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ACC NR: AR6032144

concentration in the Southern Hemipshere is less than in the Northern Hemisphere. The daily rate of ozone concentration in middle latitudes has a maximum at noon and a minimum at night during anticyclonic weather conditions. In polar regions maximum concentration occurs in the morning and minimum in the evening. Changes in the total amount of ozone in the atmosphere and its concentration in the ground layer occur at a parallel rate. Measurement in the Moscow region showed that the correlation coefficient of the total quantity of ozone to its concentration in the ground layer of the atmosphere was found to be equal to 0.6—0.7. This result indicates that circulation processes occur in the ozone layer in the troposphere. Cool fronts favor an increase of ozone and warm fronts a decrease. Downwelling atmospheric masses increase both the total content of ozone and its concentration in the ground layer. Upwelling masses have the opposite effect. Maxima and minima of ozone concentration are given for various levels in the atmosphere.

SUB CODE: 04/ SUBM DATE: none

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

L 24368-66 EWT(1)/FCC/EWA(h) GW

ACC NR: AT6005151 SOURCE CODE: UR/2789/65/000/066/0019/0050 38

AUTHOR: Britayev, A.S. B+1

ORG: Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya)

TITLE: Ozone in the troposphere

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 66, 1965. Aerosinopticheskiye i aerologicheskiye issledovaniya (Aerosynoptic and aerological research), 19-50

TOPIC TAGS: ozone, formation heat, troposphere, atmospheric sounding, atmospheric physics

ABSTRACT: On the basis of observational data on the concentration of ozone in the troposphere from Soviet and foreign literature and the observations of the present author, this article establishes some characteristics of tropospheric ozone. These include the amount of ozone in the troposphere, the annual and diurnal variations in concentration, vertical distribution, and concentration variations. Particular attention is given to the changes in ozone concentration in the troposphere in relation to the meteorologic

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L 24368-66

ACC NR: AT6005151

processes and the question on the reasons for concentration variations. In 1960 — 1961 the author made aerological measurements of ozone concentration in the atmosphere up to an altitude of 7 km, over Moscow, Rostov-on-Don, and Vyaz'ma. The data discussed show that the amount of energy used for the formation of one gram-mole of ozone depends substantially on the nature of the formation phenomena and their relationships, i.e., on conditions in the environment. The amount of energy generated during the decomposition of ozone is also dependent on the environmental conditions, particularly reaction products. The maximum amount of energy generated during the decomposition of ozone with the formation of diatomic oxygen is about 69 kcal/mole:

$$O_3 + O_3 \rightarrow 3O_2 + 69$$

It is noted that only a part of this energy may be converted to thermal energy. However, if it is assumed that this quantity is the initial quantity in the evaluation of the amount of energy generated into the atmosphere as a result of the decomposition of gaseous ozone, and that, according to H.K. Paetzold, in the lower layers of the atmosphere about 10^9T of ozone is decomposed in a year, then it is easy to calculate that in a year the atmosphere will receive a total of 10^{26} erg. Although the amount of energy is

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L 24368-66

ACC NR: AT6005151

negligible compared to the energy received by the Earth from the Sun, the heating of the atmosphere as a result of the decomposition of ozone should, possibly, be taken into consideration in the geophysical study of the history of Earth. In conclusion, the author states that the data show that there are local sources and drainage regions of ozone in the troposphere, related, particularly, to the action of atmospheric electricity. The variations of ozone concentrations in the troposphere are caused not only by convective and turbulent transfer of ozone from the higher layers of the atmosphere, but also due to processes in the troposphere itself. Orig. art. has: 26 formulas, 10 figures, and 10 tables.

SUB CODE: 04 / SUBM DATE: none / ORIG REF: 026 / OTH REF: 073

Card 3/3 Fv

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

L 38426-66 EWT(1)/EWT(m)/FCC/EWP(t)/ETI IJP(c) GW/JD

ACC NR: AP6024383 SOURCE CODE: UR/0050/66/000/007/0032/0034

AUTHOR: Britayev, A. S. (Candidate of physico-mathematical sciences); Iczenas, V. A.

ORG: Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya)

TITLE: Ozonosphere sounding and several results of ozone distribution measurements

SOURCE: Meteorologiya i gidrologiya, no. 7, 1966, 32-34

TOPIC TAGS: ozone, ~~concentration~~, ultraviolet ~~spectrograph~~ spectroscopy, ~~electrochemistry~~, ~~sounding~~, ~~rocket sounding~~, ~~exponential law~~, tropopause, electrochemistry, atmosphere sounding

ABSTRACT: The role of ozone in the atmosphere can be determined if the processes of formation and destruction and the distribution of ozone in an atmospheric layer are known. In 1963—1965, the Central Aerological Observatory made measurements of the ozone concentration in the atmosphere. An automatic ultraviolet spectrograph and a spectral ozone sounding instrument were used. Radiation intensity within the range from 2500 to 3600 A was measured. An electrochemical sounding instrument was used at night and in the winter in polar regions. The spectral ozone sounding instrument measures the quantity of ozone in various atmospheric layers. The distribution of ozone above the sounding level can be determined from data of rocket sounding and artificial satellite measurements. It is possible to assume that the ozone concentration in the atmospheric layer from 30 to 55 km decreases according to the exponential law in the vertical direction. Measurements made during cyclonic atmospheric states

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L 38426-66

ACC NR: AP6024383

showed a second maximum concentration of ozone in the layer from 8 to 11 km. Changes in the position of the tropopause influence the distribution of ozone. Orig. art. has: 1 figure. [EG]

SUB CODE: 04/ SUBM DATE: 22Dec65/ ORIG REF: 004/ OTH REF: 007/ ATD PRESS: 5043

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

POYARKOV, V.E.; BRITAYEV, M.D.; redaktor; GERASIMOVKIY, V.I., redaktor; YERSHOV, A.D., redaktor; KONSTANTINOV, M.M., redaktor; NIFONTOV, R.V., redaktor; SAAKYAN, P.S., redaktor; SMIRNOV, V.I., redaktor; SOLOV'YEV, D.V., redaktor; CHERNOSVITOV, Yu.L.; NIFONTOV, R.V., redaktor; KOSOV, B.M., redaktor; KRASNOVA, N.E., redaktor; GUROVA, O.A., tekhnicheskiy redaktor.

Mercury and antimony. Otsenka mestorozhdenii pri poiskakh i razvedkakh no. 15:3-207 '55. (MLRA 9:3)

(Mercury) (Antimony)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITAYEV, M. D.

LAVROVICH, Nikolay Stepanovich; BRITAYEV, M.D., redaktor; GERASIMOVSKIY, V.I., redaktor; YERSHOV, A.D., redaktor; KONSTANTINOV, M.M.; NIFONTOV, R.V., glavnyy redaktor; SAAKYAN, P.S., redaktor; SMIRNOV, V.I., redaktor; SOLOV'YEV, D.V., redaktor; CHERNOSVITOV, Yu.L., redaktor; SOSHNIKOVA, M.S., redaktor vypuska; SERGEYEVA, N.A., redaktor izdatel'stva; AVERKIYEVA, T.A., tekhnicheskiy redaktor.

