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FILIMONOV, I.

Model airplane builders of the Forty-First... Kryl. rod. 16 no.12:22 D '65. (MIRA 18:12)

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ZUBKIN, Aleksandr Stepanovich; FILIMONOV, I.M., red.; TSIGEL'MAN, L.T., tekhn.red.

[Means for personal defense in chemical warfare] Individual'nye sredstva protivokhimicheskoi zashchity. Moskva, Izd-vo DOSAAF, 1958. 63 p. (MIRA 11:6)
(Chemical warfare--Safety measures)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

FILIMONOV, I.M.

MIKHAYLOV, Pavel Mikhaylovich, geroy Sovetskogo Soyuza; FILIMONOV, I.M., red.; BLAZHENKOVA, G.I., tekhn. red.

[Moscow—New York—Moscow] Moskva - N'iu-Iork - Moskva. Moskva, Izd-vo DOSAAF, 1958. 71 p. (MIRA 11:7)
(Jet transports)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

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YEMEL'YANOV, Aleksey Yakovlevich; FILIMONOV, I.M., red.; ANDRIANOV, B.I., tekhn.red.

[Radio amateurs in schools; narration of work experiences of a radio club which was organized by the All-Union Volunteer Society for Assistance to the Army, Air Force, and Navy in the Poteryaikov seven-year school in Reshetilovka District, Poltava Province] U shkol'nykh radioliubitelie; rasskaz ob opyte raboty kruzhka radioliubitelei pervichnoi organizatsii DOSAAF Poteriaikovskoi semiletnei shkoly Reshetilovskogo raiona, Poltavskoi oblasti. Moskva, Izd-vo DOSAAF, 1959. 37 p. (MIRA 13:4)
(Poteryaikov--Radio clubs)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

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ANTONOV, Petr Mikhaylovich, master sporta SSSR; STASEVICH, R.A., red.; FILIMONOV, I.M., red.; KARYAKINA, M.S., tekhn.red.

[Methodology in training of parachutists] Voeprosy metodiki obucheniia parashiutista-sportsmena. Moskva, Izd-vo DOSAAF, 1959. 183 p. (MIRA 13:4)

(Parachuting)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

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KAZANSKIY, Nikolay Valentinovich; FILIMONOV, I.M., red.; FAYNSHMIDT, F.Ya., tekhn.red.

[Amateur radio in the U.S.S.R.] Radioliubitel'skii sport v SSSR. Moskva, Izd-vo DOSAAF, 1960. 91 p. (MIRA 14:2)

(Amateur radio stations)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

TIKHONOV, Ivan Ivanovich; VARAKSIN, Ya.G., red.; FILIMONOV, I.M., red.; FAYNSHMIDT, F.Ya., tekhn.red.

[Radio electronics and its military applications] Radioelektronika i ee voennoe primenenie. Moskva, Izd-vo DOSAAF, 1960. 78 p. (MIRA 13:2)

(Electronics in military engineering)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

STAVROV, Boris Vasil'yevich; IVASHENTSEV, N.I., red.; FILIMONOV, I.M., red.; FAYNSHMIDT, F.Ya., tekhn.red.

[Work of a motor-vehicle driver under conditions of atomic, chemical, and bacteriological war] Rabota voditelia avtomobilia v usloviiakh primeneniia atomnogo, khimicheskogo i bakteriologicheskogo oruzhiia. Moskva, Izd-vo DOSAAF, 1960. 79 p. (MIRA 13:9)

(Air defenses) (Automobiles--Safety measures)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

KAZANSKII, N.; ORLOV, A.; MALEYEV, A.I., red.; FILIMONOV, I.M., red.; MUKHINA, Ye.S., tekhn. red.

[Methodological manual for training radiotelegraph operators] Metodicheskoe posobie po obucheniiu radiotelegrafistov. Moskva, Izd-vo DOSAAF, 1960. 135 p. (MIRA 14:6)
(Radiotelegraph) (Radio operators)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

BELYAYEV, Naum Zinov'yevich; SHLEZINGER, Mikhail Yur'yevich; FILIMONOV, I.M., red.; SHESTOPALOV, L.S., red.; KARYAKINA, M.S., tekhn. red.

[Manual for automobilists] Uchebnoe posobie shoferu-liubiteliu. Moskva, Izd-vo DOSAAF, 1961. 222 p. (MIRA 14:8)
(Automobiles) (Traffic regulations) (Automobile racing)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

KOMISSAROV, Nikolay Stepanovich; FILIMONOV, I.M., red.; SHESTOPALOV, K.S., red.; FAYNSHMIDT, F.Ya., tekhn. red.

[Training in motor-vehicle driving under difficult conditions] Obuchenie vozhdeniiu avtomobilia v trudnykh usloviiakh. Moskva, Izd-vo DOSAAF, 1960. 118 p. (MIRA 15:7)
(Automobile drivers)

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SILKIN, Aleksandr Nikitich; BARKACH, Z.M., red.; FILIMONOV, I.M., red.; FAYNSHMIDT, F.Ya., tekhn. red.

[Maintenance and repair of a motorcycle]Tekhnicheskoe obsluzhivanie i remont mototsikla. Moskva, Izd-vo DOSAAF, 1961. 182 p. (MIRA 15:9)
(Motorcycles--Maintenance and repair)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

MATLIN, Semen L'vovich; FILIMONOV, I.M., red.; BALASHOV, M.I., red.; KOROLEV, A.V., tekhn. red.

[Radio diagrams] Radioskhemy. Moskva, Izd-vo DOSAAF, 1963. 46 p. (MIRA 16:7)
(Radio circuits)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

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MATLIN, Semen L'vovich; TROITSKIY, L.V., red.; FILIMONOV, I.M., red.

[Radio circuits; manual for radio clubs] Radioskhemy; posobie dlia radiokruzhkov. Moskva, Izd-vo DOSAAF, 1964. 51 p. (MIRA 17:4)

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KLOSS, Emiliy Emil'yevich; FILIMONOV, I.M., red.; KOKOLEV, A.V., tekhn. red.

[Amateur boatbuilding] Suda liubitel'skoi postroiki. Izd.2., perer. i dop. Moskva, Izd-vo DOSAAF, 1963. 46 p. (MIRA 17:1)

(Boatbuilding)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

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FILIMONOV, I.N.

General laws of development of the cerebral cortex. Analele biol 8 no.1:35-48 Ja-Mr '54.

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FILIMONOV, I. [N.]

"Radio in the University of Moscow."

So. Radio, Vol. 11, p. 21, 1952

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VORONKOV, A.V.; MAKAROV, N.I.; SVERDLOV, N.B.; FILIMONOV, I.N.

Engineering equipment of the new buildings of Moscow State University. Gor.khoz.Mosk. vol.27 no.9:11-16 S '53. (MLRA 6:10)
(Moscow University)

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FILIMONOV, Ivan Nikolayevich; SMIRNOV, G.D., doktor biol. nauk, otv.red.; BUZNIKOV, G.A., red. izd-va; KASHINA, P.S., tekhn.red.; NOVICHKOVA, N.D., tekhn. red.

[Comparative anatomy of the cerebrum in reptiles] Sravnitel'naia anatomiia bol'shogo mozga reptilii. Moskva, Izd-vo Akad. nauk SSSR, 1963. 242 p. (MIRA 16:6)
(Reptiles--Anatomy) (Brain)

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FILIMONOV, I.N.

Filimonov, I.N. "The human claustrum and its ontogeny", Trudy In-ta mozga (Gos. in-t mozga M-va zdravookhraneniya SSSR), Issue 6, 1948, p. 108-29, Tables XIV-XVIII of an atlas (inserts), - Bibliog: 21 items.

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

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FILIMONOV, I.M.

Evolution of the cerebral cortex and Pavlovian theory on the higher nervous function. Zh. vyssheĭ nerv. deiat. Pavlova 1 no.4:506-520 July-Aug 1951. (CIML 23:2)

1. Moscow.

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FILIMONOV I. N.

Lokalizatsiia funktsii v kore bol'shikh polushariĭ i uchenie I. P. Pavlova o vysshei nervnoi deiatel'nosti. [Localization of function in the cortex of the cerebral large hemispheres and Pavlov's theory on higher nervous function] Klin. med., Moskva 19:6 June 51 p. 5-15.

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FILIMONOV, I. N.

Works of V. M. Bekhterev in the field of anatomy of the nervous system. Zh. vysshei nerv. deiat. 2 no. 6:909-922 Nov-Dec 1952. (CLML 24:1)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

FILIMONOV, I.N.

LEPESHINSKAYA, O.B., professor; USIYEVICH, M.A., professor; ASRATYAN, E.A., professor; SMIRNOV, A.I., professor; FILIPPOVICH, S.I., doktor meditsinskikh nauk; VOLOKHOV, A.A., professor; FILIMONOV, I.N., professor; SEMYAKIN, P.G., professor; CHERNIGOVSKIY, V.N., professor; SPERANSKIY, A.D., akademik; DOLIN, A.O., doktor meditsinskikh nauk; KOTLYAREVSKIY, L.I., professor; NEGOVSKIY, V.A., professor; KASATKIN, N.I., professor; SEL'CHUK, I.V., professor; YEGOROV, B.G., professor; BAKULEV, A.N., professor; SMIRNOV, L.I., professor; USPENSKIY, V.N., redaktor; PETROV, S.P., redaktor.

[Teachings of I.P.Pavlov in theoretical and practical medicine] Uchenie I.P.Pavlova v teoreticheskoi i prakticheskoi meditsine. Vol.2. Moskva, Izd-vo Ministerstvo zdravookhraneniia SSSR, 1953. 611 p. (MLRA 7:3)

1. Deystvitel'nyy chlen AMN SSSR (for Lepeshinskaya, Chernigovskiy and Bakulev). 2. Chlen-korrespondent Akademii nauk SSSR (for Asratyan). 3. Chlen-korrespondent AMN SSSR (for Smirnov, Filimonov, Yegorov and L.I.Smirnov). 4. Moscow. TSentral'nyy institut usovershenstvovaniya vrachey. (Pavlov, Ivan Petrovich, 1849-1936) (Nervous system) (Physiology)

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General rules in development of the cerebral cortex. Arkh. anat., Moskva 30 no.2:7-18 Mar-Apr 1953. (CLML 24:3)

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1. FILIMONOV, I. N.

