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raised, there is no longer the deafening noise of the chisel, and material and electric energy is saved. The film "Arc Welding of Metals" is in preparation. Also planned are films on welding of pipelines, about build-up welding, and about the production of cylindric containers by rolling.

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S/118/61/000/005/003/006
D203/D306

AUTHOR: Zhivotinskiy, L.A., Engineer

TITLE: Auxiliary welding equipment for automating complex welding production

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 5, 1961, 19-23

TEXT: The time needed for positioning the parts to be welded, the cleaning of the welded seams etc. takes in some plants 60 to 70% of the total welding time and thus constitutes a major production problem. In automatic welding, considerable time is also lost due to transportation. Auxiliary equipment has been developed such as manipulators - positioners, stands on rollers for the edging machines, conveyors, special trucks, quick acting load grasping cranes etc. In the Uzlovskiy mashinostroitel'nyy zavod (Uzlov Machine-building Plant) when designing the welding production lines, 80% of the auxiliary equipment selected was of the universal type. For assembling and

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welding automobile chassis frames, universal manipulators of 5 ton capacity are used. In the Ural'skiy zavod (Ural Plant) for chemical equipment the use of a manipulator for welding the bottoms of tanks has simplified the operations considerably. The records of the Dneprodzerzhinskiy vagonostroitel'nyy zavod (Dneprodzerzhinsk Car-Construction Plant) show that using a ring edging machine has cut the labor required in welding the side edge of an undercarriage by 30% . In the "Rostsel'mash" plant, the use of special edging equipment for welding the frame of the CK-3 combine (SK-3) resulted in shortening the time (0.377 hour per frame). In the Mogilevskiy mashinostroitel'nyy zavod (Mogilev Machine-building Plant) the introduction of auxiliary tools has cut the time loss by 35%. Research carried out by the Vsesoyuznyy proyektno-tekhnologicheskiy institut tyazhelogo mashinostroyeniya (All-Union Design and Planning Technological Institute for Heavy Machine-Construction) has shown that the level of mechanization in welding production is clearly inadequate. Even in such large plants as Uralmashzavod and the one at Novokramatorsk, the auxiliary equipment is limited. One of

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Auxiliary welding equipment...

the reasons affecting welding production is that hitherto the auxiliary equipment is not yet standardized. The All-Union Design and Planning Institute has worked out 10 new types of equipment in the last few years. These could be applied to all types of parts being welded with weights from 100 to 10,000 Kg and of dimensions of 5000 x 5000 x 1500 mm. Various types of equipment for hand welding have also been designed for parts weighing up to 5 tons and for tank welding. A universal manipulator of the type YCM-500 (USM-500) is used for parts up to 500 kg. A universal edging machine-trolley has a useful capacity up to 12 tons. It has two wings which are normally in a horizontal position, but could be raised to 90° by the hydraulic drive. When one wing is raised, the other is lowered. This welding equipment could be rolled underneath the part to be welded and the edging operation done in this position. It is expected that such universal trolleys will be built for hoists of 50, 80 tons and more. The organization of production of auxiliary equipment in 8 plants with an outlay of 3.7 million roubles in 1961 and up to 12 million roubles in 1965 is envisaged. In 1961 the Gorlovskiy

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zavod (Gorlov Plant) of the Stalinskiy sovnarkhoz (Stalin-Sovnarkhoz) will manufacture the first series of welding manipulators of 5 ton capacity. The "Lesmash" Plant of the Khar'kovskiy sovnarkhoz (Khar'kov Sovnarkhoz) shall manufacture manipulators of 1200 Kg capacity. The Mekhanicheskiy zavod (Mechanical Plant) No. 7 of the L'vovskiy sovnarkhoz (L'vov Sovnarkhoz) will manufacture such items as roller turners and machines for loading boxes. There are 7 figures.

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GITLEVICH, A.D.; ZHIVOTINSKIY, L.A.; ZHMAKIN, D.F.; FAL'KEVICH, A.S., kand.tekhn. nauk, retsenzent; CHIKUNOV, A.I., inzh., retsenzent; TYURIN, V.F., inzh., red.; PETUKHOVA, G.N., red.izd-va; MODEL', B.I., tekhn.red.

[Work standards based on technical data for welding engineering processes]Tekhnicheskoe normirovanie tekhnologicheskikh protsessov v svarochnykh tsekhakh. [By]A.D.Gitlevich i dr. Moskva, Mashgiz, 1962. 170 p. (MIRA 16:3)
(Welding--Production standards)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

YEMEL'YANOV, Leonid Vasil'yevich; ZHIVOTINSKIY, Lev Abramovich; GITLEVICH, Arlen Davidovich; TYURIN, V.F., nauchnyy red.; IONOV, V.N., red.; DORODNOVA, L.A., tekhn. red.

[Auxiliary equipment for welding; an album] Vspomogatel'noe oborudovanie dlia svarki; al'bom. Moskva, Proftekhizdat, 1962. 123p. (MIRA 16:1)

(Welding--Equipment and supplies)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTINSKIY, L.A., inzh.

Album of the Exhibition of Achievements of the National Economy in welding techniques. Svar. proizv. no.7:45 Jl '63. (MIRA 17:2)

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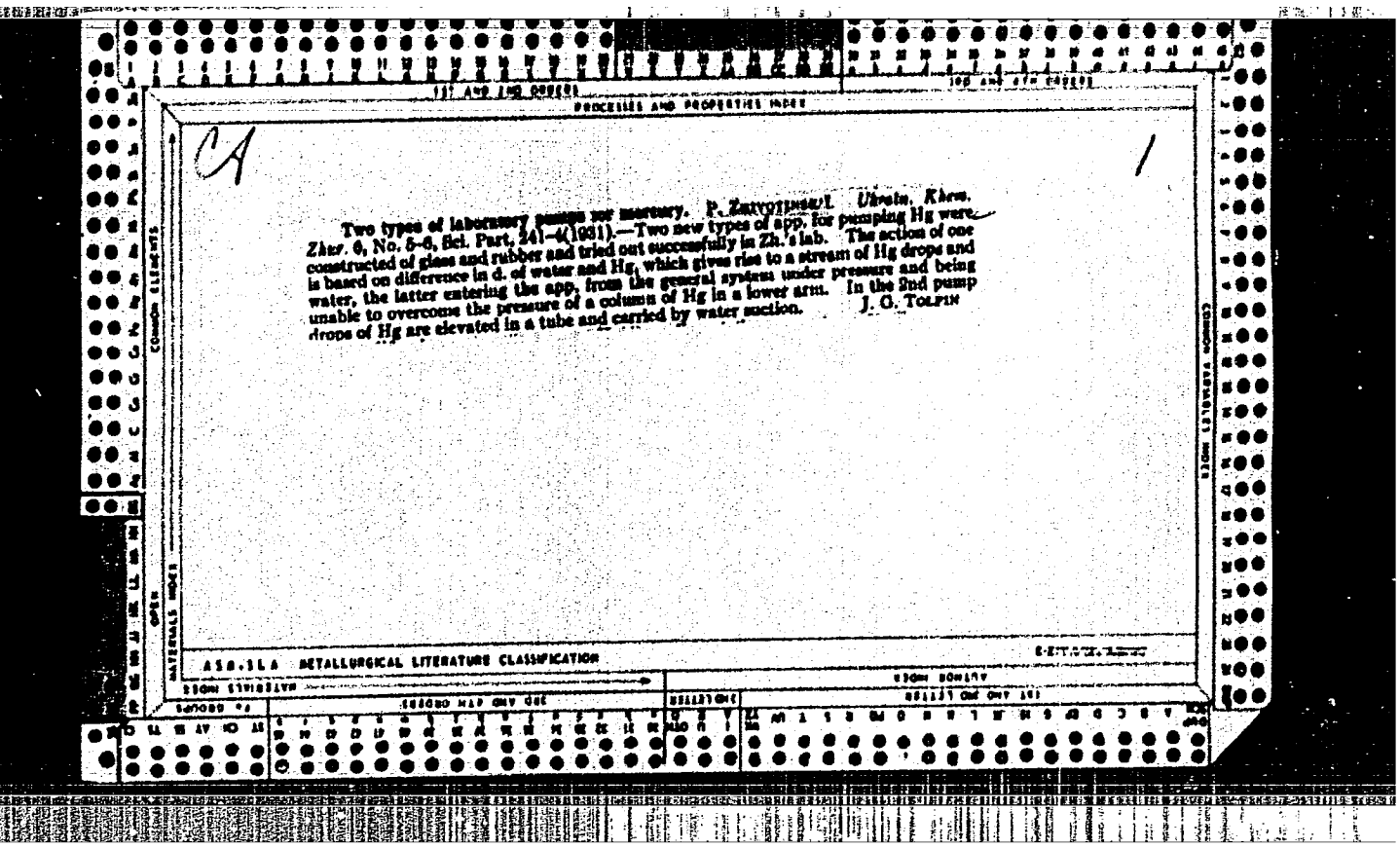

CA 1

Two types of laboratory pumps for mercury. P. Zaytsev and I. Ukrain. Khem. Zhur. 6, No. 5-6, Sci. Part, 241-4(1931).—Two new types of app. for pumping Hg were constructed of glass and rubber and tried out successfully in Zh.'s lab. The action of one is based on difference in d. of water and Hg, which gives rise to a stream of Hg drops and water, the latter entering the app. from the general system under pressure and being unable to overcome the pressure of a column of Hg in a lower arm. In the 2nd pump drops of Hg are elevated in a tube and carried by water suction. J. G. Tolpin

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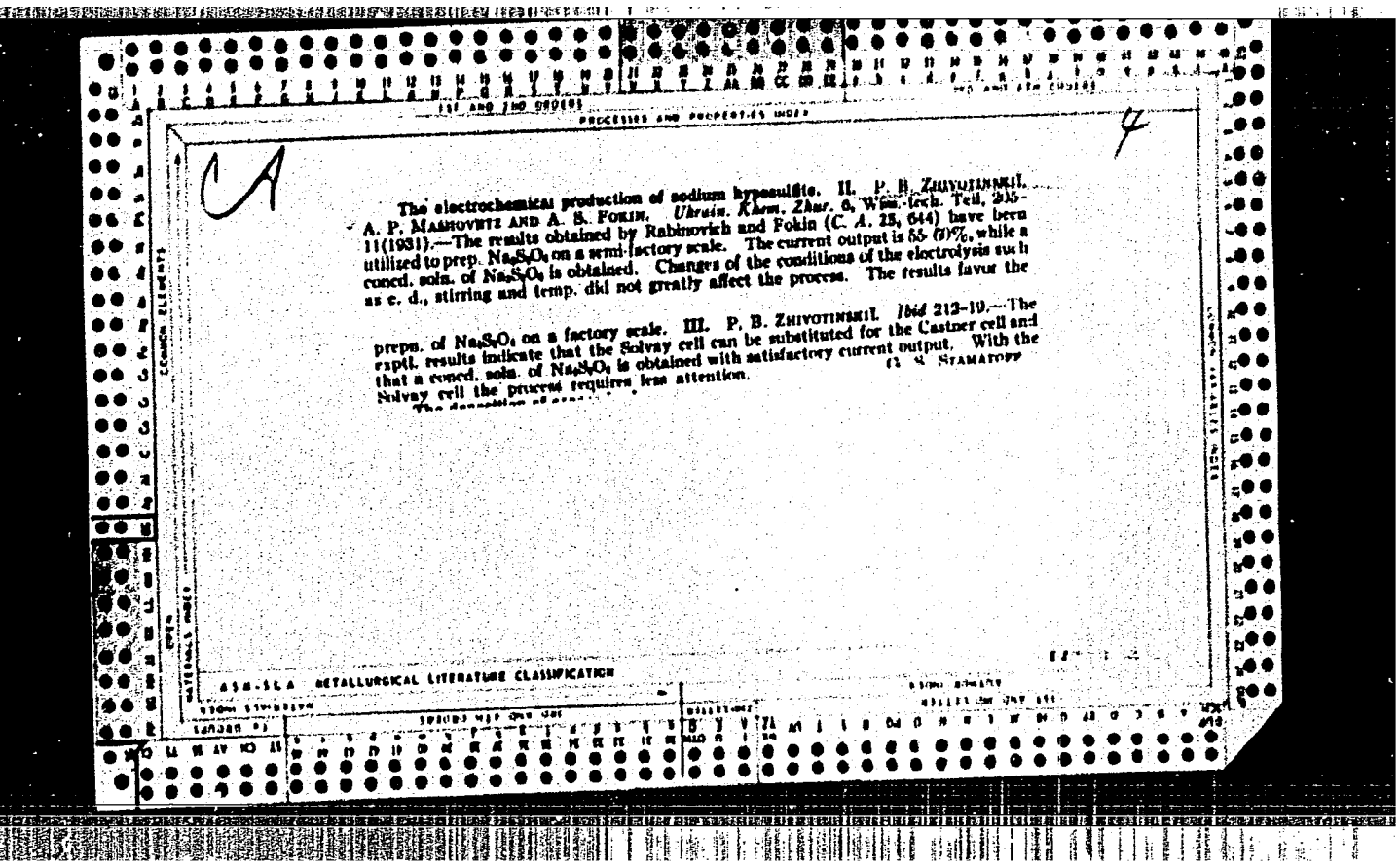

