

USSR/Medicine - Diseases, Internal
Organs

Feb 49

Medicine - Phenamine, Effect of

"Observations on the Action of Phenamine in
Spastic Condition of the Alimentary Canal," A. S.
Agapitova, Clinical Dept, Leningrad Inst of Labor
Hygiene and Occupational Diseases, 2 pp

"Klin Med" Vol XXVII, No 2

Introduces three case histories in which phenamine
was used for various gastric disorders. Observa-
tions on the antispasmodic action of phenamine
warrant its use for both diagnosis and therapy.
Dir, Clinical Dept: Prof Ye. Z. Matusevich.

58/49T70

Clinical Dept., Leningrad Inst. Labor Hygiene and Occupational Diseases.

AGAPITOVA, A. S.

25204. AGAPITOVA. A. S. Klinika-Fiziologicheskie Nably^udeniya Nad Deystviem Fenamina
Pri Nekotorvkh Promyshlennykh Inteksikatsiyakh. Trudy Leningr. San,-Gigien. Med.
In-ta, T. II, 1949. S, 135-62 .

SO: Letopis' No. 33, 1949

25208. AGAPITOVA, A. S. MATUSEVICH, YA. Z. Rol' Adaptometrii V Diagnostike
Promyshlennykh Otravleniy. Trudy Leningr. San-Gigien, Med. In-ta. T. I 1949 S. 163-74

SO: Letopis' No. 33, 1949

USSR/Safety Engineering. Sanitary Engineering. Sanitation. L.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10722

Author : Matusевич, Ya. Z., Agapitova, A. S., and Mikhaylova, T.G.
Inst : Leningrad Medical Institute for Health and Sanitation
Title : The Clinical Picture of Silicosis and Silicotuberculosis
in Workers Employed in Porcelain Factories

Orig Pub: Tr. Leningr. san.-gigien. med. in-ta, 1955, Vol 21,
20-26

Abstract: The medical examination of 360 workers in the porcelain industry between the ages of 30-50 and over with lengths of service varying from 5-10 years and over revealed cases of hypertrophic and atrophic rhinitis, rhinopharyngitis, chronic catarrhal and purulent otitis, tonsillitis, and pharyngolaryngitis as well as sclerotic processes which cause changes in the mucous membrane of the upper respiratory tract and bring about its progressive atrophy. A small thickening of the septum of the heart was also observed together with dystrophic changes

Card 1/2

USSR/Safety Engineering. Sanitary Engineering. Sanitation. L

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10722

Abstract: in the myocardium. Electrocardiographic investigations have shown that the age and past medical history of the patient are reflected in the electrocardiogram. X-ray and laboratory investigations showed chronic cases of hyperacidic gastritis. In cases of neglected silicosis the patients were observed to suffer from sclerosis and atrophic changes in the intestinal tract; changes in the overall immunobiological activity of the organism were also observed.

Card 2/2

USSR/Safety Engineering. Sanitary Engineering. Sanitation. L

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10721

Author : Agapitova, A S.
Inst : Leningrad Medical Institute for Health and Sanitation
Title : Adaptometric Studies of Workers Employed in the Porcelain Industry

Orig Pub: Tr. Leningr. san.-gigien. med. in-ta, 1955, Vol 21, 81-86

Abstract: A Nagel adaptometer was used to measure the dark adaptation of the eyes of workers employed in the procelain industry. A number of paradoxical facts were observed: in patients who were in the initial stages of silicosis the dark adaptation is lowered, while in patients suffering from silicotuberculosis the dark adaptation is considerably increased notwithstanding the more advanced stage of the disease. The former is explained by the influence of additional production factors (convective heat); the second may be ascribed to the heightened excitability of the central nervous system in tubercular cases.

Card 1/1

USSR/Safety Engineering. Sanitation Engineering. Sanitation. L

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10720

Author : Agapitova, A. S.

Inst : Leningrad Medical Institute for Health and Sanitation

Title :: Electrocardiographic Studies on Workers Employed in the Porcelain Industry

Orig Pub: Tr. Leningr. san.-gigien. med. in-ta, 1955, Vol 21, 87-92

Abstract: Electrocardiographic studies have been made of 82 workers in a porcelain factory; the sample included workers of different occupational backgrounds, age, and length of service. In the above investigations greatest interest attaches to the frequency of deviations from the norm in cases suffering from silicosis, silicotuberculosis, and tuberculosilicosis; these deviations are particularly markedly expressed in a lengthening of the PQ wave and in a shift of the electric axis of the heart. In the majority of cases a reduction in the heartbeat was observed (in 29 cases the heartbeat less than 60, and in

Card 1/2

USSR/Safety Engineering. Sanitation Engineering. Sanitation. L

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10720

Abstract: 12 cases, less than 65); this observation raises the possibility of the existence of damages to the conduction system of the heart which cannot be completely explained on the basis of organic lesions. The hypothesis is presented that changes in the heart muscle can be explained not only on the basis of hypoxemia and disturbances in pulmonary circulation which accompany silicosis but also by reflexor effects in the respiratory tract and in the lungs. The dystrophic process in the myocardium may serve as the irritating cause, producing reflexor changes in the rhythm of heart activity.

Card 2/2

AGAPITOVA, A.S.; KORELOVA, Ye.I.; DOMASHEVICH, V.L.

Expert evaluation of temporary disability and the employment of workers with cardiovascular diseases. Trudy LSGMI 40:242-247 '58. (MIRA 12:8)

1. Fakul'tetskaya terapevticheskaya klinika Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav.klinikoy - prof.A.A.Kedrov) i Kafedra gigiyeny truda Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav.kafedroy - prof. Ye.TS.Andreyeva-Galanina).

(WORK,

capacity determ. in cardiovasc. dis. (Rus))

(CARDIOVASCULAR DISEASES,

working capacity determ. (Rus))

TRAMBITSKIY, Grigoriv Samoylovich, prof.; TAMARINA, Anna Yeremeyevna,
dots.; AGAPITOVA, A.S., red.; CHUNAYEVA, Z.V., tekhn. red.

[Occupational diseases of the upper respiratory tracts and of the
hearing organs] Professional'nye zabolevaniia verkhnikh dykhatel'-
nykh putei i organa slukha. Leningrad, Medgiz, 1961. 109 p.
(MIRA 14:12)

(RESPIRATORY ORGANS--DISEASES) (EAR--DISEASES)

KONKO, Vaniamin Markovich; AGAPITOVA, M.P., redaktor.

[Organization and technology of Soviet cooperative trade] Organizatsiia i
tekhnika sovetskoi kooperativnoi trgovli. Pod red. M.P. Agapitova. Moskva,
Izd-vo Tsentrosoiuz, 1950. 308 p. (MLBA 6:10)
(Retail trade)

AGAPKIN, I.I.