2. USSR 600

4. Nervous System - Vertebrates

7. History of the development of the nervous system of vertebrates, YE. K. Sepp. Reviewed by I. N. Filimonov, Zhur. nerv. i psikh, 53, No. 1, 1953.

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

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FILIMINOV, I.N.

Structure of cerebral claustrum in man and its modifications during onto-and phylogenesis. Arkh.anat.gist. i embr. 32 no.1: 3-10 Ja-Mr '55. (MLRA 8:9)

(BRAIN, anatomy and histology, claustrum)

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FILIMONOV, Ivan Nikolayevich

[Manual for practical work in the clinical treatment of nervous diseases] Rukovodstvo k prakticheskim zaniatiiam v klinike nervnykh boleznei. Moskva, Medgiz, 1956. 180 p. (MLRA 10:2)
(NERVOUS SYSTEM--DISEASES)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

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BOGOLEPOV, N.K.; DAVIDENKOV, S.N.; RAZDOL'SKIY, I.Ya.; TRIUMFOV, A.V.; FILIMONOV, I.N.

[Neural disorders; a manual for students and physicians] Nervnye bolezni; posobie dlya studentov i vrachei. Moskva, Medgiz, 1956. 531 p. (MLRA 10:6)

(NERVOUS SYSTEM--DISEASES)

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FILIMONOV, I.N.

Vladimir Mikhailovich Bekhterev (1857-1957). Klin.med.35 no.3:3-6 Mr '57. (MIRA 10:7)

(BEKHTEREV, VLADIMIR MIKHAILOVICH, 1857-1927)
(NEUROLOGY, hist.
contribution of Vladimir M.Bekhterev (Rus))

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FILIMONOV, I.N., prof. (Moskva)

Forty years of Soviet neurology and neuropathology; on the 40th anniversary of the Great October Socialist Revolution. Klin.med. 35 no.9:3-11 S '57. (MIRA 10:11)
(NEUROLOGY, hist.
in Russia)

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FILIMONOV, I.N.,

Structure of the amygdaloid nucleus in man and its modification during onto-and phylogenesis. Vest. AMN SSSR 13 no.5:37-47 '58 (MIRA 11:6)

1. Chlen-korrespondent AMN SSSR.
(BASAL GANGLIA, anat. & histol.
change in structure of amygdaloid nucleus in onto- & phylogeny (Rus))

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FILIMONOV, I.N., prof.; KONONOVA, Ye.P., prof.; LAVRENT'YEV, B.I., prof.; PLECHKOVA, Ye.K., prof.; SMESAREV, P.Ye., prof., zasluzhennyy deyatel' nauki; GRASHCHENKOV, N.I., otv.red.; BOGOLEPOV, N.K., prof., red.; DAVIDENKOV, S.N., red.; MIKHEYEV, V.V., prof., red.; RAZDOL'SKIY, I.Ya., red.; SMIRNOV, L.I., red.; FUTER, D.S., prof., red.; SENCHILO, K.K., tekhn.red.

[Multivolume manual on neurology] Mnogotomnoe rukovodstvo po nevrologii. Moskva, Gos.izd-vo med.lit-ry. Vol.1, book 1. [Anatomy and histology of the nervous system] Anatomiia i gistologiia nervnoi sistemy. 1959. 487 p. (MIRA 12:8)

1. Chlen-korrespondent AMN SSSR (for Filimonov, Razdol'skiy, Smirnov). 2. Chlen-korrespondent AN SSSR (for Lavrent'yev, Grashchenkov). 3. Deystvitel'nyy chlen AMN SSSR (for Grashchenkov, Davidenkov). (NERVOUS SYSTEM)

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FILIMONOV, I.N.

Oskar Vogt (1870-1959). Zhur. nerv. i psikh. 60 no. 12:1672-1674 '60. (MIRA 14:4)

(VOGT, OSKAR, 1870-1959)

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DAVIDENKOVA-KUL'KOVA, Ye.F., prof.; MIKHEYEV, V.V., prof.; MARKOV, D.A., prof., akademik; PANOV, A.G., prof.; SAKHAROV, Yu.N., dotsent; FUTER, D.S., prof.; KHONDKARIAN, O.A., prof.; SHAMBUROV, D.A., prof.; DAVIDENKOV, S.N., prof., otv. red.; BOGOLEPOV, N.K., prof., zam. otv. red.; OSTROVERKHOV, G.Ye., glav. red.; GRASHCHENKOV, N.I., prof., red.; KORNYANSKIY, G.P., prof., red.; RAZDOL'SKIY, I.Ya., prof., red.; FILIMONOV, I.N., prof., red.; BARAKHINA, I.L., tekhn. red.

[Multivolume manual on neurology]Mnogotomnoe rukovodstvo po nevrologii. Moskva, Medgiz. Vol.3. Book 1[Infectious and topic diseases of the nervous system]Infektsionnye i toksicheskie bolezni nervnoi sistemy. 1962. 524 p. (MIRA 15:11)

1. Akademiya nauk Belorusskoy SSR (for Markov). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR(for Davidenkov, Grashchenkov, Filimonov). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for RAzdol'skiy).
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FILIMONOV, I.N.

Architectonics of the cerebral cortex and the problem of localization of functions. Zhur. nevr. i psikh. 64 no.1: 8-17 '64. (MIRA 17:5)

1. Institut mozga AMN SSSR, Moskva.

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BERESTOV, A.V. (Head District Veterinary Doctor), BERESTOV, V.A. (Candidate of Veterinary Sciences), KLYAPISHEV, I.A., SHAKMAKOVA, V.I. and MAKAROV, N.V. (Veterinary Doctors), BARABOSHIN, S.A., BUCHINOV, I.N., LYAMIN, A.F., FEDOROV, Yu. I., and FILIMONOV, I. Ya. (Veterinary Medical Assistants, Ul'yanov Oblast', Terentul'sk District).

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Veterinariya, vol. 39, no. 3, March 1962 pp. 71

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KLEMYSHEV, P.A.; KOZLOV, Ye.G.; BELOZERTSEV, A.G.; VOLODARSKIY, D.Ya.; GRACHEV, V.A.; KRUCHININ, M.I.; FILIMONOV, K.N.; KHLUDENEV, A.I.; ANDREYEV, P.P.; NOVOZHILOV, V.F.; GERSHANOV, S.V.; PYLAYEVA, A.P., red.; BALLOD, A.I., tekhn. red.; PEVZNER, V.I., tekhn. red.

[Economic efficiency of mechanization in agriculture] Ekonomicheskaia effektivnost' mekhanizatsii sel'skogo khoziaistva. Moskva, Izd-vo sel'khoz.lit-ry, zhurnalov i plakatov, 1961. 230 p. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva (for all except Pylayeva, Ballod, Pevzner).
(Farm mechanization)

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BERKOVA, N.M.; SIMONOV, Ye.D., red.; GIPPENREYTER, Ye.B., red.; KIZEL', V.A., red.; KUZ'MIN, K.K., red.; LETAVET, A.A., red.; POLYAKOV, A.I., red.p ROTOTAYEV, P.S., red.; FILIMONOV, L.N., red.; KHRGIAN, A.Kh., red.; YUKHIN, I.V., red.; KONOVALYUK, I.K., mlad. red.; GOLITSYN, A.V., red. kart; ARDANOVA, N.P. tekhn. red.

[Conquered summits; Soviet alpinism between 1958 and 1961] Pobezhdennye vershiny; sbornik sovetskogo al'pinizma, 1958-1961. Moskva, Geografgiz, 1963. 406 p. (MIRA 16:6)
(Mountaineering)

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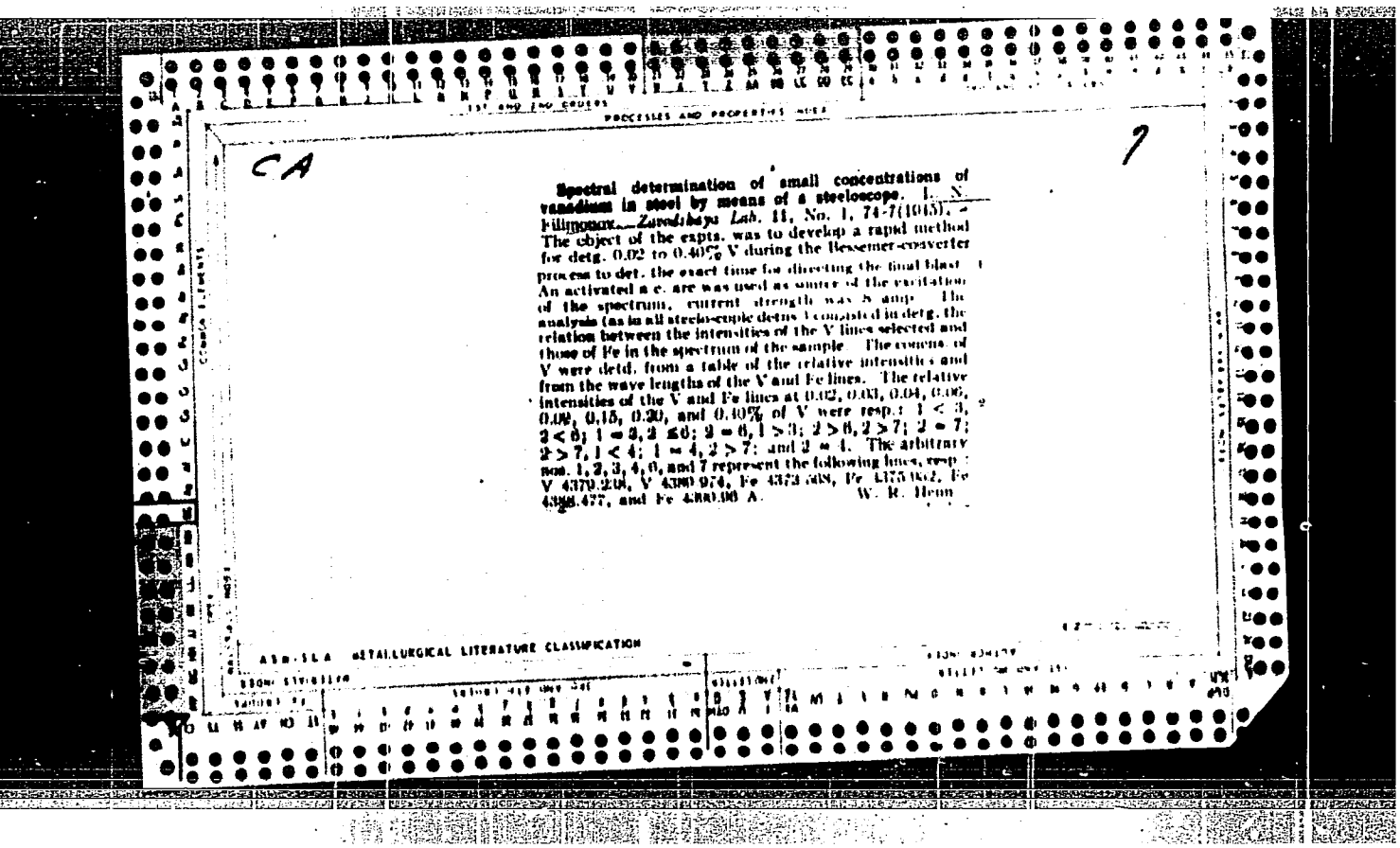