CA

4

The electrochemical production of sodium hyposulfite. II. P. B. ZHIVOTINSKII, A. P. MASHOVITZ AND A. S. FOKIN. *Ukrain. Khem. Zhur.* 6, Wiss.-tech. Teil, 205-11(1931).—The results obtained by Rabinovich and Fokin (*C. A.* 25, 644) have been utilized to prep. $Na_2S_2O_4$ on a semi-factory scale. The current output is 55-60%, while a concd. soln. of $Na_2S_2O_4$ is obtained. Changes of the conditions of the electrolysis such as c. d., stirring and temp. did not greatly affect the process. The results favor the prepn. of $Na_2S_2O_4$ on a factory scale. III. P. B. ZHIVOTINSKII. *Ibid* 212-19.—The exptl. results indicate that the Solvay cell can be substituted for the Castner cell and that a concd. soln. of $Na_2S_2O_4$ is obtained with satisfactory current output. With the Solvay cell the process requires less attention.

G. A. STAMATOFF

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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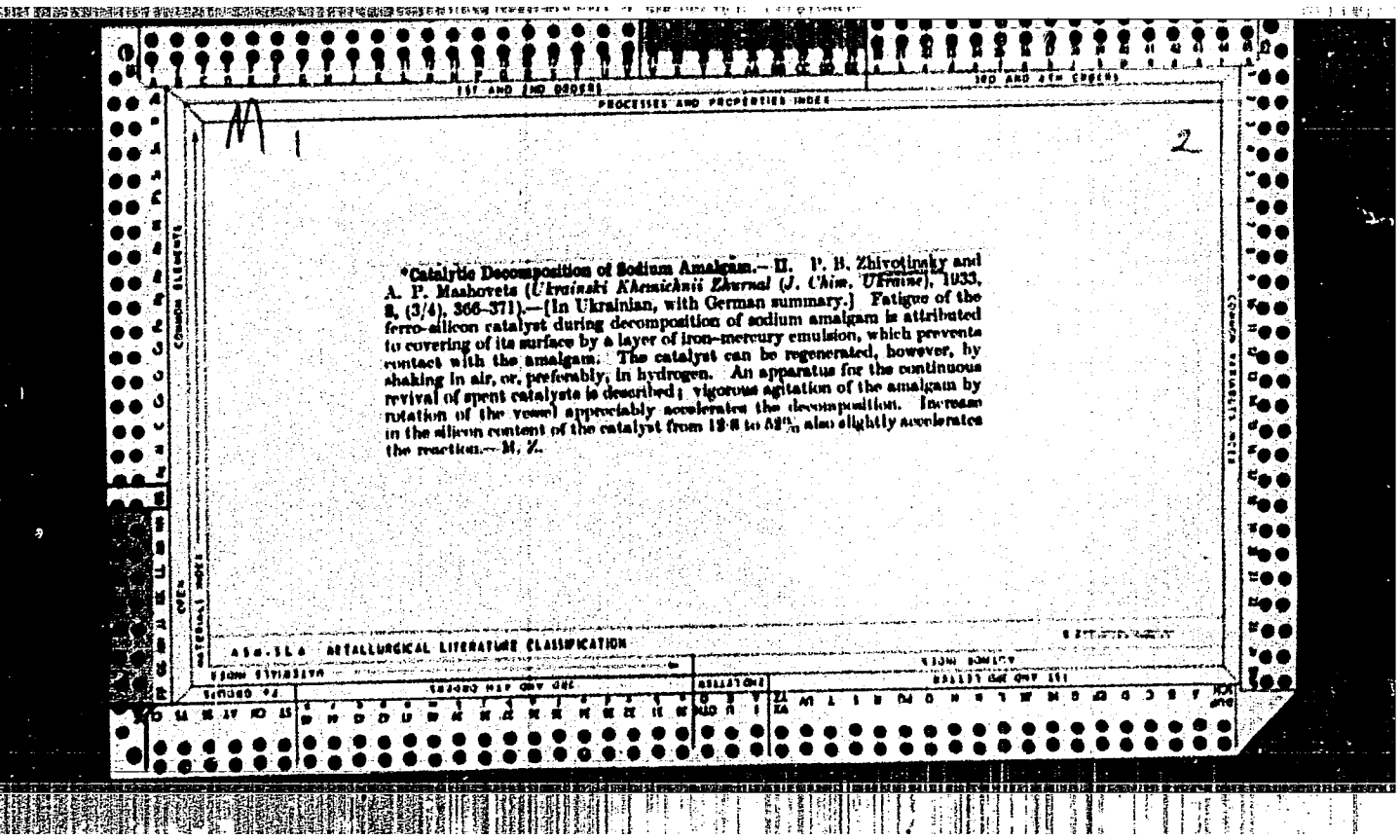

*Catalytic Decomposition of Sodium Amalgam.— II. P. B. Zhivotinsky and A. P. Mashovets (*Ukrainski Khimichnii Zhurnal* (*J. Chim. Ukraine*), 1933, 8, (3/4), 366–371).—[In Ukrainian, with German summary.] Fatigue of the ferro-silicon catalyst during decomposition of sodium amalgam is attributed to covering of its surface by a layer of iron–mercury emulsion, which prevents contact with the amalgam. The catalyst can be regenerated, however, by shaking in air, or, preferably, in hydrogen. An apparatus for the continuous revival of spent catalysts is described; vigorous agitation of the amalgam by rotation of the vessel appreciably accelerates the decomposition. Increase in the silicon content of the catalyst from 13·6 to 19% also slightly accelerates the reaction.— M. Z.

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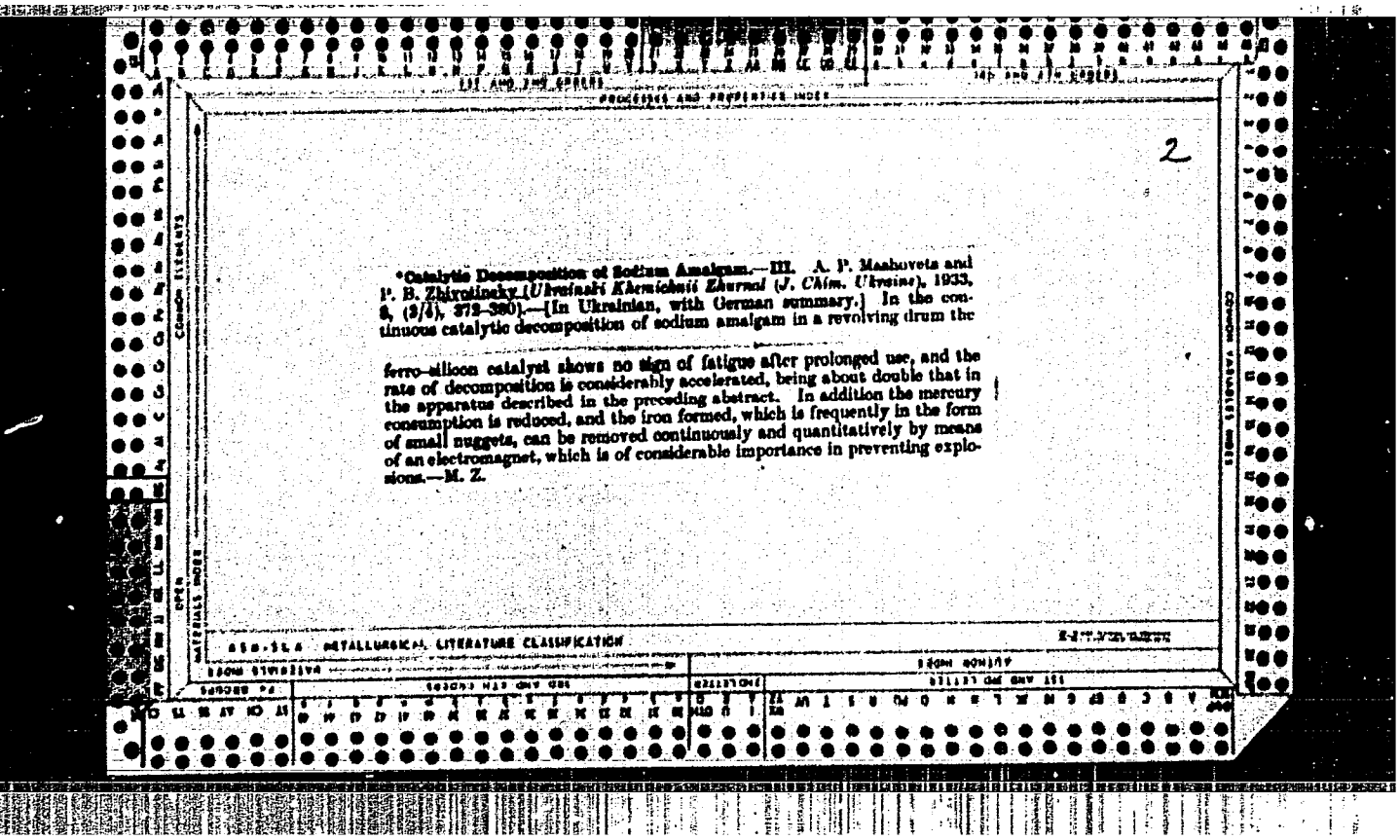

2

*Catalytic Decomposition of Sodium Amalgam.—III. A. P. Mashovets and P. B. Zhivotinsky (*Ukrainski Khemichni Zhurnal* (*J. Chim. Ukraine*), 1933, 8, (3/4), 372–380).—[In Ukrainian, with German summary.] In the continuous catalytic decomposition of sodium amalgam in a revolving drum the ferro-silicon catalyst shows no sign of fatigue after prolonged use, and the rate of decomposition is considerably accelerated, being about double that in the apparatus described in the preceding abstract. In addition the mercury consumption is reduced, and the iron formed, which is frequently in the form of small nuggets, can be removed continuously and quantitatively by means of an electromagnet, which is of considerable importance in preventing explosions.—M. Z.