[Fluorspar; (fluorite).] Plavikovyi shpat (fliuorit). Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1956. 133 p. (Otsenka mestorozhdenii pri poiskakh i razvedkakh, no.16).
(Fluorite) (MLRA 10:9)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

RODIONOV, G.G.; RONENSON, B.M.; BRITAYEV, M.D.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T., zamestitel' glavnogo red.; YEROFEYEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.; KHRUSHCHEV, N.A., red.; YAKZHIN, A.A., red.; MARKOV, P.N., red.; OVCHINNIKOVA, S.V., red. izd-va; AVERKIYEVA, T.A., tekh. red.

[Prospecting for mica deposits] Razvedka mestorozhdenii sliudy.. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1957. 56 p. (Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.4). (MIRA 11:1)
(Mica ores) (Prospecting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BOUS, A.A.; BRITAYEV, M.D.; GRECHUKHIN, N.A.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T., red.; YEROFEYEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red; YAKZHIN, A.A., red.; PROKOF'YEV, A.P., red; NEMANOVA, G.F., red.izd-va; PEN'KOVA, S.L., tekhn.red.

[Prospecting for beryllium, tantalum, and niobium deposits] Razvedka mestorozhdenii berilliia, tantala i niobiia. Moskva, gos. nauchn.-tekh. uzd-vo literatury po geologii i okhrane nedr. 1957 94 p. (Moscow. Vsesoiuznyi nauchno-issledovates'skii institut mineral'nogo syr'ia. Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.2). (MIRA 11:3)

(Ore deposits) (Prospecting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

CHERNYSHEV, G.B.; BRITAYEV, M.D.; TARKHOV, A.G.; SHCHERBAKOV, A.V.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T. zamestitel' glavnogo red.; YEROFEYEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, P.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; MUKHIN, S.S., red.; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for ferrous metal deposits] Razvedka mestorozhdenii chernykh metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1957. 102 p. (Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.11). (MIRA 11:1)
(Iron ores) (Prospecting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BOZINSKIY, A.P.; BRITAYEV, M.D.; KOMISSAROV, A.K.; KATKOVSKIY, G.S.; SEDOVA, V.I.; SHCHERBAKOV, A.V.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T., zamestitel' glavnogo red.; YEROFEYEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, P.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; OVCHINNIKOVA, S.V., red. izd-va; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for gold ore deposits] Razvedka zolotorudnykh mestorozhdenii. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1957. 103 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut mineral'nogo syria. Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.1). (MIRA 11:1)
(Gold ores) (Prospecting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

KHRUSHCHOV, N.A.; KOSOV, B.M.; POLIKARPOCHKIN, V.V.; BRITAYEV, M.D.; TARKHOV, A.G.; SHCHERBAKOV, A.V.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T., zamestitel' glavnogo red.; YEROFEYEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red., YAKZHIN, A.A., red.; VERSTAK, I.V., red. izd-va; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for molybdenum, tungsten, tin, bismuth, antinomy, and mercury deposits] Razvedka mestorozhdenii molibdena, vol'frama, olova, vismuta, sur'my i rtuti. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1957. 130 p. (Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.6). (MIRA 11:1)
(Ore deposits) (Prospecting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

AMIRASLANOV, A.A.; BRITAYEV, M.D.; BYBOCHKIN, A.M.; ZENKOV, D.A.; TAHKHOV, A.G.; TSYGANKO, N.I.; SHCHERBAKOV, A.V.; KREYTER, V.M., glavnyy red.; SHATALOV, Ye.T., zamestitel' glavnogo red.; YEROFEYEV, B.N., red.; ZENKOV, D.A., red.; KRASNIKOV, V.I., red.; NIFONTOV, R.V., red.; SMIRNOV, V.I., red.; KHRUSHCHOV, N.A., red.; YAKZHIN, A.A., red.; VERSTAK, G.V. red. izd-va; AVERKIYEVA, T.A., tekhn. red.

[Prospecting for copper, lead, and zinc deposits] Razvedka mestorozhdenii medi, svintsa i tsinka. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1957. 135 p. (Metodicheskie ukazaniia po proizvodstvu geologo-razvedochnykh rabot, no.10).
(Ore deposits) (Prospecting) (MIRA 11:4)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

VASIL'YEV, Petr Vasil'yevich; YERSHOV, A.D., glavnyy red.; KREYTER, V.M., zam. glavnogo red.; KAIMYKOV, G.S., red; BRITAYEV, M.D., red.; KRASNIKOV, V.I., red.; MALYSHEV, I.I., red.; MOMDZHI, G.S., red.; SAAKYAN, P.S., red.; SMIRNOV, V.I., red.; SOLOV'YEV, D.V., red.; CHERNOSVITOV, Yu.L., red.; KHRUSHCHOV, N.A., red.; PANOVA, A.I., red.izd-va; GUROVA, O.A., tekhn.red.

[Coal] Ugol'. Moskva, Gos.nauchn.-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960. 343 p. (Otsenka mestorozhdenii pri poiskakh i razvedkakh, no. 5) (MIRA 14:2)
(Mine examination) (Coal)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITAYEV, S.

Science

Ossetic-Russian and Russian-Ossetic botanical dictionary. Dzaudzhikau, Gosizdat. Sev-Oset. ASSR, 1951.

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

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITAYEV, S.B., inzhener (g. Ordzhonikidze).

Operating diesel locomotives on long locomotive runs. Zhel.dor.transp. 39 no.7:68-69 Jl '57. (MLRA 10:8)
(Diesel locomotives)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITAYEVA, R.A.

The NT-ChM-4 supersonic-frequency telegraph equipment. Avtom., telem. i sviaz' 3 no.3:41 Mr. '59. (MIRA 12:5)

1. Starshiy inzhener sluzhby signalizatsii i svyazi Ordzhonikidzevskoy dorogi.

(Railroads--Telegraph)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITCHENKO, M.Ye., inzh.; YEVTUSHENKO, V.I., inzh.

Methods for calculating basic schedule norms for planning the operations in lot production. Mashinostroenie no.1:9-12 Ja-F '65. (MIRA 18:4)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

ALEKSENKO, G.V.; SYROMYATNIKOV, I.A.; NEKRASOV, A.M.; KRIKUNCHIK, A.B.; RABINOVICH, S.I.; CHUSOV, P.P.; CHERTIN, A.M.; BULGAKOV, N.I.; BRITCHUK, V.V.; MAN'KIN, E.A.; PANOV, A.V.; SAPOZHNIKOV, A.V.; SAGALOV, M.I.; VOYEVODIN, I.D.; ANTONOV, I.A.; KALINICHENKO, I.S.; KRAYZ, A.G.

L.M. Shnitser; on his 75th birthday. Elektrichestvo no.11:87-88 N '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

L 22432-66

ACC NR: AP6013618 SOURCE CODE: UR/0105/65/000/011/0086/0087

AUTHOR: Biryukov, V. G.; Britchuk, V. V.; Kozhukhov, V. K.; Krayz, A. G.; Nayashkov, I. S.; Nazarevskiy, N. I.; Panov, A. V.; Petrov, G. N.; Rabinovich, S. I.; Sapozhnikov, A. V.