CA

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Spectral determination of small concentrations of vanadium in steel by means of a steeloscope. L. N. Filimonov. *Zavodskaya Lab.* 11, No. 1, 74-7(1945).—The object of the expts. was to develop a rapid method for detg. 0.02 to 0.40% V during the Bessemer-converter process to det. the exact time for directing the final blast. An activated a.c. arc was used as source of the excitation of the spectrum, current strength was 5 amp. The analysis (as in all steeloscopic detns.) consisted in detg. the relation between the intensities of the V lines selected and those of Fe in the spectrum of the sample. The contents of V were detd. from a table of the relative intensities and from the wave lengths of the V and Fe lines. The relative intensities of the V and Fe lines at 0.02, 0.03, 0.04, 0.06, 0.08, 0.15, 0.30, and 0.40% of V were resp.: $1 < 3$, $3 < 6$; $1 = 3$, $2 \leq 6$; $2 = 6$, $1 > 3$; $2 > 6$, $2 > 7$; $2 = 7$; $2 > 7$, $1 < 4$; $1 = 4$, $2 > 7$; and $2 = 4$. The arbitrary nos. 1, 2, 3, 4, 6, and 7 represent the following lines, resp.: V 4379.24, V 4389.974, Fe 4373.488, Fe 4375.932, Fe 4383.477, and Fe 4389.90 A. W. R. Henn

A59-SLA METALLURGICAL LITERATURE CLASSIFICATION

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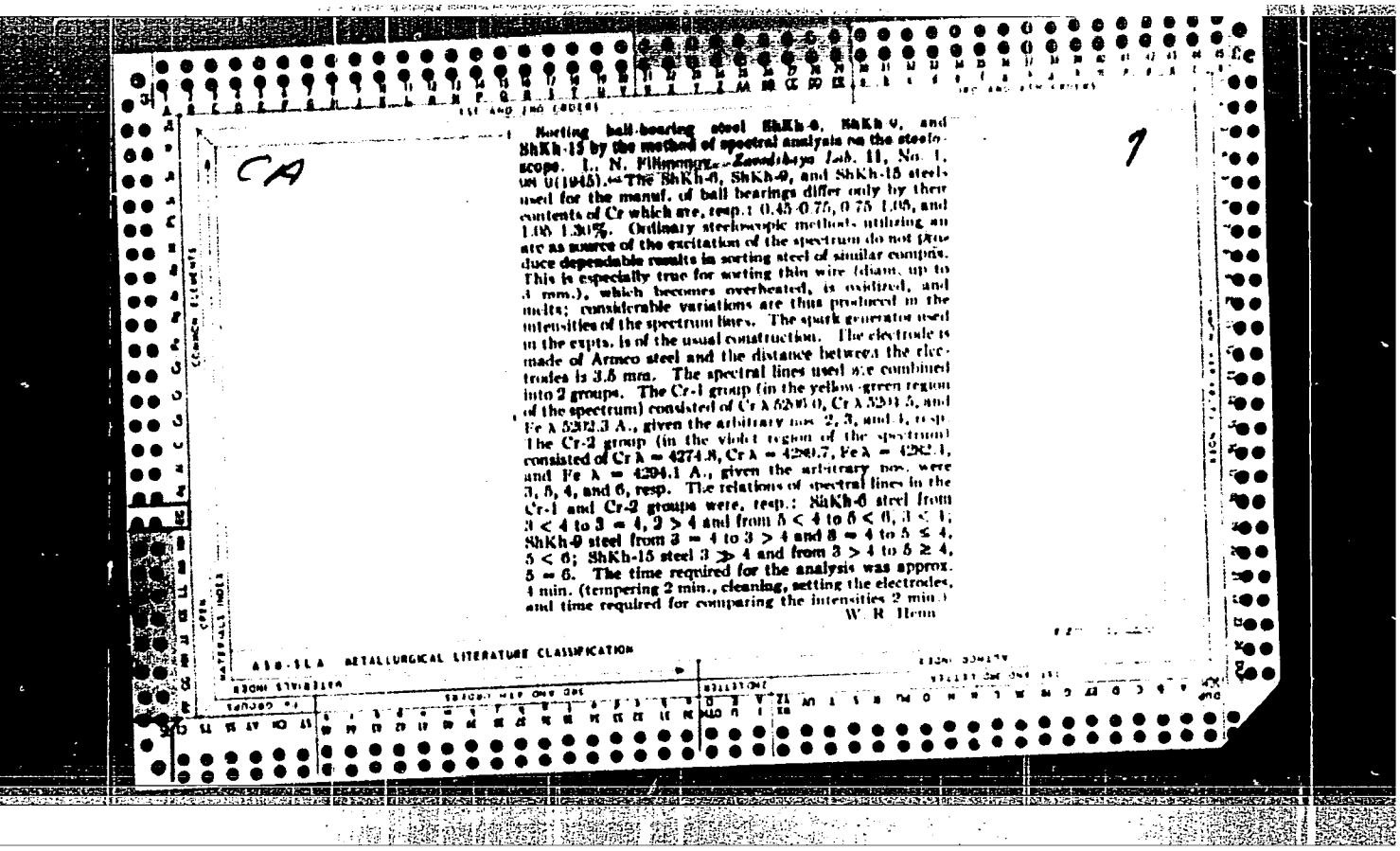

Sorting ball-bearing steel ShKh-6, ShKh-9, and ShKh-15 by the method of spectral analysis on the steloscope. L. N. Filippova. *Zavodskaya Lab.* 11, No. 1, 68 (1945).—The ShKh-6, ShKh-9, and ShKh-15 steels used for the manuf. of ball bearings differ only by their contents of Cr which are, resp.: 0.45-0.75, 0.75-1.05, and 1.05-1.30%. Ordinary steiloscopic methods utilizing an arc as source of the excitation of the spectrum do not produce dependable results in sorting steel of similar compns. This is especially true for sorting thin wire (diam. up to 3 mm.), which becomes overheated, is oxidized, and melts; considerable variations are thus produced in the intensities of the spectrum lines. The spark generator used in the expts. is of the usual construction. The electrode is made of Armco steel and the distance between the electrodes is 3.5 mm. The spectral lines used are combined into 2 groups. The Cr-1 group (in the yellow-green region of the spectrum) consisted of Cr λ 5208.0, Cr λ 5204.5, and Fe λ 5202.3 A., given the arbitrary nos. 2, 3, and 1, resp. The Cr-2 group (in the violet region of the spectrum) consisted of Cr λ = 4274.8, Cr λ = 4289.7, Fe λ = 4282.4, and Fe λ = 4294.1 A., given the arbitrary nos. were 3, 5, 4, and 6, resp. The relations of spectral lines in the Cr-1 and Cr-2 groups were, resp.: ShKh-6 steel from $3 < 4$ to $3 = 4$, $2 > 4$ and from $5 < 4$ to $5 < 6$, $3 < 1$; ShKh-9 steel from $3 = 4$ to $3 > 4$ and $5 = 4$ to $5 \leq 4$, $5 < 6$; ShKh-15 steel $3 \gg 4$ and from $3 > 4$ to $5 \geq 4$, $5 = 6$. The time required for the analysis was approx. 4 min. (tempering 2 min., cleaning, setting the electrodes, and time required for comparing the intensities 2 min.)

W. R. Hess

A10-51A METALLURGICAL LITERATURE CLASSIFICATION

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C A

Effects of sparking and the mutual influence of elements in spectral analysis. L. N. Filimonov. *Izvest. Akad. Nauk S.S.S.R., Ser. Fiz.* 12, 402–11(1948).—As a result of the action of the spark on the surface of the electrodes, the relative intensities of a given analytical line pair change with the length of the sparking. Rapid. curves of such changes, as a function of the length of time of sparking, are of 2 distinct types. One is illustrated by the curve of Mn, line pair Mn II 2576.1–Fe 2577.9 A. in a heat resistant steel; in air, the relative intensity ΔS first increases with time, passes through a max. (between 5 and and 10 sec.), then falls and levels off. The 2nd type is represented by Ni in a 15% Ni steel, line pair Ni I 3500 Fe 3505 A.; here, ΔS remains const. for about 30 sec., then falls to a min., rises again, and levels off. The 1st type is encountered with elements more readily oxidizable than the main constituent of the alloy, the 2nd, with elements less subject to oxidation. The variation of ΔS is due to formation of superficial oxide films of varying compn., other than the compn. of the alloy, as a result of reduction of oxides by other metals. It was found that the emitted atoms are supplied mainly by the oxide film on the surface of the electrode. That film, in the first stages of the sparking, is always enriched in the more readily oxidizable component, which results in either a max. or a min.; on further prolonged sparking, this process is reversed. In the steady stage, the surface becomes covered with droplets of fused oxides. The Mn content of a stainless steel, detd. against an Fe line, was found, after a one-min. preliminary sparking, too 300%; too high; 22 at. % Si gave, under the same conditions, a Mn content too high by 600–1000%, whereas 15 at. % Ni lowered the result by 20%. Correspondingly, the curve of the increment of ΔS of Mn, due to the presence of the 3rd element, as a function of the length of time of sparking, passes through a max. in the presence of 15 at. % Cr, and through a min. with 15 at. % Ni.