48-7-2/21

AUTHORS: Agapkin, I.I., Gol'din, L.L.TITLE: The Energy of the α -Particles of Po^{210} (Energiya α -chastits Po^{210})

PERIODICAL: Izvestiya Akad. Nauk SSSR, Ser. Fiz., 1957, Vol. 21, Nr 7, pp. 909 - 912 (USSR)

ABSTRACT: Magnetic α -spectrometers permit to compare the energies of the investigated α -particles with the energy of those α -particles which are emitted by standards. Nevertheless the data obtained by different authors for one and the same groups of α -particles sometimes differ widely, especially when work is done with different standards. Therefore the authors performed a new measurement of the energy of the α -particles of Po^{210} . Further the magnetic α -spectrometer is described, as well as the method of operation. The measurement results of the energy of Po^{210} are shown in table 1. The results of the investigation are represented by figure 1. Table 2 gives the measurement results of the energy of the α -particles of Em^{220} and figure 2 gives the results of the investigation of Em^{220} . The obtained values lead to the conclusion that the energy of the α -particles of Em^{220}

Card 1/2

The Energy of the α -Particles of Po²¹⁰

48-7-2/21

and probably also of other daughter α -emitters perhaps lie somewhat higher than their table values. For the energy of the α -particles of Po²¹⁰ the authors suggest the value $5297,8 \pm 1,5$ keV. There are 2 figures, 2 tables and 4 references, 2 of which are Slavic.

AVAILABLE: Library of Congress

Card 2/2

h0761

S/120/62/000/004/042/047
E140/E420

24 6700
AUTHORS: Barmin, V.V., Bysheva, G.K., Tumanov, G.K.,
Agapkin, I.I., Andreyev, V.N., Veselov, M.A.,
Gol'din, L.L., Luzin, V.N., Radkevich, I.A.,
Sokolovskiy, V.V., Stadnikov, A.G.

TITLE: Investigation and correction of the horizontal
component of the low-induction magnetic field of the
proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 223-229

TEXT: Permalloy probes modulated at 10 kcs were used to measure
the position of the neutral plane of the magnetic field. It was
found that the distortion of the neutral plane in the residual
field was determined mainly by the neutral pole. This distortion
decreased as the excitation of the C-blocks was increased.
Due to hysteresis effects, the measurements had to be carried out
under operating conditions. A description of the probe and its
associated circuits is given. The measurements show that 67 of
the magnets have a deviation of the neutral plane in the range
+ 0.5 mm, 16 magnets have 0.5 to 0.6 mm, 3 magnets 0.6 to 0.7 mm
Card 1/2

Investigation and correction ...

S/120/62/000/004/042/047
E140/E420

and 12 magnets ≥ 0.7 mm. The average error of measurement is ± 0.17 mm. The method of correcting the neutral plane errors by means of windings on the neutral poles is described. There are 11 figures. ✓

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
GKAE (Institute of Theoretical and Experimental
Physics GKAE)

SUBMITTED: April 11, 1962

Card 2/2

AGAPKIN, I. N.

Effect of vitamin D₂ on osteo-articular infections in skin tuberculosis. Probl. tuberc., Moskva No. 3, May-June 50. p. 62-4

1. Of the Institute of Skin Tuberculosis (Director--Prof. P. V. Shebanov; Scientific Director--Prof. N. L. Rossiyskiy).

CHL 19, 5, Nov., 1950

AGAPKIN, I.N.

Masked osseous modifications in cutaneous tuberculosis. Probl. tuberk.
Moskva No.6:9-14 Nov-Dec 51. (CIML 21:4)

1. Candidate Medical Sciences. 2. Of the Scientific-Research Institute for Tuberculosis of the Skin (Scientific Supervisor--Prof. N.L. Rossi-yanskiy) and of the Pathomorphological Department of the Oblast Tuberculosis Institute (Director--Prof. N.N. Grinchar, deceased; Head of Department--Doctor Medical Sciences I.A. Kusevitskiy).

AGAPKIN, I.N.

Relation of cutaneous tuberculosis to osteoarticular tuberculosis.
Probl. tuberk., Moskva no. 6:20-25 Nov-Dec 1952. (CMLL 23:5)

1. Candidate Medical Sciences. 2. Of the Institute of Skin Tuberculosis (Director -- Prof. F. V. Shebanov; Scientific Supervisor -- Prof. N. L. Rossiyanский).

AGAPKIN, I.N.;GUTINA, Yu.L.

Immediate results of streptomycin therapy of lupus tuberculosis in
contraindications and resistance to vitamin D2 therapy. Vest. vener.,
Moskva no.3:6-9 May-June 1953. (CML 25:1)

1. Candidates Medical Sciences; Gutina, deceased, 2. Of the Institute
of Skin Tuberculosis (Director -- I. E. Agapkin; Scientific Supervisor --
Professor N. L. Rossiyskiy).

AGAPKIN, I.N., kandidat meditsinskikh nauk; YUKELIS, I.I., kandidat meditsinskikh nauk.

Phthivazide therapy in tuberculosis of the skin. Vest.ven.i dermat. no.1:6-10 Ja-F '54. (MLRA 7:2)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta kozhnogo tuberkuleza (direktor - kandidat meditsinskikh nauk I.N.Agapkin, nauchnyy rukovoditel' - professor N.L.Rossiyanskiy). (Skin--Tuberculosis) (Nicotinic acid isomers)

AGAPKIN, I.N., kandidat meditsinskikh nauk; YUKELIS, I.I., kandidat
meditsinskikh nauk

Phthivazid therapy of cutaneous tuberculosis. Probl. tub. no.4:
20-24 J1-Ag '54. (MLRA 7:11)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta
koshnogo tuberkuleza (dir. kandidat meditsinskikh nauk I.N.
Agapkin)

(TUBERCULOSIS, CUTANEOUS, therapy,
isoniazid)

(NICOTINIC ACID ISOMERS, therapeutic use,
isoniazid in cutaneous tuberc.)

✓ Vascular reactions in patients with tuberculous lupus vulgaris treated with vitamin D₃. I. N. Agapkin and T. G. Plotitsyna. *Vestnik Venerol. i Dermatol.* 1953, No. 6, 18-22.—Vitamin D₃ in most cases produces a normalizing action on the vascular reaction by acting through the central nervous system. Thus, it acts either as a stimulant or a depressant depending on the state of the patient's organism.
G. M. Kosolapoff

AGAPKIN, I.N., kandidat meditsinskikh nauk; BACAYEVA, M.I., kandidat
meditsinskikh nauk. (Moskva)

Treatment of tuberculosis of the skin. Fel'd. i akush. no. 1: 11-14
Ja. '56 (MLRA 9:4)
(SKIN--TUBERCULOSIS) (VITAMINS--D)

AGAPKIN, I.N.