ORG: none

36
35
B

TITLE: E. A. Man'kin, on his 60th birthday

SOURCE: Elektrichestvo, no. 11, 1965, 86-87

TOPIC TAGS: electric engineering personnel, synchrotron

ABSTRACT: Emmanuil Abramovich MAN'KIN, who after 35 years of scientific-engineering work ranks as one of the senior workers in the transformer-building field, was 60 years old on 28 May 1965. After graduating in 1927 from the electrical machine building institute in Moscow he became an engineer of the Moscow transformer factory (presently Moskovskiy elektrozavod; Moscow Electric Factory). He constructed and headed until 1934 the transformer testing station. During the 1935-1942 period he was head of the bureau for the design of special transformers, and during these years carried out numerous theoretical investigations concerning electromagnetic transformer calculations. His methods for the calculation of transformer leakage earned

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

L 22432-66

ACC NR: AP6013618

him the degree of candidate of engineering sciences. Between 1942 and 1947 he was deputy head of the engineering department of the factory, and since 1947, while heading the Bureau of Electromagnetic Design of the Spetsial'nyy konstruktorskiy byuro (Special Construction Bureau) he has been one of the main designers of the world's first 280 MeV synchrotron. From 1955 to 1958 E. A. MAN'KIN headed the group of designers working on the 400 kV transformer equipment of the Volgograd-Donbass power line. Since 1960 he has been head of the transformer laboratory of the Vsesoyuznyy elektrotekhnicheskiy institut (All-Union Electrotechnical Institute) im. Lenin. In the same year he obtained the degree of Doctor of Engineering Sciences for his works "Electromagnetic design of transformers, reactors, and charged particle accelerators." In the course of his engineering and research activity he published more than 30 papers. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09, 20 / SUBM DATE: none

Card 2/2 BLG

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITHTA, I.

Yugoslavia, (430)

Technology

The viscosimetry of equeous solutions. p. 76.,
Arhiv Za Kemiju, Vol. 18, no. 1-4, 1946.

East European Accessions List, Library of Congress,
Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED,

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, A., polkovnik, Geroy Sovetskogo Soyuza, dotsent; kand. istoricheskikh nauk

Courage. Vest. Vozd. Fl. no.11:76-81 N '61. (MIRA 15:2)
(World War, 1939-1945--Aerial operations)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, A.P., polkovnik, Geroy Sovetskogo Soyuza

Communists were in the lead. Vest.protivovozd.obor. no.12:75-76 D '61. (MIRA 15:3)

(Moscow, Battle of, 1941-1942)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, Ye. A.

"Physiological Biochemical Analysis of the Germination of Pollen and the Growth of Pollen Ducts in the Tissues of the Pistil." Sub 28 Dec 51, Inst of Plant Physiology imeni K. A. Timiryazev, Acad Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

CA BRITIKOV, Ye A.

11 D

Effect of pollination on material metabolism in corn pistil.
E. A. Britikov. *Doklady Akad. Nauk S.S.S.R.* 78, 1037-40(1951).—Application of the tracing of P^{32} in a study of the distribution of P through the length of the corn pistil and the changes in N, carbohydrate, and starch content, showed that pollination causes a general rise of P in the pistil, especially near the upper end. Auxin-type materials also cause a similar distribution change, as does the application of an aq. ext. of pollen to the pistil. Carbohydrate level also rises and the synthetic activity (polysaccharide formation) occurs largely at the upper end. Changes in N metabolism parallel those of carbohydrates.
G. M. Kosolapoff

Inst. Plant Physiology im K. A. Timiryazev

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, Ye. A.

"Certain Peculiarities of the Germination of the Pollen and of Pollen Tubes in Pistil Tissues," Iz. Ak. Nauk SSSR, Ser. Biol., No.1, 1952

Inst. Plant Physiology im K. A. Timiryazev

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, Ye.A.

Physiological and biochemical analysis of pollen germination and the growth of pollen tubes in tissues of the pistil. Trudy Inst.fiziol.rast. 8 no.2:3-58 '54. (MLRA 8:5)

1. Institut fiziologii rasteniy im. K.A.Timiryazeva Akademii nauk SSSR.
(Pollen)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, E. A.

USSR/Agriculture - Plant Physiology

Card : 1/1

Authors : Britikov, E. A., and Petropavlovskaya, R. N.

Title : Effect of ferments, vitamins and auxin type stimuli on the binding of seeds during the sprouting of rye

Periodical : Dokl. AN SSSR, 97, Ed. 2, 341 - 344, July 1954

Abstract : The physiological and biochemical effect of ferments, vitamins and auxin type stimuli on the binding of rye seeds during sprouting was investigated. Results are given in tables. Sixteen references.

Institution : Acad. of Sc. USSR, The K. A. Timiryazev Institute of Plant Physiology

Presented by : Academician A. L. Kursanov, May 3, 1954

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, E. A.

Mechanism of action of foreign pollen on self-pollination of cross-pollinating plants. E. A. Britikov, R. N. Lashchenikova, and V. Ya. Vissarionova (K. A. Timiryazev Inst. Plant Physiol., Moscow). *Fiziol. Rastenii* 2, 432–43 (1955).—Expts. with rye, beet, and carrot plants in which papain, invertase, thiamine, riboflavine, ascorbic acid, nicotinic acid, heteroauxin, 1-naphthylacetamide or dried brewers' yeast were sprayed or dusted over the plants showed a very considerable increase (10-13-fold) in seed initiation over the controls. Since the stimulating action of these active substances is analogous to the action of "foreign" pollen, it is suggested that the latter has this action owing to the high content of enzymes, vitamins and auxins, which produce an addnl. differentiating action of the male and the female organs of the cross-pollinating plants.

G. M. Kosharov

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, YE.A.

KURSANOV, A.L., akademik, otvetstvennyy redaktor; TUMANOV, I.I., otvetstvennyy redaktor; GENKEL', P.A., professor, otvetstvennyy redaktor; BRITIKOV, Ye.A., redaktor izdatel'stva; ZELENKOVA, Ye.V., tekhnicheskiy redaktor

[In memory of Academician N.A.Maksimov; a collection of articles] Pamiati akademika N.A.Maksimova; sbornik statei. Moskva, 1957. 323 p. (MIRA 10:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Tumanov)
(Botany--Physiology)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, Yevgeniy Alekseyevich, kand.biol.nauk; KATSIYEL'SON, S.M., redaktor; GUBIN, M.I., tekhnicheskiy redaktor.

[The physiology of pollination and fertilization of plants] Fiziologiia opyleniia i oplodotvoreniia u rastenii. Moskva, Izd-vo "Znanie," 1957. 30 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.8, no.33) (MIRA 10:11)
(Fertilization of plants)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, Ye.A.; LEBEDEVA, Z.V.

