.I.; BAZHENOV, M.F.; BAKHVALOV, G.T.; BEZKLUBENKO, N.P.; BERMAN, S.I.; BOGDANOV, Ye.S.; BODYAKO, M.N.; BOYKO, B.B.; VINOGRADOV, S.V.; GAGEN-TORN, K.V.; GLEK, T.P.; GOREV, K.V.; GRADUSOV, P.I.; GUSHCHINA, T.N.; YEMEL'YANOV, A.K.; YESIKOV, M.P.; ZDZYARSKIY, A.V.; ZAKHAROV, M.V.; ZAKHAROVA, M.I.: KARCHEVSKIY, V.A.; KOMAROV, A.M.; KORZHENKO, O.T.; LAYNER, V.I.; MAL'TSEV, M.V.; MILLER, L.Ye.; MILOVANOV, A.I.; MIRONOV, S.S.; NIKONOROVA, N.A.; OL'KHOV, N.P.: OSIPOVA, T.V.; OSOKIN, N.Ye.; PERLIN, I.L.; PLAKSIN, I.N.: PROKOF'YEV, A.D.; RUMYANTSEV, M.V.; SEVERDENKO, V.P.; SEREDIN, P.I.; SMIRYAGIN, A.P.; SPASSKIY, A.G.; TITOV, P.S.; TURKOVSKAYA, A.V.; SHAKHNAZAROV, A.K.; SHPICHINETSKIY, Ye.S.; YURKSHTOVICH, N.A.; YUSHKOV, A.V.; YANUSHEVICH, L.V.

Sergei Ivanovich Gubkin. TSvet.met. 28 no.6:60-61 N-D '55. (MIRA 10:11)
(Gubkin, Sergei Ivanovich, 1898-1955)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.V., kandidat tekhnicheskikh nauk; TEPLINSKAYA, V.M.; STEPANOVA, M.V.

Investigating the effect of bismuth and lead on the properties of copper and α-brass. Issl. splav. tsvet. met. no.1:130-134 '55. (MLRA 9:10)

(Copper-zinc-bismuth alloys)

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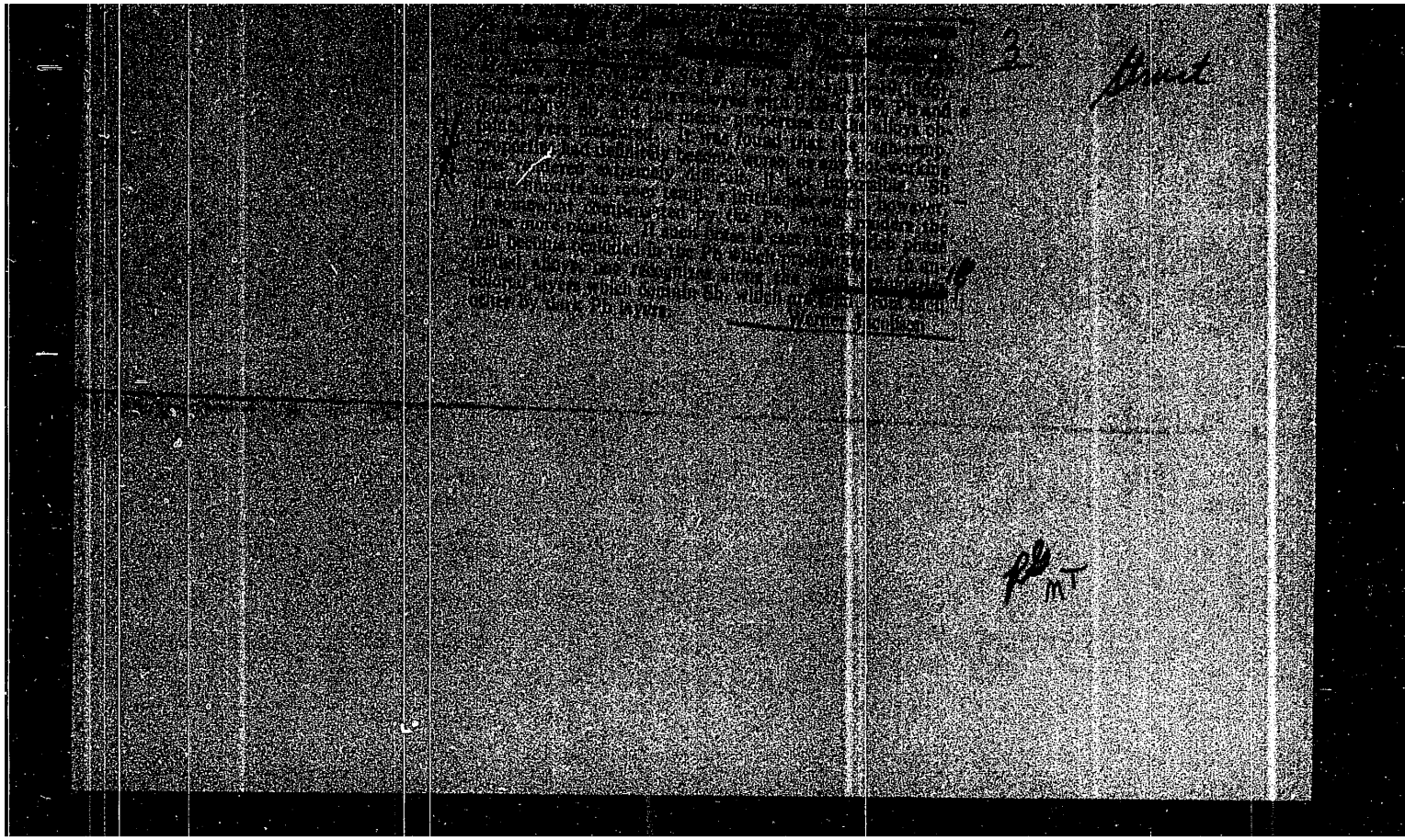

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with. In regard to the latter, Guinier and Preston's work on aluminium-copper alloys is mentioned (as one of the few acknowledgements to the West, though apparently it was based on previous Russian observations). An interesting quotation is included here, from a book by Petrow criticizing certain, quite incompletely quoted, American ideas on the mechanism of precipitation in aluminium-copper solid solutions. (That is it, for this elementary book, quite incongruously advanced, is a small point.)

That the standard of Russian crystallography and metallography is certainly high can be seen by reference to the work of Kurdjumow and Fedorow and to much present-day work, and it would be wrong, of course, to allow deficiencies of any one text-book to reflect upon it. But such statements as (p. 195) "the nature of martensite was explained finally (!) in 1927 by Seljakow, Kurdjumow, and Gudsow" make strange reading, and one wonders why we still find martensite such a problem.

Readers will detect the existence of conflicting historical claim, for nearly the entire scientific subject is presented as having originated, or first been thought of, in Russia. One reads, for example, about the "Wulf-Bragg" law, evolved there, and that the idea of the Coolidge tube was really due to Lebedjew (although Coolidge's name is added in a footnote by the German editor, who occasionally seems conscious of a certain one-sidedness and makes some amends); numerous other instances could be cited. A bibliography, taken from Glocker's book "Materialprüfung mit Röntgenstrahlen" (1949), has been appended by the German editor, although, unfortunately, this, too, is out of date and unrepresentative.

H. J. GOLDSCHMIDT.

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4 E2 C

Modification of the structure of metallic alloys. M. V. [illegible] Moscow, Gosudarst. Izdatel. [illegible] Moscow, Gosudarst. Izdatel. [illegible] Mei, 1956.