ASEYEV, D.D., professor; BERLIN, I.I., professor; VOZNESENSKIY, A.N., professor; SOROKIN, I.E., professor; UGRYUMOV, B.P., professor; TOPCHAN, A.B., professor; AGAPKIN, I.N., kandidat meditsinskikh nauk; AGRACHEV, G.I., kandidat meditsinskikh nauk; AL'TSHULER, N.S., kandidat meditsinskikh nauk; BEREZON, Ya.Ye., kandidat meditsinskikh nauk; ZORIN, Ye.N., kandidat meditsinskikh nauk; KOROVINA, Yu.P., kandidat meditsinskikh nauk; KOSITSKIY, G.I., kandidat meditsinskikh nauk; MANDL'SHTAM, F.M., kandidat meditsinskikh nauk; MOCHALOVA, T.P., kandidat meditsinskikh nauk; OBLOGINA, Ye.Ya., kandidat meditsinskikh nauk; PATSKHVEROVA, A.G., kandidat meditsinskikh nauk; FOKOTILOV, K.Ye., kandidat meditsinskikh nauk; ROZANOVA, M.D., kandidat meditsinskikh nauk; SAKHAROV, A.N., kandidat meditsinskikh nauk; YASHCHENKO, T.N., kandidat meditsinskikh nauk

"Tuberculosis"; handbook for physicians edited by Z.A.Lebedeva and N.A.Shmelev. Reviewed by D.D.Azeev and others. Probl.tub. 34 no.2: 76-80 Mr-Ap '56. (MLR 9:8)

(TUBERCULOSIS) (LEBEDEVA, Z.A.) (SHEMELEV, N.A.)

AGAPKIN, I.N., kandidat meditsinskikh nauk

Treatment of lupus with vitamin D₂ and phthivazid in association with reflex segment application of paraffin and mustard. Vest.derm. i ven. 31 no.3:41-43 My-Je '57. (MIRA 10:11)

1. Iz Instituts kozhnogo tuberkuleza (dir. I.N.Agapkin)
 - (LUPUS, therapy,
 - isoniazid, with vitamin D₂, paraffin & mustard (Rus))
 - (ISONIAZID, therapeutic use,
 - lupus, with vitamin D₂, paraffin & mustard (Rus))
 - (VITAMIN D, therapeutic use,
 - D₂, in lupus, with isoniazid, paraffin & mustard (Rus))
 - (PETROLEUM PRODUCTS, therapeutic use,
 - paraffin in lupus, with isoniazid, vitamin D₂, & mustard (Rus))
 - (MUSTARD, therapeutic use,
 - lupus, with paraffin, isoniazid & vitamin D₂ (Rus))

USSR / Pharmacology, Toxicology. Chemotherapeutic V
Agents, Antituberculous Agents.

Abs Jour: Ref Zhur-Biol., No 18, 1958, 85262.

Author : Agapkin, I. N., Bagayeva, M. I.

Inst : Not given.

Title : The Phthivazide Treatment of Patients with Lupus
Vulgaris Complicated by Elephantiasis.

Orig Pub: Probl. Tuberkuleza, 1957, No 4, 119-121.

Abstract: A high therapeutic effectiveness of phthivazide (P) is intensified when it is combined with segmental application of mustard plasters. P was used in a daily dose of 0.5-2 gm, and a complete course was up to 200 gm. In patients with disseminated forms of tuberculosis of the skin, in order to avoid exacerbations of the diseases, P was given in a daily dose of 0.3-0.5 gm, to a total dose of

Card 1/2

61

AGAPKIN, I.N., kand.med.nauk, BAGYEVA, M.I., kand.med.nauk (Moskva)

Current status of treatment and prevention of cutaneous tuberculosis.
Sov.med. 22 no.9:53-64 S'58 (MIRA 11:11)

(TUBERCULOSIS, CUTANEOUS,

prev. & ther., current status, review (Rus))

AGAPKIN, Ivan Nikitovich; BAGAYEVA, Mariya Ivanovna

[Tuberculosis of the skin] Tuberkulez kozhi. Moskva, Medgiz,
1959. 224 p. (MIRA 13:8)
(SKIN--TUBERCULOSIS)

AGAPKIN, I.N., kand.med.nauk; BAGAYEVA, M.I., kand.med.nauk (Moskva)

Prophylaxis and treatment of skin tuberculosis. Med.sestra 18 no.10:
22-27 0 '59. (MIRA 13:1)

(SKIN--TUBERCULOSIS)

AGAPKIN, I.N.

Immediate problems in skin tuberculosis control. Probl.tub.
38 no.1:3-7 '60. (MIRA 13:10)
(SKIN—TUBERCULOSIS)

AGAPKIN, I.N., kand.med.nauk

Effect of combined antibacterial therapy on osteoarticular diseases in patients with skin tuberculosis. Sov.med. 25 no.4: 98-105 Ap '61. (MIRA 14:6)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - kandidat meditsinskikh nauk V.F.Chernyshev, zamestitel' direktora po nauchnoy chasti - prof. D.D.Aseyev) Ministerstva zdravookhraneniya RSFSR.
(BONES--DISEASES) (SKIN--TUBERCULOSIS)

AGAPKIN, I.N., starshiy nauchnyy sotrudnik; LUTSENKO, T.A., doktor
biolog.nauk

Significance of the complement fixation reaction in clinical
cutaneous tuberculosis. Vest.derm.i ven. 35 no.4:44-47 Ap '61.
(MIRA 14:5)

1. Iz otdeleniy kozhnogo tuberkuleza (zav. I.N. Agapkin) i
eksperimental'noy patologii i terapii (zav. V.F. Chernyshev)
Nauchno-issledovatel'skogo instituta tuberkuleza (dir. B.F.
Chernyshev) Ministerstva zdravookhraneniya RSFSR,
(SKIN—TUBERCULOSIS) (COMPLEMENT FIXATION)

AGAPKIN, I.N.

Tuberculous etiology in sclerosis of bone fragments detected
by roentgenological methods in cadavers of tuberculous subjects.
Probl.tub. 39 no.3:68-76 '61. (MIRA 14:5)

1. Iz Nauchno-issledovatel'skogo instituta tuberkuleza Mini-
sterstva zdravookhraneniya RSFSR (dir. - kand.med.nauk V.F.
Chernyshev, zam. dir. po nauchnoy chasti - prof. D.D. Aseyev).
(BONES--TUBERCULOSIS)

AGAPKIN, I.N.

Combined treatment in lupus tuberculosis with pthivazide,
streptomycin and vitamin D-2. Sov.med. 26 no.1:123-126 Ja
'63. (MIRA 16:4)

1. Iz Nauchno-issledovatel'skogo instituta tuberkuleza (dir. =
kand.med.nauk T.P.Molchanova) Ministerstva zdravookhraneniya
RSFSR.

(PHTHIVAZIDE) (STEPTOMYCIN) (VITAMINS--D) (LUPUS)

AGAPKIN, I.N.