N. Thon

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FILIMONOV, L. N. Cand Tech Sci

Dissertation: "Investigation of the Sparking Effect, Influence of Third Elements and Influence of Structure in the Process of Quantitative Spectrum Analysis."

24 March 49

Moscow Inst of Steel
imeni I. V. Stalin

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CA

3

The nature of the "flare-ups" of lines of spectra in voltaic arc. L. N. Pilmonov. *Zavodskaya Lab.* 15, 688-91(1949).—Connection of sample C as the cathode leads to more frequent flare-ups due to more frequent shifting of the arc site than is the case with the anode, on which the oxides forming a surface film tend to restrict the motion of the arc. G. M. Kosolapoff

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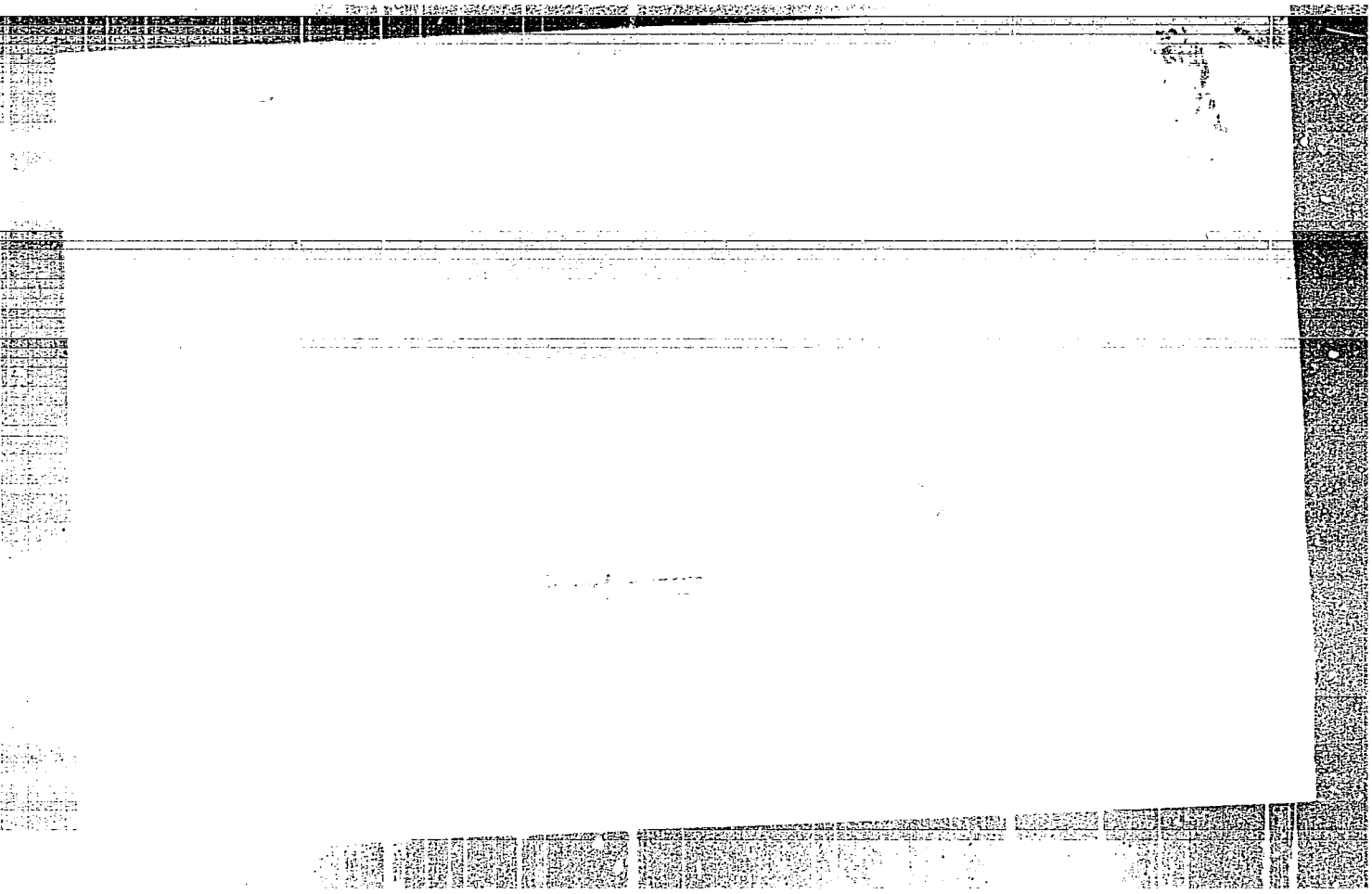

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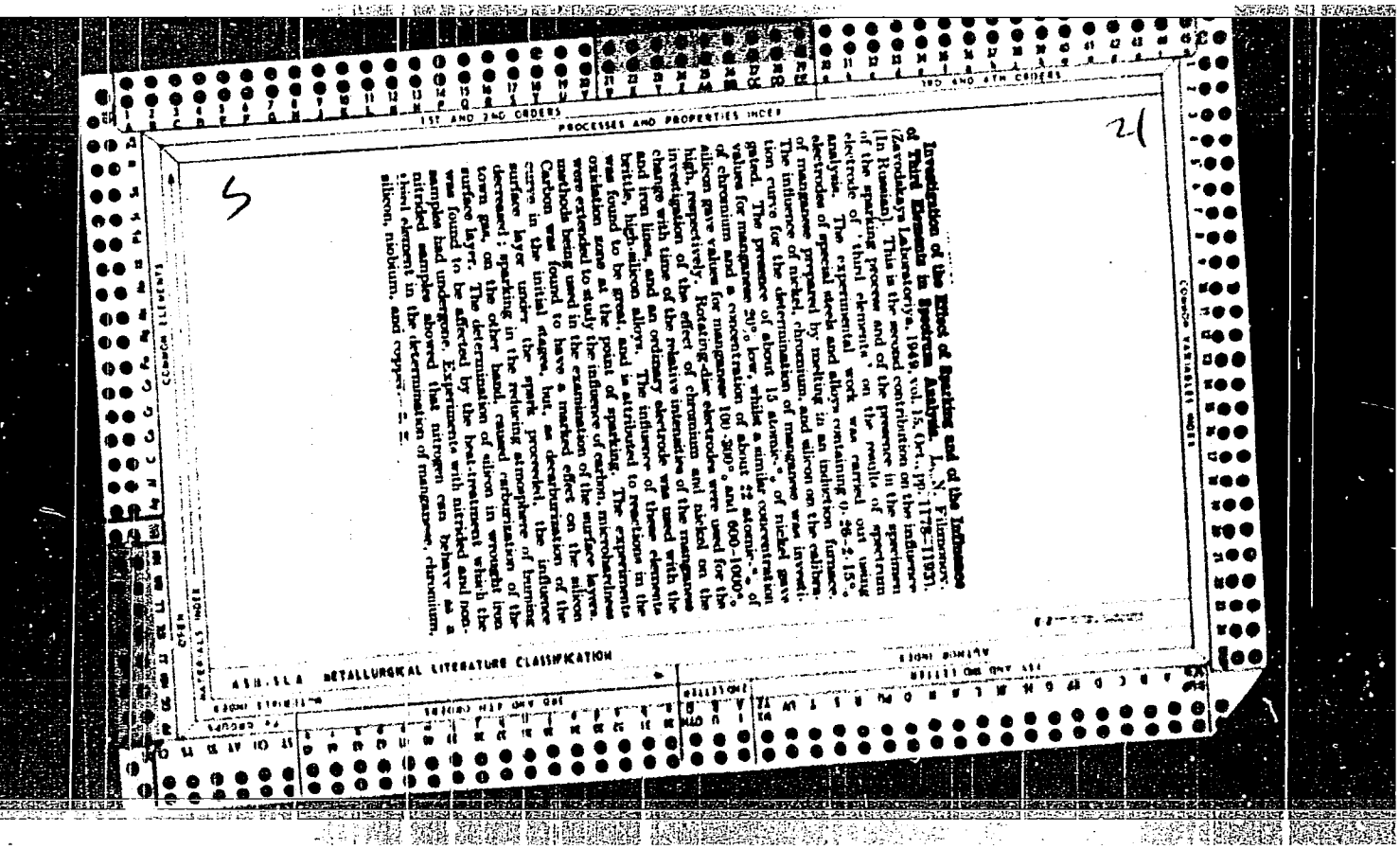

Investigation of the Effect of Heating and of the Influence of Third Elements in Spectrum Analysis. L. V. Filimonov. (Zavodskaya Laboratoriya, 1949, vol. 15, Oct., pp. 1178-1183). (In Russian). This is the second contribution on the influence of the sparking process and of the presence in the spectrum electrode of "third elements" on the results of spectrum analysis. The experimental work was carried out using electrodes of special steels and alloys containing 0.58-6.15% of manganese prepared by melting in an induction furnace. The influence of nickel, chromium, and silicon on the calibration curve for the determination of manganese was investigated. The presence of about 15 atomic-% of nickel gave values for manganese 20% low, whilst a similar concentration of chromium and a concentration of about 22 atomic-% of silicon gave values for manganese 100-300% too high, respectively. Heating-disc electrodes were used for the investigation of the effect of chromium and nickel on the change with time of the relative intensities of the manganese and iron lines, and an ordinary electrode was used with the brittle, high-silicon alloys. The influence of these elements was found to be great, and is attributed to reactions in the oxidation zone at the point of sparking. The experiments were extended to study the influence of carbon, microhardness methods being used in the examination of the silicon. Carbon was found to have a marked effect on the silicon curve in the initial stages, but, as decarburization of the surface layer under the spark proceeded, the influence decreased; sparking in the retaining atmosphere of burning town gas, on the other hand, caused carburization of the surface layer. The determination of silicon in wrought iron was found to be affected by the heat-treatment which the samples had undergone. Experiments with nitrided and non-nitrided samples showed that nitrogen can behave as a third element in the determination of manganese, chromium, silicon, niobium, and copper. [illegible]

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FILIMONOV, L. N.