Physiological effect of X-rayed pollen on the self-fertilization of corn. Dokl. AN SSSR 149 no.2:460-463 Mr '63. (MIRA 16:3)

1. Institut fiziologii rasteniy im. K.A.Timiryazeva AN SSSR i Institut genetiki AN SSSR. Predstavleno akademikom A.L.Kursanovym.
(Fertilization of plants)
(X rays--Physiological effect)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, Ye.A.; MUSATOVA, N.A.

Accumulation of free proline in pollen. Fiziol. rast. 11 no. 3:464-472 '64. (MIRA 17:7)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOV, Ye.A.; VLADIMIRTSEVA, S.V.; MUSATOVA, N.A.

Transformation of proline in germinating pollen and pistil tissues. Fiziol.rast. 12 no.6:953-967 N-D '65.

(MIRA 18:12)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva AN SSSR, Moskva. Submitted July 7, 1964.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOVA, K. F.

BRITIKOVA, K. F.: - "The functional state of the liver in brain traumas and in pathological states of higher nervous activity" (Clinical-experimental research), Leningrad, 1955. Acad Sci USSR, Inst of Physiology imeni I. P. Pavlov. Min Health Ukrainian SSR. Odessa Sci Res Psychoneurological Inst. (Dissertation for the Degree of Candidate of Medical Sciences)

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

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOVA, K.F.

Changes in carbohydrate metabolism and hippuric acid synthesis in dogs during a pathological state of the higher nervous activity. Trudy Inst. fiziol. 7:535-539 '58. (MIRA 12:3)

1. Laboratoriya kortiko-vistseral'noy patologii (zav. - I.T. Kurtsin) Instituta fiziologii im. I.P. Pavlova AN SSSR.
(CARBOHYDRATE METABOLISM) (HIPPURIC ACID)
(CEREBRAL CORTEX)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BOLONDINSKIY, V.K.; BRITIKOVA, K.F.; LOGINOVA, T.V.

Secretion and enzymes of the intestinal juice in persons with a resected stomach. Trudy Inst. fiziol. 9:170-175 '60. (MIRA 14:3)

1. Laboratoriya kortiko-vistseral'noy patologii (zaveduyushchiy - I.T.Kurtsin) i Khirurgicheskaya gruppa (rukovoditel' V.I.Sazontov [deceased]) Instituta fiziologii im. I.P.Pavlova.
(INTESTINES--SECRETION) (STOMACH)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOVA, K.F.

Data on the change in carbohydrate metabolism following stomach surgery. Trudy Inst. fiziol. 9:401-407 '60. (MIRA 14:3)

1. Laboratoriya kortiko-vistseral'noy patologii (zaveduyushchiy - I.T.Kurtsin) i Khirurgicheskaya gruppa (rukovoditel' - V.I.Sazontov [deceased]) Instituta fiziologii im. I.P.Pavlova.
(CARBOHYDRATE METABOLISM) (STOMACH--SURGERY)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOVA, K.F.

Change in the antitoxic function of the liver and in some indexes of carbohydrate metabolism following stomach surgery. Trudy Inst. fiziol. 9:408-411 '60. (MIRA 14:3)

1. Laboratoriya kortiko-vistseral'noy patologii (zaveduyushchiy - I.T.Kurtsin) i Khirurgicheskaya gruppa (rukovoditel' - V.I.Sazontov [deceased]) Instituta fiziologii im. I.P.Pavlova.
(LIVER) (CARBOHYDRATE METABOLISM)
(STOMACH—SURGERY)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITIKOVA, K.F.

Changes in the higher nervous activity and some vegetative functions in dogs following a closed trauma of the brain. Eksper. khir. i anest. 7 no.4:3-6 Jl-Ag '62. (MIRA 17:5)

1. Iz laboratorii kortiko-vistseral'noy patologii (zav. - prof. I.T.Kurtsin) Instituta fiziologii imeni I.P.Pavlova (dir. - akademik K.M.Bykov [deceased]) AN SSSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

CHKHIKVADZE, K.A.; BRITIKOVA, N.Ye.; MAGIDSON, O.Yu.

Syntheses of the derivatives of orotic acid and its analogs. Zhur.ob. khim. 34 no.1:161-167 Ja '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni Ordzhonikidze.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

25 (2), 15 (2)

AUTHOR: Britin, N. V. SOV/131-59-5-10/12

TITLE: Pressing Refractories More Than 100 mm Thick on the Presses SM-143 (Pressovaniye ogneupornykh izdeliy tolshchinoy boleye 100 mm na pressakh SM-143)

PERIODICAL: Ogneupory, 1959, Nr 5, pp 236-238 (USSR)

ABSTRACT: The toggle-lever presses SM-143 are destined for the pressing of fire-clay products up to 100 mm thick. The co-workers of the Borovichi Kombinat of Refractories B. A. Dmitriyev and B. A. Kurochkin recommended to carry out constructive changes on the presses which made it possible to press products up to 130 mm thick. The press table with the molds was lifted by means of supports (Fig 1), and the lower position of the press die was adjusted accordingly by an adjusting nut. The larger quantity of mass needed is attained by feeding it in part beyond the surface of the table (Fig 2) which can, however, be eliminated by further constructive modifications of the press mechanism. The reconstructed press performs 7.5 strokes a minute instead of 9.5 strokes. The pressed products have a good quality. The production transition from 100 and 130 mm friction presses to the presses SM-143

Card 1/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

Pressing Refractories More Than 100 mm Thick on the Presses SM-143 SOV/131-59-5-10/12

brings a considerable saving while the wear of press parts does not increase. There are 2 figures.

ASSOCIATION: Borovichskiy kombinat ogneuporov (Borovichi Kombinat of Refractories)

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITKIN, A. S.

(The first Tula builders of complex hydraulic machinery, the activity of Mark Sidorov, Jacob Batishchev, Pavel Zakhav) Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1950. 56 p. (Iz istorii tekhniki) 51-22834

TJ 890.B7

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITKIN, A. S.

The outstanding machine builder of the 18th century, A.K. Nartov Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1950. 182 p. (50-38210)

TJ140.N3B7

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BATASHOV, N.S.; GAGARIN, Ye.I.; BRITKIN, A.S., professor, retsenzent; CHERNYAK, A.Ya., redaktor.

[E.G.Kuznetsov, outstanding master of the 18th century] E.G.Kuznetsov - vydaiushchiisia master XVIII veka. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry [Red.lit-ry po istorii mashinostroit tekhniki] 1953. 94 p. (MLRA 7:5)
(Kuznetsov, Egor Grigor'evich, 1725- ?)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

1. BRITKIN, A.S., Prof.; NAUMOV, N. D., Eng.

2. USSR (600)

4. Machine Tools - Maintenance and Repair

7. Range of equipment affected by planned repairs, and the actual need for such repairs. Vest mash No. 1 1953.

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

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITKIN, A. S., Prof.

BRITKIN, A.S., professor; MONGAYT, A.L., kandidat istoricheskikh nauk.

A book on the history of Russian metallurgy. ("Ferrous metallurgy and metal working in ancient Russia." B.A. Kolchin.) Reviewed by A.S. Britkin, A.L. Mongait. Vest AN SSSR 24 no.5:103-106 My '54. (Metallurgy--History) (MLRA 7:6)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITKIN, A.S.