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Von M. W. Malzev

The section on radiographic testing is fair, though slight, and reflects the wide industrial application this is put to in the Soviet Union, as in the West; a useful table is given, showing types of practical casting faults and their X-ray appearance. Microradiography is also briefly touched on.

Under techniques of structure analysis, single-crystal methods are treated cursorily, the powder method more thoroughly. In point of detail, a number of curious statements are noted, such as giving (p. 130) "optimum tube currents" for use with different materials and anodes (e.g. 1[illegible] mamp. for Cu specimen and Cu target, 13 mamp. for Fe specimen and Fe target), which are meaningless in the given context; or, in connection with lattice-spacing determinations, specifying that the final spacing value should be derived by averaging those measured on all the powder lines, "omitting those, which are obviously wrong . . ." Extrapolation methods are here not mentioned. Again, in this connection, "ordinary" powder cameras are, surprisingly, said to be unable to give accurate lattice dimensions, and for this purpose a second photograph is required, taken in a special precision camera which, in the next section, turns out to be a focusing back-reflection one, giving high angles only; two pictures thus are advocated as necessary for each specimen, though it cannot be believed that this is general Russian practice. Although it is known, from other Russian literature, that interplanar spacing indexes are well established, such important matters (especially in a book with this purpose) do not find a place, and altogether such omissions contrast with a tendency to repeat and often over-explain some minor details, e.g. in elementary geometry.

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Röntgenographie der Metalle. Von M. W. Malzew. Übersetzung aus dem Russischen. 20·6 × 14·0 cm. Pp. 240, with 132 illustrations. 1956. Berlin: VEB Verlag Technik. (DM 22.—.)

This translation from the Russian, published in the Eastern Zone of Germany, is a short introductory text-book on X-ray metallography, dealing with the theory and practice of X-ray physics, and with crystallography, and its application to metallic structures. It is intended as a monograph for students of mining, metallurgy, and engineering.

The first chapters describe the fundamental properties of X-rays, X-ray spectroscopy, X-ray equipment, and non-destructive testing methods; the second half of the volume is devoted to structure analysis and its results in the field of metals. The fundamentals are, on the whole, adequately presented, although one feels that a disproportionately large amount of space is often given to what seems to be some incidental or trivial aspect, at the cost of omitting really important matters; furthermore, some very controversial statements are found, and it must be said that there certainly exist a number of Western publications, for the equivalent (teaching) purpose, which are of considerably greater merit. Moreover the hope of gaining an insight into any specifically Russian approaches to the subject was on the whole disappointed, except for some occasional points of interest; for instance, the illustration of typical Russian commercial X-ray sets, and the development of a "tube-camera", which is a focusing powder-camera-cum-rotating-anode tube built as an integral unit.

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USSR/ Chemistry - Physical chemistry

Card 1/1 Pub. 22 - 38/56

Authors : Mal'tsev, M. V.; Chistyakov, Yu. D.; Tsypin, M. I.

Title : Structure of oxide films on liquid aluminum and its alloys

Periodical : Dok. AN SSSR 99/5, 813-814, Dec 11, 1954

Abstract : The structure of oxide films forming at different temperatures on melted Al, its binary Al - Mg, Al - Cu, Al - Zn, Al - Fe alloys and certain more complex industrial alloys, e.g., AMg, AMg5, AMg7, AMz, duralumin and certain cast alloys, was investigated. Results show that an oxide film formed on pure Al at a temperature of 690 - 700° has an amorphous structure; at 700 - 710° the amorphous state changes into crystalline. The oxide film, formed on the surface of melted binary Al-alloys, was found to consist of pure gamma-Al_2O_3. The tendency of oxide layers to form thin Al-dendrites, with a specific orientation, is explained by the crystallo-chemical and the dimensional characteristics of the crystalline lattice of the Al and its oxide. Five references: 3-USSR and 2-USA (1934-1953). Illustrations.

Institution: The M. I. Kalinin Institute of Non-Ferrous Metals and Gold, Moscow

Presented by: Academician A. A. Bochvar, June 18, 1954

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MAL'TSEV, M.V.

MAL'TSEV, M.V., kand.tekhn.nauk; MURINA, N.V., inzhener; ROGEL'BERG, L.N., inzh.

Modification of the structure of aluminum bronze. TSvet.met. 27 no.2:60-66 Mr-Ap '54. (MIRA 10:10)

1. Mintsvetmetzoloto.

(Aluminum bronze)

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MAL'TSEV, M. V.

"Modification of the Structure of Metals and Alloys." Dr Tech Sci, Chair of Metal Studies, Moscow Inst of Nonferrous Metals and Gold imeni M. I. Kalinin, Min Higher Education USSR, Moscow, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

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Rentgenografiya metallov

AID 172 - I

Master of Phys.-Math. Sci.
A. A. Rusakov; Prof. Dr. Eng.
Sci. B. M. Rovinovskiy; and
Prof. Dr. Eng. Sci.
V. I. Iveronova.

Text Data

Coverage: The textbook contains general information on the physical nature and properties of X-rays. The X-ray tubes and apparatuses of Soviet production are described in details (diagrams, drawings, photos and tables). The application of various methods of X-ray analysis is outlined for the crystalline structure of metals and alloys and for determination of their defects.

The book may be of interest because of its specific information on Soviet products and methods of their application.

Purpose: A textbook approved by the Ministry of Higher Education for mining-metallurgical technical schools not specializing in metallography and for the students of colleges of machine-building.

Facilities: The work of various scientist is mentioned, begining with Popov and Lebedev up to G. S. Zhdanov, B. M. Rovinskiy, A. K. Trapeznikova, and others.

No. of Russian and Slavic References: 66 (1929-51)

Available: Library of Congress.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.V.

PHASE I TREASURE ISLAND BIBLIOGRAPHIC REPORT AID 172 - I

BOOK

Call No.: TN690.M26

Author: MAL'TSEV, M. V.

Full Title: X-RAY PHOTOGRAPHY OF METALS

Transliterated Title: Rentgenografiya metallov

Publishing Data

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of Literature on Ferrous and Nonferrous Metallurgy

Date: 1952 No. pp: 256 No. of copies: 10,000

Editorial Staff

Editor: Yezdokova, M. L.

Editor-in-Chief: Prof. Dr. Eng. Sci. Umanskiy, Ya. S.