Primary tubercular lesion of the skin of the penis. Vest. dermat.
i ven. 37 no.5:25-27 My '63. (MIRA 17:5)

1. Moskovskiy nauchno-issledovatel'skiy institut tuberkuleza
(dir. - kand. med. nauk T.P. Mochalova) Ministerstva zdravookhraneniya
RSFSR.

PUSKINA, V.G.; AGAPKIN, I.N.

Characteristics of the electrical activity of the brain in tuberculosis of the skin. Vest. dermat. i ven. 38 no.11:15-22 N '64. (MIRA 18:4)

1. Moskovskiy nauchno-issledovatel'skiy institut tuberkuleza (dir. - kand. med. nauk T.P. Mochalova, zamestitel' direktora po nauchnoy chasti - prof. D.D. Aseyev) Ministerstva zdravookhraneniya RSFSR.

AGAPONOV, I.A.

Toward higher universal standards. Avtom., telem. i svyaz' 9
no.4:46-47 Ap '65. (MIRA 18:5)

1. Glavnyy inzh. tresta "Transsignalsvyaz'zavody".

AGAPONOV, I.A.

Polymeric materials serving in railroad automatic control and communication systems. Avtom. telem. i sviaz' 8 no.2: 1.3 F '64. (MIRA 17:6)

1. Glavnyy inzh. Gosudarstvennogo tresta po proizvodstvu sredstv signalizatsii i svyazi Glavnogo upravleniya zavodami zheleznodorozhnogo mashinostroyeniya Ministerstva putey soobshcheniya SSSR.

AGAPOV, A., krupchatnik; BELYAYEV, V., krupchatnik

Cleaning grain at the flour mill. Muk-elev. prom. 24 no.6:29

Je '58.

(MIRA 11:7)

1.Vyborgskiy mel'nichnyy kombinat.
(Grain--Cleaning)

AGAPOV, A., krupchatnik; BELYAYEV, V., krupchatnik

For wider use of caprons sieves. Mik.-elev. prom. 24 no.7:20-21
Jl '58. (MIRA 11:10)

1.Vyborgskiy mel'nichnyy kombinat.
(Grain--Cleaning) (Sieves)

SHCHERBAKOV, M.A., master; AGAPOV, A.D., slesar'.

Remote water level indicator. Energetik 1 no.4:17-18 S '53. (MLRA 6:8)
(Condensers (Steam))

VLADIMIROV, Nikolay Petrovich; SHCHEPETOV, Ivan Alekseyevich;
BELOGLAZOV, Vasily Ivanovich; PUSHKAREV, Leonid Vasil'yevich;
ZERNOV, S.A., inzh., retsenzent; AGAPOV, A.D., kapitan,
retsenzent; PYATLIN, A.A., kapitan, retsenzent; BAKULIN, P.F.,
kapitan, retsenzent; MOSKVIN, S.V., kapitan-nastavnik,
retsenzent; POROCHKIN, Ye.M., red.; MAKRUISHINA, A.N., red.

[Special sailing directions for the Volga-Kama and Don River
basins; Moscow Canal, Volga River from the Ivankovo Hydraulic
Development Complex to Bertyul', Kama River from the city of
Perm to its estuary, Volga-Don Canal, TSimlyansk Reservoir, and
the Don River from the TSimlyansk Reservoir to the city of
Rostov] Spetslotsiia Volzhsko-Kamskogo i Donskogo basseinov; ka-
nal im. Moskvyy, r. Volga ot Ivan'kovskogo gidrouzla do nas.
p. Bertyul', r. Kama ot g. Perm' do ust'ia, Volgo-Donskoi kanal
im. V.I.Lenina, TSimlianskoe vodokhranilishche i r. Don ot
TSimlianskogo vodokhranilishcha do g.Rostov. Moskva, Transport,
1964. 288 p. (MIRA 17:10)

AGAPOV, Andrey Fedorovich; MINENKOVA, V.I., red.; SERGEYEV, V.I., red.;
ZUBRILINA, Z.P., tekhn. red.

[High tomato yields] Vysokie urozhai pomidorov. Moskva, Gos.
izd-vo sel'khoz. lit-ry, 1960. 117 p. (MIRA 14:5)
(Tomatoes)

1. AGAPOV, A.I.

2. USSR (600)

"Water Afflux Towards Withering Zone as a Function
of the Physical Condition of Soil." Sbornik trudov
po agronomicheskoy fizike, Issue 4, Agricultural
Press. 1948 (193-218)

9. Meteorologiya i Gidrologiya, No. 3, 1949.
Report U-2551, 30 Oct 52

1. AGAPOV, A.I.

2. USSR (600)

"Capillary Water in Soil Aggregates. " Sbornik
trudov po asronomicheskoy fizike, Issue 4,
Agricultural Press. 1948, (261-279)

9. Meteorologiya i Gidrologiya, No. 3, 1949.
Report U-2551, 30 Oct 52

AGAPOV, A. I., POLTNIKOV, V. V.

Commutation (Electricity)

Tightening commutator plates with steel rings. Prom. energ. 9, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 195~~3~~², Uncl.

AGAPOV, A.I.

Raising cotton in ridged beds. Sbor.trud.po agron.fiz.
no.6:131-147 '53.
(Cotton growing)

(MIRA 11:7)

USSR/Cultivated Plants - Grains

M-4

Abs Jour : *Russk. Zhurn. Biol.*, No 1, 1958, No 1493

Author : A. I. Agapoff, N. I. Morgunov

Inst : Not Given

Title : Effect of the Depth of Plowing on the Winter Rye Crop on Medium Grade Polder Soil.

Orig Pub : *Zemledeliye*, 1956, No 11, 117-119

Abstract : The experiment was performed in 1954 at the developmental test station of Kaliningradskaya Oblast' on light podzolic sandy-argillaceous polder soil. On the shallow plowed lot (moldboardless shallow plowing from 10 to 12 cm), the plant growth and the activity of its soil microflora started earlier than on the lot with deep plowing (32-35 cm); with one and the same norm of sowing, there was only half the amount of plants over 1 m² after deep plowing. On the lot with shallow plowing the yield of winter rye was 28.3 centners, and with deep plowing 19.7 centners per hectare. In soils that are temporarily excessively wet, shallow plowing shows better results for winter crops than deep plowing.

Card : 1/1

USSR / Soil Science. Physical and Chemical Properties of Soils. J

Abs Jour: Ref Zhur'-Biol., No 21, 1958, 95719.

Author : Agapov, A. I., Morgunov, N. I.

Inst : Not given.

Title : Ratio of Capillary and Noncapillary Porosity of Soil as a Factor in Providing Plants With Water.

Orig Pub: Pochvovedeniyo, 1957, 12, 103-107.