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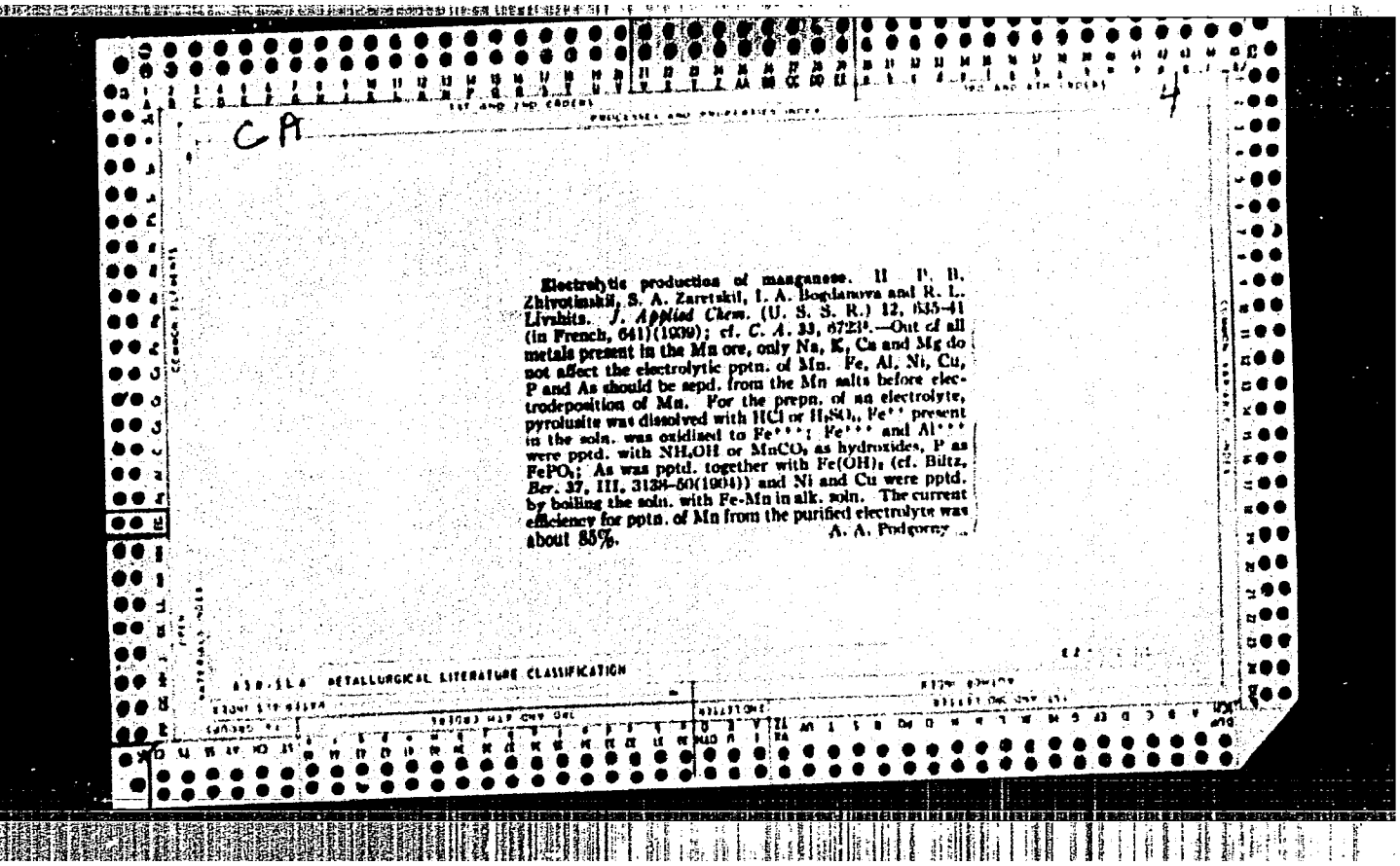

CP

Electrolytic production of manganese. II P. B. Zhivotinskii, S. A. Zaretskii, I. A. Bogdanova and R. L. Livshits. *J. Applied Chem.* (U. S. S. R.) 12, 635-41 (in French, 641)(1939); cf. *C. A.* 33, 6721⁹.—Out of all metals present in the Mn ore, only Na, K, Ca and Mg do not affect the electrolytic pptn. of Mn. Fe, Al, Ni, Cu, P and As should be sepd. from the Mn salts before electrodeposition of Mn. For the prepn. of an electrolyte, pyrolusite was dissolved with HCl or H_2SO_4, Fe^{++} present in the soln. was oxidized to Fe^{+++}; Fe^{+++} and Al^{+++} were pptd. with NH_4OH or $MnCO_3$ as hydroxides, P as $FePO_4$; As was pptd. together with $Fe(OH)_3$ (cf. Biltz, *Ber.* 37, III, 3138-50(1904)) and Ni and Cu were pptd. by boiling the soln. with Fe-Mn in alk. soln. The current efficiency for pptn. of Mn from the purified electrolyte was about 85%.

A. A. Podgorny

4

A10-51A METALLURGICAL LITERATURE CLASSIFICATION

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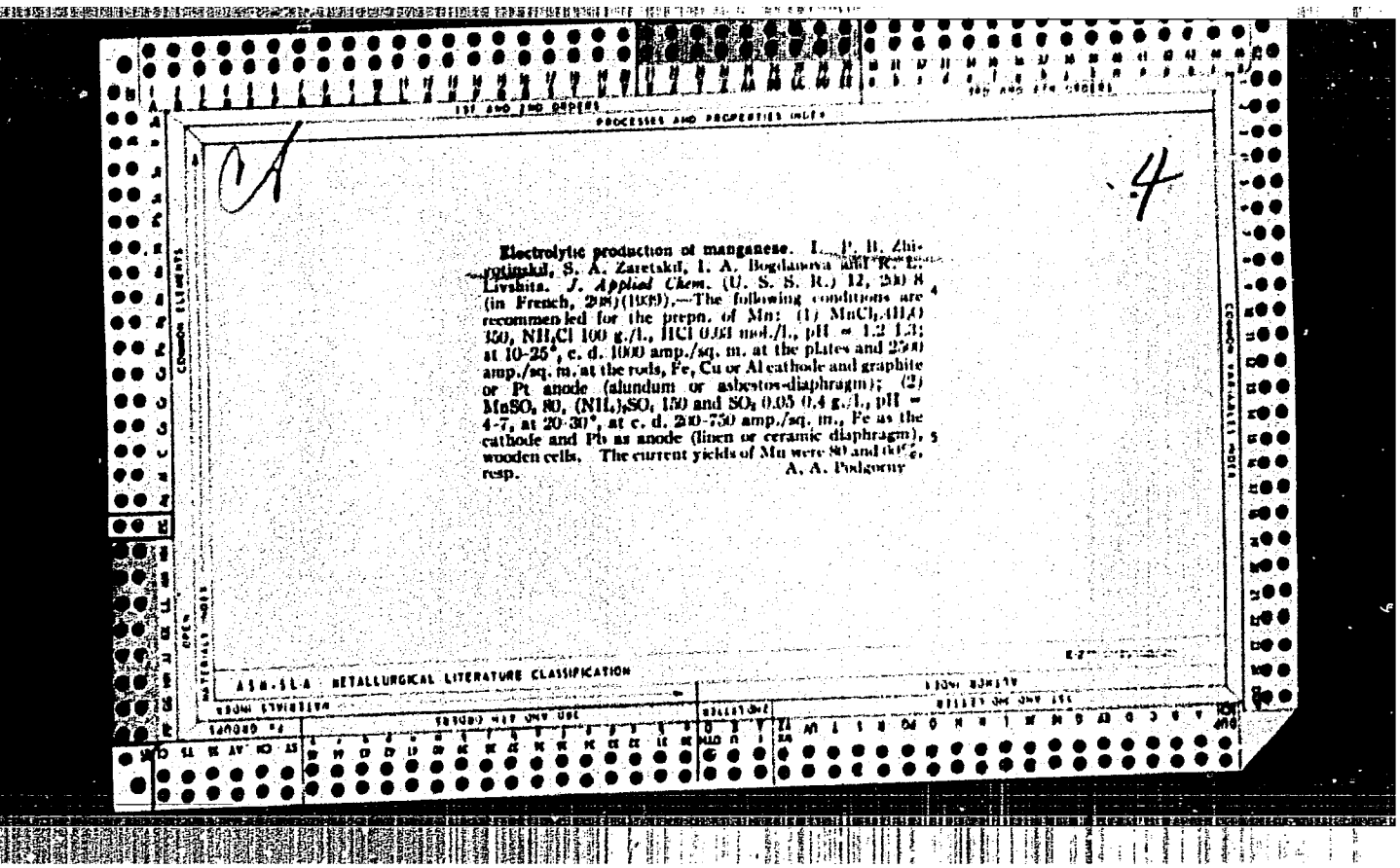

PROCESSES AND PROPERTIES INDEX

CA

4

Electrolytic production of manganese. I. P. B. Zhitotinskii, S. A. Zaretskii, I. A. Bogdanova and R. E. Livshits. *J. Applied Chem.* (U. S. S. R.) 12, 580 8 (in French, 288)(1939).—The following conditions are recommended for the prepn. of Mn: (1) $MnCl_2.4H_2O$ 350, NH_4Cl 100 g./l., HCl 0.05 mol./l., pH = 1.2 1.3; at 10-25°, c. d. 1000 amp./sq. m. at the plates and 2500 amp./sq. m. at the rods, Fe, Cu or Al cathode and graphite or Pt anode (alundum or asbestos-diaphragm); (2) $MnSO_4$ 80, $(NH_4)_2SO_4$ 150 and SO_2 0.05 0.4 g./l., pH = 4-7, at 20-30°, at c. d. 200-750 amp./sq. m., Fe as the cathode and Pb as anode (linen or ceramic diaphragm), wooden cells. The current yields of Mn were 80 and 60%, resp. A. A. Podgorny

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

FEDOT'YEV, N.P., prof.; ALABYSHEV, A.F.; ROTINYAN, A.L.; VYACHESLAVOV, P.M.; ZHIVOTINSKIY, P.B.; GAL'NBEK, A.A.; MORGACHEVSKIY, A.G., red.; ERLIKH, Ye.Ya., tekhn. red.

[Applied electrochemistry]Prikladnaia elektrokhimiia. Leningrad, Goskhimizdat, 1962. 638 p. (MIRA 15:12)
(Electrochemistry)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ROTINYAN, A.L.; KHEYFETS, V.L.; ZHIVOTINSKIY, P.B.

Contribution to the theory of electrolysis of alkali metal chlorides in baths with a filtering diaphragm. Zhur. prikl. khim. 38 no.1:78-83 Ja '65. (MIRA 18:3)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKEVICH, V.

Let's fully carry out every resolution. Sov.profsoiuzy 7 no.22:33-34 N '59. (MIRA 12:12)

1. Chlen prezidiuma postoyanno deystvuyushchego proizvodstvennogo soveshchaniya Stalingradskogo rechnogo porta. (Stalingrad--Harbor) (Works councils)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKEVICH, V.I.

Adopt economic accountability more extensively in all phases of port activity. Rech. trans. 18 no.8:45-46 Ag '59. (MIRA 12:12)

1. Nachal'nik Volgo-Donskogo uchastka Stalingradskogo porta.
(Inland water transportation--Accounting)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKO, B.I., kandidat tekhnicheskikh nauk.

Separating stones from root crops at the time of washing.
Sel'khozmashina no.8:23 Ag '56. (MLRA 9:10)

(Root crops) (Farm equipment)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

TRUBILKO, N.P.; GABYSHEV, M.F., professor, redaktor; ZHIVOTKO, B.I., kandidat tekhnicheskikh nauk; redaktor; ALEKSANDROVICH, Kh., tekhnicheskiy redaktor

[Economic efficacy of mechanizing work on collective farm stock sections] Ekonomicheskaia effektivnost' mekhanizatsii truda na zhivotnovodcheskikh fermakh kolkhozov. Minsk, Izd-vo Akad.nauk Belorusskoi SSR, 1957. 110 p. (MLRA 10:9)
(Stock and stockbreeding) (Farm mechanization)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKO, Boris Ivanovich; RABINOVICH, A., red.; TRUKHANOVA, A., tekhn. red.

[Machines and devices for ensiling corn] Mashiny i prisposobleniia dlia silosovaniia kukuruzy. Minsk, Gos.izd-vo BSSR, Red.sel'khoz. lit-ry, 1958. 40 p. (MIRA 13:4)
(Corn (Maize)) (Ensilage)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

PIUNOVSKIY, I.I., kand. tekhn. nauk; ZHIVOTKO, B.I., kand. tekhn. nauk; RUKTESHEL', S.V., kand. tekhn. nauk; SHTOMPEL', B.N., kand. tekhn. nauk; BUTVILOVSKIY, F.A., inzh.; KORZHENEVSKAYA, R.A., inzh.; LOGVINOVICH, I.P., inzh.; UTEVSKAYA, L.I., kand. tekhn. nauk; RUNTSO, A.A., kand. tekhn. nauk; NAGORSKIY, I.S., kand. tekhn. nauk; TERPILOVSKIY, K.F., kand. tekhn. nauk; LOSEV, V.I., kand. tekhn. nauk; YAROSHEVICH, A.A., kand. tekhn. nauk; KATSYGIN, V.V., kand. tekhn.nauk, red.; BOROVNIKOVA, R., red.