BRAVICHEV, V.A.; GAYDAR, V.I.; ZININ, M.V.; MENSHCHIKOV, I.I.; BRITKIN, A.S. retsenzent; ROZENBERG, Yu.A., kandidat tekhnicheskikh nauk, redaktor; TIKHONOV, A.Ya., tekhnicheskiy redaktor

[Metal cutting machines] Metallorezhushchie stanki. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 660 p.
(Metal cutting) (MLRA 9:3)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

MAKHLEVICH, Lev Yakovlevich; ~~BRITKIN, A.S.~~, professor, nauchnyy redaktor; BERLYANT, I.Ya., redaktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor.

[Repair of equipment in clothing and footgear establishments] Remont oborudovaniia shveinykh i obuvnykh predpiriatii. Moskva, Vses.koop. izd-vo, 1956. 167 p. (MLRA 10:4)
(Sewing machines--Repairing)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITKIN, A.S.

BOGOLYUBOV, Sergey Konstantinovich; BRITKIN, A.S., professor, retsenzent; VOINOV, A.V., inzhener, redaktor; POPOVA, S.M., tekhnicheskiy redaktor; TIKHONOV, A.Ya., tekhnicheskiy redaktor

[Problem book on mechanical drawing] Zadachnik po chercheniiu. Izd. 3-e, ispr. i dop. Moskva, Ges. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 264 p. (MLRA 10:4)
(Machinery--Drawing)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

DANILEVSKIY, Viktor Vasil'yevich, akademik; BRITKIN, A.S., prof., red.; POVKH, I.L., prof., doktor tekhn.nauk, retsenzent; GOFMAN, Ye.K., red.izd-va; SOKOLOVA, L.V., tekhn.red.

[Nartov and "Clear sight of machines"] Nartov i "Iasnoe zrelishche mashin." Pod red. A.S.Britkina. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1958. 271 p. (MIRA 13:1)

1. AN USSR (for Danilevskiy).
(Nartov, Andrei Konstantinovich, 1683-1756)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

SOV/28-59-2-24/26

25(5)

AUTHORS: Bozhukov, B.P., Chief of the OTK at the "Frezer" Plant; Bakhshiyan, F.A., Doctor of Technical Sciences, Professor; Britkin, A.S., Doctor of Technical Sciences, Professor; Kokhtev, A., Engineer.

TITLE: A Valuable Textbook for Engineers (Tsennoye posobiye dlya Inzhenerov)

PERIODICAL: Standartizatsiya, 1959, Nr 2, pp 60-61 (USSR)

ABSTRACT: The book by A.M. Dlin, "Mathematical Statistics in Engineering" ("Matematicheskaya statistika v tekhnike") is reviewed in this article.

Card 1/1

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BLIZNYAKOV, Leonid Vasil'yevich; BRITKIN, A.S., prof., nauchn. red.; SLAVNITSKAYA, N.N., red.izd-va; AZOVKIN, N.G., tekhn. red.

[Handbook for the mechanical engineer and the foreman of a machine shop] Kratkii spravochnik tekhnologa-mashinostroitelia i mastera mekhanicheskikh tsekhov. Riazan', Riazanskoe knizhn. izd-vo, 1963. 310 p. (MIRA 16:10)
(Machine-shop practice) (Metal cutting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

L 24473-66 EWT(m)/T/EWP(t) IJP(c) JG/JD/GS

ACC NR: AT6010576 (N) SOURCE CODE: UR/0000/65/000/000/0083/0095

AUTHOR: Mal'tsev, M. V.; Shulepov, V. I.; Britnev, G. P.; Zhdannikova, V. N.; Dannelyan, T. A.; Popova, Yu. S.; Fedotov, E. I.; Sheynberg, B. N. 64 60 B+1

ORG: All-Union Institute of Light Alloys (Vsesoyuznyy institut legkikh splavov)

TITLE: Some data on the kinetics of the dissociation of a solid solution of interstitial impurities in cast molybdenum 27 18

SOURCE: AN UkrSSR. Mekhanizm plasticheskoy deformatsii metallov (Mechanism of the plastic deformation of metals). Kiev, Naukova dumka, 1965, 83-95

TOPIC TAGS: molybdenum, cast alloy, solid solution, crystal impurity, crystal lattice defect

ABSTRACT: The authors study the effect which the number and distribution of crystal lattice defects have on dissociation of a solid solution of interstitial impurities in molybdenum. The density and distribution of dislocations in cast molybdenum are determined principally by the parameters of the crystallization process (the rate of crystallization, temperature gradient in the liquid and solid metal etc.). An x-ray analysis of a molybdenum single crystal produced by electron-beam zone melting and

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containing interstitial impurities of carbon (0.01%) and oxygen (0.0015%) under optical and electron microscopes showed that the crystal is a single-phase solid solution of interstitial impurities in molybdenum. An entirely different picture is observed in cast molybdenum produced by arc melting. The decay of the solid solution in the ingots is localized on polygonization boundaries where the adjacent interstitial atoms are segregated. The compression stresses which arise at the interfaces tend to separate the crystals and are a cause of high brittleness in the cast metal. The polygonization single crystal in cast molybdenum is basically a saturated solid solution of interstitial impurities which decays only in widely scattered isolated sections. At the same time, the ductility of the polygonization single crystals is usually as high as in single crystals grown by zone melting. Various methods for increasing the ductility of cast molybdenum are discussed. Orig. art. has: 15 figures.

SUB CODE: 11,20/ SUBM DATE: 26Sep64/ ORIG REF: 001/ OTH REF: 000

Card 2/2 PB

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

66568

5.1175 (A)

SOV/96-59-11-7/22

AUTHORS: Dityakin, Yu. F., Candidate of Technical Sciences, and Britneva, L. N., Engineer

TITLE: The use of Dimensionless Criteria to Generalise the Results of Drop-size Measurements When Atomising Liquids in Centrifugal Nozzles

PERIODICAL: Teploenergetika, 1959, Nr 11, pp 33-37 (USSR)

ABSTRACT: In recent years a good deal of work has been published on the relationship between drop-size, nozzle characteristics and operating conditions. However, the results do not seem to have been formed into any general system of dimensionless criteria, which would, however, be very useful. The dimensionless criteria that have been used to characterise the process of atomisation have either been based on the theory of a stable flow of liquid, or on dimensional theory. This article uses the dimensional theory to examine a centrifugal nozzle that creates a film of liquid of a certain thickness which breaks up into drops while moving in a gaseous medium. Then the relationship between drop size and film thickness is given by expression (1), which includes four criteria. The

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

66568

SOV/96-59-11-7/22

The use of Dimensionless Criteria to Generalise the Results of Drop-size Measurements When Atomising Liquids in Centrifugal Nozzles

first, called the Weber criterion, is the ratio of the inertia force to the surface tension force of the film. The second, called the Laplace criterion, is the ratio of the surface tension force to the viscosity force of the liquid. The third criterion is the ratio of the inertia force of the gaseous medium to that of the atomised liquid. The fourth criterion is the ratio of the viscosity forces of the gaseous medium and the atomised liquid. The reasons for choosing this particular system of criteria are explained. Treatment of previously published data by means of the new criteria is discussed. It is shown that the density of the medium enters into two of the criteria proposed. Consequently, in supplying the formula to a medium of lower density than the atmosphere it is necessary to know the influence of the density of the medium on the film thickness and the place at which it breaks up. As this relationship is unknown, the formula can only be used for atmospheric air density. The relationship