Abstract: As a result of vegetative experiments in containers filled with podzolic soils taken in Kalinin-gradskaya Oblast, a maximum wheat harvest of 175% over the control was obtained on soil characterized by aggregates of 2-3 m and by a ratio of capillary and noncapillary porosity of 3.5:1. The harvest falls sharply with the decrease of

Card 1/2

MORGUNOV, N.I., kand.sel'skokhozyaystvennykh nauk; AGAFOV, A.I., kand.-
sel'skokhozyaystvennykh nauk

From work results of the Kaliningrad Province Experimental and
Land Improvement Station during the period 1948-1958. Nauch.trudy
KOMS no.1:3-16 '59. (MIRA 15:1)
(Kaliningrad Province--Drainage)

FORM 100 (REV. 11-63) USE PREVIOUS EDITIONS
ACC NR: AF6002206 SOURCE CODE: UR/0153/65/008/005/0804/080

AUTHOR: Agapov, A. M.; Mol'nikov, A. M.; Kuz'min, L. L.

ORG: Ivanovo Chemical-Technological Institute, Department of Technology of Electrochemical Products (Ivanovskiy khimiko-tekhnologicheskii institut, Kafedra tekhnologii elektrokhimicheskikh proizvodstv)

TITLE: Possibility of using a titanium anode in a galvanic cell. I. Corrosion of titanium in acid electrolytes

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 5, 1965, 804-807

TOPIC TAGS: titanium, corrosion resistance, electrolysis, perchloric acid, hydrofluoric acid, oxide formation

ABSTRACT: The corrosion resistance of Ti was determined by weighing 10 x 10 x 0.5 mm samples of titanium BT-1 sheets suspended in a polyethylene vessel and exposed to the effect of 30 ml acid solution (HClO₄, HF, and their mixtures) at 25C. The Ti had a high corrosion resistance in HClO₄; no decrease in weight and no visible changes were observed in samples exposed for 6 months to HClO₄ having concentrations of 100-800 g/l, although the stationary potential of Ti increased with increased concentration of HClO₄ from 0.160 to 0.309 v. The addition of HF to the HClO₄ solution sharply decreased the corrosion resistance of Ti up to a certain maximum. The corrosion of Ti

Card 1/2

UDC: 620.193.41+621.352.8

L 08904-67

ACC NR: AP6002206

in a pure HF solution increased proportionally with an increase in the concentration of HF. The presence of HF in the HClO_4 solution in all cases caused the activation of the Ti surface probably because of the destruction of the oxide film by fluoride ions. The activation effect of HF decreased at a larger rate at a higher concentration of HClO_4 in solution. An increase of the HClO_4 concentration from 100 to 800 g/l increased its activity from 0.932 to 1138. The concentration of fluoride ions, therefore decreased with increased concentration of HClO_4 . This caused a rapid accumulation of corrosion products on the surface of Ti. The dissolving of Ti in HClO_4 , containing HF, occurred under mixed anode-cathode control and the process was decelerated equally on the anode and the cathode. The increase in concentration of HClO_4 promoted (1) an increase in thickness of the oxide film, which was indicated by changes in the values of the stationary potential, and (2) an increase in activity of H ions facilitating depolarization of H and causing the formation of maximums on the corrosion rate curve. The displacement of the maximum to the left side of the curve, i.e., to the side of lower concentrations, during enrichment in HF of the solution, was related to a stronger effect of corrosion agents resulting in rapid passivation of the anode sections. Orig. art. has: 2 fig. and 2 tables.

SUB CODE: 09,11/ SUBM DATE: 15Jun64/ ORIG REF: 002/ OTH REF: 004

Card

2/2

AGAPOV, A.P.; ZHEMCHUZHIN, D.K.; VARENTSOV, V.S., inzh., red.; LARIONOV,
G.Ye., tekhn.red.

[Ridging fields for peat winning] Profilirovanie polei dobychi
frezernogo torfa. Moskva, Gos.energ.izd-vo, 1958. 28 p.
(Peat) (MIRA 12:3)

113000511.3
AGAPOV, A.S.

Prevention of reactions and complications in intravenous infusion of Belen'ki's therapeutic serum [with summary in English]. Khirurgiia 33 no.11: 60-62 H '57. (MIRA 11:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki imeni N.N.Burdenko I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova (zav. kafedroy - zasluzhennyy deyatel' nauki prof. N.N. Yelanskiy)

(PLASMA SUBSTITUTES

Belenky serum, prev. of anaphylactic reactions (Rus))

AGAPOV, A.S.

Apparatus for intravenous combined infusions of plasma substitutes.
Voen.-med.zhur. no.7:69-70 J1 '59. (MIRA 12:11)
(BLOOD TRANSFUSION equip & supply)
(PLASMA SUBSTITUTES)

AGAPOV, A.S.

Intraosseous osteosynthesis of infected fractures of the femur
using IA.G.Dubrov's round all-metal nail; an experimental study.
Trudy 1-go MMI 7:30-37 '59. (MIRA 15:11)
(INTERNAL FIXATION IN FRACTURES) (FEMUR—FRACTURE)

"Regulation of Separator Continuously Operating Coil Boiler," Kotloturbostroyeniye,
No. 1, 1948.

(Bureau of Continuously Operating Coil Boiler Bldg.)

AGAFOV, Boris

Podvig novatorov (The achievement of the innovators) Moskva, Profizdat,
1950.

86 p.

So: N/5
783.32
.A21

5(4)

SOV/29-60-1-7/25

AUTHOR: Agapov, Boris

TITLE: The Large Polymers

PERIODICAL: Tekhnika molodezhi, 1960, Nr 1, pp 7-9 (USSR)

ABSTRACT: This article is the first of a series of publications on polymers. The author first gives a survey of the development of the physical chemistry of plastics and in this connection he mentions a conversation which was held in 1931 with the director of the Leningradskiy institut plasticheskikh mass (Leningrad Institute of Plastics), Professor G. S. Popov. He further explains such conceptions as monomers, polymers, and polymerization, and describes the entire present stage of chemical synthesis and structural research. Various points of view are defended in this field. Some scientists, among them Academician N. N. Semenov, are of the opinion that chemistry has opened up unlimited possibilities for the production of any polymeric molecules with given properties. Others again, such as A. N. Nesmeyanov, judge such success as has been achieved in this field with a certain reserve

Card 1/2

The Large Polymers

SOV/29-60-1-7/25

and point out existing difficulties arising in the production of high-molecular compounds of a certain structure. Nevertheless, the two opinions are not strictly opposed to each other. Already now, man exercises considerable power over complex substances composed of giant molecules. The author ends his article by explaining the structure of super-molecules. There are 2 figures. ✓

Card 2/2

5 (3), 5 (2)

S/029/60/000/02/012/025
B008/B015

AUTHOR: Agapov, Boris

TITLE: The High Polymers

PERIODICAL: Tekhnika molodezhi, 1960, Nr 2, pp 16 - 18 (USSR)

ABSTRACT: This is a continuation of the series of articles started in Nr 1 of this periodical under the same title. Initially, the author explains the term of copolymerization and mentions Academician Nesmeyanov. In the following he deals with the structure of polymers and discusses the various theses existing. He mentions the scheme suggested by Academician V.A. Kargin, Professor A. I. Kitaygorodskiy, and Professor G. I. Slonimskiy. The author deals also with the effect of structure upon the various properties of polymers as e.g., strength, heat resistance etc, and with the synthesis of inorganic polymers. In this connection he gives a survey of a new branch of technology, organo-silicon chemistry; he mentions K. A. Andrianov, Corresponding Member, AS USSR. In conclusion, the author reports on the fields and possibilities of application of polymers, ✓

Card 1/2

The High Polymers

S/029/60/000/02/012/025
B008/B015

and points out their importance in industry, agriculture, and science, as well as in raising the standard of living. There are 8 figures.