Tech. Ed.: None

Appraisers: Corr. Member, Academy of Sciences, S. T. Konobeyevskiy; Prof. Dr. Eng. Sci. M. I. Zakharova; Prof. Dr. Eng. Sci. G. S. Zhdanov; Prof. Dr. Eng. Sci. B. E. Volovik (deceased); Prof. Dr. Eng. Sci. D. B. Gogoberidze; Assist. Prof. G. F. Kosolapov;

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

M

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Investigation of the Form of Solubility Curves of Metallic Solid Solutions. M. V. Mal'tsev (*Sbornik Nauch. Trudov Moskov. Inst. Tsvet. Metallov Zolota*, **1940**, (8), 67–78; *Khim. Referat. Zhur.*, 1941, **4**, (3), 18; *C. Abs.*, 1943, **37**, 4665).—[In Russian.] Cf. *Metallurg*, **1939**, (2), 26; *Met. Abs.*, 1940, **7**, 436. The object of the experiments was to determine the applicability of the Schröder–Le Chatelier equation: $\ln x = -(A/T) + C$ (x being the atomic concentration of the solution saturated at T° abs. and A and C constants), to the solubility curves of some metals in solid copper. The relation between $\ln x$ and $1/T$ for the systems copper–silver, copper–antimony, copper–tin, copper–cobalt, copper–aluminium, copper–iron, copper–zinc, copper–silicon, and copper–cadmium, is well represented by straight lines. Deviations are observed mainly at lower temperatures, at which the equilibrium is attained with difficulty. M. proposes a new form of the equilibrium equation which takes into consideration the heat of solution, θ. If $\theta = \theta_0 - \alpha T$, the differential form of the solubility curves becomes: $\alpha \ln x \, \alpha T = (\theta_0 - \alpha T)/RT^2$. By integration, $\ln x = -(A/T) + R \ln T + C$. Mathematical interpretation of this equation indicates complete accord of the form of the curve corresponding to the equation with the solubility curves obtained experimentally.

COMMON ELEMENTS

MATERIALS INDEX

OPEN

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

E-2

AUTHOR INDEX

1ST AND 2ND LETTER

3RD AND 4TH LETTER

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Investigation of solubility curves in metallic solid solutions. M. V. Mal'tsev. *Metallurg* **14**, No. 2, 26-30 (1939); cf. *C. A.* **33**, 4178[9].—Exptl. soly. curves in the Cu-P, Cu-Sn, Cu-Cd, Al-Mg and Al-Si systems conform more closely to the equation $\ln x = -A/T + B \ln T + C$ than to $\ln x = -A/T + B$. The 1st equation assumes that the heat of soln. depends upon temp., while the 2nd assumes that it is independent of temp.

H. W. Rathmann

COMMON ELEMENTS

OPEN

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

The application of the van't Hoff equation to equilibrium in binary copper alloys. M. V. Mal'tsev. *Metallurg* 13, No. 3, 15-19(1938). The solid soln. curves in binary alloys of Cu with Ag, Be, Sn, P, Sb, Co, Cd, Fe, Cr, In, Zn or Si conform to the equation $\ln x = Q/RT + c$ where x is the mole fraction of solute and Q the heat of soln.

H. W. Rathmann

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MAL'TSEV, Mikhail Petrovich; PETROV, T.K., red.

[Beech growing] Razvedenie buka. Moskva, Izd-vo "Lesnaia promyshlennost'," 1964. 138 p. (MIRA 17:7)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.P., kandidat sel'skokhozyaystvennykh nauk.

Establishing white mulberry plantations by seeding. Agrobiologiia no.1: 134-136 Ja-F '57. (MLRA 10:4)

1. Severo-Kavkazskaya lesnaya opytnaya stantsiya, g. Maykop. (Mulberry)

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USSR / Forest Science. Biology and Typology of Trees. K-2

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 77483

Author : Malitsov, M. P.
Inst : Not given
Title : On the Growing Together of Root Systems of Tree Species in Plantings

Orig Pub : Nauchn.-tekhn. sb. tr. po les. kh-vu Sev. Kavkaza, 1956, vyp. 2, 156-160

Abstract : The growing together of root systems in group plantings of the white mulberry tree, false acacia, honey locust and beech was established by the North-Caucasus Forest Experiment Station. In the white mulberry tree, the growing-together begins after two years in the root collar, then spreads into the roots and terminates in the fourth year. The number of interlocked specimens fluctuates from 2 to 6. The growth energy of the weakly-developed

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USSR/Forestry - Forest Cultivation.

K-5

Abs Jour : Ref Zhur - Biol., No 9, 1958, 39103

Author : Mal'tsev, M.P.
Inst : -
Title : Plantation of Eastern Beech and of Caucasian Fir in the Krasnodar Kray Region.

Orig Pub : Nauchno-tekhn. sb. tr. po lesn. kh-vu Sev. Kavkaza, vyp. 2. 1956, 36-50.

Abstract : Beech and fir plantations in Krasnodarsk region perform water protective, water regulating and mountain defensive functions.
As a result of unsatisfactory natural reforestation, forest cultivation is particularly important here in the mountains.
Evaluation indexes of Eastern beech and Caucasian firs planted on uniformly and on partly cultivated soil are given in this study.

Card 1/2

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KLOPOV, A.A., MAL'TSEV, M.P.

Colutea Arboresiens

Use of the shrub Colutea arboresiens in shelterbelts. Les. Khoz. No. 1, 1952

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED

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MAL'TSEV, M.N., kand.tekhn.nauk; SHPAKOVSKIY, I.N., kand.geograf.nauk

A new low-pressure hydrogen generator for use in expeditions. Inform. biul. Sov. antark. eksp. no.20:29-32 '60. (MIRA 13:9)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. (Hydrogen) (Antarctic regions--Gas producers)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.N., starshiy inzhener; KOZAK, N.G.

Growing oleasters from local seeds. Put' i put.khoz. 4 no. 5:40 My '60. (MIRA 13:11)

1. Nachal'nik opytno-obsledovatel'skoy stantsii, g.Akmolinsk (for Kozak).
(Oleaster) (Railroads--Snow protection and removal)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, Mikhail Mitrofanovich, general-mayor, Geroy Sotsialisticheskogo Truda; KURCHIN, Grigoriy Iosifovich; SOKOLOV V.D., podpolkovnik, red.

[First Soviet and first combat order] Pervyi sovetskii, pervyi boevoi. Moskva, Voenizdat, 1965. 198 p. (MIRA 18:12)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.L.; TAUBMAN, Ye.I.

Determining the size of the drop of the atomized product in spray drying in the manufacture of powdered vegetables. Kons. i ov.prom. 18 no.3:23-24 Mr '63. (MIRA 16:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti.

(Vegetables--Drying)

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MAL'TSEV, M.L.; TAUBMAN, Ye.I.; SHMUKLER, A.S.

Operation conditions of the spray dryer in the processing of powdered vegetables. Kons.i ov.prom. 17 no.5:22-24 My '62. (MIRA 15:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti. (Vegetables--Drying)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

TAUBMAN, Ye.I.; MAL'TSEV, M.L.

Selecting the optimum parameters of spray drying processes in the production of powdered dried vegetables. Izv.vys.ucheb.zav.; pishch. tekh. no.3:106-108 '62. (MIRA 15:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti.

(Vegetables--Drying)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

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KLEVITSKIY, Z.S.; KAFENGAUZ, B.M.; MAL'TSEV, M.L.

Scale formation and pressure conditions in tubular heat exchangers. Kons. i ov. prom. 16 no.11:11-12 N '61. (MIRA 14:11)

1. Proyektno-konstruktorskiy institut avtomatizatsii proizvodstvennykh protsessov i pishchevoy promyshlennosti (for Klevitskiy, Kafengauz). 2. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti (for Mal'tsev).
(Heat exchangers)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.L.; LYASHCH, D.Yu.

Testing a new vacuum evaporating assembly. Kons.i ov.prom. 15 no.11: 8-11 N '60. (MIRA 13:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut konservnoy promyshlennosti. (Dzhankoy--Evaporating appliances)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.I.; KATKOV, V.M.; ACHILOV, R.

Results of testing some repellents under natural conditions in Turkmenistan. Med. paraz. i paraz. bol. 33 no.5:613-614 S-O '64. (MIRA 18:4)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

CHUGUNOV, Yu.D.; FLINT, V.Ye.; MAL'TSEV, M.I.; KATKOV, V.M.; SIDOROV, N.F.