PA 152T95

USSR/Physics - Spectrum Analysis Oct 49
Chemistry - Calcination, Effect of

"Research on the Effect of Calcination and the Influence of Third Elements During Spectral Analysis." Report II, Research on the Nature of the Effect of Third Elements," L. N. Filimonov, 15 1/2 pp

"Zavod Lab" Vol XV, No 10

Studied with spectroscope the two types of third elements, those with greater (e.g., chromium and aluminum) and those with lesser (nickel, cobalt, copper) affinites for oxygen [redacted] 152T95

USSR/Physics - Spectrum Analysis Oct 49
(Contd)

than for the basic element of the alloy. Gives relative calcination curves for nitrated and unnitrated niobium, silicon, chromium, manganese, and copper specimens.

152T95

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

FILIMONOV, L. N.

L. N. Filimonov. Means for increasing the precision and sensitivity of quantitative spectrum analysis of copper of high purity. P. 1200

State Inst. of the
Ind. of Treatment of
Non-ferrous metals.

SO: Factory Laboratory, No. 10, 1950

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

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FILIMONOV, L. N.

USSR/Metals - Alloys
Spectrum Analysis

Apr 50

"Application of the Carbon Electrode for Spectrum Analysis of Alloys," I. M. Veselovskaya, V. G. Koritskiy, L. N. Filimonov, Moscow Inst of Steel imeni I. V. Stalin, 8½ pp

"Zavod Lab" Vol XVI, No 4

Discusses application of carbon electrode in spectrum analysis. Carbon electrode, having definite advantages in application to analysing low-alloy steels, may lead to systematic errors when used for analysis of some high-alloy steels, as stainless, acid-resisting, and heat-resisting alloys, and also of alloys on bases of copper, nickel, cobalt, and other metals. Investigates and discusses influence of carbon electrode on analysis process, and compares its action with that of metal electrodes.

PA 160T70

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

USSR/ Physics - Spectral analysis

Card 1/1 Pub. 43 - 41/97

Authors : Filimonov, L. N.

Title : Utilization of corrected synthetic standards during spectral analysis

Periodical : Izv. AN SSSR. Ser. fiz. 18/2, page 269, Mar-Apr 1954

Abstract : Brief evaluation is presented of the existing methods of correcting synthetic standards and the method of series approximations by pointing out their deficiencies. The author proposes a certain change in the correction method which would offer an accurate evaluation of the error.

Institution : State Scientific Research and Planning Institute for the Treatment of Non-Ferrous Metals

Submitted : .....

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USSR

2245. Allowance for impurities of the base metal in synthetic standards for spectrographic analysis. L. S. Filimonov (*Zavod. Lab.*, 1955, 21 [1], 61–63). A method of correcting the composition figures for synthetic spectrographic standards for the impurities in the base is described.

G. S. Surin

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FILIMONOV, L.N.

USSR/Optics K

Abs Jour: Referat Zhur-Fizika, 1957, No 4, 10486

Author : Filimonov, L.N.
Inst : Not Given
Title : Spectral Carbon Electrodes

Orig Pub: Zavod. laboratoriya, 1955, 21, No 9, 1138-1140

Abstract: It is indicated that it is necessary to produce commercially new types of spectral-carbon products, and the fundamental data that must be included in the technical specifications for carbon electrodes and carbon powder are given. The dimensions and the shape of the standard electrodes are indicated. Means are recommended for checking the purity and the packing of the carbons and the powder, used in the analysis of the materials of high degree of purity. A requirement is imposed that the certificate accompanying the electrodes and the powder contain results of tests for purity, heat conduction, electroconductivity, porosity and in the case of powder of its pressing ability.

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Filimonov, L. N.

24(7) **PHASE I BOOK EXPLOITATION** SOV/1700

L'vov. Universitet

Materialy X Vsesoyuznogo soveshchaniya po spektroskopii, 1956. t. II: Atomnaya spektroskopiya (Materials of the 10th All-Union Conference on Spectroscopy, 1956. Vol 2: Atomic Spectroscopy) /L'vov/ Izd-vo L'vovskogo univ., 1958. 568 p. (Series: Its: Fizicheskiy sbornik, vyp.4(9)) 3,000 copies printed.

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii.

Editorial Board: G.S. Landsberg, Academician, (Resp. Ed.); B.S. Neporent, Doctor of Physical and Mathematical Sciences; I.L. Fabelinskiy, Doctor of Physical and Mathematical Sciences; V.A. Fabrikant, Doctor of Physical and Mathematical Sciences; V.G. Koritskiy, Candidate of Technical Sciences; S.M. Rayskiy, Candidate of Physical and Technical Sciences; L.K. Klimovskaya, Candidate of Physical and Mathematical Sciences; V.S. Miliyanchuk (Deceased), Doctor of Physical and Mathematical Sciences; A.Ye. Glauberman, Doctor of Physical and Mathematical Sciences; Ed.: S.L. Gazer; Tech. Ed.: T.V. Saranyuk.

PURPOSE: This book is intended for scientists and researchers in the field of spectroscopy, as well as for technical personnel using spectrum analysis in various industries.

COVERAGE: This volume contains 177 scientific and technical studies of atomic spectrography presented at the 10th All-Union Conference on Spectroscopy in 1956. The studies were carried out by members of scientific and technical institutes and include extensive bibliographies of Soviet and other sources. The studies cover many phases of spectroscopy: spectra of rare earths, electromagnetic radiation, physicochemical methods for controlling uranium production, physics and technology of gas discharge, optics and spectroscopy, abnormal dispersion in metal vapors, spectroscopy and the combustion theory, spectrum analysis of ores and minerals, photographic methods for quantitative spectrum analysis of metals and alloys, spectral determination of the hydrogen content of metals by means of isotopes, tables, and atlases of spectral lines, spark spectrographic analysis, statistical study of variation in the parameters of calibration curves, determination of traces of metals, spectrum analysis in metallurgy, thermochemistry in metallurgy, and principles and practice of spectrochemical analysis.

Card 2/31

Filimonov, L.N., and N.M. Kagan. Spectral Analytic Determination of Carbon and Hydrogen in Titanium 222

Outerman, S.A., and Ya.D. Raykhbaum. Use of Radioactive Indicators in Spark Discharge Studies 250

Mal'tsev, N.G., Ye.A. Ptitsyna, and K.I. Taganov. Some Constant Physical Characteristics of Contact Electric Spark Sampling in Spectrum Analysis 252

Borbat, A.M., N.G. Mal'tsev, and K.I. Taganov. Effect of Tertiary Components in Spectrum Analysis With Electric Sampling 255

Shayevich, A.B. Effect of Alloy Structure on the Results of Spectrum Analysis of Cast Iron 257

Podmoshenskiy, I.V., and G.N. Lapina. Metal Electrode Erosion in a Low-voltage Spark 262

Filimonov, L.N. Relation of the Composition of the Sample to the Emission Cloud in Light Sources for Spectrum Analysis 265

Card 16/31

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

FILIMONOV, L.N.; EISEN, A.I.

Quantitative spectrochemical analysis of admixtures in binary brasses. Zav.lab.22 no.4:426-435 '56. (MLRA 9:7)

1.Institut "Giprotsvetmetobrabotka".
(Brass--Spectra)

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Filimonov L.N.

18(6) PHASE I BOOK EXPLOITATION SOV/1754

Vsesoyuznoye soveshchaniye spektroskopistov-analitikov tsvetnoy metallurgii. 2d, Moscow, 1955

Materialy... (Papers Read at the Second All-Union Conference of Analytical Spectroscopists in Nonferrous Metallurgy) Moscow, Nauchno-tekhn. Ob-vo tsvetnoy metallurgii, 1957. 128 p. 1,000 copies printed.

Sponsoring Agency: Nauchno-tekhnicheskoye obshchestvo tsvetnoy metallurgii.

Editorial Board: N.N. Britske, A.N. Bronshteyn, N.I. Matveyev, V.V. Polyakova, L.N. Filimonov; Tech. Ed.: N.S. Trusov.

PURPOSE: This book is intended for analytical chemists in the field of nonferrous metallurgy.

COVERAGE: This is a collection of papers dealing with the use of the spectroscopic method as practiced in the USSR for the quantitative determination of various elements in the field of nonferrous metallurgy. Experience gained at several important Soviet metallurgical plants is described. In addition to practical application of the method, a number of papers deal with problems in the production of standard samples. For a brief account of the state of affairs as of 1955 in this field in the USSR, see Table of Contents, first article. There are a few scattered references, both Soviet and non-Soviet.

2. Britske, N.E., A.I. Bronshteyn, Ye.B. Gerfan, and L.M. Ivantsov [Gintsvetmet-State Institute for Non Ferrous Metals]. Quantitative Determination of Impurities in Molybdenum 9

3. Filimonov, L.N., N.A. Mikulov, and Z. A. Zakharova [Giprotsvetmetobrabotka-State Planning and Research Institute for the Processing of Nonferrous Metals]. Spectro-analytic Determination of Impurities in Tungsten and Its Compounds 19

4. Britske, N.E. Spectroscopic Analysis of Slags 29

5. [illegible], Ya. A. [VNIITsvetMet-All-Union Scientific Research Institute for Nonferrous Metals, Ust'-Kamenogorsk]. Spectroscopic Analysis of Lead-smelting Slags 34

6. Frenkel', O.D. [Unipromed'-Ukrainian Scientific Research Institute for the Design and Planning of Copper Industry Plants]. Quantitative Determination of Copper and Calcium in Waste Slags in the Copper Smelting Industry 39

7. Rozenbaum, Ye.B. [Giredmet-State Scientific Research Institute for Rare Metals, Irkutsk]. Spectroscopic Analysis in the Concentration of Rare-Metal Ores 46

8. Balakireva, M.I. [Uralmekhanobr-Scientific Research Institute for Mechanical Treatment of Minerals, Urals Branch]. Semiquantitative Spectroscopic Analysis of Ores as Practiced at the "Uralmekhanobr" Institute 50

9. Filimonov, L.N. [Giprotsvetmetobrabotka]. Some questions of Principle and Organization in the Production of Standard Samples for Spectroscopic Analysis 53

10. Filimonov, L.N., and A.I. Kozan [Giprotsvetmetobrabotka]. Production of [illegible] Samples at the Giprotsvetmetobrabotka Institute 61

11. Azhazhil'yan, N.A. [VNIITsvetMet, Ust'-Kamenogorsk]. Preparation of Standard Samples of the Spectroscopic Analysis of Lead in the Process of Refining 73

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SOV/137-58-9-20309

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 313 (USSR)

AUTHORS: Filimonov, L.N., Essen, A.I.