Card 2/2

AGAPOV, Boris

Era of new materials. Nauka i zhizn' 27 no.9:28-32 S '60.
(MIRA 13:9)
(Polymers)

AGAPOV, Boris

Great polymers. Tekh. mol. 28 no. 3:22-25 '60.
(Macromolecular compounds)

(MIRA 14:4)

AGAPOV, B.

Hundred years ago and less; chapter from B. Agapov's book "The
great polymers" (conclusion). Tekh.mol. 31 no.5:8-9 '63.

(MIRA 16:6)

(Polymers)

AGAPOV, Boris

Hundred years ago and less; chapter from B.Agapov's book "The great polymers" (to be continued). Tekh.mol. 31 no.4:10-14 '63.

(MIRA 16:6)

(Polymers)

AGAPOV, B.F.

Lesson taught by the experience of past years. Put' i put.khoz. 5
no.6:6-7 Je '61. (MIRA 14:8)

1. Nachal'nik Putevoy dorozhnoy mashinnoy stantsii No.1.
(Railroads--Maintenance and repair)

VARSHAVSKIY, T.P.; AGAPOV, B.G.; MUSTAFIN, F.A.; PERMYAKOV, V.A.

Reducing the escape of gas during the charging of coke ovens.
Koks 1 khim.no.2:26-30 '56. (MLRA 9:7)

1.Vostochnyy uglekhimicheskiy institut (for Agapov).2.N.-Tagil'skiy
koksekhimicheskiy zavod.
(Coke ovens)

KUPERMAN, P.I.; AGAPOV, B.G.

Characteristics of the PK-2k-type coke ovens during the
coking of charges from Kusnetsk coale. Koks.i khim. no.7:
24-29 '60. (MIRA 13:7)

1. Vostochnyy uglekhimicheskiy institut.
(Coal--Carbonization)

AGAPOV, G. I.

Cand Geolog-Mineralog Sci

Dissertation: "Study of the Relation Between Filtration
Potentials and Penetrability in Rocks." (From Vechernyaya Moskva, 1949)

28 June 49

Moscow Order of the Labor Red Banner Petroleum Inst imeni Academician
I. M. Cubkin.

81790

S/O52/60/026/07/22/055
B015/B054

18.8300

AUTHORS: Titov, V. A., Agapov, G. I.

TITLE: Measurements of Metal Potentials in Aggressive Media at High Temperatures

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 7, pp. 839-842

TEXT: The authors describe an instrument for measuring the potential of acidproof ^vtantalum-niobium alloys in sulfuric acid at temperatures up to 250°C. A calomel element is used as reference electrode. The instrument (Fig. 1) is made of heat-resistant "Pyrex" glass, and is, in principle, a cylinder cooled on top, in which the alloy is dipped as electrode into sulfuric acid. The polarizing current is supplied via a Pt electrode. The present experiments were carried out with a suitable arrangement (Fig. 2) containing the polarization scheme and a measuring scheme. The authors investigated alloys with 70.8% of Ta + 29.2% of Nb, as well as 21.6% of Ta + 78.4% of Nb. Potential measurements of the former alloy at different temperatures have shown (Fig. 3) that at 100°C the potential became gradually more positive due to the consolidation of the

Card 1/2

33842

S/137/62/000/001/185/237
A006/A101

18.8380

AUTHORS: Titov, V.A., Agapov, G.I., Tomashov, N.D.

TITLE: Corrosion of tantalum, niobium and their alloys in sulfuric acid at high temperatures

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 1, 1962, 82, abstract 11581 ("Korroziya i zashchita konstrukts. metallich. materialov", Moscow, Mashgiz, 1961, 187 - 195)

TEXT: The authors studied the behavior of Ta, Nb and their alloys, containing 21.6; 34.0; 49.4; 67.3 at. % Ta, in H₂SO₄ at high temperature. In 90% H₂SO₄, at 250°C, during the transition from an alloy containing 34.0 at. % Ta to an alloy containing 49.4 at. % Ta, an over 30-fold decrease of the corrosion rate was observed (from 15.1 to 0.5 g/m².hour) and also an abrupt change of the potential toward the positive side (from 0.25 to 0.77 v, i.e. more than by 0.5 v). The abrupt changes in the anti-corrosion properties of the alloy correspond to the first threshold of stability in the Ta and Nb correlation, equal to 4/8 atomic fraction. Extended tests (120 hours) of Ta-Nb alloys under experimental conditions, do not shift the threshold of stability towards the rate of other Ta-Nb

Card 1/2

33842

S/137/62/000/001/185/237

A006/A101

Corrosion of tantalum

correlations in the alloy. In 10% H_2SO_4 at boiling temperature of the solution (102°C), the internal stresses (cold hardness) shift the electrode potential of the alloys to the negative side, by 0.05 v on the average, but both cold hardness and stress applied do not reduce the corrosion resistance nor cause corrosion cracking of the alloys. Tests with the Ta-Nb alloy containing 96.2 at.% Ta in various H_2SO_4 solutions at 250°C, have shown that 70% H_2SO_4 is the most aggressive medium as compared with its solutions of other concentrations. There are 11 references.

The author's summary

[Abstracter's note: Complete translation]

Card 2/2

AGAPOV, G.I., inzh.; VLADIMIROV, V.B., inzh.

Electrochemical properties of welded joints in 18-8 type steel
with titanium and niobium addition alloys. Svar.proizv.
no.7:11-12 J1 '62. (MIRA 15:12)
(Chromium-nickel steel—Welding)
(Electrochemistry)

SUVOROVSKIY, E.A., inzh.; VLADIMIROV, V.B., inzh.; AGAPOV, G.I., inzh.

Effect of displacement in bilateral, one-pass joints in
1Kh18N9T steel on the appearance of knife-line corrosion.
Svar. proizvod. no.6:29-30 Je '63. (MIRA 16:12)

VLADIMIROV, V.B., inzh.; SUVOROVSKIY, E.A., inzh.; AGAPOV, G.I., inzh.

Corrosion testing of the internal cavity of welded stainless
steel pipes. Svar. proizvod. no.9:33-34 S '63. (MIRA 16:10)

File # FCVZ 1000

107, 7.1.1.; AG-VV, 1.0.

self-regulation of the smelt population in Lake Zhizhitskoye.