Experiment in mapping the habitat of the greater gerbil within the foci of cutaneous leishmaniasis in southern Turkmenistan. Vop.kraev.paraz.Turk.SSR 3:157-160 '62. (MIRA 16:4)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamaleya, Moskva i Okruzhnoy gospital' pogranichnykh voysk Turkmenskogo okruga.

(TURKMENISTAN--GERBILS AS CARRIERS OF DISEASE)
(TURKMENISTAN--DELHI BOIL)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

CHUGUNOV, Yu.D., SAF'YANOVA, V.M.; KUDRYASHOVA, N.I.; FLINT, V.Ye.; RYZHKOV, M.V.; MAL'TSEV, M.I.

Testing the effect of a mixture of automobile exhaust gases and insecticide dust for the formation of a protective zone in a focus of cutaneous leishmaniasis. Vop.kraev.paraz. Turk.SSR 3:153-156 '62. (MIRA 16:4)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamaleya, Moskva, i Okruzhnoy gospital' pogranichnykh voysk Turkmenskogo okruga.
(SAND FLIES--EXTERMINATION) (GERBILS--EXTERMINATION)

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S/048/63/027/001/001/043
B163/B180

New data on spectroscopic analysis ...

simultaneously instead of the usual method which requires separate determination of Si in an arc discharge. The spectrum of a specimen sampled by electric discharge can usually be recorded without heating the transfer products, but the intensity ratios may vary with time. Sampling by electric spark treatment can be further improved by using single discharge pulses, which helps to keep the composition of the transfer products constant and exclude the effect of other components. The circuit diagram is given, for an electric spark sampler without vibrational mechanism, in which the sampling electrode moves along the surface, and the discharge is initiated by a periodically discharging capacitor in a spark circuit. This paper was presented at the 14th Conference on Spectroscopy in Gor'kiy, July 5-12, 1961. There are 3 figures.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

S/048/63/027/001/001/043
B163/B180

AUTHORS: Baskov, V. S., Berger, S. I., Mal'tsev, M. G., Palladin, M. N. and Taganov, K. I.

TITLE: New data on spectroscopic analysis with preliminary material transfer by contact-electric-spark treatment

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27, no. 1, 1963, 2-3

TEXT: The absolute sensitivity of the spectroscopic analysis of metals and alloys can be increased by a preliminary spark treatment, in some cases due to selective transfer of the components. It is shown how the intensity of the Mg lines in spheroidal-graphite cast iron and Pb lines in the alloy "Al'kusip" is enhanced. Another way of increasing sensitivity is to activate the sampling process by first depositing a suitable catalyst on the surface of the specimen. For example, if Ti alloys are activated in a cadmium electrode discharge or by immersion in a cadmium chloride solution, the spectrum intensity increases 4 to 5 times. The spectra of small Si, Mn, and Fe impurities can then be recorded

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B019/B067

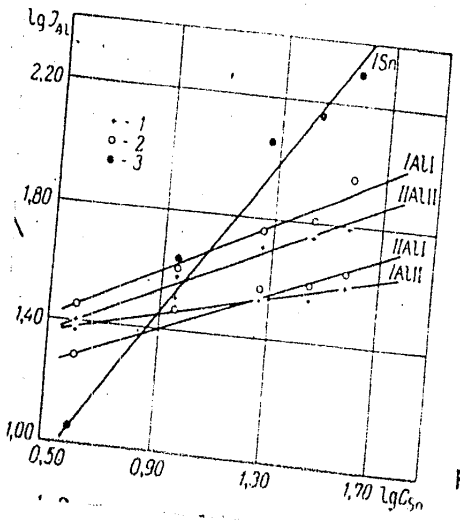

Fig. 1

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Some Characteristics of the Spectrum Analysis of a Binary Al-Sn Alloy With Contact-spark Selection of the Probe

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the Al spark lines does not depend on the Sn concentration in the alloy. The further investigations show that the amount of Al in the substance transported by the discharge increases with decreasing Sn content in the alloy. This is explained by the different melting points of the alloys concerned. Similar phenomena were observed in other alloys in the eutectic range. The diagram in Fig. 2 shows the logarithm of the intensity of the Al spectral lines as a function of the logarithm of the Al concentration in the alloy. Also these functions are straight lines. The dependence of the intensities described here was not observed in commercial alloys. This effect must, however, be considered in the development of new methods of spectrum analysis. There are 2 figures, 2 tables, and 8 references: 6 Soviet, 1 US, and 1 British.

SUBMITTED: October 29, 1959

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

S/170/60/003/008/017/019/XX
B019/B067

AUTHOR: Mal'tsev, M. G.

TITLE: Some Characteristics of the Spectrum Analysis of a Binary Al-Sn Alloy With Contact-spark Selection of the Probe

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 8, pp. 92 - 95

TEXT: As had been shown earlier, the influence of "third" components, e.g. of the structure of the metal to be analyzed and the mass of the sample, can be eliminated by contact-spark selection of the probe. For Al-Sn alloys, this could be done only by special selection conditions of the probe. The samples had a diameter of 18-20 mm, and were 80-100 mm long. The five samples investigated contained 96%, 91%, 82%, 73%, and 63% Al, respectively. The investigations were made on the following spectral lines: Al I 2660.39 A, Al I 2652.49 A, Al I 3050.08 A, Al II 2816 A, and Sn I 3009.15 A. Fig. 1 graphically shows the dependence of the absolute intensity of the arc- and spark lines of Al, and of the arc lines of Sn. In the ordinary spectrum analysis of the binary Al-Sn system, the intensity of

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Ural'skoye soveshchaniye po spektrosk

Materialy 2 Ural'skogo soveshchaniya po spektroskopii, Sverdlovsk, 1958 g. (Materials of the Second Urals Conference on Spectroscopy, Held in Sverdlovsk, 1958) Sverdlovsk, Metallurgizdat, 1959. 206 p. Errata slip inserted. 1,000 copies printed.

Sponsoring Agency: Ural'skiy filial Akademii nauk SSSR. Komissiya po spektroskopii and Ural'skiy dom tekhniki VSNTO.

Eds.: Aron Borisovich Shayevich and Gennadiy Pavlovich Shormyakov; Tech. Ed.: R. M. Matlyuk.

PURPOSE: This collection of articles is intended for spectral analysis laboratory workers at ferrous and nonferrous metallurgical plants, and for laboratory personnel of the metal-working industry, geological and prospecting organizations, and similar scientific research laboratories.

COVERAGE: The collection contains papers read at the Second Urals Conference on the spectral analysis of ferrous and nonferrous metals and alloys, slags, ores, agglomerates, refractories and other materials used in industry. The material of the conference includes articles on the analysis of steels (including the determination of gases), ferroalloys, nonferrous and light metals and alloys, pure noble metals, etc. The present volume is intended to disseminate the latest experience in working with spectral laboratories, and to report on the results of scientific research. The author thanks B. I. Gutkina and Yu. M. Buravlev. Almost all of the articles are accompanied by references.