[Problems of the technology of mechanized agricultural production] Voprosy tekhnologii mekhanizirovannogo sel'skokhoziaistvennogo proizvodstva. Minsk, Izd-vo "Urozhai." Pt.2. 1964. 336 p. (MIRA 17:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva nechernozemnoy zony SSSR.

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ZHIVOTKOV, A., inzh.

Trenchless stonecutting machine designed by P.S. Kuziachkin.
Stroi. mat. 4 no.9:11-12 S '58. (MIRA 11:10)
(Quarries and quarrying--Equipment and supplies)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKOV, Kh.

25898. ZHIVOTKOV, Kh. Diferentsial'naya diagnostika vidov polovoy okhoty kobyl. Veterinariya, 1949, No. 8, S. 44-47.

So. Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKOV, Kh.

"Differential diagnosis of the types of sexual estrus in mares."

SO: Vet. 26 (8), 1949, p 44

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

1. ZHIVOTKOV, Kh. I.

2. USSR (600)

3. Horse Breeding

4. Problem of winter and early spring breeding of mares.
Konevodstvo No. 10 - 1952
2 pp.

9. Monthly List of Russian Acessions, Library of Congress, February. Unclassified. 1953.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKOV, Kh. (Laureate of the Stalin Prize, Merited Vet. of the RSFSR)

"Abortions of mares in early stage of pregnancy."

SO: Veterinariia 29 (11), 1952, p. 55

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

1. ZHIVOTKOV, Kh.

2. USSR (600)

4. Horses - Diseases

7. Abortion in mares during early stages of foaling. Veterinariia 29 no. 11, 1952.

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

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

1. ZHITKOV, Kh.

2. USSR (600)

4. Abortion in Animals

7. Abortion in mares during early stages of foaling, Veterinariia 29, No. 11, 1952.

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

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKOV, Kh.I., zasluzhennyy veterinarnyy vrach RSFSR

Method for the preparation of teaser bulls. Veterinariia 41 no.3:79-80 Mr '65. (MIRA 18:4)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKOV, S.G.; YAMPOL'SKIY, K.I., inzh.

Practice of using portable gas welding units in the repair of communication cables. Vest. sviazi 22 no.5:22-23 My '62. (MIRA 15:5)

1. Nachal'nik Upravleniya kabel'noy i radiorelaynoy magistrali, g. Kuybyshev (for Zhivotkov).

(Electric cables--Welding)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTKOV, S.G.; NOSOVA, A.A.

Experience in the introduction of business accounting in the technical administrations of long-distance cable and radio relay lines. Vest. sviazi 24 no.4:30-31 Ap '64. (MIRA 17:9)

1. Nachal'nik Upravleniya tekhnicheskoy ekspluatatsii kabel'nykh i radioreleynykh magistraley (for Zhivotkov). 2. Starshiy inzhener-ekonomist Upravleniya tekhnicheskoy ekspluatatsii kabel'nykh i radioreleynykh magistraley (for Nosova).

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

SHASHIN, Petr Petrovich, inzh.-meliorator; ZHIVOTKOV, V., red.; IVANOV,N., tekhn. red.

[Improvement of meadows is an urgent task of collective and state farms] Uluchshenie lugov - neotlozhnoe delo kolkhozov i sovkhozov. Kaluga, Kaluzhskoe knizhnoe izd-vo, 1959. 17 p. (MIRA 15:1)

1. Kaluzhskoye oblastnoye upravleniye sel'skogo khozyaystva (for Shashin).

(Pastures and meadows)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

SHER, I.D., prof.; ZHIVOTKOVA, L.P., kand. ekon.nauk; TAL'MINA, P.V., kand. ekon.nauk; BUNICH, P.G., prof.; BASMANOV, V.A.; ROGOVTSEV, S.Ye.; KONDRAT'YEVA, A., red.; TELEGINA, T., tekhn. red.

[Finance of industry and construction] Finansy promyshlennosti i stroitel'stva. [By] I.D.Sher i dr. Moskva, Gosfinizdat, 1963. 288 p. (MIRA 16;11)

(Finance)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

BABAYEV, V.I., inzh.; GRANOVSKAYA, R.M., inzh.; ZHIVOTKOVA, L.V.; BONDARENKO, I.S.

Removal of suspended matter from neutralized wastes in the manufacture of synthetic fatty acids. Masl.-zhir. prom. 29 no.3:32-34 Mr '63. (MIRA 16:4)

1. Shebekinskiy kombinat sinteticheskikh zhirnykh kislot i zhirnykh spirtov.
(Acids, Fatty) (Industrial wastes)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOK, I.I.

Emulsion for lubricating molds. Bet. i zhel.-bet. 8 no.5:243 My (MIRA 15:6)

1. Glavnyy inzhener Zavoda zhelezobetonnykh konstruktsiy No.5 Upravleniya Promstroymaterialov Khar'kovskogo sovnarkhoza.
(Lubrication and lubricants)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

DAVIDOV, A.A., inzhener; SHMUKLER, B.I., inzhener; ZHIVOTOV, A.P., inzhener; RAKOV, K.A., kandidat tekhnicheskikh nauk.

Dynamic characteristics of once-through-type boilers.
Teploenergetika 3 no.11:19-25 N '56. (MLRA 9:12)

1. Moskovskoye otdeleniye Kotloturbinnogo instituta i Vsesoyuznyy teploteknicheskiy institut imeni Dzerzhinskogo.
(Boilers)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

1. KISELEV, P. I. ZHIVOTOV, A. P.

2. USSR (600)

4. Stokers, Mechanical

7. Testing a screw stoker for pulverized coal. Elek. sta. no 11: N '52

9. Monthly List of Russian Accessions, Library of Congress, Feb. 1953. Uncalssified.

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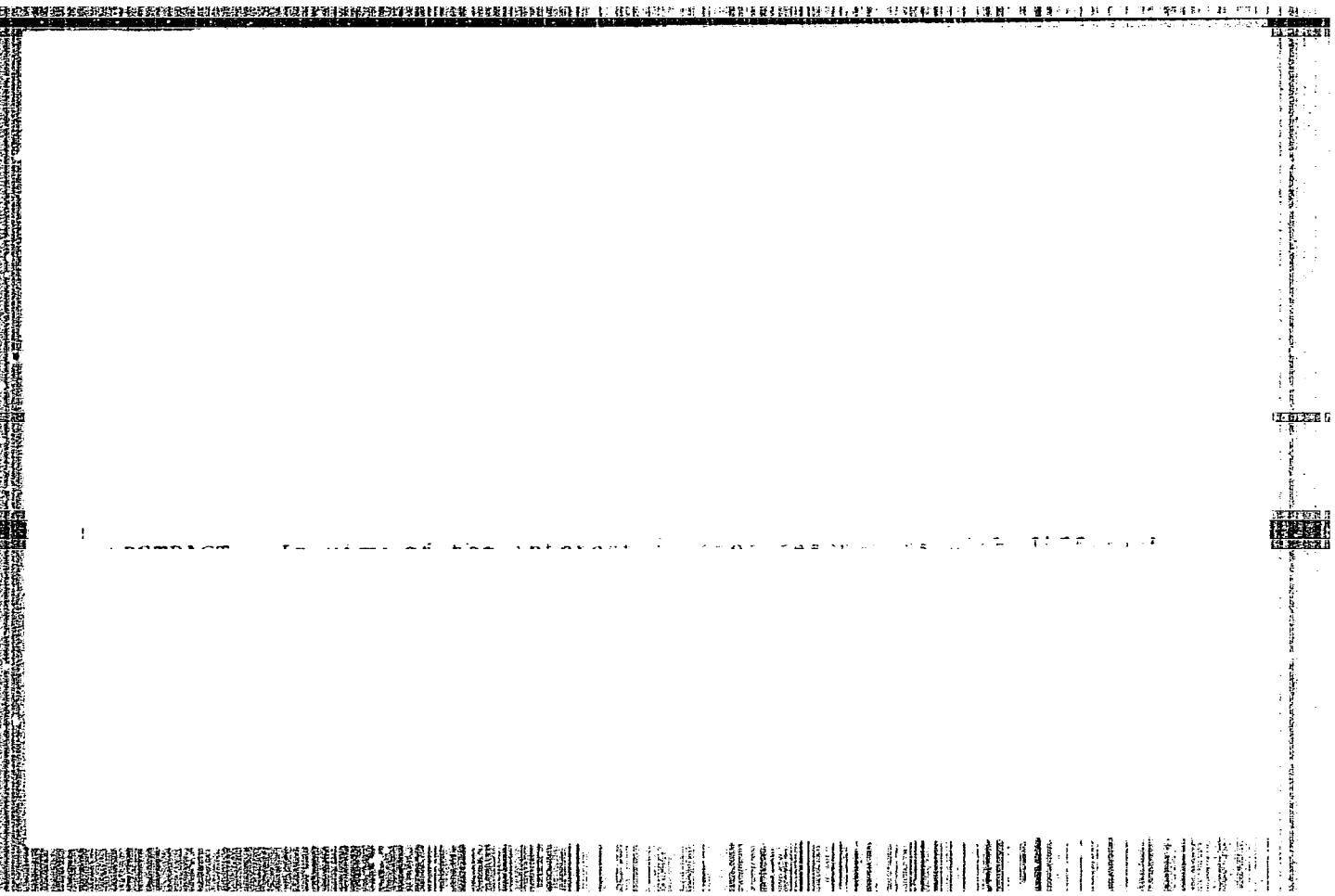

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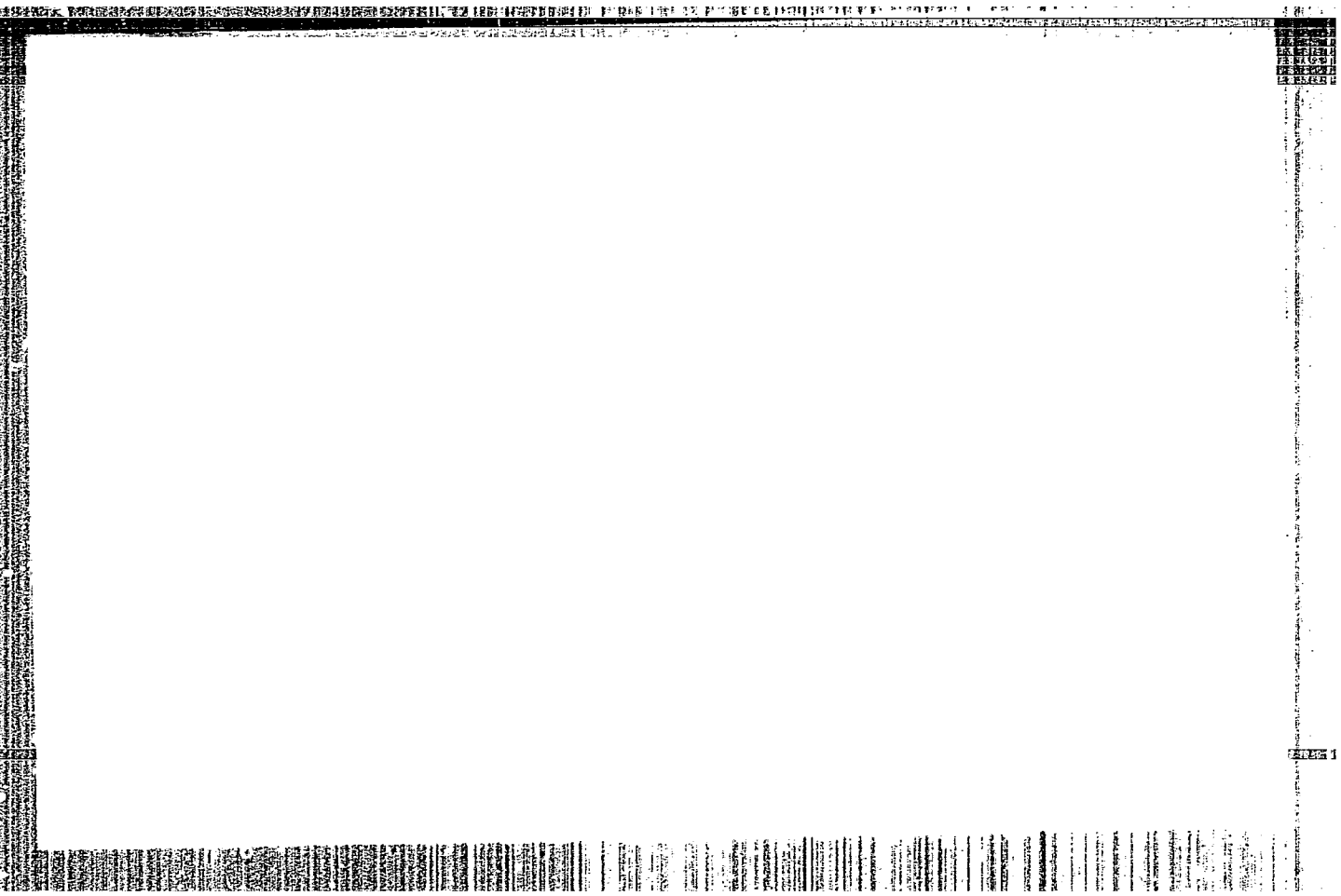

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVA, G.P.