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

66568

SOV/96-59-11-7/22

The use of Dimensionless Criteria to Generalise the Results of Drop-size Measurements When Atomising Liquids in Centrifugal Nozzles

between film thickness and nozzle radius is given by expression (3). Various authors have published data about the liquids used and the methods of measuring drop sizes employed in tests with centrifugal nozzles. These data are tabulated and used for working out in dimensionless criteria. It will be seen that most of the work has been done on kerosene or molten paraffin wax. Construction of the empirical data for the ratio of drop size to film thickness as a function of the Weber criterion, with the other three criteria constant, shows that the data for kerosene and water do not lie on the same curves; the reasons for this are discussed. It is also shown that for kerosene, vapourisation of the drops before they are trapped has little influence on their dimensions. Graphs of the data of various authors for kerosene and molten paraffin wax are plotted. The results for water obtained by Consiglio and Sliepcevich in the USA are not of the same slope as the others, which indicates that their work is

Card 3/4

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

The use of Dimensionless Criteria to Generalise the Results of Drop-size Measurements When Atomising Liquids in Centrifugal Nozzles

unreliable. Otherwise the experimental data for water and aqueous solutions of glycerine can be approximately represented by Eq (4) and those for kerosene and molten paraffin wax by Eq (5). The values of the constants used in these equations are given. These empirical formulae may be used to evaluate the median diameters of kerosene and water drops produced during atomisation in air of atmospheric density if the geometrical dimensions of the centrifugal nozzle and its operating conditions are known. There are 1 figure, 1 table and 15 references, 4 of which are Soviet, 9 English, 1 Czech, and 1 German.

4

ASSOCIATION: TsIAM

Card 4/4

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

L 22633-65 EWP(m)/EPF(n)-2/EWT(1)/EWA(d) Pd-1/Pu-4 WW
ACCESSION NR: AP5002865 S/0207/64/000/005/0059/0065

AUTHOR: Borodin, V. A. (Moscow); Britneva, L. N. (Moscow); Dityakin, Yu. F. (Moscow); Yagodkin, V. I. (Moscow)

TITLE: Breakup of liquid jet overflown by a gas stream

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1964, 59-65

TOPIC TAGS: liquid jet, liquid drop, transverse flow, fuel injection, jet breakup

ABSTRACT: The breakup of a cylindrical ideal liquid jet (radius a, density ρ_1) by the transverse flow of another ideal fluid (density ρ_2, velocity U_0) was studied analytically. Two types of waves propagating along the jet surface were considered: 1) tangential waves deforming the jet in the plane of its cross section; 2) longitudinal waves. Time-dependent potential functions are introduced for the jet and the fluid in cylindrical coordinates, and the following solution is assumed

$$\Phi(r, \varphi, t) = u(r, \varphi)e^{-i\beta t}.$$

Card 1/3

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L 22633-65
ACCESSION NR: AP5002865

The continuity of the normal component of the velocity at the interface is used as a boundary condition. From Laplace's equation a generalized solution is obtained in the form

$$u_1' = \sum_{m=0}^{\infty} A_m R^m e^{im\varphi}, \qquad u_2 = \sum_{m=0}^{\infty} B_m R^{-m} e^{im\varphi}.$$

For m = 0 and R = 1 the velocity of surface rise of the jet is given by

$$v_{r_1} = \frac{1}{a} \sum_{m=0}^{\infty} m A_m R^{m-1} \cos m\varphi e^{-i\varphi t}$$

and the equations of nodal lines on the perturbed jet take the form of

$$\sum_{k=0}^{\infty} m A_m \cos m\varphi = 0$$
$$(m = 2k \text{ или } m = 2k+1)$$

Card 2/3

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L 22633-65
ACCESSION NR: AP5002865

Numerical calculations show that at $2 < W < 27.6$ (W = Weber number), four nodal lines appear on the jet surface and two nodal lines at $0.656 < W < 1.24$. To determine the wave propagation along the jet, the stream function is assumed to have the form

$$\Phi(r, \varphi, z, t) = u(r, \varphi)e^{-i\beta t + i\lambda z}.$$

Substituting in the cylindrical Laplace equation, the solution is obtained in a Bessel function of imaginary arguments. Numerical results are obtained for W = 5 and 10. Orig. art. has: 4 figures and 46 formulas. [04]

ASSOCIATION: none

SUBMITTED: 22May64 ENCL: 00 SUB CODE: ME

NO REF SOV: 007 OTHER: 004 ATD PRESS: 3170

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, A.N.

Significance of some indices of protein and lipid metabolism for the differential diagnosis of forms of coronary insufficiency. Terap. arkh. 35 no.5: My'63 (MIRA 16:12)

1. Iz kafedry gospital'noy terapii (zav. - chlen-korrespondent AMN SSSR prof. P.Ye. Lukomskiy) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, D.

Machine-tool construction is not an objective itself. Prof. -tekh.obr. 11 no.1:17-18 '54. (MLRA 7:6)

1. Zamestitel' direktora po uchebno-proizvodstvennoy chasti zheleznodorozhnogo uchilishcha No.1 (Sumskaya oblast').
(Machine tools) (Machine-shop practice)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, D.

First successes. Prof.-tekh. obr. 22 no.3:8 Mr '65. (MIRA 18:7)

1. Direktor professional'no-tekhnicheskogo uchilishcha No.4, g. Konotop, UkrSSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

L 03870-67 EWT(d)/EWT(1)/EWP(1) IJP(c) BB/TG/GG
ACC NR: AP6016320 (N) SOURCE CODE: UR/0410/65/000/005/0003/0011

AUTHOR: Britov, G. S. (Leningrad); Ignat'yev, M. B. (Leningrad)

ORG: none

TITLE: Redundancy in complex information sensing and processing systems

SOURCE: Avtometriya, no. 5, 1965, 3-11

TOPIC TAGS: information processing, system reliability, reliability engineering

ABSTRACT: A method is proposed for introducing redundant linear control tests into a data sensing and processing system such that they are contained directly in the algorithm of the system. The purpose is to improve the reliability and accuracy of individual units as well as of the entire system. Special consideration is given to the case when the information supplied by the sensors is incorrect and cannot be corrected by the information processing unit alone, no matter how accurate or free from interference. The sensors in question are frequently complex devices containing series-parallel elements which usually transform the measured physical parameter of an object into an electric signal. It is assumed that regardless of the complexity of the sensor, its operational algorithm can be represented in the form $y=k_{sensor}x$. The redundancy of such input sensors is considered from the standpoint of redundant vari-

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Card 1/2

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L 08870-67

ACC NR: AP6016320

ables. Transfer coefficients are derived for sensors which satisfy linear control conditions as well as an expression for the error due to any deviation of the sensor from the linear law. It is shown that appropriate feedback can be used to compensate for errors. Block diagrams of proposed systems based on this method are presented and discussed. The control over the operation of the sensors makes it possible to diagnose a defective sensor when the number of sensors is $n \geq 3$. Circuit logic and operating algorithm are discussed. Orig. art. has: 27 formulas, 4 figures.