Zolotukhin, G. Ye. Investigation of the Interaction of the Components of an Alloy on the Degree of Ionization of Atoms 23

Aleskovskiy, Yu. M. Some Distribution Characteristics of Particles in an A-C Arc 29

Zolotukhin, G. Ye. Investigation of Evaporation Kinetics of Oxidizing Metallic Electrodes of an Arc 36

Sokolov, A. V., G. I. Kharus, and V. P. Shirokovskiy. Double Refraction of Uniaxial Semiconductor Crystals 39

Buravlev, Yu. M. Problem of the Entry of the Probe Material Into the Radiating Cloud During the Spectral Analysis of Steel 42

Mal'tsev, M. G., and K. I. Tkachov. Application of Contact Electric Spark Transfer for Eliminating the Effect of Composition, Structure, and Mass of Samples During the Spectral Analysis of Certain Alloys 50

Buravlev, Yu. M., G. P. Nemrezina, and V. I. Ustinova. Investigation of the Effect of Structure on the Spectral Analysis Results of Structural Steel 56

Buravlev, Yu. M., V. I. Ustinova, and D. Ye. Shaykina. Effect of Tungsten on the Results of the Spectral Analysis of High-Speed Cutting Steel 61

Buyanov, N. V., S. L. Zubkovskiy, G. V. Kovalenko, V. F. Korotkov, and V. N. Lindstrem. Spectral Analysis of Steel with a Modernized PES-1 Instrument 69

Sventitskiy, N. S. Spectral Analysis of Gases Contained in Metals 70

Shayevich, A. B. Spectral Analysis of Multicomponent Systems With a High and Varying Content of Components 79

Shayevich, A. B., M. A. Perepelkina, and N. A. Kuhrina. Spectral Analysis of 45% and 75% Ferrosilicon 87

Kalinskiy, Ya. M., A. B. Shayevich, V. V. Bugrina, N. I. Chabanenko, and M. A. Perepelkina. Spectral Analysis of Ferroniobium, Ferrotitanium, and Titanium Concentrate 91

Kozlova, A. V. Role of Internal Standard in the Spectral Analysis of Various Ferroalloys 98

Kalinskiy, Ya. M., V. V. Bugrina, and A. K. Tumanov. Spectral Analysis of Chrome-Base Alloys 105

Lobova, L. D. Spectral Methods of Analyzing Products of the Magnesium and Titanium Industry 110

Fomina, O. A. Application of Spectral Analysis at the Severskiy Metallurgical Plant 112

Gavrilov, G. I., and L. G. Soshneva. Spectral Analysis at the "Uralsel'mash" Plant 114

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BORBAT, A.M.; MAL'TSEV, M.G.; TAGANOV, K.I.

Effect of a third component in spectrum analysis with electric selection of samples. Fiz.sbor. no.4:255-257 '58. (MIRA 12:5)

1. Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I.Vavilova.

(Spectrum analysis)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.G.; PTITSYNA, Ye.A.; TAGANOV, K.I.

Some physical characteristics of the contact-electric spark selection of a sample for spectrum analysis. Fiz.sbor. no.4:252-255 '58. (MIRA 12:5)

1. Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I.Vavilova.

(Spectrum analysis)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.G.; TAGANOV, K.I.

Using contact-electric-spark sampling for spectral analysis.
Zav.lab.22 no.2:191-194 F '56. (MIRA 9:6)
(Sampling) (Spectrum analysis)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, M.G.; TAGANOV, K.I.

Contact electric spark assaying in the spectrum analysis of metals.
Izv.AN SSSR.Ser.fiz.19 no.2:205-206 Mr-Ap '55. (MLRA 9:1)
(Tartu--Spectrum analysis--Congresses)

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MAL'TSEV, M.A.

Achievements of innovators of the Omsk Petroleum Refinery.
Neftianik 7 no.6:26 Je '62. (MIRA 15:8)

1. Starshiy operator Omskogo neftepererabatyvayushchego zavoda.
(Omsk--Petroleum--Refining)

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MOLCHANOV, M.F.; MAL'TSEV, I.M.

Structure and water-bearing [illegible] of the water-driving complex of the red beds of the [illegible] formation. [illegible] N Turk. SSR. Ser. fiz.-tekh., khim. i geol. nauk no. [illegible] '64.

(MIRA 18:4)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, L.M., glav. red.; VAKHTANGOVA, A.N., red.; DAVYDOV, I.Ya., red.; KURBANMURADOV, A., red.; KUZ'MENKO, A.I., red. izd-va; IVONT'YEVA, G.A., tekhn. red.

[Problems in the hydrogeology and engineering geology of the Turkmen S.S.R.] Voprosy gidrogeologii i inzhenernoi geologii TSSR. Ashkhabad, Izd-vo AN TSSR, 1963. 93 p. (MIRA 16:8)

1. Akademiya nauk Turkmenskoy SSR. Ashkhabad. Institut geologii.

(Turkmenistan--Water, Underground)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

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KALUGINA, Ol'ga Yakovlevna; MAL'TSEV, L.M., otv. red.; MAYOROVA, Yu.M., red. izd-va; IVONT'YEVA, G.A., tekhn. red.

[Malm-Neocomian water in the southern part of the Caspian artesian basin (western Kopet-Dag slope)]Mal'm-neokomskii vodonapornyi kompleks IUzhnokaspiiskogo artezianskogo basseina (Zapadnokopetdagskii sklon). Ashkhabad, Izd-vo Akad. nauk Turkmenskoi SSR, 1962. 26 p. (MIRA 16:3)

(Kopet-Dag region--Water, Underground)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, L.M.

Engineering studies of the conditions in and the hydrogeology of the lower part of the Atrek Valley. Trudy Inst. geol. AN Turk. SSR 4:304-335 '62. (MIRA 16:7)
(Atrek Valley--Water, Underground)
(Atrek Valley--Engineering geology)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

ALEKHIN, S.N.; MAL'TSEV, L.M.

Dynamics of the ground waters of the Tadzhen River Delta in the vertical direction. Izv.AN Turk.SSR.Ser.fiz.-tekh.,khim.i geol.nauk no.3:107-115 '62. (MIRA 16:5)

1. Institut geologii AN Turkmenskoy SSR.
(Tadzhen River Delta--Hydrodynamics) (Deltas)

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BINEVICH, B.A.; MAL'TSEV, L.M.

Underground waters in the valley of the Chaacha-Chay Creek near its issue and the debris cone. Izv. AN Turk. SSR. Ser. fiz.-tekh., khim. i geol.nauk no.5:105-109 '61. (MIRA 14:11)

1. Institut geologii AN Turkmenskoy SSR.
(Chaacha-Chay Valley--Water, Underground)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, L.M.; BUBOL'TS, A.L.

Well-geyser in the Boya-Dag. Izv.AN Turk.SSR.Ser.fiz.-tekh., khim.i geol.nauk no.1:68-73 '61. (MIRA 14:8)

1. Institut geologii AN Turkmenskoy SSR.
(Boya-Dag--Geysers)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, L. M.

Formation waters in Pliocene sediments of the Nebit-Dag fold. Trudy Inst. geol. AN Turk. SSR 3:288-304 '60. (MIRA 16:1)

(Nebid-Dag region--Oil field brines)

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ACC NR: AP6021358 (N) SOURCE CODE: UR/0207/66/000/003/0117/0121

49
B

AUTHOR: Mal'tsev, L. I. (Novosibirsk)

ORG: none

TITLE: Solution of a reciprocal problem of a cavitational flow around a curved arch

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1966, 117-121

TOPIC TAGS: cavitation, cavity flow, fluid mechanics

ABSTRACT: The problem of determining the cavitational flow around a symmetrically curved arch, using Ryabushinskiy's system for the plane flow of an ideal incompressible fluid at a given velocity distribution, is analyzed; the contour forms and the free stream are plotted in curves, and the arch resistance is determined. Equations are deduced for the contour coordinates and the free stream, the latter including the flow-separation coordinates, and for the resistance of the arch. The parameters involved are determined according to the given cavitation number and the length of the arch. Equations for the cavity dimensions and the parametric relationship of the cavitation number for a special velocity-distribution case are given, and the contour equation for a flow around a plate normal to the flow direction is deduced. Orig. art. has: 18 formulas and 4 figures. [GE]

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MAL'TSEV, L.I., inzh., red.; FREGER, D.P., red. izd-va; KUBNEVA, M.M., tekhn. red.