Basal metabolism in hypertension and effect of protective inhibition therapy on its changes. Klin. med., Moskva 31 no.5:60-66 May 1953. (CLML 25:1)

1. Of the Faculty Therapeutic Clinic (Director -- Prof. L. A. Varshamov), Saratov Medical Institute.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVA, Galina Petrovna

Gas Exchanges of Patients of Hypertonical Diseases and Their Changes under the Influence of Therapeutic (snom)

Dissertation for candidate of a Medical Science degree. Chair of the Department of Therapeutic (lechfaka) (head, Prof. L.A. Varshamov) Saratov Medical Institute, 1956

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

USSR/General and Systematic Zoology. Insects. Systematics and Faunistics. P

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11521

Author : Zhivotovskaya, A.A.
Inst : Uzhgorod Univeristy
Title : Concerning the Fauna of Halticinae (Chrysomelidae) in Zakarpatskaya Oblast'.

Orig Pub : Dokl. i soobshch. Uzhgorodsk. un-t, 1957, No 1, 51-52

Abstract : An inventory of 81 flea species (from 20 genera), indigenous to Transcarpathia; 7 of these species are new for the oblast'.

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15-1957-3-2800

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3, p 40 (USSR)

AUTHOR: Zhivotovskaya, A.I.

TITLE: The "Brown" Clays of Southern Primor'ye and the Tertiary-Quaternary Boundary (O "burykh" glinakh yuzhnogo Primor'-ya i tretichno-chetvertichnoy granitse)

PERIODICAL: Materialy Vses. n-i. geol. in-ta, 1956, Nr 1, pp 74-88

ABSTRACT: "Brown" clays have been identified as weathering crusts on basalts (Ussuri river basin), gneisses, and Archean schists (Kabarga river basin). A gradual transition is observed from the stage of mechanical disintegration to the clay stage. The rocks of the crust of weathering are affected by their structure, inasmuch as they disintegrate into individual polyhedral and trapezohedral forms averaging 5 to 6 mm across. The rocks lack stratification, are very dense, and have little plasticity. Thermal, silicate, and spectral analyses of the clay fraction indicate beidellitic clay with abundant iron

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The "Brown" Clays of Southern Primor'ye and the Tertiary-Quaternary Boundary

(combined as ferribeidellite). The iron is also present in oxide form, which gives the rock its color (shades of brown). The change in the mineralogy of the sandy fraction of the clay layer depends on the original composition of the rock. This weathering crust is widely developed in the basin of the Ussuri River, where the parent rocks are biotite, pyroxene, plagioclase, and garnet gneisses; Archean and Proterozoic schists; migmatites; pegmatatites; and late Tertiary basalts. In the basin of the Iman, Ulakhe, and Daubikhe Rivers, the crust of weathering has formed on porphyries and Permian mudstones and volcanics. The thickness ranges from 0.5 to 45 m (in the lower course of the Ussuri River). In places, redeposition of the crust has been observed, and the clays now rest on Pliocene gravels. The mineralogy of the reworked crust is the same as that of the clay which occurs in situ. The specific gravity of the latter is somewhat greater because heavy minerals from the parent rocks are still present in it. The author considers swelling in the clays to be the cause of movement of the crust. Such swelling

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The "Brown" Clays of Southern Primor'ye and the Tertiary-Quaternary Boundary

causes the volume to increase several times and induces the clay to creep over other rocks. The somewhat unclear geomorphological position of the "brown" clays has not permitted the stratigraphic position to be ascertained, and this uncertainty has led investigators to consider them as transitional formations between the Tertiary and the Quaternary. The nature of the weathering and the presence of pollen from xerophytic plants in both the "brown" clays and the underlying gravels permit their unification into the single Khankayskaya series. The underlying Suyfunskaya series was deposited in a moist and temperature climate, as shown by plant remains. A time boundary is clearly drawn between these two series. The gravels of the Khankayskaya series consist of slightly deformed layers, which were deposited by mountain streams. And inasmuch as they are covered by clays, they occur on divides and are not connected with modern networks of water drainage. This relation defines their age as pre-Quaternary (upper Pliocene). The Suyfunskaya series is considered to be lower Pliocene. The change in plant

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The "Brown" Clays of Southern Primor'ye and the Tertiary-Quaternary Boundary 15-1957-3-2800

varieties which occurred at the boundary between the two series does not agree with the opinion of A. N. Krishtofovich /Materialy po chetvertichnoy geologii SSSR (Data on the Quaternary Geology of the USSR), 1932, pt 1/ on the persistence of life forms in the Far East. The fact that a thick crust of weathering developed is evidence that there was a long break in the tectonic activity of the region at the boundary of the Pliocene and the Quaternary.

Card 4/4

L. P. A.

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ZHIVOTOVSKAYA, A.I.

Loess in the Ussuri Lowland. Mat. VSEGEI no.1:89-93 '56.
(MLRA 10:1)

(Ussuri Valley--Loess)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKAYA, A.I.

Structure of the Unguz series of the Unguz Kara Kum in Turkmenia. (MIRA 14:9)
Trudy VSEGEI 42:228-237 '60.
(Kara Kum--Geology, Stratgraphic)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKAYA, A.I.

Regularities in the distribution of sediments of the Unguz series in the eastern part of the Unguz Kara Kum. Trudy VSEGEI 46.354-363 '61. (MIRA 14:11)

(Kara Kum--Rocks, Sedimentary)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKAYA, A.I.; SHNEYDER, G.F.

Age of the Trans-Unguz series of Turkmenistan. Dokl.AN SSSR 138 no.4:895-896 Je '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut i Kompleksnaya neftegazovaya geologicheskaya ekspeditsiya Instituta geologii i razrabotki goryuchikh iskopayemykh AN SSSR.
(Turkmenistan—Geology, Stratigraphic)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKAYA, A.I.

Bars in the oolithic basin of Middle Pliocene in the Zaunguzskye Karakumy. Izv. AN Turk. SSR. Ser. fiz.-takh., khim. i geol. nauk. no.4:94-102 '63. (MIRA 17:2)

1. Institut geologii AN Turkmenskoy SSR.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKAYA, A.I.

Pliocene river in the eastern trans-Unguz region. Trudy VSEGEI 109:44-54 '63. (MIRA 17:7)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKAYA, A.I.; KALDAROV, M.K.

Geological stages of the formation of underground waters in the northern Kara-Kum. Izv. AN Turk.SSR.Ser.fiz.-tekh., khim. i geol.nauk no.5:81-89 '65. (MIRA 18:11)

1. Institut pustyn' AN Turkmenskoy SSR. Submitted December 29, 1963.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKAYA, E.A., vrach

Case of a uterine-abdominal wall fistula in atresia of the cervical canal. Sbor. nauch. rab. Kaf. akush. i gin, GMI no.1:167-168 '60.
(MIRA 15:4)

1. Ginekologicheskoye otdeleniye rodil'nogo doma No.5 g. Gor'kogo. Glavnyy vrach Shchukin, M.M. Zaveduyushchaya otdeleniyem Nemchaninova, Ye.P.

(FISTULA, UTERINE) (UTERUS—DISEASES)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

KAMENETSKIY, S.I., dotsent; LYUBOMUDROV, B.Ye.; ZHIVOTOVSKAYA, I.A.; MATVEYEVA, K.M.; OFFENGENDEN, S.M. (Donetsk)

Pulmonary diseases in systemic vasculitis. Klin.med. no.12:72-78 '61. (MIRA 15:9)

1. Iz kafedry fakul'tetskoy terapii No.2 (zav. - dotsent S.I. Kamenetskiy) Donetskogo meditsinskogo instituta (dir. - dotsent A.M. Ganichkin) i Donetskogo nauchno-issledovatel'skogo instituta fiziologii truda (dir. - kand.med.nauk B.N. Chopko).
(LUNGS--DISEASES) (PERIARTERITIS NODOSA)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

KAMENETSKIY, S.I., dotsent; LYUBOMUDROV, V.Ye., kand.med.nauk;
ZHIVOTOVSKAYA, I.A.; MATEYEVA, K.M.

Early diagnosis and treatment of periarteritis nodosa. Vrach. delo no.5:34-37 My '62. (MIRA 15:6)

1. Kafedra fakul'tetskoy terapii II (zav. - dotsent S.I. Kamenetskiy) Donetskogo meditsinskogo instituta i klinicheskiy otdel (ispolnyayushchiy obyazannosti rukovoditelya - kand.med. nauk V.Y. Lyubomudrov) Donetskogo nauchno-issledovatel'skogo instituta fiziologii truda.
(ARTERIES—DISEASES)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

SMIRNOV, V.N., dotsent; ZHIVOTOVSKAYA, I.L., ordinator; MARCHENKO, L.A., ordinator; SLAVINA, I.P., ordinator

Eosinopenia as a symptom in the differential diagnosis of myocardial infarct in its early stages. Kaz. med. zhur. no. 4:11-13 Jl-Ag '60. (MIRA 13:8)

1. Iz 1-y kafedry terapii (zav. - prof. L.M. Rakhlin) Kazanskogo gosudarstvennogo institut dlya usovershenstvovaniya vrachey im. V.I. Lenina.
(EOSINOPHILES) (HEART--INFRACTION)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

GENDELEVICH, S.I.; ZHIVOTOVSKAYA, L.A.; POPPE, K.K.

Letters to the editor. Zhur.nevr.i psikh. 60 no.9:1240-1242 '60.
(MIRA 14:1)

(SCHIZOPHRENIA)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

REZNIK, B.Ya. [Rieznik, B.IA.], kand.med.nauk; ZHIVOTOVSKAYA, S.Ya. [Zhyvotovs'ka, S.Ia.]; APANOVICH, L.M.

Clinical characteristics of influenza in children. Ped., akush. i gin. 22 no.4:5-8 '60. (MIRA 14:5)

1. Klinika detskikh infektsionnykh bolezney (ispolnyayushchiy obyazannosti zaveduyushchego kafedroy - B.Ya.Reznik) Stalinskogo meditsinskogo instituta (direktor - dotsent A.M.Ganichkin [Hanichkin, A.M.]) na baze Stalinskoy oblastnoy klinicheskoy bol'nitsy im. M.I. Kalinina (glavnyy vrach - B.O.Shaparenko).
(INFLUENZA)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKAYA, Ye. D.