Tr. izht. no. 8:160-178 '57.

(MIRA 1958)

1. Zhizhitskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'-
skogo instituta ozernogo i rechnogo rybnogo khozaystva.
(Zhizhitskoye, Lake--Smelts)

GUSEV, A.N.; AGAPOV, I.K.; SHAPOSHNIKOV, D.Ye.

Automatic valve stamping. Avt.1 trakt. prom. no.5:26-30 My '56.
(MLRA 9:8)

1. Moskovskiy zavod malolitrazhnykh avtomobiley.
(Automobiles--Engines--Valves) (Forging)

SEMYUK, G.H., podpolkovnik meditsinskoy sluzhby; AGAPOV, I.T., starshiy
leytenant meditsinskoy sluzhby

Prevention of skin diseases. Voen.-med.zhur. no.?:82 J1 '57.
(SKIN--DISEASES) (MIRA 11:1)

AGAPOV, I.V.

Stamp for printing labels on sugar bags. Sakh.prom.31 no.9:31-34
S '57. (MIRA 10:12)

1. Tokmanskiy sakharnyy zavod.
(Sugar industry--Equipment and supplies) (Marking devices)

MARISOVA, O.I., kama. tekhn. nauk, dotsent; KANDOV, L.M., dotsent

Use of knitted fabrics instead of industrial cloth. Tekst. prom.
24 no.7:58-61 J1 '64. (MIRA 17:10)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti im.
S.M. Kirova.

GARBARUK, V.N., kand.tekhn.nauk, dotsent; SIMIN, S.Kh., kand.tekhn.nauk;
AGAPOV, L.M., inzh.

Designing the pattern chain mechanism of warp knitting machines.
Izv.vys.ucheb.zav.; tekhn.prom. no.6:107-115 '60.

(MIRA 14:1)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova. Rekomen-
dovana kafedroy proyektirovaniya tekstil'nykh mashin.
(Knitting machines)

AGAPOV, L.M., inzh.

Design for strength of slightly stretchable tricot cloth. Izv.vys.
ucheb.zav.; tekhn.prom. no.3:121-131 '61. (MIRA 14:7)

1. Leningradskoy tekstil'nyy institut imeni S.M.Kirova. Rekomendovana
kafedroy tekhnologii trikotazhnogo proizvodstva Moskovskogo
tekstil'nogo instituta.

(Knit goods--Testing)

AGAPOV, L.M., inzh.

Technical and economic comparison of manufacturing light outer garments made from woven fabrics or slightly stretchable tricot cloth. Izv.vys.ucheb.zav.; tekhnolog.prom. no.6:107-120 '61.
(MIRA 14:12)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova.
Rekomendovana kafedroy tekhnologii trikotazhnogo proizvodstva.
(Clothing industry)
(Textile fabrics)

AGAPOV, L.M., ispolnyayushchiy obyazannosti dotsenta

Use of yarns made from synthetic fiber wastes in the manufacture of knit fabrics. Tekst.prom. 25 no.1:48-50 Ja '65.

(MIRA 18:4)

1. Kafedra tekhnologii trikotazhnogo proizvodstva Leningradskogo instituta tekstil'noy i legkoy promyshlennosti imeni S.M.Kirova.

AGAPOV, M. A.

7792. AGAPOV, M. A. ---Mekhanizatsiya trudoyemkikh rabot na zhiivotnovodcheskikh fermakh. (iz opyta raboty chkal. mts. Lit. obrabotka N. I. Shushina i K. A. Tarasovoy). Gor'kiy. kn. IZD., 1954 47 s.s ill. 14 sm. (UPR, s. kh. propagandy i nauki. Peredoviki zhiivotnovodstva o svoey onyte). 2.000 EKZ. Pesol.---Na obl. tol'ko 3-Y Avd.---vlozhena s 9-yu drugimi knizhami etoy serii v futlyar s zagl. serii.---(55-3953) P 638. 0025 (47.37)

SO: Knizhnaya Letopis', Vol. 7, 1955

AGAPOV, M.F...tekhnolog

Crease-resistant treatment of rayon fabrics. Tekst.prom. 18
no.10:52-54 0 '58. (MIRA 11:11)
(Textile finishing) (Rayon)

85424

S/108/60/015/011/007/012
B019/B063

9.2130 (1001, 1135, 1155)

AUTHOR: Agapov, M. V.TITLE: Selection of the Optimum Transformation Coefficient in
High-voltage Transformers With Impact Excitation

PERIODICAL: Radiotekhnika, 1960, Vol. 15, No. 11, pp. 47-49

TEXT: The author first notes that the optimum transformation coefficient is usually not selected when designing small high-voltage transformers with impact-excited oscillations. Since this is necessary for obtaining the highest efficiency, he gives an approximate solution to this problem. Fig. 1 shows a commonly used transformer circuit, and Fig. 2 is an experimental representation of the transformation coefficient for different load currents. It may be seen that the optimum transformation coefficient changes considerably for different load currents. Making an analysis on the basis of the equivalent-circuit diagram shown in Fig. 3, the author obtains several relations that allow the optimum transformation coefficient to be estimated from the condition of maximum efficiency and maximum rectified output voltage. There are 5 figures and 2 references:

Card 1/2

41

S/194/62/000/006/139/232
D256/D308

9.2540

AUTHOR: Agapov, M.V.

TITLE: Overload protection system for transistorized voltage stabilizers

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-5-73 b (Poluprovodnik. pribory i ikh primeneniye, no. 7, M., Sov. Radio, 1961, 243-259)

TEXT: The protection systems preventing transistors from burning out in breakdown situations, e.g. overload short circuits etc., increase the reliability of the stabilizers. The simplest protection against short circuit is obtained by including safety fuses in the circuit; however, such protection is not effective owing to a long delay in operation of the fuses. Protection systems employing relays have been found satisfactory. By using various combinations of relays it is possible to protect the control transistor against short circuit, overload and voltage surges produced by switching on of the power supply. 3 references. [Abstracter's note: Complete Card 1/2

Overload protection system for ...
translation.]

S/194/62/000/006/139/232
D256/D308

✓
15

Card 2/2

S/108/61/016/004/004/006
B107/B212

9.3220 (also 1031, ~~1032~~)

AUTHOR: Agapov, M. V., Member of the Society (see Association)

TITLE: Investigation of a voltage transformer circuit with impact excitation

PERIODICAL: Radiotekhnika, v. 16, no. 4, 1961, 37-43

TEXT: A high-voltage transformer with impact excitation and its efficiency as a function of shape and duration of the pulse has been investigated. Such circuits are used to feed cathode-ray tubes etc. The first part of this paper deals with energy relations in the transformer. The circuit (Fig. 1) consists of an amplifier tube μ_1 (tetrode or pentode), to the plate of which the choke L_a is connected, and a semiperiodic rectifier at the kenotron μ_2 . The efficiency coefficient is given by

$$\eta = A \frac{L i^2(\tau)}{E_o I_o \tau_{cp}} \quad (1),$$
 where A is a constant coefficient, L the choke

inductivity, E_o the plate voltage of the tube, I_o the mean plate current,

Card 1/3

Investigation of a voltage ...

