"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

TRAKHTENBERG, D.M.; BIRLOVA, L.V.; BLINOV, N.O.; ROZANOVA, T.N.

Isolation and properties of some antibiotics-pigments from a culture fluid of strain No. 2844-31 of Act. prunicolor. Antibiotiki 7 no.9:776-783 S '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS)(ACTINOMYCES)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

RESHETOV, P.D., BLINOV, N.O.; KHOKHLOV, A.S.

Chromatographic comparison of polymycin with some streptothricin antibiotics. Antibiotiki 8 no.2:104-110 F'63. (MIRA 16:7)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(ANTIBIOTICS) (CHROMATOGRAPHIC ANALYSIS)
(POLYMYXIN)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, N.O.; VORONIN, V.V.; OROYEV, I.I.; KHOKHLOV, A.S.

Automatic camera for chromatography on paper. Lab.delo 9 no.3:58-59 Mr '63. (MIRA 16:4)

1. Institut khimii prirodnykh soyedineniy AMN SSSR.
(PAPER CHROMATOGRAPHY)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, N.O.; YAKUBOV, G.Z.; ARTAMONOVA, O.I.; KHOKHLOVA, Yu.M.

Isolation of antibiotics of the mycetin-violarin group by paper chromatography. Antibiotiki 7 no.12:1063-1069. D '62. (MIRA 16:5)

1. Institut khimii prirodnykh soyedineniy i Institut mikrobiologii AN SSSR.
(ANTIBIOTICS) (PAPER CHROMATOGRAPHY)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

KHOKHLOVA, Yu.M.; PUCHNINA, A.V.; BLINOV, N.O.

Paper chromatography method in the study of heptane antibiotics No.s 2339 and 2789. Antibiotiki 8 no.5:417-422 My'63 (MIRA 17:3)

1. Institut mikrobiologii AN SSSR i Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, N.O.; KHOKHLOV, A.S.

Detection of antibiotics by paper chromatography. Antibiotiki 8 no.8:751-762 Ag '63. (MIRA 17:5)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, N. O.; OPARYSHEVA, Ye. F.; KHOKHLOVA, Yu. M.; YAKUBOV, G. Z.; PUCHNINA, A. V.; FEDKINA, N. G.; KHRYASHCHEVA, K. M.; KHOKHLOV, A. S.

"Classification of antibiotics according to 'chromatographic spectra'."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Inst for Chemistry of Natural Compounds, Inst of Microbiology, AS USSR, All-Union Res Inst for Antibiotics, Moscow.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, N.O.; FED'KINA, N.G.; OPARYSHEVA, Ye.F.; KHOKHLOV, A.S.

Methods of the classification of antibiotics in the early stages of their study. Izv. AN SSSR. Ser. biol. no.4:533-545 Jl-Ag '64. (MIRA 17:10)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

PREOBRAZHENSKAYA, T.P.; MAKSIMOVA, T.S.; BLINOV, N.O.

Study of the green pigments of some actinomycetes species by paper chromatography. Antibiotiki 9 no.11:963-970 N '64. (MIRA 18:3)

1. Institut po izyskaniyu novykh antibiotikov AMN SSSR i Institut prirodnykh soyedineniy AN SSSR, Moskva.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, N.O.; MOROZOVA, G.R.; KHOKHLOV, A.S.

Comparison of coelicomycin with the red-violet indicator antibiotics. Antibiotiki 10 no.8:717-722 Ag '65. (MIRA 18:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR, Moskva, i Institut mikrobiologii i virusologii AN Kazakhskoy SSR, Alma-Ata.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

YAKUBOV, G.Z.; BLINOV, N.O.; SERGEYEVA, L.N.; ARTAMONOVA, O.I.; KHOKHLOV, A.S.

Mycetins B_1, B_2 and C, the new antibiotics of the rhodomycin group. Antibiotiki 10 no.9:771-776 S '65. (MIRA 18:9)

1. Institut khimii prirodnykh soyedineniy i Institut mikrobiologii AN SSSR, Moskva.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

MOROZOVA, G.R.; VETLUGINA, L.A.; YEGOROV, TS. A.; BLINOV, N.O.; KHOKHLOV, A.S.