"On the Problem of Artificial Drying of the Sludge of City Waste Waters." Sub 20 Feb 51, Moscow Order of the Labor Red Banner Construction Engineering Inst imeni V. V. Kuybyshev

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

SO: Sum. No. 480, 9 May 55

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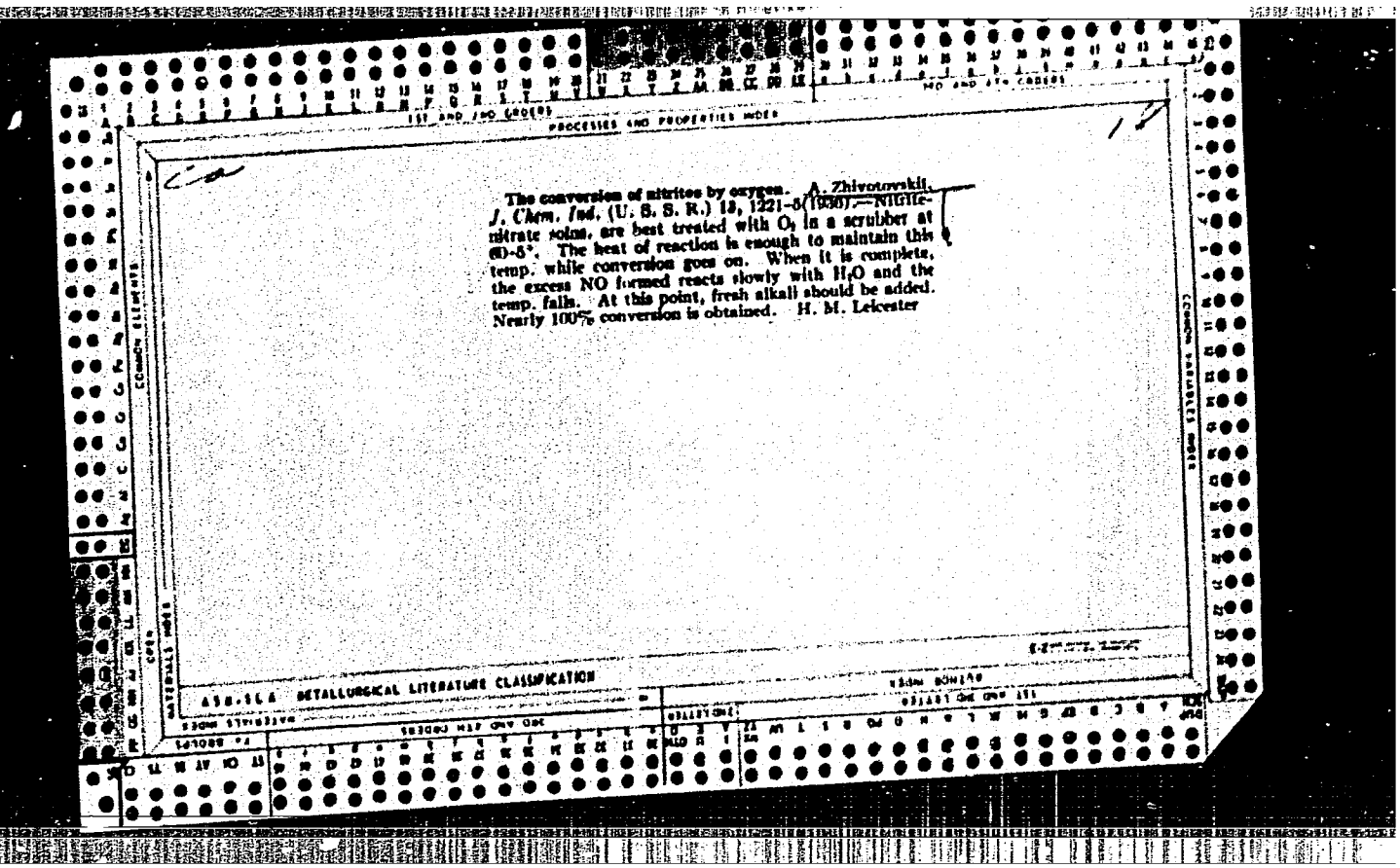

The conversion of nitrites by oxygen. A. Zhivotovskii. *J. Chem. Ind.* (U. S. S. R.) 13, 1221–5 (1936).—Nitrite-nitrate solns. are best treated with O_2 in a scrubber at 40–5°. The heat of reaction is enough to maintain this temp. while conversion goes on. When it is complete, the excess NO formed reacts slowly with H_2O and the temp. falls. At this point, fresh alkali should be added. Nearly 100% conversion is obtained. H. M. Leicester

METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKIY, A.

Type of a river tanker! Rech. transp. 21 no.5:26-27 My '62.
(MIRA 15:5)

1. Nachal'nik Otdela Glavnogo konstruktora zavoda "Krasnoye Sormovo".

(Tank vessels)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ACC NR: AR7000767 (N) SOURCE CODE: UR/0272/66/000/009/0064/0064

AUTHOR: Zhivotovskiy, A. A.; Konogray, B. Ya.

TITLE: Modern equipment for studying noise and vibration

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 9.32.430

REF SOURCE: Sb. nauchn. tr. N.-i. gornorudn. in-t. USSR, no. 8, 1965, 153-167

TOPIC TAGS: acoustic noise, vibration, noise measurement, vibration measurement, acoustic equipment

ABSTRACT: A survey is presented of existing equipment for measuring noise and vibration. The instruments are classified on the basis of their different characteristics. The principles applied to the measurement of noise level and vibration, and to the analysis of noise and vibration are examined. A description is given of the technical characteristics of several modern instruments. The text contains eight illustrations. A bibliography of 6 titles is included. P. Agaletskiy. [Translation of abstract] [DW]

SUB CODE: 20, 14/

Card 1/1 UDC: 620.178.53:534.835.46

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKIY, Aleksandr Andreyevich

ZHIVOTOVSKIY, Aleksandr Andreyevich; POTEMKIN, S.V., spetsial'nyy red.; STEBAKOVA, L.N., red.; BODANOVA, A.P., tekhn.red.

[New equipment and techniques for placer mining in the Northeastern U.S.S.R.] Novaia tekhnika i tekhnologiia na razrabotke rossypei Krainego Severo-Vostoka SSSR. [Magadan] Magadanskoe knizhnoe izd-vo, 1957. 103 p. (MIRA 11:2)
(Russia, Northeastern--Hydraulic mining)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

Zhivotovskiy, A.A. 137-1958-2-2255

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 6 (USSR)

AUTHOR: Zhivotovskiy, A.A.

TITLE: What the Designers at Yagodnyy Are Working on (Nad chem rabotayut konstruktory Yagodnogo)

PERIODICAL: Kolyma, 1957, Nr 6, pp 40-44

ABSTRACT: A description is given of special designs for: 1) a charging bin which permits the sand to be supplied to it directly by the scrapers; 2) a mobile metallic rock-dump attachment; 3) a system for installing an MPD-6 washer at the sand dump for underground mining and for use in the washing of sands from block surfaces in open-cut mining. Development engineers have drawn up designs for a helical water-removal unit for tailings and another for a mechanized rock-washing unit intended to cleanse the waste rock and remove it from the washer, etc.

A.Sh.

1. Mining—USSR 2. Equipment—Development 3. Equipment—Design

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ZHIVOTOVSKIY, A.A., inzh.; PERLIN, A.A., inzh.; REKSHINSKIY, M.S., inzh.; SHALKIN, M.K., inzh.

In defense of structural elements without knees. Sudostroenie 29 no.9:9-10 S '63. (MIRA 16:11)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

TSARINNIKOV, V.V.; IVANOV, G.N.; ZHIVOTOVSKIY, A.F.

Ship furniture made of plastics. Plast.massy no.7:50-54 '60.(MIRA 13:10)
(Furniture) (Plastics)

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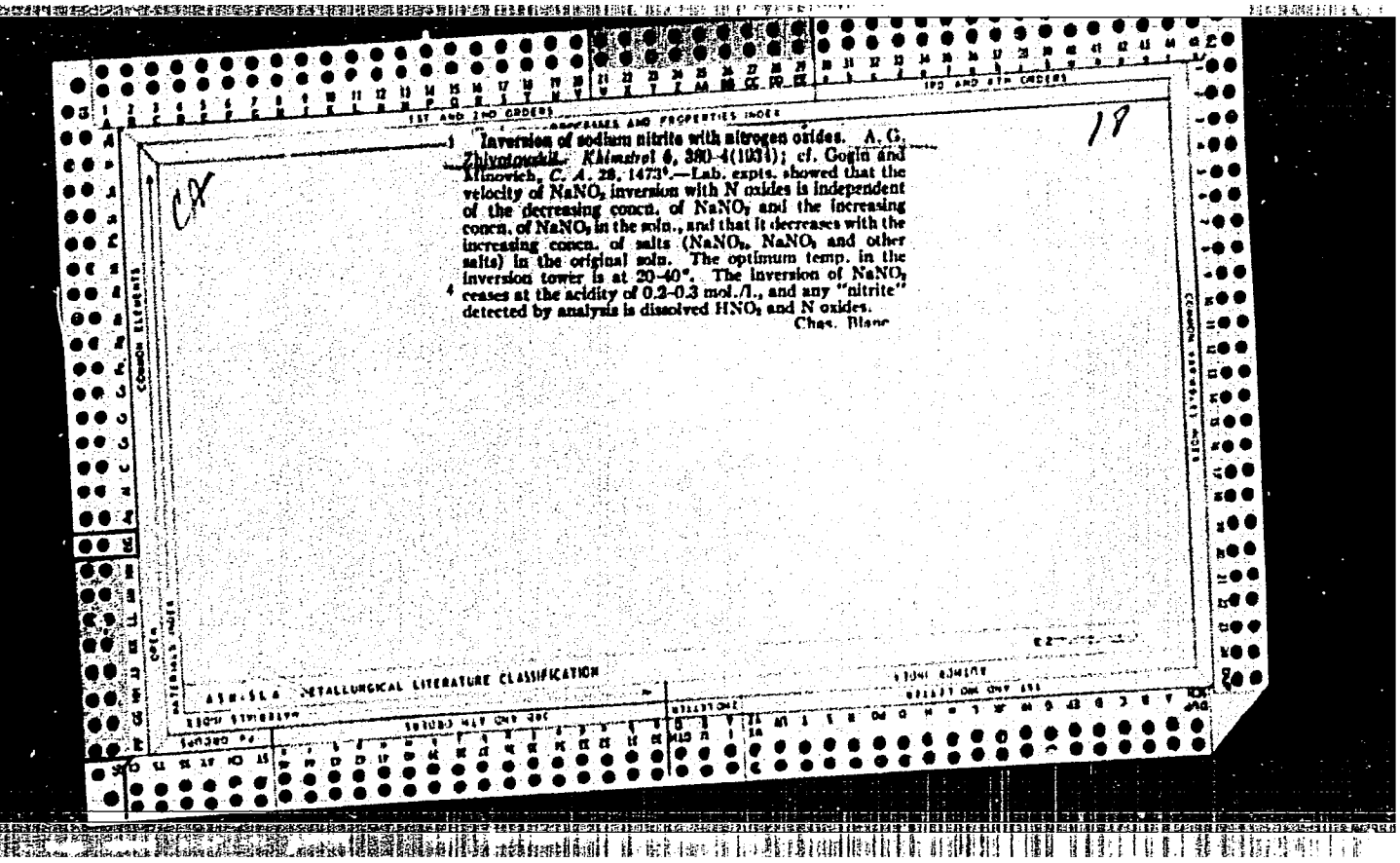

Inversion of sodium nitrite with nitrogen oxides. A. G. Zhivotovskii. *Khimstroi* 6, 380-4(1934); *cf.* Gogin and Klinovich, *C. A.* 28, 1473⁹.—Lab. expts. showed that the velocity of $NaNO_2$ inversion with N oxides is independent of the decreasing concn. of $NaNO_2$ and the increasing concn. of $NaNO_3$ in the soln., and that it decreases with the increasing concn. of salts ($NaNO_3$, $NaNO_3$ and other salts) in the original soln. The optimum temp. in the inversion tower is at 20-40°. The inversion of $NaNO_2$ ceases at the acidity of 0.2-0.3 mol./l., and any "nitrite" detected by analysis is dissolved HNO_2 and N oxides.