[Deposition of wear-resistant and heat-resistant alloys; a bibliography] Naplavka iznosostoikikh i zharoprochnykh splavov; bibliograficheskii ukazatel' literatury. Pod red. L.I.Mal'tseva. Leningrad, 1960. 17 p. (MIRA 14:8)

1. Leningradskiy Dom nauchno-tekhnicheskoy propagandy. Nauchno-tekhnicheskaya biblioteka.
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PROSKURIN, Petr Vasil'yevich; ASSONOV, Georgiy Fedorovich [Assonov, H.]; MAL'TSEV, L.G. [Mal'tsev, L.H.], glavnyy red.

[Economic condition of workers in the U.S.A.] Ekonomichne stanovyshche trudiashchykh v SShA. Kyiv, 1960. 39 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.1, no.3). (MIRA 13:3)

(United States--Labor and laboring classes)
(United States--Cost and standard of living)

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MAL'TSEV, L.A.; AKHMETSHIN, N.F.; ZHIVICHKINA, A.A.; SHCHEDROVITSKIY, Ya.S.; BARASHKIN, I.I.; PEKARSKIY, L.F.; SEMENOV, V.Ye.

Secondary current supply in closed-top ferroalloy-smelting furnaces. Stal' 25 no.12:1099-1100 D '65. (MIRA 18:12)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii i Almaznyanskiy zavod ferrosplavov.

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MAL'ISEV, L.A.; SHCHEDROVITSKIY, Ya.L.; PEKARSKIY, L.M.

Electric conditions of making ferrosilicon. Stal' 25 no.3: 239-241 Mr '65. (MIRA 18:4)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, L.A., kand.tekhn.nauk; SHCHEDROVITSKIY, Ya.S., kand.tekhn.nauk

Discussing G.F.Platonov's article "Minimum voltage zone of furnace transformers of ore reducing and ore smelting electric furnaces." (MIRA 15:3)
Prom.energ. 17 no.2:34-35 F '62.
(Electric furnaces) (Platonov, G.F.)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

OKOROKOV, N.V., prof., doktor tekhn. nauk; MAL'TSEV, L.A., inzh.

Metal flow and equalization of bath temperature by means of electromagnetic mixing. Sbor. Inst. stali no.38:186-195 '58. (MIRA 11:8)

1. Kafedra elektrometallurgii Moskovskogo instituta stali im. Stalina.

(Electrometallurgy) (Electromagnetism)

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SOV/137-58-12-24204

Heat Exchange in the Bath of an Electric Arc Furnace With Stationary Heat (cont.)

influence of electrodynamic forces, heat convection and acquisition of heat by the bath not only via the hot zones, but via the entire surface. The results of the analog simulation make it possible to determine optimum ratios among the various dimensions of furnaces from the viewpoint of uniformity of bath heating, namely, the ratio of the bath diameter D to h_B should be in the 5.0-5.5 range, and the depth-to-D ratio should be ≤ 0.35. Expansion of the size of the "hot" zones beneath the electrodes has a favorable influence upon the heating of all points in the bath.

V. B.

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

SOV/137-58-12-24264

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 40 (USSR)

AUTHORS: Okorokov, N. V., Mal'tsev, L. A

TITLE: Heat Exchange in the Bath of an Electric Arc Furnace With Stationary Heat Flow (Teploobmen v vanne dugovoy elektropechi pri stationarnom teplovom potoke)

PERIODICAL: Sb. Mosk. in-t stali, 1958, Vol 38, pp 173-184

ABSTRACT: Analog simulation is employed to study the heat exchange in the bath of an arc furnace. Under steady state conditions, the heat distribution is determined by a Laplace equation, which also determines the distribution of voltages in a continuous electrically conducting medium. On this basis an analog model was made consisting of a metal water-filled shell, the water serving as electrolyte. The influence of the following factors on potential distribution is studied: Bath depth h_B, diameter of electrode decomposition d_r; and electrode diameter d_e; these parameters express the size of the hot zones through which heating of the metal (Me) proceeds. In a real process, the following deviations, not taken into consideration in the analog simulation, will occur: The movement of the Me beneath the arcs under the

Card 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, L. A.

137-1958-3-4808 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 50 (USSR

AUTHOR: Mal'tsev, L. A.

TITLE: The Exchange of Heat in the Bath of an Arc Furnace in the Reduction Stage of Smelting (Teploobmen v vanne dugovoy pechi v vosstanovitel'nyy period plavki)

ABSTRACT: Bibliographic entry on the Author's dissertation for the degree of Candidate of Technical Sciences, presented to Mosk. in-t stali (Moscow Steel Institute), Moscow, 1957

ASSOCIATION: Mosk. in-t stali (Moscow Steel Institute), Moscow

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MALTSEV, K.

"Time Sheet Used in Agricultural Work" p. 12 (Mashinizirano Zemedelie Vol. 4, No. 3/4, 1953, Sofiya)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March, 1954, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, K.

Machine-Tractor Stations

Hourly chart for field work MTS 12 no. 2, 1952.

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

2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.Ye.

Triplite from pegmatites in the Il'men Mountains. Trudy Min.muz. no.10:150-153 '59. (MIRA 16:8)
(Il'men Mountains--Triplite)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.Ye.

Triplite from the Il'men Mountains. Trudy Gor.-geol. inst. UFAN SSSR no. 42:117-120 '59. (MIRA 14:2)
(Il'men Mountains--Triplite)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.I.; MEL'NIK, A.N.; VORONENS, N.A.

Treatment of chronic nonspecific pneumonia and bronchial asthma with aerosol inhalations. Sov.med. 28 no.4:75-79 Ap '65. (MIRA 18:6)

1. Omskaya zheleznodorozhnaya klinicheskaya bol'nitsa No.2 (nachal'nik S.F.Mel'nik, nauchnyy rukovoditel' - prof. M.E. Vinnikov [deceased]).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.T. (Omsk)

Use of ACTH and adrenocortical hormones in therapeutic practice. I.T.Mal'tsev. Kaz. med. zhur. no.1:69-71 Ja-F'61 (MIRA 16:11)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.T.; PLESHAKOVA, A.V.; SHALAGINOVA, F.I.; GAYDAMAK, N.A.

Diagnosis and treatment of chronic colitis. Kaz. med. zhur. no.1:14-19 Ja-F '62. (MIRA 15:3)

1. Omskaya zheleznodorozhnaya klinicheskaya bol'nitsa (nachal'nik - S.F. Mel'nik, nauchnyy konsul'tant - deystvitel'nyy chlen AMN SSSR prof. A.F. Bilibin).
(COLITIS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.T.