Physicochemical properties of celiocmycin fractions. Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR. 8:111-116 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

ACC NR: AP7010708 SOURCE CODE: UR/0384/66/000/005/0043/0047

AUTHOR: Blinov, N. S. (Candidate of physicomathematical sciences)

ORG: none

TITLE: Atomic time

SOURCE: Zemlya i vselennaya, no. 5, 1966, 43-47

TOPIC TAGS: atomic clock, quartz clock, atomic time, astronomic time, earth rotation

SUB CODE: 14,03

ABSTRACT:
This feature article describes quartz clocks, ammonium and cesium frequency standards and other modern means for precise time determination. For example, it is noted that the use of cesium standards in combination with a quartz clock has made it possible to create a basically new time standard independent of the earth's rotation. The resulting time scale is known as atomic time. The abbreviation is TA-1; its uniformity is considerably greater than that obtained from astronomical observations. The introduction of atomic standards in the time service has considerably changed their problems. Whereas earlier astronomical observations were the only means for obtaining a standard second, and

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0930 3911

ACC NR: AP7010708

therefore were very important, now their role has decreased somewhat. The duration of the astronomical second changes due to the nonuniformity of the earth's rotation and therefore atomic time TA-1 gradually differs from astronomical time. During the last eight years TA-1 time has deviated from astronomical time by approximately four seconds. The existence of two different time scales is inconvenient and therefore TA-1 time is not used in transmitting precise time signals, but another one is used which differs very little from astronomical time. The uses of these two different scales and how they compare with one another are discussed in detail. The availability of these new time standards is making possible more precise study of changes in the earth's rate of rotation and is yielding new information on the internal structure of the earth. Orig. art. has: 4 figures. [JPRS: 40,291]

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, N.S.

Possible system of the general catalog of time services of the U.S.S.R. Astron.zhur. 41 no.5:990-992 S-O '64.

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.
(MIRA 17:10)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

L 10782-65 EWT(1)/EWG(v) Pe-5/Po-4/Pq-4/Pae-4/Pae-2 GW

ACCESSION NR: AP4047163 S/0033/64/0[illegible]

AUTHOR: Blinov, N. S.

TITLE: Possible system of a general catalogue of SSSR time services

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 5, 1964, [illegible]

TOPIC TAGS: general SSSR catalogue, FK4 catalogue, [illegible] time service, new system

ABSTRACT: One of the main problems of SSSR time [illegible] IIC was compiling catalogues of the right ascention of [illegible] observatories [illegible] the catalogue of [illegible]

The results obtained clearly indicate that a [illegible] observatories during a [illegible] characteristics, is very [illegible] catalogue the [illegible]

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

L 10782-65

ACCESSION NR: AP4047163

ASSOCIATION: [illegible] astronomicheskiy institut [illegible] (Astronomical Institute)

Card 2/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

SURGUCHEV, G.D.; BLINOV, O.M.; YAVOYSKIY, V.I.

Control of open-hearth furnace smelting by the composition of the combustion products. Izv. vys. ucheb. zav.; chern. met. 5 no.7:56-61 '62. (MIRA 15:8)

1. Moskovskiy institut stali i splavov.
(Open-hearth process)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

KAGANOV, V.Yu.; BLINOV, O.M.; SURGUCHEV, G.D.; REYSS, M.R.

Optimum method of calculating the heat absorption of open-hearth furnace baths. Izv.vys.ucheb.zav.; chern.met. 6 no.1:194-200 '63. (MIRA 16:2)

1. Moskovskiy institut stali s splavov.
(Open-hearth furnaces) (Heat—Transmission)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

SURGUCHEV, G.D.; BLINOV, O.M.; REYSS, M.R.; YAVOYSKIY, V.I.

Automatic control of charging and preheating periods in open-hearth smelting. Izv. vys. ucheb. zav.; chern. met. 6 no.9: 39-44 '63. (MIRA 16:11)

1. Moskovskiy institut stali i splavov.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

GLINKOV, M.A.; KAGANOV, V.Yu.; BLINOV, O.M.

Obtaining information necessary for the optimum control of thermal conditions in furnaces. Izv. vys. ucheb. zav.; chern. met. 7 no.1:162-165 '64. (MIRA 17:2)

1. Moskovskiy institut stali i splavov.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

GLINKOV, M.A., doktor tekhn.nauk; KAGANOV, V.Yu., kand.tekhn.nauk; SLESAREV, V.I., inzh.; REYSS, M.R., inzh.; BLINOV, O.M., inzh.; SURGUCHEV, G.D., inzh.