Chas. Blanc

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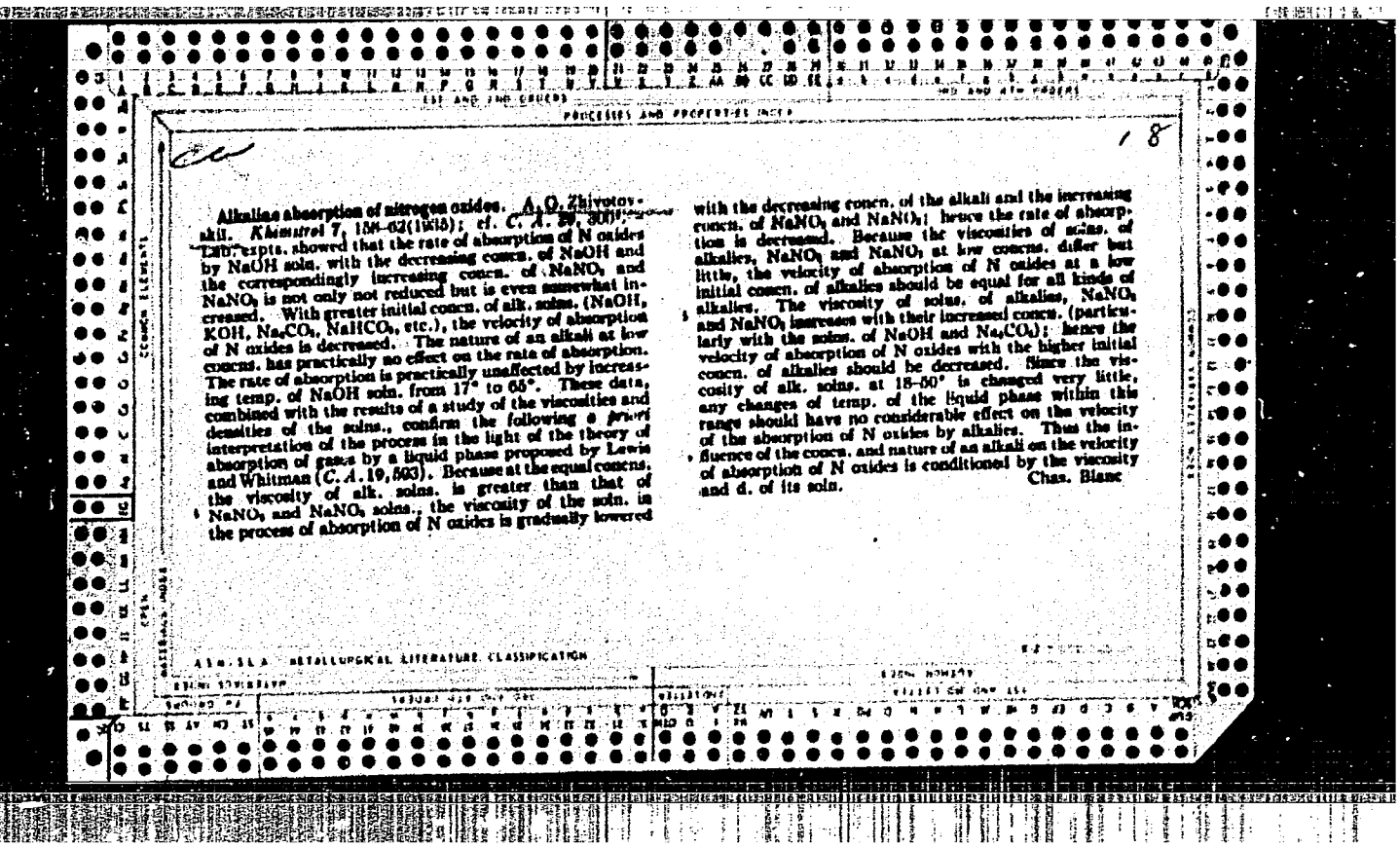

18

Alkalies absorption of nitrogen oxides. A. O. Zhivotovskii. *Khimstroi* 7, 158–62(1938); cf. *C. A.* 29, 3009. Lab. expts. showed that the rate of absorption of N oxides by NaOH solns. with the decreasing concn. of NaOH and the correspondingly increasing concn. of $NaNO_2$ and $NaNO_3$ is not only not reduced but is even somewhat increased. With greater initial concn. of alk. solns. (NaOH, KOH, Na_2CO_3, $NaHCO_3$, etc.), the velocity of absorption of N oxides is decreased. The nature of an alkali at low concns. has practically no effect on the rate of absorption. The rate of absorption is practically unaffected by increasing temp. of NaOH soln. from 17° to 65°. These data, combined with the results of a study of the viscosities and densities of the solns., confirm the following *a priori* interpretation of the process in the light of the theory of absorption of gases by a liquid phase proposed by Lewis and Whitman (*C. A.* 19, 503). Because at the equal concns. the viscosity of alk. solns. is greater than that of $NaNO_2$ and $NaNO_3$ solns., the viscosity of the soln. in the process of absorption of N oxides is gradually lowered with the decreasing concn. of the alkali and the increasing concn. of $NaNO_2$ and $NaNO_3$; hence the rate of absorption is decreased. Because the viscosities of solns. of alkalies, $NaNO_2$ and $NaNO_3$ at low concns. differ but little, the velocity of absorption of N oxides at a low initial concn. of alkalies should be equal for all kinds of alkalies. The viscosity of solns. of alkalies, $NaNO_2$ and $NaNO_3$ increases with their increased concn. (particularly with the solns. of NaOH and Na_2CO_3); hence the velocity of absorption of N oxides with the higher initial concn. of alkalies should be decreased. Since the viscosity of alk. solns. at 18–50° is changed very little, any changes of temp. of the liquid phase within this range should have no considerable effect on the velocity of the absorption of N oxides by alkalies. Thus the influence of the concn. and nature of an alkali on the velocity of absorption of N oxides is conditioned by the viscosity and d. of its soln.

Chas. Blanc

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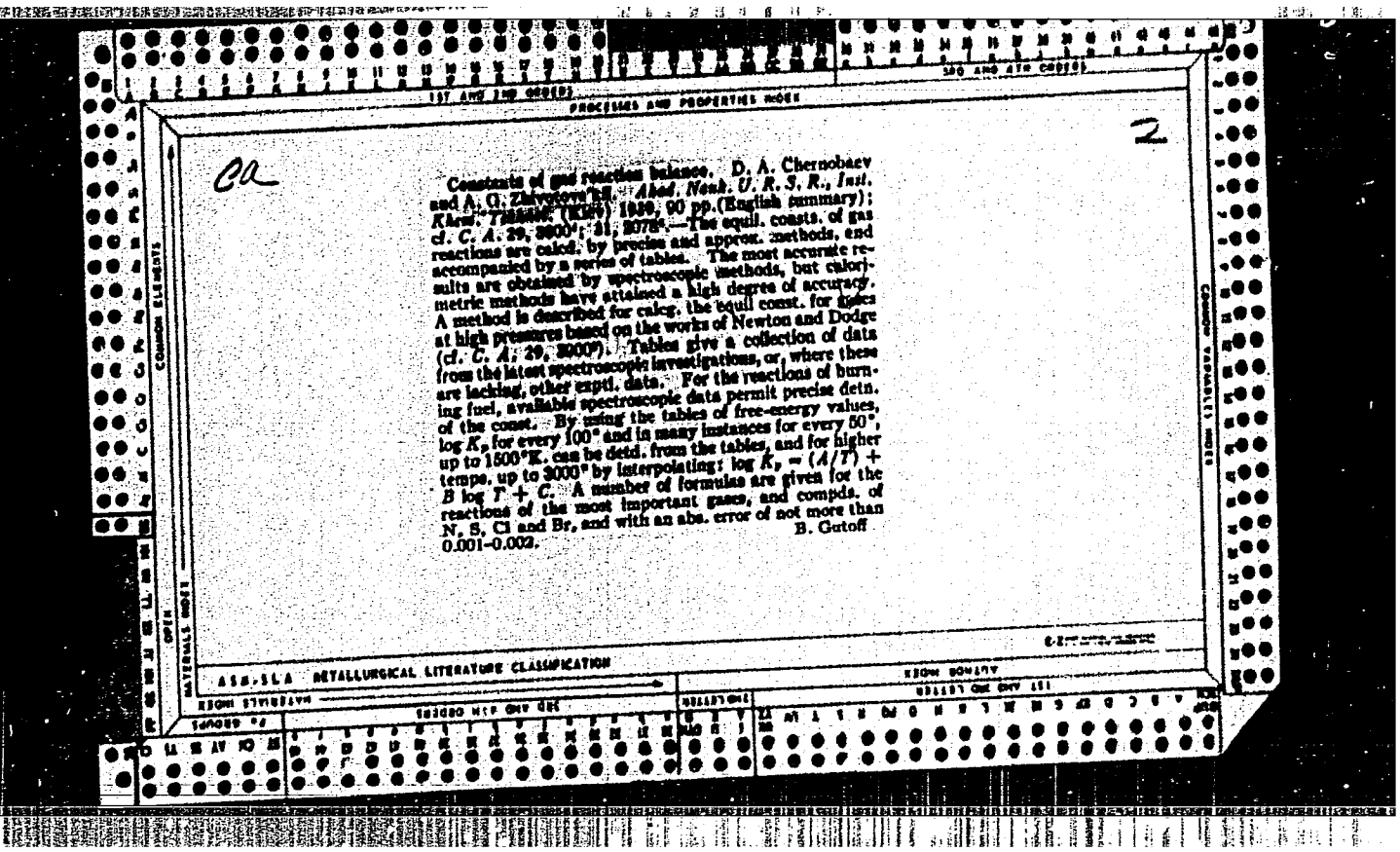

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Ca

Constants of gas reaction balance. D. A. Chernobaev and A. G. Zhivotova'kii. *Akad. Nauk. U. R. S. R., Inst. Khim.* [illegible] (Kiev) 1939, 90 pp.(English summary); cf. *C. A.* 29, 3000⁴; 31, 3078⁸.—The equil. consts. of gas reactions are calcd. by precise and approx. methods, and accompanied by a series of tables. The most accurate results are obtained by spectroscopic methods, but calorimetric methods have attained a high degree of accuracy. A method is described for calcg. the equil. const. for gases at high pressures based on the works of Newton and Dodge (cf. *C. A.* 29, 3000). Tables give a collection of data from the latest spectroscopic investigations, or, where these are lacking, other exptl. data. For the reactions of burning fuel, available spectroscopic data permit precise detn. of the const. By using the tables of free-energy values, $\log K_p$ for every 100° and in many instances for every 50°, up to 1500°K. can be detd. from the tables, and for higher temps. up to 3000° by interpolating: $\log K_p = (A/T) + B \log T + C$. A number of formulas are given for the reactions of the most important gases, and compds. of N, S, Cl and Br, and with an abs. error of not more than 0.001–0.002.

B. Gutoff

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKIY, A.G.; VESELOVSKIY, T., tekhn. red.

[Scrubber apparatus with S-bend spray throwers and the effectiveness of the use in certain industries] Skrubbernaia kamera s S-obraznymi razbryzgivateliami i ratsional'nost' ee primeneniia v nekotorykh proizvodstvakh. L'vov, L'vovskii politekhn. in-t, 1959. 141 p. (MIRA 14:7)

(Scrubber (Chemical technology))

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKIY, A.G.; BABUSHKINA, N.A.

Absorption of bromine by solutions of sodium hydroxide, soda, and milk of lime. Zhur. prikl. khim. 36 no.11:2343-2350 N '63. (MIRA 17:1)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKIY, A.I., kand.tekhn.nauk; KRAYCHIK, A.B., inzh.

Calculation and design of oscillators and amplifiers for ultrahigh frequencies. Izv.LETI no.25:3-15 '53.
(MIRA 13:2)

(Oscillators, Electron-tube)
(Amplifiers, Electron-tube)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

ZHIVOTOVSKIY, A. I.

"Toward an Analysis of the Operation of a Tricde Oscillator in an Overvoltage System With Self-Bias," pp 166-175, ill, 12 ref

Abst: A method is suggested for computing the load characteristics of oscillators with separate excitation and with self-excitation, improving the possibility of analyzing their operation in an overvoltage system. The use of this method gives a clearer idea of the performance of tube oscillators in various systems and facilitates the choice of optimum operating conditions.

SOURCE: Izvestiya Leningr. Elektrotekhn. In-ta im. V. I. Ul'yanova (Lenina) (News of the Leningrad Electrical Engineering Institue imeni V. I. Ul'yanov /Lenin/), No 30, Leningrad, 1956

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ZHIVOTOVSKIY, A.I.