SUB CODE: 09/ 14/ SUBM DATE: 09Mar65/ ORIG REF: 003

Card 2/2 egk

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V.A.

Distribution of Trichinella in the muscles. Med.paraz.i paraz. bol. 29 no.2:183-186 '60. (MIRA 13:12)
(TRICHINOSIS) (MUSCLES —DISEASES)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V. A.

"Economical efficiency of prophylaxis of horse piroplasmosis by means of haemosporidin."

Veterinariya Vol. 37, No. 3, 1960, p. 29

Vet. Dr., Rybkinskoy rayvetlechebnitsy, Mordovskiy ASSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V.A., veterinarnyy vrach

Economic effectiveness of preventing piroplasmosis in horses with hemosporidin. Veterinariia 37 no.3:29-30 Mr '60. (MIRA 16:6)

1. Rybkinskaya rayonnaya veterinarnaya lechebnitsa Mordovskoy ASSR.
(Piroplasmosis) (Hemosporidine)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V. A. (Kazan Veterinary Institute)

"Diagnostic importance of age changes of Trichinella larvae and their capsules"

Veterinariya, vol. 39, no. 4, April 1962 p. 41

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V.A.

Diagnostic importance of age-related changes in the Trichinella larvae and their capsules. Veterinariia 39 no.4:41-44 Ap '62. (MIRA 17:10)

1. Kazanskiy veterinarnyy institut.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V.A.

Intensity of Trichinella invasion in animals in relation to their species, age, and immunity. Zool. zhur. 41 no.2:287-288 F '62. (MIRA 15:4)

1. Department of Pathological Anatomy, Veterinary Institute of Kazan.

(Trichina and trichinosis)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V.A.

Role of fishes and crustaceans in the transmission of trichinosis to marine mammals. Zool. zhur. 41 no.5:776-777 My '62. (MIRA 15:6)

1. Department of Pathological Anatomy, Veterinary Institute of Kazan.

(Trichina and trichinosis--Host animals)
(Parasites--Seals (Animals))

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V.A.

Susceptibility of swine to trichinosis and the influence of the protective reaction of the host to Trichinella larvae. Wiad. parazyt. 11 no.4:327-349 '65.

1. Laboratoriya No. 1 Kazanskogo veterinarnogo instituta, SSSR.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V.A.

Additional method of examining meat for Trichinella. Veterinariia 41 no.4:108-109 Ap '65. (MIRA 18:6)

1. Kazanskiy veterinarnyy institut.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, V.A.

Effect of cortisone and ACTH on the intensity of trichinelliasis in animals. Med. paraz.i paraz.bol. 34 no.4:390-391 Jl-Ag '65. (MIRA 18:12)

1. Kafedra patologicheskoy anatomii Kazanskogo veterinarnogo instituta. Submitted August 9, 1964.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITOV, Vitaliy Vasil'yevich; YERMAKOVA, T.P., red.; TSYPPO, R.V., tekhn. red.

[Birth of the Red Army] Rozhdenie Krasnoi Armii. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1961. 278 p. (MIRA 14:6)

(Russia—Army)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

YEROFEYEV, Nikolay Aleksandrovich; BRITOV, V.V., red.

[Industrial revolution in England; an aid for teachers] Promyshlennaia revoliutsiia v Anglii; posobie dlia uchitelei. Moskva, Uchpedgiz, 1963. 183 p. (MIRA 18:11)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

ACC NR: AP6026757 SOURCE CODE: UR/0197/66/000/007/0125/0129

AUTHOR: Britse, M. A.; Tsirule, D. R.; Kimenis, A. A.

ORG: Institute of Organic Synthesis, AN LatSSR (Institut organicheskogo sinteza, AN LatSSR)

TITLE: Spasmolytic activity of some 2-amino-2-phenylphenalenediones

SOURCE: AN LatSSR. Izvestiya, no. 7, 1966, 125-129

TOPIC TAGS: aminophenylphenolenedione derivative, spasmolytic activity, DRUG EFFECT, PHARMACOLOGY

ABSTRACT: Spasmolytical activity of the M-1 — M-10 2-amino-2-phenylphenalene-1,3-diones of the general formula:
where R' is H or CH_3, R" is CH_3, C_2H_5, C_3H_7, C_4H_9, C_5H_{11}, C_6H_{11} (cyclohexyl), and CH_2CH_2OH, was studied on an isolated section of small intestine and intraperitoneally in white mice. The results are given in Table 1. The results are discussed in terms of the effect of various substituents on the pharmacological activity of the compound studied. Compounds in which one or both H atoms are substituted by R' or R" showed M-cholinolytic, antihistaminic, and myotropic spasmolytic activities. 2-Aminophenylphenalene

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ACC NR: AP6026757

and its homologs with one H atom in the amino group replaced by CH_3, C_2H_3, or C_2H_5O cause clonic spasms. Higher doses are lethal. Analogs with longer radicals (butyl, amyl, and cyclohexyl) do not cause spasms and are only slightly toxic. [WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 07Feb66/ ORIG REF: 008/ OTH REF: 001/

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

KIMENIS, A.A.; BRITSE, M.A. [Brice, M.]; SHUSTER, Ya.Ya. [Susters, J.]

Antinarcotic action of bemegride and some related compounds. Farm. i toks. 27 no.3:278-282 My-Je '64. (MIRA 18:4)

1. Kafedra farmakologii (zav. - chlen-korrespondent AMN SSSR prof. M.L. Belen'kiy) Rizhskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITSIN, D.F. [Brytsyn, D.F.], aspirant

Mechanized wide poultry house. Mekh.sil'.hosp. 11 no.1:25-28 Ja '60. (MIRA 13:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.
(Poultry houses and equipment)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

S/194/61/000/010/075/082
D271/D301

AUTHOR: Britsin, S.S. and Semikov, T.T.

TITLE: Trials of the ship radar station "Donets"

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 36, abstract 10 K263 (Inform. sb. tsentr. n.-i. in-t morsk. flota, 1960, no. 48, 18-26)

TEXT: Basic parameters are described of an experimental station, of developmental low power transmitter and slot antenna; comparative data table is given of Soviet ship radars "Neptun", "Stvor", "Don" and "Donets"; results of detection of various objects are given, with transmitters of 100 and 15 kW power, and various antennae. Having successfully passed the trials, the station is recommended for bulk production and use in sea-going ships. 1 figure. [Abstracter's note: Complete translation]

Card 1/1

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITSINA, M.P.; GERASIMOV, I.P.; ZHIVAGO, A.V.; ZANIN, G.V.; FEDOROVICH, B.A.