TITLE: Quantitative Spectrochemical Determination of Impurities in Binary Brasses (Kolichestvennoye spektrokhimicheskoye opredeleniye primesey v dvoynykh latunyakh)

PERIODICAL: Tr. Gos. n.-i. i proyektn. in-ta po obrabotke tsvetn. met., 1957, Nr 16, pp 127-148

ABSTRACT: Bibliographic entry. Ref. RZhMet, Nr 11, abstract 13147

1. Brass--Impurities 2. Brass--Spectrographic analysis 3. Chemical impurities--Determination

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F, L, Filimonov, L. N.

137-58-4-8569

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 322 (USSR)

AUTHORS: Filimonov, L.N., Essen, A.I.

TITLE: Spectrochemical Determination of Lithium in Copper (Spektrokhimicheskoye opredeleniye litiya v medi)

PERIODICAL: Tr. Gos. n.-i. i proyektn. in-ta po obrabotke tsvetn. met., 1957, Nr 16, pp 149-156

ABSTRACT: The object of the work was an investigation of the possibility of identification (of Lithium? Transl. Ed.) by means of the 6707, 844, 3232.61, and 6103.642 lines under various regimes of globular arcs in the 0.0005-0.06% concentration interval. Eight Li-Cu alloys in all were prepared. The alloys were made by mixing titrated solutions of the necessary strength, evaporating them, annealing them at 600°C and pressing the briquets in a steel mold. The light source was a 1.5-5.8 amp dc arc fed from a stabilized source. The counterelectrode was a rod of pure Cu, 8 mm in diameter, brought to a truncated conical point, the radius of curvature of the apex being 1.5 mm. The arc length was held constant (3.5 mm) by means of a projection lens providing 25-fold enlargement on the screen. A Dietert

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137-58-4-8569

Spectrochemical Determination of Lithium in Copper

spectrograph with 7 angstrom/mm dispersion and a 60 micron aperture was employed. Lines of anneal were plotted for the plate and cathode and, in view of the high stability of the plate melt, graduated graphs of plate briquets weighing 0.5 g were drawn. The possibility of identifying 0.0005-0.008 concentrations of Li in Cu by means of the 6103.64 line was established. At higher concentrations it is desirable to dilute the pure Cu specimen by dissolving it and to employ the 3232.6 Li line and the melt at the anode.

A. F.

1. Lithium--Determination 2. Copper-lithium alloys--Spectrographic analysis

Card 2/2

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Filimonov, L.N.

4E4j

4E2c

2934. Spectrographic determination of nitrogen and oxygen in [illegible]. N. M. Kagan and L. N. Filimonov ('Giprotsvetmetobrabotka' Inst.). Zavod. Lab., 1957, 23 (2), 185-187.—The method described by Sventitskii *et al.* (*Anal. Abstr.*, 1956, 3, 3568) is found to be unsatisfactory. G. S. SMITH

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

Filimonov, L.N.

AUTHORS: Filimonov, L.N., Essen, A.I., Zakharova, Z.A. 32-11-18/60

TITLE: The Determination of Admixtures in Titanium by Means of Spectral Analysis (Spektral'no-analiticheskoye opredeleniye primesey v titane)

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp.1313-1315 (USSR)

ABSTRACT: This paper investigates the problem of determining 12 different metal admixtures in the concentrations of 0.01-0.2% in technically pure titanium, from which various objects are manufactured (such as rods, tubes, blades, etc.). Though publications dealing with this subject were available [ref.1,2,3,4,5,6], an improved method for the spectro-analysis of titanium was recommended. A globule arc lamp was used as a light source. Such trouble as difficult meltability, low electric conductivity, and an inclination of spraying the titanium oxides in the arc lamp was dealt with by mixing the titanium oxides with other elements. In the present case titanium dioxide was mixed with copper dioxide and pressed into briquets (0.5 g). In the same manner as the corresponding standard gauged samples were prepared, and for copper, nickel, cobalt, iron, manganese, and magnesium the oxide powders were obtained by synthetical means, i.e. by dissolution of the pure elements in nitric acid and vaporization, or, in the case of

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32-11-18/60

The Determination of Admixtures in Titanium by Means of Spectral Analysis

TiO_2, SiO_2, WO_3, Al_2O_3, Cr_2O_3, MoO_3, V_2O_5, Nb_2O_5 by mechanical mixing. The briquets produced were switched on as a cathode in the arc lamp on a graphite carrier. Exposure took place at the moment when the briquet was molten, the arc provided a uniform light on the basis of the drops of the molten sample. The spectrograph and a diffraction net supplied by the firm of Ditert were used. There are 1 figure, 1 table, and 13 references, 8 of which are Slavic.

ASSOCIATION: The "Giprotsvetmetobrabotka" Institute (Institute for Nonferrous Metals) (Institut "Giprotsvetmetobrabotka")

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

Filimonov, L.N.

53-2-8/9

AUTHORS: Koritskiy, V.G., Nalimov, V.V., Nedler, V.V., Payskiy, S.M. Rusanov, A.K., Filimonov, L.N.

TITLE: A Short Survey of the Development of the Emission Spectral Analysis in the USSR (Kratkiy ocherk razvitiya emissionnogo spektral'nogo analiza v SSSR)

PERIODICAL: Uspekhi Fiz. Nauk, 1957, Vol. 62, Nr 2, pp. 435 - 454 (USSR)

ABSTRACT: A voluminous investigation of the flame spectra from a Bessemer converter (bessemerovskiy konvertor), was published in 1876 by D.K. Chernov. D.K. Chernov furthermore found several interesting laws with respect to the relation between the flame spectrum and certain stages of the Bessemer proces.(bessemerovskiy protsess). All these laws, however, were of an entirely qualitative character. First publications on spectroscopy were published in the Soviet Union at the end of the twenties. 1931 S.G. Landsberg turned his interest towards practical spectral analysis, and together with his students he started the systematic elaboration of the practical applications of the emission spectral analysis. From 1931 to 1950 about 1000 investigations were published in the scientific journals of the Soviet Union, and this number doubled up to the present. This indicates a

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A Short Survey of the Development of the Emission Spectral Analysis in the USSR

very wide range of the research dealing with this subject. The majority of this papers were published in the journal "Zavodnaya laboratoriya" (Plant Laboratory) and "Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya". The first section of this survey deals with apparatus for the spectral analysis. In the machine-building industry spectral analysis is utilized for the control of the casting of iron and non-ferrous metals as well as for the control of semifinished products, single parts and finished production parts. By these means the metals delivered to the plants are also controlled. Spectral analysis was employed to a special degree in the automobile plant "ZIL". In iron metallurgy the spectral analysis is used for the express-analysis of steel during its production and for the final analysis, the so-called "marking analysis". Further possibilities of application in iron metallurgy are enumerated. In the metallurgy of non-ferrous metals and in iron metallurgy as well, the semi quantitative methods of analysis are employed with success. The spectral analysis also makes possible a fast and practically simultaneous determination of the chemical elements contained in the mineral raw materials. There are 13 figures, 3 tables and 75 Slavic references.

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A Short Survey of the Development of the Emission Spectral Analysis in the USSR

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FILIMONOV, L.N.; MAKULOV, N.A.; ZAKHAROVA, Z.A.

Determination of impurities in pure tungsten preparations.
Fiz.sbor. no.4:40-42 '58. (MIRA 12:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut obrabotki tsvetnykh metallov (Giprotsvetmetobrabotka).
(Tungsten--Spectra)

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Filimonov, L.N.

66355
SOV/81-59-19-67721

5.5310

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 19, p 124 (USSR)

AUTHORS: Filimonov, L.N., Kagan, N.M.

TITLE: On the Spectral-Analytic Determination of Carbon and Hydrogen in Titanium

PERIODICAL: Fiz. sb. L'vovsk. un-t, 1958, Nr 4(9), pp 222 - 225

ABSTRACT: The possibility of determining 0.01 - 1% of C in titanium by the line 2296.89 A has been studied. The spectra are excited in the discharge of a high-voltage condensed spark from a Dietert generator with a Cu-electrode, sharpened to a truncated cone with an area of 1 mm in diameter; the interelectrode gap is adjusted equal to 1.25 - 1.5 mm. Synthetic standards are employed made of briquetted and calcined mixtures of magnesium-thermal titanium and Ti carbide powders. Surface pollutions with C-containing substances are sources of errors. Preliminary burning eliminates the pollutions in an O_2 atmosphere or in mixtures of other gases with O_2, but in pure He and N_2 even longlasting burning does not eliminate the surface pollutions. The absolute sensitivity of C determination is less in an O_2 medium and increases on adding N_2 or He to it;

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SOV/81-59-19-67721

On the Spectral-Analytic Determination of Carbon and Hydrogen in Titanium

at an addition of $>$ 50% the sensitivity does not increase and the intensity of the spectrum decreases. In the analysis in an air medium the calibration graph starts bending at C concentrations of $<$ 0.1% in the sample, but in O_2 and in mixtures of O_2 with a three-fold volume of N_2 or He the linearity of the graph is maintained up to 0.05%. H in titanium is determined by the line 6562.85 A at the excitation of the spectra by a pulse discharge with a capacitance of 1,000 μ farad, an inductance of 0.05 μ henry and a spark gap of 0.3 mm. The analysis is carried out on a device with a reverse linear dispersion of 500 A/mm in the region of the H line which is resolved from the line C 6578.03 A at a slit width of 0.005 mm. The spectra of the samples of the iodide, calcium-thermal and magnesium-thermal titanium with equal H contents ($\sim$ 0.012%) show a strong change in the intensity of the background of the spectrum (up to 4 times), which increases with the increasing content of the admixtures. Considerations on the manifestation of the effects of third elements on the analysis results are expressed.

N. Sventitskiy

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FILIMONOV, L.N.