S/108/61/016/004/004/006
B107/B212

$i(\tau)$ the maximum value of the plate current amplitude at $t = \tau$, τ_{cp} the duration of the plate current pulse cutoff (Fig. 2). The efficiency coefficient has a maximum if $I_0/i^2(\tau) = \beta$ has a minimum

$\eta = A \frac{L}{E_0 \tau_{cp}} \frac{1}{\beta}$ (2). The following expression is valid for the plate current:

$$i_a = I_m \int_0^t U_{bx}(x) h'(t-x) dx = I_m \alpha e^{-\alpha t} \int_0^t U_{bx}(x) e^{\alpha x} dx \quad (3),$$

$I_m = i(t)$ for $t = \infty$ and $h(t) = 1 - e^{-\alpha t}$; here $\alpha = r/L$ and r is the impedance of the plate circuit. The mean plate current is now given by

$$I_0 = \frac{1}{\tau} \int_0^{\tau} i_a dt + \frac{1}{\tau_{cp}} \int_0^{\tau_{cp}} i(\tau) e^{-\alpha \tau} dt =$$

$$= \frac{\alpha I_m}{\tau} \int_0^{\tau} e^{-\alpha t} \int_0^t U_{bx}(x) e^{\alpha x} dx dt + \frac{i(\tau)}{\alpha_{cp} \tau_{cp}} \quad (4)$$

Card 2/1
5

Investigation of a voltage ...

S/108/61/016/004/004/006
B107/B212

where $\alpha_{op} = r_{op}/L$. The second term of (4) can be neglected without introducing a significant error. The influence of pulses of different shapes applied to the input of the transformer is investigated in the second part of the paper. The efficiency of the transformer is calculated for an excitation by square pulses. The following expression is found for the mean plate current for square pulses:

$$I_0 = \frac{\pi I_m}{\pi} \int_0^{\tau} e^{-\alpha t} \cdot \int_0^t e^{\alpha x} dx dt = I_m \left(1 + \frac{e^{-\alpha \tau} - 1}{\alpha \tau} \right). \quad (5)$$

The instantaneous value for the plate current is given by

$$I_a(t) = \int_0^t U_{ax}(x) h'(t-x) dx = \frac{I_m \tau}{\alpha} (e^{-\alpha t} + \alpha t - 1). \quad (12)$$

Card 3/18
5

Investigation of a voltage ...

S/108/61/016/004/004/006
B107/B212

for $i(\tau) = 1 - e^{-\alpha\tau}$. When the pulse stops acting ($t = \tau$), the instantaneous value of the plate current is given by

$$i(\tau) = \frac{1}{\alpha} I_m (e^{-\alpha\tau} + \alpha\tau - 1) = \frac{I_m}{\alpha\tau} (e^{-\alpha\tau} + \alpha\tau - 1) \quad (15)$$

For parabolic pulses (quadratic parabola), the mean plate current is given by

$$I_0 = \frac{\alpha I_m}{\tau} \int_0^{\tau} e^{-\alpha t} \cdot \int_0^t U_{ex}(x) e^{\alpha x} dx dt = \lambda I_m \left(\frac{\tau^3}{3} - \frac{\tau}{\alpha} + \frac{2}{\alpha^2} + \frac{2e^{-\alpha\tau}}{\alpha^2\tau} - \frac{2}{\alpha^2\tau} \right) \quad (16)$$

The instantaneous value of the plate current is

$$i(t) = I_m \lambda \left(t^2 - \frac{2t}{\alpha} + \frac{2}{\alpha^2} - \frac{2e^{-\alpha t}}{\alpha^2} \right) \quad (18)$$

and for the constant coefficient λ the following expression is valid:

$$\frac{\lambda}{\alpha^3} (\alpha^2\tau^3 - 2\alpha\tau + 2 - 2e^{-\alpha\tau}) = 1 - e^{-\alpha\tau} \quad (A)$$

Card 4/8
5

Investigation of a voltage ...

S/108/61/016/004/004/006
B107/B212

Experimental investigations for square pulses (Figs. 5 and 6) and for saw-tooth pulses (Figs. 7 and 8) agree well with theoretical values. There are 8 figures, 2 tables, and 5 references: 3 Soviet-bloc and 2 non-Soviet-bloc. The two references to English-language publications read as follows: J. Houldsworth. Electronic engineering, v. 27, no. 328, VI, 1955; W. T. Cocking. Wireless world, v. 56, VIII, IX, 1950.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A. S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications imeni A. S. Popov) [Abstracter's note: Name of association was taken from first page of journal]

SUBMITTED: May 28, 1960

Card 5/8
5

AGAPOV, M.V.; PIKHUTA, A.V.

Protection of the transistors of transistor voltage stabilizers
using silicon stabilotrons. Elektrosviaz' 18 no.3:38-51 Mr
'64. (MIRA 17:4)

AGAPOV, M.V.

Damping of shock oscillations in the rectifiers of radio systems.
Radiotekhnika 18 no.7:75-76 JI '63. (MIRA 16:10)

1. Deystvitel'nyy chlen Nauchno-tehnicheskogo obshchestva radiotekhniki
i elektrosvyazi im. A.S.Popova.

L 29921-65

ACCESSION NR: AP5003855

S/0106/65/000/001/0067/0072

AUTHOR: Agapov, M. V.; Pikhuta, A. V.

TITLE: Enhancing the efficiency of a semiconductor voltage stabilizer with a parallel regulating element

SOURCE: Elektrosvyaz', no. 1, 1965, 67-72

TOPIC TAGS: voltage stabilizer, semiconductor voltage stabilizer

ABSTRACT: Characteristics of semiconductor voltage stabilizers with a parallel-connected reactive-ballast impedance are considered. The circuits are suitable for output voltages under 40-50 v and slightly fluctuating load currents. Formulas for the overall efficiency of a stabilized rectifier with a resistance, an inductance, or a capacitance as the ballast element are developed. The voltage stabilization is possible without any ballast element, using the internal impedance of the rectifier instead. A reactive ballast element enhances the overall

Card 1/2

L 29921-65

ACCESSION NR: AP5003855

efficiency. Orig. art. has: 5 figures and 13 formulas.

ASSOCIATION: none

SUBMITTED: 02Jan64

ENCL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 000

Card 2/2

AGAPOV, N.

Using bituminous sand in making asphalt concrete. Avt.transp. 32
no.5:25 My '54. (MLRA 7:7)

1. Institut arkhitektury, stroitel'stva i stroitel'nykh materia-
lev Akademii nauk Kazakhskey SSR.
(Bituminous materials) (Concrete)