IUrii Sergeevich Kashin; obituary. Izv.AN SSSR Ser.geog. no.6:92-93 N-D '53. (MLRA 6:12)

(Kashin, Iurii Sergeevich, 1921-1953)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITSIS, B.A. [Bricis, B.]; EGLITE, V.Ya.

Refraction indexes of polyester varnishes. Der. prom. 14 no.8:29 Ag '65. (MIRA 18:10)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITSIS, F. [Bricis, F.]

Method of studying proteins of liver tissues and the blood serum. Izv. AN Latv. SSR no.10:95-98 '63. (MIRA 17:1)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

ZABRODSKIY, A.G.; SMIRNOV, N.K.; Prinimali uchastiye: RUDENKO, O.A.; FILIPENKO, I.S.; SEMENCHENKO, A.D.; KORCHEVSKIY, M.I.; TEMASHNYUK, D.S.; SHVARTS, S.P.; BRITSKAYA, Z.A.; RESHETOVA, L.N.; SHAKHOVA, V.A.; DANILENKO, P.L.

More about the effect of the amount of water and of its automatic proportioning in the boiling to pulp of raw materials. Trudy UkrNIISP no.5:13-20 '59. (MIRA 16:11)

1. Vashkovskiy zavod (for Rudenko, Filipenko, Semenchenko, Korchevskiy, Temashnyuk, Shvarts, Britskaya). 2. Chernovitskiy spirtovyy trest (for Reshetova, Shakhova). 3. Ukrainskiy nauchno-issledovatel'skiy institut spirtovoy i likero-vodochnoy promyshlennosti (for Danilenko).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

PROCESSES AND PROPERTIES INDEX

CA

7

Spectral analysis of bronze and tin and the sorting of ferrous and nonferrous alloys. M. K. Britska, L. M. Ivantsov, and V. V. Polyakova. *Bull. acad. sci. U.R.S.S., Sér. phys.* 11, 283-7(1947).—A rapid method for detg. Sn, Zn, and Pb bronze is described. The instrument used was a steeloscope transformed into a spectrograph by addn. of a holder for photographic plates. Homologous pairs and characteristics of the discharge are indicated. The results obtained in detg. Cu and Fe in Sn metal are also given. S. Pakawer

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

CA

7

Spectral analysis of ores and industrial products for germanium and molybdenum. M. E. Britska and L. N. Varshavskaya. *Izvest. Akad. Nauk S.S.S.R., Ser. Fiz.* 12, 455-6(1948).—Detn. of Ge in Cu_2S contg. 0.0005-0.01% Ge is best based on the lines Ge 2709, Cu 2768 A. The sensitivity increases with the current intensity of the arc, and is optimum at 17 amps., electrode gap 10 mm., slit 0.04 mm., exposure 2.5 min. The mean square error in several hundreds of detns. was 10-15%. Detn. of Mo, by the line pair Mo 3132, Cu 3128 A., in a condensed 12 kv. spark, has a sensitivity of 0.001%, mean square error 7.5-8%. N. Thon

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITSKE, M. E.

M.E. Britske, L.N. Varshavskaia, L.M. Ivantsov. Spectrum analysis of metallic zinc: P. 1207

State Scientific Res.
Inst. of Non-Ferrous
Metals.

SO: Factory Laboratory, No. 10, 1950

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

USSR/ Physics

Card 1/1 Pub. 43 - 30/97

Authors : Britske, M. E.

Title : Special conditions for the burning of an AC-arc

Periodical : Izv. AN SSSR. Ser. fiz. 18/2, page 263, Mar-Apr 1954

Abstract : Brief report is presented on the study of the relation between the excitation conditions and the effective current intensity in an intermediate arc. A study of spectrograms of an emission neutralized by superimposition of spectra of numerous flashes showed that at currents of ~50 amp the excitation of lines of once ionized Cu and Fe atoms perfectly stable. At higher current intensities the conditions of excitation were found equal to the conditions in an ordinary condensed spark. The changes in the conditions of excitation during one single flash were investigated and the results are listed.

Institution : State Scientific Research Institute of Non-Ferrous Metals

Submitted : .....

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

USSR/ Chemistry - Spectral analysis

Card 1/1 Pub. 43 - 66/97

Authors : Britske, M. E.; Gerken, E. B.; Zdanovich, I. D.; Ivantsov, L. M.; Kafanova, T. A.; Malinina, V. I.; Mironova, E. A.; and Polyakova, V. V.

Title : Spectrographic determination of admixtures in Pb, crude lead, water jacket slag and certain powders

Periodical : Izv. AN SSSR. Ser. fiz. 18/2, 283-284, Mar-Apr 1954

Abstract : Report is presented on a complex of methodical works conducted by the State Scientific Research Institute of Non-Ferrous Metals on the determination of admixtures in lead, crude lead, waterjacket slag and certain powders by means of spectrographic methods. The results obtained in these experiments are tabulated. Tables.

Institution : State Scientific Research Institute of Non-Ferrous Metals

Submitted : .....

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITSKE, M.E.

Investigation of high-power impulse arcs. Izv. AN SSSR. Ser fiz. 19 no.1:58-59 Ja-F '55. (MLRA 8:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh metallov.

(Spectrum analysis) (Spectrometer)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

BRITSKE, M. E.

Hungary/Analytical Chemistry. General Topics. G-1

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 19498.

Author : M.E. Britske.

Inst : State Scientific Research Institute of Non-Ferrous Metals (USSR).

Title : Peculiarities of Radiation of Pulsating Discharge and Mechanism of Its Action on Matter of Electrodes.

Orig Pub : Sb. Nauch. Tr. Gos. N.-i. In-ta Tsvet. Met., 1956, No 12, 144-149.

Abstract : In order to study the spatial distribution of the radiation of weak current arcs (WA) and strong current arcs (SA) between metallic electrodes, the arc images were sharply projected on the spectrograph slit. The intensity of all lines of SA practically does not vary along the arc interval; in case of WA, the ion lines are excited only near the electrodes. The temperature measurement according to Ornstein shows that the atom temperature (T_a) varies little along

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

Hungary/Analytical Chemistry. General Topics. G-1

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 19498.

the axes of arcs of both kinds, the ion temperature (T_i) drops in WA from electrodes to the middle. T_a is greater in the arc middle, but remains constant near the electrodes. There is thermal equilibrium in the arc middle and $T_a = T_i$, the equilibrium is upset in sections near the electrodes, because T_a is constant and $T_a \neq T_i$. In WA, the substance arrives into the flame only by evaporation. The presence of strong fields near the electrodes and their absence in the middle explain the rise of T_i. There is a flame tongue mechanism of inflow of substance into the discharge, which is proved by the spatial separation of the channel and the flame tongue. The flame tongue spectrum at the bottom part is similar to the spectrum of a usual arc. The luminosity of flame tongues is maintained long time without a field. This proves the existence of heated vapors of the matter without a field, which allow the excitation of a radiation identical with SA radiation. An artificially separated flame tongue

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920017-3

Hungary/Analytical Chemistry. General Topics. G-1

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 19498.

can serve as a light source for quantitative analysis. The complete elimination of the fractionation of evaporation is convenient at the analysis of powders.

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