Computing equipment to determine the heat absorption by carbon content in an open-hearth furnace bath. Stal' 24 no.2:120-123 F '64. (MIRA 17:9)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

GLINKOV, M.A.; KAGANOV, Yu.V.; NADZHAFOV, E.M.; BLINOV, O.M.; MUGARAB-SAMEDI, K.R.; MAGERRAM-ZADE, R.D.

Calculation method for obtaining current information on heat exchange processes in soaking pits. Izv. vys. ucheb. zav.; chern. met. 8 no.9:187-191 '65. (MIRA 18:9)

1. Moskovskiy institut stali i splavov.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

SURGUCHEV, G.D.; BLINOV, O.M.; REYSS, M.R.

Control of open-hearth furnace production with the use of computers. Metallurg 10 no.6:17-19 Je '65. (MIRA 18:6)

1. TSentral'naya laboratoriya avtomatiki i Moskovskiy institut stali i splavov.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, N.S.

Investigating the performance of the K-4 quartz clock of the Time Service of the State Instutute of Astronomy. Astron.tsir. no.219:23-25 Mr '61. (MIRA 14:10)

1. Gosudarstvennyy astronomicheskiy institut im. Shternberga.
(Astronomical clocks)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

PIL'NIK, G.P.; BLINOV, N.S.

Investigating contact micrometers. Trudy GAISH 30:159-163 '61. (MIRA 14:8)

(Micrometer)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, N.S.

Some results of the activity of the Time Service of the Shternberg Astronomical Institute during the International Geophysical Year. Astron.zhur. 38 no.4:706-713 Jl-Ag '61.

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.

(Stars—Catalogs)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV N. Ya.

USSR / Forest Science. Forest Cultures. K-4

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 77516

Author : Blinov, N. Ye.
Inst : Polvolzh' Forest-Technical Institute
Title : Influence on the Success of Cultivations of Methods of Embedding the Roots of Pine Seedlings

Orig Pub : Sb. stud. rabot, Povolzhsk. lesotekhn. in-t, 1957, vyp. 4, 16-20

Abstract : No abstract given

Card 1/1

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, O.S., inzh., SUKACH, G.Ye., inzh., STEPANOV, D.P., inzh., YAKIMOV, I.D., inzh.; IVANOV, A.S., red., SEMENOV, S.M., red.; OSOKINA, A.M., red.izd-va,; BACHURINA, A.M., tekhn. red.

[Standard technical specifications for building logging roads] Tipovye tekhnologicheskie pravila proizvodstva rabot po stroitel'stva lesovoznykh dorog. Moskva, Goslesbumizdat. Vol. 2 and 3. [Automobile roads] Avtomobil'nye dorogi. Pt.3. [Engineering structures] Stroitel'stvo iskusstvennykh sooruzhenii. 1957. 46.p. (MIRA 11:10)

1. Moscow. Gosudarstvennyy institut po proektirovaniyu lesnogo transporta.

(Bridges, Wooden)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, O.S.; BELEN'KIY, Ye.L.; BRAUSEVICH, S.T.; DOROKHOV, B.A.; ZIGMUND, F.R.; ITSIKOV, G.B.; LEVER, A.A.; LESHCH-BORISOVSKIY, A.I.; MURTUZALIYEV, S.A.; PIIR, A.I.; YUZIKHIN, Ye.Ye.; YAKIMOV, I.D.; SHCHELKUNOV, V.V., retsenzent; GONCHAROV, A.F., otv. red.; KORCHUNOV, N.G., otv. red.; NIKOL'SKIY, B.V., otv. red.; POSTREMOV, G.A. [deceased]; SLUTSKER, M.Z., red. izd-va; SHIBKOVA, R.Ye., tekhn. red.

[Lumbering; land transportation of timber] Lesozagotovki; sukhoputnyi transport lesa. Spravochnik. Moskva, Goslesbumizdat, 1962. 504 p. (MIRA 16:7)
(Lumber—Transportation)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

SHMAKOV, Aleksey Timofeyevich; BLINOV, O.S., retsenzent; BAZICHENKO, L.P., retsenzent; KROTOV, V.R., red.

[Manual for bulldozer, scraper, and grader operators] Posobie bul'dozeristu, skreperistu i greideristu. Moskva, Goslesbumizdat, 1963. 153 p. (MIRA 17:6)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, P.F., inzh.