Use of ACTH, cortisone, and prednisone in some internal diseases. (MIRA 14:12)
Vrach. delo no.9:123-125 S '61.

1. Glavnyy terapevt Omskoy zheleznoy dorogi. Nauchnyy rukovoditel' prof. M.E.Vinnikov.
(ACTH) (CORTISONE) (PREGNADIENETRIONE)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.T.

Use of the adrenocorticotropic hormone in acute exudative tuberculous pleurisies. Probl.tub. 37 no.7:47-49 '59. (MIRA 13:4)

1. Iz kafedry gospital'noy terapii (zav. - prof. M.E. Vinnikov) Omskogo meditsinskogo instituta.
(TUBERCULOSIS, PULMONARY therapy)
(CORTICOTROPIN therapy)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.T. (Omsk)

Our ten-year results of investigating diagnostic errors. Sov.zdrav. 18 no.11:38-43 '59. (MIRA 13:3)

1. Iz kafedry gospital'noy terapii (zaveduyushchiy - prof. M.E. Vinnikov) Omskogo meditsinskogo instituta i terapevticheskogo otdeleniya Omskoy zheleznodorozhnoy klinicheskoy bol'nitsy (glavnyy vrach M.A. Kochegarova).
(DIAGNOSIS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

L 42954-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AR6015872 SOURCE CODE: UR/0275/65/000/012/B029/B029

49

B

AUTHOR: Mal'tsev, I. S.; Gabrilovskiy, B. V.; Polekhov, V. V.

19

TITLE: The employment of a silicon diffusion p-n junction as a nuclear particle detector

21

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 12B221

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 1. M., Atomizdat, 1964, 7-11

TOPIC TAGS: pn junction, particle detector, nuclear particle, silicon semiconductor

ABSTRACT: A description is given of the technology and the design of a nuclear particle detector (D), manufactured on the basis of a single crystal Si p-type with a specific resistance of 2000 ohm·cm; the p-n junction is made by the diffusion of phosphorus from a gaseous phase for 40 min at a temperature of 1150C to a depth of 2—3 microns. The working surface of D is ∿30 mm^2. The volt-ampere characteristics of D are given. Alpha-particles are recorded by D, starting with a zero reverse bias. Pulse amplitude reaches saturation at a reverse bias of ∿10v. The energy resolution is 4—5%. The yield of D is equal to 70—80%. [Translation of abstract] 2 illustrations and bibliography of 2 titles. L. L.

SUB CODE: 18,20 UDC: 539.1.074:621.382.2

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

L 34782-66 EWT(1)/EWT(m)/T IJP(c) AT

ACC NR: AR6017211 SOURCE CODE: UR/0058/65/000/012/A054/A054

51
B

AUTHOR: Mal'tsev, I. S.; Gabrilovskiy, B. V.; Polekhov, V. V.

TITLE: Use of a silicon diffused p-n junction as a nuclear particle detector

19

SOURCE: Ref. zh. Fizika, Abs. 12A477

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 1. M., Atomizdat, 1964, 7-11

TOPIC TAGS: particle detector, pn junction, silicon semiconductor, physical diffusion, volt ampere characteristic, Alpha detector

ABSTRACT: A procedure is described for preparing a semiconductor detector for nuclear particles of single-crystal p-type silicon with specific resistivity 2000 ohm-cm. The p-n junction was made by diffusion of phosphorus from the gas phase for 40 minutes at a temperature +1150C into a depth of 2 - 3 μ. The operating area of the detector is ~30 mm^2. The volt-ampere characteristics of the detector are presented. Alpha particles are registered with the detector starting with zero reverse bias. The amplitude of the pulses reaches saturation at a reverse bias of ~10 v. The energy resolution of the detector is 4 - 5%. Improvement in the technology makes commercial production of diffusion detectors possible. L. Leshchuk. [Translation of abstract]

SUB CODE: 18,20

Card 1/1

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.P.

The 654 milling machine without a bracket. Biul.tekh.-ekon.inform. no.2:18-19 '62. (MIRA 15:3)

(Milling machines)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

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SOV/91-59-4-16/28

The Automatic Connection of the Reserve Transformer for Internal Consumption of a Station

There are 2 diagrams.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

SOV/91-59-4-16/28

8 (6)

AUTHORS: Andreyev, M. N., Engineer and Mal'tsev, I. M., Technician

TITLE: The Automatic Connection of the Reserve Transformer for Internal Consumption of a Station (Avtomaticheskoye vklyucheniye rezervnogo transformatora sobstvennykh nuzhd stantsii)

PERIODICAL: Energetik, 1959, Nr 4, pp 22 - 24 (USSR)

ABSTRACT: The authors describe a simplified relay system for switching on the reserve transformer for the internal consumption of a hydroelectric power plant. If one of the primary transformers for internal consumption is switched off, the reserve transformer will be switched on within 40 - 50 seconds. The old system had 14 relays, and twice the number of contacts than the new system which has only 11 relays. Figure 1 shows the internal consumption circuit of the respective hydroelectric power plant, and Figure 2 shows the basic circuits of the automatic system for switching on the reserve transformer.

Card 1/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.A., inzh.

Using reinforced-concrete wedges to fasten reinforced-concrete columns. Mont. i spets. rab. v stroi. 26 no.8:24-25 Ag '64. (MIRA 17:11)

1. Trest Dal'stal'konstruktsiya.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

USPENSKIY, G.N., burovik-novator; BANATOV, V.P., burovik-novator; KOLYUBAKIN, N.L., burovik-novator; MAL'TSEV, I.A., burovik-novator.

[Results of using the two-hole drilling method] Rezul'taty primeneniia dvukhstvol'nogo metoda bureniia. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gornotoplivnoi lit-ry, 1953. 130 p. (MLRA 7:5)

1. Trest Stavropol'burneft' (for Uspenskiy, Banatov, Kolyubakin, Mal'tsev).
(Petroleum--Well-boring)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, I.

Kuz'min Plant in Novosibirsk. Metallurg. 9 no.10:4-5 O '64 (MIRA 18:1)

1. Predsedatel' oblastnogo komiteta professional'nogo soyuza rabochikh metallurgicheskoy promyshlennosti Novosibirskoy oblasti. Metallurg. 9 no.10:4-5 O '64 (MIRA 18:1)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, G.Z.; MALININ, G.V.; MASHOVETS, V.P.

Structure of aluminate solutions. Zhur. struk. khim. 6 no.3:378-383 My-Je '65. (MIRA 18:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta i Radiyevyy institut imeni V.G.Khlopina, Leningrad.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, G.Z.; MALININ, G.V.; MASHOVETS, V.P.; SHCHERBAKOV, V.A.

Thermodynamic properties and nuclear magnetic resonance spectra of H^1 and Na^{23} of caustic soda solutions. Zhur. struk. khim. 6 no.3:371-377 My-Je '65. (MIRA 18:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta i Radiyevyy institut imeni V.G.Khlopina.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

DIBROV, I.A.; MAL'TSEV, G.Z.; MASHOVETS, V.P.

Saturated vapor pressure of caustic soda and sodium aluminate solutions within 25-350° in a wide range of concentrations. Zhur. prikl. khim. 37 no.9:1920-1929 S '64. (MIRA 17:10)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, G.Z.; MASHOVETS, V.P.

Heat capacity of sodium aluminate solutions in the [illegible] temperature range. Zhur. prikl. khim. [illegible] no.1:[illegible] [illegible]

1. Leningradskiy tekhnologicheskiy institut [illegible]

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, G.V.