Relationship between the composition of a sample and the emitting cloud in light sources for spectrum analysis. Fiz.sbor. no.4:265-276 '58. (MIRA 12:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut obrabotki tsvetnykh metallov "Giprotsvetmetobrabotka."
(Spectrum analysis)

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

AUTHORS: Filimonov, L.N., Khandros, V.O. 32-24-6-18/44

TITLE: Photoelectric Spectral Analysis in Foreign Countries (Fotoelektricheskiy spektral'nyy analiz za rubezhom), Survey (Obzor)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pp 712-723 (USSR)

ABSTRACT: The present survey was compiled according to data obtained from foreign countries and deals mainly with the analysis of nonferrous metals and alloys. First, the working principle and the classification of the apparatus is explained on the basis of a graph and calibration diagrams. As examples, a quantometer produced by the firm of ARL, USA, a 30-channel polychromator produced by the firm of Hilger, England, and a quantometer produced by the firm of Shimadsu, Japan, and several others are described; several illustrations and explanations are given. Several concrete examples of analytical tasks performed by means of photoelectric devices are mentioned and various data are given in form of tables. A special table contains data concerning the accuracy of analysis as well as a graphically carried out comparison of the error limit determined by the chemical method, spectral analysis with photographic recording, and photoelectric recording. A survey is given of the rapid-

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ity and efficacy of analysis, and in this connection auxiliary operations and their mechanization are discussed. The application of photoelectric devices in various branches of industry and their technical and economic effect is also mentioned, on which occasion it is said that the staff of analysts can be reduced and the quality of production can be improved; in this connection the pioneer work performed in this field by the Midland Magnesite Works in the USA is specially mentioned. Following the example of foreign firms, which have special offices imparting advice with respect to construction and assembly, similar organizations ought to be established in the USSR. In conclusion it is stated that there are good prospects for the solution of numerous problems as e.g., the application of a horizontal light arc with an air-blowing device and the application of photoelectric apparatus for the analysis of iron, minerals, etc. Moreover, several alterations and improved modes of application are suggested. There are 9 figures, 6 tables, and 39 references, 6 of which are Soviet.

1. Alloys--Analysis 2. Spectrum analyzers--Equipment
3. Spectrum analyzers--Effectiveness 4. Photoelectric equipment --Applications

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5(4) SOV/32-25-4-1/71

AUTHORS: Koritskiy, V. G., Polyakova, V. V., Filimonov, L. N.

TITLE: Standards for the Spectrum Analysis (Ob etalonakh dlya spektral'nogo analiza)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 387-390 (USSR)

ABSTRACT: The problem of a unification in the manufacture of standard samples (SS) for the spectrum analysis arises in the USSR. In the present paper it is pointed out that at present the only institution especially charged with this problem is the Laboratoriya standartnykh obraztsov Ural'skogo instituta chernykh metallov (LSO) (Laboratory for Standard Samples of the Ural Institute of Iron Metals), and that there only SS for the analyses of iron metals are being made. For the manufacture of SS for the analyses of other metals there are at present about 15 different organizations where this work is done, for the major part in an unorganized way. In particular, it is suggested to reorganize the LSO to the Institut spektral'nykh etalonov i khimicheskikh normaley (Institute for Spectral Standards and Chemical Standards). For the more special analyses of pure metals, for instance, the institutes of the proper branches of in-

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dustry, such as Gipronikel', Giprotsmo, Gintsvetmet, VNIITsvetmet, VAMI, TsNIIolovo etc should be appertaining. An example for passing from the usual small-scale manufacture of SS for the "proper use" to a common manufacture of SS was already given by a firm which prepared a series of 50 high-quality SS of the bronze Br. AZh 9-4. A suggestion for an extended centralization of the manufacture of SS was also made by the Kamensk-Ural'skiy zavod obrabotki tsvetnykh metallov (Kamensk-Ural Works for the Processing of Nonferrous Metals). Good SS for copper alloys MTs 2 are issued by the Kaluzhskiy turbinniy zavod (Kaluga Turbine Works). Some shortcomings of the present manufacture of SS are pointed out, and it is stated that in the planning and execution of a controlled manufacture of SS an important part is played by the works laboratories, the technical departments of the firms, the administration of the Councils of Economy, and particularly the Komitet standartov (Committee of Standards).

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5 (2)

AUTHORS: Filimonov, L. N., Polyakova, V. V. SOV/32-25-8-27/44

TITLE: On Standard Samples for Spectrum Analysis

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 972-980 (USSR)

ABSTRACT: The All-Union standard samples (SS) for spectrum analysis of steels, cast iron and iron alloys as well as those (SS) for the chemical analysis are now being delivered. There is a list of the (SS) of metals, alloys, ores and the probassing products (including the type designations) (Tables 1-8). The (SS) prepared by the Laboratoriya standartnykh obraztsov Ural'skogo instituta chernykh metallov (LSO) (Laboratory of the Standard Samples of the Ural Iron-metal Institute (LSO)) are not listed, as they have been listed before (Ref 1). The article contains some data on the planned preparation of new (SS) (Tables 1, 3, 4, 8). The above-mentioned tables give the installations in which the (SS) are being prepared, and the following are especially mentioned: Gintsvetmet - Gosudarstvennyy institut tsvetnykh metallov (Moskva) (Gintsvetmet - State Institute of Non-ferrous Metals (Moscow)), Vniitsvetmet - Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov (g. Ust'-Kamenogorsk) (Vniitsvetmet - All-Union Scientific Research Institute of Non-ferrous Metals (City

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On Standard Samples for Spectrum Analysis SOV/32-25-8-27/44

Ust'-Kamenogorsk)), IONKh AN USSR - Institut obshchey neorganicheskoy khimii AN USSR (Labboratorii v Odesse) (IONKh AS UkrSSR - Institute of General Inorganic Chemistry of the AS UkrSSR (Laboratories in Odessa)), Tsniiolovo, Gipronikel', Giprotsvetmetobrabotka, VAMI - Vsesoyuznyy alyuminiyevo-magniyevyy institut (VAMI - All-Union Aluminum-magnesium Institute), Komissiya po spektroskopii pri IFM - Komissiya po spektroskopii pri Institute fiziki metallov, g. Sverdlovsk (Commission for Spectroscopy at the IFM - Commission for Spectroscopy at the Institute of Metalphysics, City: Sverdlovsk), VIAM, Irkutskiy gosudarstvennyy institut redkikh i malykh metallov (Irkutsk State Institute of Rare and Minor Metals). The article contains a list of the (SS) for rare metals and its ores, given in 7 groups, to be prepared by the IONKh of the AS UkrSSR, and there also is an explanation of the preparation method and the testing of the (SS). There follows a description of the preparation of the material for producing the (SS) and some examples. A separate paragraph treats the determination of the components of the (SS). There are 8 tables and 30 references, 29 of which are Soviet.

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5 (2), 24 (7)
AUTHOR: Filimonov, L. N. SOV/32-25-8-14/44

TITLE: Methods for Spectrum Analysis of Metals With a High Degree of Purity. A Survey

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 936 - 946 (USSR)

ABSTRACT: The author investigated the sensitivity (S) of several spectrum analysis (SA) methods developed and applied at present in the USSR for the analysis of pure metals and their alloys. As an example for a (SA) in which the source of light is a spark or arc and in which the sample is a metal sample, he gives the results of determination of impurities in Cu, Ag, Sn, Pb, Au, and Bi (Table 1). The sensitivity of these methods is described as 10^{-3} - 10^{-4}%. The data concerning Cu-, Sb-, and Ti-powder in briquette shape give the (S) of (SA) as 10^{-3} - 10^{-4}% (Table 2). The (SA) on drops of a melt (globe spark - arc) showed a (S) of the above order of magnitude, as is shown in the (SA) of melts of the oxides of Cu, Ni, Co, and Ti (Table 3). The efficiency of this kind of analysis was confirmed by the investigations of V. P. Khrapay and G. M. Gusev (Ref 18). The discharge with a hollow

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cathode (HC) gives a high (S) at the determination of impurities according to M. P. Chayka, Yu. I. Korovin, and L. V. Lipis (Refs 21, 54), as for example the impurity of F and Cl in thorium- or uranium oxides (Table 8). The most generally used method is the burning of the sample in the arc between the carbon electrodes at the analysis of pure metals. Thus, a (S) of $10^{-3} - 10^{-4}$% (or $10^{-2} - 10^{-5}$%) can be attained as is shown in the analysis results of 53 impurities to 32 substances (Table 4). At these (SA) such methods can also be used the thermo-chemical reactions of which take place in the carbon cathode and fragile compounds are being formed (Table 5). (The description of these methods was taken from the book of A. K. Rusanov.) The method of direct evaporation is especially efficient in the determination of substances having multiline spectra (Table 7). The article contains a comparison of the (3) in the method of direct evaporation and that of fractionating-distillation in the arc and the (HC) (Table 8). The method of the evaporation and the distillation of the basic substance is based on the same principle as that of the direct evaporation method, but the first

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is more sensitive (Table 9). The combination methods based on chemical separation of the impurities from the basic substance and the reversed evaporation method have approximately the same (S) as is demonstrated in the admixture of Sn, Si, Sr, and Cr, Zn, Sb, and Bi etc (Table 10). The (SA) for the determination of gases and metaloids in metals was developed in the last few years and their (S) is satisfactory as is proved by determination of hydrogen and carbon in a series of metals (Table 11). The flame-photometrical method is mainly applied in the determination of alkali- and alkaline-earth metals, for example for Li, Zr, and Re (Table 12). The article contains one example of the determination of the elements of rare earths and their number in La made by using the adsorption spectra (Table 13). There are 13 tables and 67 references, 62 of which are Soviet.

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FILIMONOV, L.N.; MAKULOV, N.A.; ZAKHAROVA, Z.A.

Determination by spectrum analysis of impurities in tungsten preparations. Trudy Kom. anal. khim. 12:226-235 '60. (MIRA 13:8)
(Tungsten--Analysis) (Spectrum-analysis)

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FILIMONOV, L.N., kand.tekhn.nauk

"Practical manual on spectral analysis" V.S.Burakov, A.A.Ankovskii. Reviewed by L.N.Filimonov. Zav.lab. 28 no.1:128 '62. (MIRA 15:2)
(Spectrum analysis)
(Burakov, V.S.)
(Ankovskiĭ, A.A.)

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FILIMONOV, L.N.

New means for improving the reproducibility and the correctness of the spectral determination of the principal components of alloys. Zav.lab. 29 no.8:930-935 '63. (MIRA 16:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov.
(Alloys—Analysis) (Spectrum analysis)

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FILIMONOV, L.V.

Barriers controlled from block posts. Put' i put. khoz. no.9:25 S '58. (MIRA 11:9)

1. Inzhener distantsii, st. Vyazemskaya Dal'nevostochnoy dorogi.
(Railroads--Signaling)

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Filimonov, L.V.