PA - 2013

AUTHOR: ŽIVOTOVSKIJ,A.I.
TITLE: On the Computation of Composed Resonators.
(K rasčetu sloznyh rezonatorov, Russian).
PERIODICAL: Radiotekhnika, 1957, Vol 12, Nr 1, pp 22-27 (U.S.S.R.)
Received: 2 / 1957 Reviewed: 3/1957

ABSTRACT: When increasing the working frequency the resonance in the transversal higher harmonics is utilized. This measure leads to a decrease of the input resistance of the resonator which is not under load, to a reduction of efficiency and to a narrowing of the frequency transmission band. These disadvantages can be ddminished or removed by using composed line guides. At first simple line guides are used. When applying capacity at the beginning of the homogeneous line the geometric length of this line is determined by

$L = l + (n-1)\frac{\lambda}{4}$, l is the geometric length from the beginning of the line to the first voltage node, n is a whole positive number, and λ is the wave length which corresponds to resonance frequency. n can be both even or odd. In the present work only guide lines with an odd n are dealt with. At frequencies near resonance a line, which is short-circuited at its end and to the initial point of which a capacity is applied, can be replaced by equivalent oscillation circuits with parameters that have the same resonance frequency, quality, and input resistance. The formulae for the parameters of such an oscillation circuit are set up and later also for other oscillation circuits.

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On the Computation of Composed Resonators PA - 2013

In the composed lines, homogeneous domains of the length $\frac{\lambda}{4}$ are added to the first homogeneous domain of the length l. The formulae for the voltages in these oscillation circuits as well as for their quality are set up. The system of connected oscillation circuits is replaced by an equivalent oscillation circuit and the formulae for this parameter are set up. A table for the values computed according to these formulae is given for simple lines at n=1, n=3 and for composed lines at n = 3.

ASSOCIATION: Not given
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E192/E382

AUTHOR: Zhivotovskiy, A.I.

TITLE: Wideband Amplification by Means of Tetrodes in Ultrashort-wave Transmitters

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1960, Vol. 3, No. 2, pp. 275 - 280

TEXT: Very high frequency tuned amplifiers based on tetrodes with grounded cathodes or grounded grids are considered (Figs. 1). The inertia of the electrons and the parasitic couplings between tuned circuits are neglected. The input and the output circuits of the amplifiers contain resonant circuits which are tuned to the centre frequency of a given bandwidth. The bandwidth of a single resonant circuit is inversely proportional to $C_э$ and $R_э$, where $C_э$ is the capacitance of the circuit and $R_э$ is its resistance during resonance.

At metre and decimetre waves the resonant circuits are formed by short-circuited coaxial lines. The capacitance of such a line can be expressed by:

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Wideband Amplification by Means of Tetrodes in Ultrashort-wave Transmitters

$$C_э = \frac{1}{2} C_п \left(1 + \frac{2\vartheta}{\sin 2\vartheta}\right) \qquad (1)$$

where $C_п$ is the input or output capacitance of the tube to which the line is connected, while ϑ is the electrical length of the line. In practice, $\vartheta < 90^\circ$ or it is contained between 180 and 270°. These two cases are illustrated in Fig. 2, where $C_э$ is plotted against $W\omega C_п$, where W is the wave impedance of the line. The output resistance of the resonant-circuit of the grounded cathode amplifier is given by Eq. (3), while that of the grounded grid amplifier is expressed by Eq. (4); in these expressions, $e_{a\,min}$ is the minimum anode voltage in the critical regime, U_K is the voltage amplitude between the anode and the cathode, U_g is

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Wideband Amplification by Means of Tetrodes in Ultrashort-wave Transmitters

the amplitude of the voltage between the control grid and the cathode, $\eta = 0.5\ \gamma\xi$ is the efficiency of the anode circuit. $\gamma = I_{a1}/I_{ao}$ is the form factor of the anode current and P_a are the anode losses of the tube. The functions f(e) of Eqs. (3) and (4) is plotted in Fig. 3 for various values of the flow angle. From Fig. 3, it is seen that by choosing suitable operating conditions, it is possible to obtain a minimum value of the equivalent output resistance. The power-reduction coefficient for an amplifier is expressed by Eq. (8), where $\alpha = 2\Delta\omega/\omega$ represents the deviation from the centre frequency and Q_{BX} is the quality factor of the input circuit, while Q_{Bb1X} is the quality factor of the output circuit. The ratio of the power-reduction coefficients of the grounded cathode and the grounded grid amplifiers a_1/a_2 is expressed by Eq. (15) , where m represents the ratio of the amplification coefficients for the two amplifiers and n is the

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Wideband Amplification by Means of Tetrodes in Ultrashort-wave Transmitters

ratio of their equivalent capacitances. The function a_1/a_2 is plotted in Fig. 5. From the analysis, it is seen that the power gain of the amplifier with the grounded grid is comparatively small but its amplitude-frequency distortion is lower than that of the grounded-cathode amplifier. There are 5 figures and 4 Soviet references.

ASSOCIATION: Kafedra radioperedayushchikh ustroystv Leningradskogo elektrotekhnicheskogo instituta im. V.I. Ul'yanova (Lenina) (Chair of Radio Transmission Devices of Leningrad Electrotechnical Institute im. V.I. Ul'yanov (Lenin).

SUBMITTED: July 6, 1959, initially;
October 8, 1959, after revision.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064830002-6

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E192/E382

C.4710 (also 2104)

AUTHORS: Zhivotovskiy, A.I., Krivenko, A.S. and Polevoy, V.V.

TITLE: Non-tuned high-frequency stages in transmitters

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 5, no. 2, 1962. 224 - 233

TEXT: The two simple circuits shown in Fig. 1 can be used for constructing wideband high-frequency amplifying stages for radio transmitters. The impedances of these circuits can be described as $Z_{1,2} = \rho A_{1,2}$, where $\rho = \sqrt{L/C}$ and the functions A for the two circuits are given by:

$$A_1 = \sqrt{\frac{\delta^2 + k^2}{(k^2 - 1) + k^2\delta^2}} \; ; \quad A_2 = k\sqrt{\frac{1 + k^2\delta^2}{(k^2 - 1) + k^2\delta^2}} \; ,$$

where $\delta = R/\rho$, $k = \omega/\omega_o$ and $\omega_o = 1/\sqrt{LC}$. The formulae are analyzed and it is found that for the case of $\delta = \sqrt{2}$ the impedance of the first circuit is practically constant at

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Non-tuned high-frequency ....

frequencies from $\omega = 0$ to $\omega = \omega_o/\sqrt{2}$, while the impedance of the second circuit is constant up to frequencies of $\omega = \omega_o/\sqrt{2}$. The circuits are thus suitable for wideband amplifiers and their impedance for the case of $\delta = \sqrt{2}$ is $\sqrt{2}$. The first of the circuits is used in compensated amplifiers while the second circuit is difficult to use at frequencies above several Mc/s. Wideband amplification for the transmitters can be produced by distributed amplifiers whose gain is expressed by:

$$K = \frac{S \varrho_a}{2} \cdot n \qquad (2)$$

and whose maximum output voltage is given by:

$$U_{m\ max} = I_{a1\ max} \frac{\varrho_a}{2} n$$

where n is the number of tubes employed in the amplifier,

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Non-tuned high-frequency ....

$\rho_a = m/\pi f_{KP} C_a$ is the wave impedance of the anode line,

$$f_{KP} = \frac{1}{\pi \sqrt{L_a C_a}},$$

is the critical frequency of the anode line and C_a and L_a are the capacitance and the inductance of a line cell. Analysis of the distributed amplifiers shows that these should be based on tubes having a high slope, small capacitances and large currents at $e_g = 0$ and $e_a = e_{a\,min}$ (where e_g is the grid voltage and e_a is the anode voltage). A method of designing a distributed amplifier is described, the design being based on the following parameters: upper and lower cut-off frequencies; load capacitances, output-voltage amplitude and the input-voltage amplifier. The problem of matching artificial lines

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Non-tuned high-frequency ....

by means of exponential transformer lines is considered and it is shown that the number of sections in the exponential transformer increases with the ratio of impedances of the lines to be matched. An experimental distributed amplifier based on tubes type 6 15 (6P15P) and consisting of 10 tubes with 35 pF capacitances was built and tested experimnetally. It is thought that distributed amplifiers are particularly suitable for wide-band transmitters and that their circuits can be considerably simplified by employing special high-slope tubes. There are 8 figures.

ASSOCIATION: Kafedra radioperedayushchikh ustroystv Leningradskogo elektrotekhnicheskogo instituta im. V.I. Ul'yanova (Lenina) Department of Radio-transmitting Devices of Leningrad Electrotechnical Institute im. V.I. Ul'yanov (Lenin))

SUBMITTED: June 2, 1961

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ZHIVOTOVSKIY, A.I.; ALEKSEYEV, O.V.

Construction of wide-band non-retunable transmitter stages. Radiotekhnika 18 no.12:22-30 D '63. (MIRA 17:1)

1. Deystvitel'nyye chleny Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni Popova.

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ASSONOV, Aleksandr Danilovich,; SHERELYAKOVSKIY, Konstantin Zakharovich,; LANKIN, Petr Aleksandrovich,; YAITSKOV, S.A., inzh.; SHKLYAROV, I.N., inzh.; RABIN, M.O., inzh.; SHNYUSHKIN, N.V.; ZHIVOTOVSKIY, A.N.; BORISOV, N.I.; SHMYKOV, A.A., doktor tekhn. nauk, red.; LOZINSKIY, M.G., doktor tekhn.nauk, retsenzent,; MODEL', B.I., tekhn.red.

[Gas cementation with induction heating] Gazovaia tsementatsiia s induktsionnym nagrevom. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 87 p. (MIRA 11:12)
(Cementation(Metallurgy))

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SEE ALSO: BRAVO-ZHIVOTOVSKIY, D. M.

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Zhivotovskiy, I.I.

21(5) p.3 PHASE I BOOK EXPLOITATION SOV/1297

Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniy v narodnom khozyaystve i nauke, Moscow, 1957

Polucheniye izotopov. Moshchnyye gamma-ustanovki. Radiometriya i dozimetriya; trudy konferentsii... (Isotope Production. High-energy Gamma-Radiation Facilities. Radiometry and Dosimetry; Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science) Moscow, Izd-vo AN SSSR, 1958. 293 p. 5,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR; Glavnoye upravleniye po ispol'zovaniyu atomnoy energii SSSR.

Editorial Board: Frolov, Yu.S. (Resp. Ed.), Zhavoronkov, N.M. (Deputy Resp. Ed.), Aglintsev, K.K., Alekseyev, B.A., Bochkarev, V.V., Leshchinskiy, N.I., Malkov, T.P., Sinitsyn, V.I., and Popova, G.L. (Secretary); Tech. Ed.: Novichkov, N.D.

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PURPOSE: This collection is published for scientists, technologists, persons engaged in medicine or medical research, and others concerned with the production and/or use of radioactive and stable isotopes and radiation.

COVERAGE: Thirty-eight reports are included in this collection under three main subject divisions: 1) production of isotopes 2) high-energy gamma-radiation facilities, and 3) radiometry and dosimetry.

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PART I. PRODUCTION OF ISOTOPES

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This article describes the basic structural features of an ultra-high-temperature ion source and gives the results of its use in separating Pd, Pt, Ru, and Ir in a small electromagnetic separator. A hot cathode discharge is maintained in vapors of the element being separated and isotope ions are drawn from the gas discharge chamber through an aperture. A lateral electron beam with energies of 20-25 kev creates chamber temperatures up to 2800° C.

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requiring high dosage (microorganisms, biological substrates) c) industrial radiation of biological products requiring sterilization, preservation, disinfection, etc. d) medical and therapeutical purposes.

Breger, A. Kh., V.A. Belynskiy, V.L. Karpov, S.D. Prokudin and V.B. Osipov. Facility for Radiation-Chemical Research Employing Co^{60} Gamma-Radiation Source With an Activity of 21,000 g-ev of Radium 182

A K-20000 Co^{60} gamma-radiation source, cited as the most powerful in the world according to available data, is described and basic parameters tabulated. The unit is provided with a control panel and a system of periodic observation and is capable of 1200 r/sec dosage per 0.4 liters and ~100 r/sec per 100 liters volume. Working chamber capacity is ~300 liters. The source, comprising 56 standard Co^{60} preparations, the authors state, is safe for attending personnel owing to a "dry" method especially developed for this unit.

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General description and electric circuit diagrams are given for a pocket-sized radiometer intended for approximate determination of gamma- and hard beta-ray intensities above 1 Mev. Time lapse after onset of radiation registration serves as a parameter for the determination of intensity up to 1000 μr/hr with an accuracy of ± 20 percent. Working principle, components and electric circuit diagram are given for a pocket-size dosimeter capable of detecting approximate intensities of gamma- and beta-radiation from 0.1 to 5000 μr/sec and

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