Elimination of chicken cholera. Veterinariia 38 no.1:46 Ja '61. (MIRA 15:4)

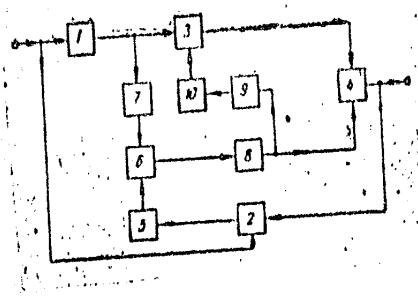
1. Glavnyy veterinarnyy svrach Sovkhoza "Vinogradovskiy", Odesskoy oblasti.
(Chicken cholera) (Levomycetin) (Sulfamethazine)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

ACC NR: AP6021781

Fig. 1. 1 - narrow-band filter; 2 - phase detector; 3 - amplifier; 4 - summator; 5 - low frequency filter; 6 - balanced modulator; 7 - phase shifter; 8 - amplifier; 9 - amplitude detector; 10 - low frequency filter



Orig. art. has: 1 diagram.

SUB CODE: 09/ SUBM DATE: 22Jul65

Card 2/2

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

ACC NR: AP6021781 SOURCE CODE: UR/0413/66/000/012/0048/0048

INVENTORS: Mal'tsev, G. S.; Zaikin, V. V.

ORG: none

TITLE: Method for compensating signal phase drifts in narrow-band filters. Class 21, No. 182764

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 48

TOPIC TAGS: filter circuit, electric filter, phase shift, electronic circuit

ABSTRACT: This Author Certificate presents a method for compensating signal phase drifts in narrow-band filters with an automatic tracking system for the voltage phase at the filter output. To simplify the device and to decrease the resulting phase errors, quadratic phase compensation is used to introduce into the output signal a variable voltage with regulated amplitude shifted by $\pm 90^{\circ}$ relative to the voltage at the filter output (see Fig. 1).

UDC: 621.394.66:621.395.665

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

[illegible]I'TSEV, G.I., starshiy [illegible].

Electrically started a[illegible] [illegible]
Avtom. telem. i [illegible] 5 [illegible] 34-35 [illegible] '61. [illegible]

1. Chitinskaya [illegible] signalizatsii [illegible] dorogi.

(Teletype)
(Railroads--Communication system)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

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with special fittings is installed for this purpose at the trap with which the device is connected by gage cocks. Tubes of the device are filled with water or alcohol before the operation is started; this liquid is dislodged, however, by the oil spout when the fittings are put into action. A certain formula applied to findings helps to make the necessary calculation and to determine the daily output of the oil well expressed in tons. There is one sketch of the device and its fittings and a formula for converting the recorded data into weight units.

ASSOCIATION: PTO NPU Abinneft'

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, G.I.

92-58-3-10/32

AUTHOR: Mal'tsev, G.I., Head PTO NPU Abinneft'

TITLE: Weight Method for Gaging Oil Well Output in Traps (Zamer debita skvazhin v trapakh vesovym metodom)

PERIODICAL: Neftyanik, 1958, Nr 3, p 10 (USSR)

ABSTRACT: Oil well output is usually determined by gaging the volume of crude oil or of another fluid entering a trap within a specific period of time. The height of the fluid level is established through the measuring glass tube. When the gravity of the crude oil and the amount of water the tube contains are ascertained, the volume of fluid which has entered the trap is converted into weight units. Significant errors are made when this method of calculation is applied to viscous crudes which contain dissolved gas. Therefore, the Abinneft' Petroleum Production Administration now uses the weight method proposed by their chief engineer A.A. Shevtsov. A device

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MAL'TSEV, G.I.

Conducting hydraulic fracturing operations in frequently alternating clay and sand strata. Neft.khoz.34 no.8:28-30 Ag '56. (MLRA 9:10)
(Petroleum engineering)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

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MIROSHNIKOV, Petr Semenovich, kand. ekon. nauk; MAL'TSEV, G.F., inzh., spets. red.; LYALYUK, I.P., red.; LIM[redacted]NOVA, M.I., tekhn. red.

[Utilization of internal production potentials; based on the practice of the Kharkov Electric Equipment Plant] Ispol'zovanie vnutriproizvodstvennykh rezervov; na opyte Khar'kovskogo elektromekhanicheskogo zavoda. Khar'kov, Khar'kovskoe knizhnoe izd-vo, 1963. 84 p. (MIRA 16:9)
(Kharkov--Electric equipment industry--Technological innovations)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

S/107/60/000/06/004/004
E192/E482

A Receiver for "Fox Hunting"

circuits of all the tubes, except the low frequency amplifier, comprise decoupling filters. The receiver is fed from 2 battery elements having a voltage of 2.6 V from which it takes a current of 250 mA. The anode voltage is provided by a voltage converter based on two transistors which operate from the same 2.6 V source. The anode voltage is 70 V and the source supplies 4.5 mA. The antenna of the receiver consists of a split active resonator, a director and a reflector. The balancing of the antenna is effected by means of a 1/4-wave stub. The receiver is placed inside the handle of the antenna (see the insert plate) which is made of dural tube having an internal diameter of 35 mm. The lower portion of the tube contains the supply source, while the middle portion houses the receiver. When the receiver is properly tuned its sensitivity is of the order of 10 μV, which in dry weather permits the detection of a "Fox" at a distance of 4 km.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031900028-6

MAL'TSEV, G

S/107/60/000/06/004/004
E192/E482

AUTHOR: Mal'tsev, G.

TITLE: A Receiver for "Fox Hunting"

PERIODICAL: Radio, 1960, No.6, p.40

TEXT: "Fox Hunting" is a sport or game practised in the Soviet Union in which a competitor carrying a receiver furnished with a directional antenna tries to discover the position of an amplitude-modulated transmitter hidden in an afforested area. The article gives the description and the diagram of a "Fox Hunt" receiver operating at frequencies of 144 to 146 Mc/s. (the diagram of the receiver is shown on the last page of the centre insert plate). All the stages of the receiver are based on battery tubes, type 2Zh14B. The first stage operates as a mixer which, together with the heterodyne, converts the signal of 145 Mc/s into a signal of 16 Mc/s. The mixer is followed by an intermediate frequency amplifier. The sensitivity of the receiver is varied by simultaneously changing the voltage at the screen grids of the mixer and amplifier tubes. The intermediate frequency amplifier is followed by a super-regenerative detector. The signal from the detector is applied to a low frequency amplifier. The heater

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contents of the Ti carbide deposit varied between 0.19 - 0.23 and 1.2 - 1.5 % respectively. Using (b), the corresponding figures were 0.11 - 0.12 and 0.032 - 0.060 %. No such differences were observed when carbide separations from a steel not containing Ni were carried out. In a second series of tests polarity was periodically reversed during the process, in such a way that the specimens (IKhN9T steel) remained at the positive pole twice as long as on the negative. Using the tiosulphate electrolyte under these conditions, Ti and Ni in the carbide were found to be o.13 and 0.76 % respectively (less contamination with Ni), whilst the corresponding values when using the thiourea electrolyte remained relatively unchanged (0.12 and 0.018 %). Further work on the processes taking place on the surface of the specimens during the electrolytic process is thought worthwhile and the use of thiourea in place of thiosulphate is recommended. There are 1 figure and 2 tables.

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