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Moscow. Vyssheye tekhnicheskoye uchilishche imeni N. Ye. Baumana. Kafedra "Metallorezhushchie stanki i avtomaty"

Voprosy avtomatostroyeniya [sbornik] (Problems in the Construction of Automatic Machine Tools [Collection of Articles]) Moscow, Mashgiz, 1959. 213 p. 3,200 copies printed.

Ed.: G.A. Shaumyan, Doctor of Technical Sciences, Professor; Ed. of Publishing House: A.F. Balandin; Tech. Ed.: A.F. Uvarova; Managing Ed. for Literature on Metalworking and Tool Making (Mashgiz): R.D. Beyzel'man, Engineer.

PURPOSE: This collection of articles is intended for engineers and technicians in machine-tool manufacturing.

COVERAGE: This collection of articles deals with theoretical and experimental investigations on the functioning of transmission mechanisms of single-spindle bar-stock automatic machine tools, the kinematic and dynamic design of cam mechanisms, and machining ac-

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curacy of bar-stock automatic machine tools. Investigation of relieving lathes by means of wire resistance gages, and the construction of instruments for determining the rigidity of automatic machine tools are discussed. No personalities are mentioned. References follow several of the articles.

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Shaumyan, G.A. [Doctor of Technical Sciences, Professor]. Experience of Innovators in Manufacture and the Problems of the Science of Machinery 3
The author points out innovations in various fields and stresses the necessity of developing the science of machinery in close contact with plant practices.

Kamyshnyy, N.I. [Candidate of Technical Sciences, Docent]. G.M. Golovin -- Initiator of Machine Tool Kinematics 13
The essentials of G.M. Golovin's method of machine tool kinematics, his general formula for designing machine tools, and the dividing head of his design are presented.

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Zagorodnikov, A.Ya. [Candidate of Technical Sciences, Docent]. Investigation of Transmission Mechanisms of Single-spindle Automatic Lathes 25

Transmission mechanisms (gearing between cam and operating unit) of single-spindle automatic lathes are reviewed. Bellows and ball-type transmission mechanisms are kinematically analyzed. The article describes a unit for testing transmission mechanisms designed by the author, automatic lathes with ball-type control, and GASh-11 and GASh-12 transmission mechanisms designed at MUTU.

Pronikov, A.S. [Doctor of Technical Sciences, Professor]. Methods for the Kinematic and Dynamic Design of Cam Mechanisms for Automatic Machine Tools 71

Types of cam mechanisms are described, basic formulas derived, and nomograms presented for their kinematic design. Methods for determining geometric parameters of typical cam mechanisms and review problems of kinematic analysis are given. The dynamic interpretation of formulas for kinematic analysis and design methods for maximum effectiveness of automatic machine tools are also pre-

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sented.

Filimonov, L.V. [Engineer], (Deceased). Investigation of Machinery Accuracy of Bar-stock Form-cutting and Cut-off Automatic Lathes 123
Factors determining machining accuracy of an automatic machine tool are discussed. The machine, the tool, and the machined part are treated as a whole elastic system, and the effect of errors in this system (especially between chuck and part) on the machining accuracy is analyzed in detail.

Kuznetsov, M.M. [Candidate of Technical Sciences, Docent]. Investigation of Relieving Lathes During Operation by Use of Wire Resistance Gages 183
Forces active during operation, their distribution, and vibrations of the tool, arbor, ways, and frame are discussed. Some special features in construction and operation are analyzed.

Dal'skiy, A.M. [Candidate of Technical Sciences, Docent]. Instruments for Determining Rigidity of Metal-cutting Automatic Machine Tools 207
An instrument for simultaneous loading of elements of conventional machine tools with simulated cutting forces was built

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at Leningradskiy politekhnicheskiy institut imeni Kalinina (Leningrad Polytechnical Institute imeni Kalinin) and used successfully to determine the rigidity of conventional lathes. A special dynamometer for the same purpose for use on the model 1112 automatic lathe is also discussed. Application of this dynamometer is shown.

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FILIMONOV, M.

Procedures for fuel filling. Avt. transp. 42 no.9:26-27 S '64.
(MIRA 17:11)

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FILIMONOV, M. A.

FILIMONOV, M. A. -- "The Problem of the Stability and Deformation Calculation of Single-Story Regular Skeletons." Min Higher Education USSR. Novocherkassk, 1955. (Dissertation for the Degree of Candidate in Technical Sciences).

So: Knizhnaya letopis', No 8, 1956, pp 97-103

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FILIMONOV, M.A.

Spatial stability of flat frames. Trudy NPI 91:83-90 '60.
(MIRA 14:5)

(Structural frames)

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FILCHENOV, M. A.

Grasses

Cleansing, sorting and drying of grass seeds. Korm. baza, No. 11, 1951

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

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FILIMONOV, M. A.

"Value of Annual Grass Seeds for Sowing," Korm baza, 3, No.3, 1952

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1. FILIPOV, M. A.

2. USSR (600)

4. Legumes

7. Characteristics of swelling of live and dead seeds of leguminous grasses. Dokl. AN SSSR 84 no. 2, 1952.
Vsesoyuznyy Nauchno-Issledovatel'skiy Institut Kormov im. V. R. Vil'yamsa

9. Monthly List of Russian Accessions. Library of Congress, September 1952. UNCLASSIFIED. rcd. 4 Feb. 1952.

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Improving the seeding qualities of forage grass seeds. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1953. 166 p.

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FILIMONOV, M.A.

Characteristics of germination of seeds of grassy and leguminous forage crops. Biul.MOIP. Otd.biol. 59 no.2:33-38 Mr-Ap '54. (MLRA 7:6)
(Germination)

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FILIMONOV, M.A.

Effect of soil moisture on the germination of forage crop seeds.
Biul. MOIP. Otd. biol. 60 no.2:79-89 Mr-Ap '55. (MLRA 8:7)
(Soil moisture) (Germination)

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USSR / Cultivated Plants. Fodder Crops. M-5

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58639

Author : Filimonov, M. A.
Inst : All-Union Scientific-Research Institute
Title : Germination and Vitality of Seeds of Perennial Leguminous Grasses According to Cultivation Zones

Orig Pub : Byul. nauchno-tekhn. inform. Vses. n.-i. in-t, 1957, No 2-3, 53-59

Abstract : Data supplied by the seed-control laboratories about the germination of seeds of alfalfa, red clover, esparsette and sweet clover, according to basic soil-climatic zones of the USSR for 1950-1952 are given. A high content of so-called hard seeds in the seed material was noticed in many zones (Siberia, Ural region, Centrum, North West, South East). Counting as viable, the author

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USSR / Cultivated Plants. Fodder Crops. M-5

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58639

indicates the possibility of a considerable increase in germination of seeds by means of scarification. -- B. T. Konik

Card 2/2

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COUNTRY : USSR M

CATEGORY : CULTIVATED PLANTS. Fodder Grasses and Roots.

ABS. JOUR. : RZH ZHUR - BIOLOGIYA, NO. 4, 1959, No. [illegible]

AUTHOR : Filimonov, N.A.

INST. : Inst. of Fodders

TITLE : Sowing Qualities of Collapsed Seeds of Timothy Grass and Brome

ORIG. PUB. : Selektsiya i semenovodstvo., 1958, No.1, 59-60

ABSTRACT : The laboratory of the Institute of Fodders [illegible] investigated the [illegible] germination and growing energy of collapsed timothy grass and brome seeds. In laboratory conditions the germination of collapsed timothy grass seeds varied from [illegible] to [illegible], of smooth brome from [illegible] to [illegible]; in the field respectively from 40 to [illegible] and [illegible]. In [illegible] specimens of timothy grass ([illegible] out of [illegible]) and [illegible] brome ([illegible] out of [illegible]), the germination of collapsed seeds was below standard.
-- Ye.A. Okorokova

CARD : 1/1

99

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

FILIMONOV, M.A.

Swelling and viability of seeds [with summary in English].
Biul.MOIP. Otd.biol. 63 no.5:41-51 S-O '58 (MIRA 11:12)
(SEEDS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4"

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413030006-4

FILIMONOV, M.A.

Seed quality requirements of wild perennial forage grasses.
Trudy Bot. inst. Ser. 6 no.7:248-253 '59. (MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov im.
V.R.Vil'yamsa, Lugovaya.
(Grasses) (Seeds)

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FILIMONOV, M.I.

The Second All-Union Conference on Rhenium, sponsored by the Institute of Metallurgy imeni A. A. Baykov, Academy of Sciences USSR, and the State Institute of Rare Metals, was held in Moscow 19-21 November 1962. A total of 335 representatives from 83 scientific institutions and industrial establishments participated. Among the reports presented were the following: autoclave extraction of Re from Cu concentrates (A. P. Zelikman and A. A. Peredereyev); Re extraction from the gaseous phase (V. P. Savrayev and N. L. Peysakhov); recovery of Re by sorption and ion interchange (V. I. Bibikova, V. V. Il'ichenko, K. B. Lebedev, G. Sh. Tyurekhodzhayeva, V. V. Yermilov, Ye. S. Raimbekov, and M. I. Filimonov); production of carbonyl Re (A. A. Ginzburg); electrolytic production of high-purity Re and electroplating with Re (Z. M. Sominskaya and A. A. Nikitina); Re coatings on refractory metals produced by thermal dissociation of Re chlorides (A. N. Zelikman and N. V. Baryshnikov); plastic deformation and thermomechanical treatment of Re (V. I. Karavaytsev and Yu. A. Sokolov); growth of Re single crystals and effect of O_2 on their properties (Ye. M. Savitskiy and G. Ye. Chuprikov); Re-Mo, Re-W, and Re-precious-metal alloys (Ye. M. Savitskiy, M. A. Tylkina, and K. B. Povarova); synthesis of Re nitrides, silicides, phosphides, and selenides (G. V. Samsonov, V. A. Obolonchik, and V. S. Neshpor); weldability of Re-Mo and Re-W alloys (V. V. D'yachenko, B. P. Morozov, and G. N. Klebanov); new fields of application for Re and Re alloys (M. A. Tylkina and Ye. M. Savitskiy); and Re-Mo alloy for thermocouples (S. K. Danishevskiy, Yu. A. Kocherzhinskiy, and G. B. Lapp). [WW]

Tsvetnyye metally, no. 4, Apr 1963, pp 92-93

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