Portable mortar mixer installations and painting stations. Transp. stroi. 13 no.9:34-37 S '63.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

AKHMATOV, A.P.; BLINOV, P.I.; BOLOTIN, V.F.; BORODIN, A.V.; GAVRIN, P.P.; ZAVOYSKIY, Ye.K.; KOVAN, I.A.; OGANOV, M.N.; PATRUSHEV, B.I.; PISKAREV, Ye.V.; RUSANOV, V.D.; SMOLKIN, G.Ye.; STRIGANOV, A.R.; FRANK-KAMENETSKIY, D.A.; CHEREMNYKH, P.A.; CHIKIN, R.V.

[Magnetoacoustic resonance in a plasma] Magnito-zvukovoi rezonans v plazme. Moskva, In-t atomnoi energii, 1960. 23 p. (MIRA 17:2)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

83757

S/056/60/039/003/002/045
B004/B060

26.1410

AUTHORS: Akhmatov, A. P., Blinov, P. I., Bolotin, V. F., Borodin, A. V., Gavrin, P. P., Zavoyskiy, Ye. K., Kovan, I. A., Oganov, M. N., Patrushev, B. I., Piskarev, Ye. V., Rusanov, V. D., Smolkin, G. Ye., Striganov, A. R., Frank-Kamenetskiy, D. A., Cheremnykh, P. A., Chikin, R. V.

TITLE: Magnetoacoustic Resonance in the Plasma

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 3 (9), pp. 536-544

TEXT: The authors wanted to study the penetration of oscillations into the plasma taking place transversally to a static magnetic field. From the physical point of view, this process has a course similar to acoustic oscillations, with the difference that the magnetic pressure $H^2/8\pi$, and not the gas pressure, is effective here. (1) is written down as a resonance condition: $\alpha H_0/\omega R\sqrt{4\pi\rho} = 1$, where α is a dimensionless number characterizing the type of oscillations, H_0 the strength of the

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Magnetoacoustic Resonance in the Plasma

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B004/B060

static magnetic field, ρ the density of the plasma, ω the cyclic frequency, and R the radius of the plasma cylinder. The following is written down for the radial amplitude of the plasma motion velocity: $v_r \approx \tilde{H} u_{ph}/H_0 \approx \tilde{H}/\sqrt{4\pi\rho}$ (H = strength of the magnetic alternating field, u_{ph} = phase velocity of the magnetic field). The interaction of an electromagnetic high-frequency field $\tilde{H}$ with a cold plasma was experimentally investigated in a cylinder in the presence of an axial quasistatic magnetic field H_0. Fig. 1 shows the scheme of the apparatus used for the experiments. In one such experimental series the alternating field had a frequency of 12.5 Mc/sec, while in another series the frequency was 50 Mc/sec. The plasma glow was recorded by means of an ФЭУ-19 (FEU-19) photomultiplier and an ОК-17М (OK-17M) oscilloscope, while the penetration of high-frequency oscillations into the plasma and the radial amplitude distribution of the magnetic alternating field were studied with the aid of a magnetic probe. The experiments were conducted with hydrogen, helium, argon, and air at an initial pressure of

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83757

Magnetoacoustic Resonance in the Plasma

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10^{-4} - 6.10^{-3} torr. The oscillograms of Figs. 2,3 show that resonance phenomena appear in the range between 300 oersteds and 5 kilooersteds. Fig. 4 shows the effect of resonance on the spectral lines of hydrogen. There is a dependence of the amplitude H_r of the magnetic resonance field on the amplitude of the $\tilde{H}$-field. Fig. 5 shows the spatial distribution of the amplitude H_r of the resonance field in hydrogen and argon. As may be seen from Fig. 6, the resonance shows a fine structure. This effect is being further investigated. A gas temperature of 2.5 ev was calculated from the Doppler broadening of the H_β line (Figs. 7,8) corresponding to 0.8 A. Experimental data for H_r confirmed the validity of equation (1). Experiments with argon at frequencies above the hybrid frequency yielded no appreciable difference as compared with the effect observed with frequencies below the hybrid frequency. The authors assume that the appearing oscillations propagated obliquely, not perpendicularly to H_0. This was confirmed by measurement of the azimuthal component of the magnetic field H_φ (Fig. 9). The authors thank I. V. Kurchatov, Academician, for interest displayed in the work. There are 9 figures and 4 references: 2 Soviet, 1 US, and 1 German.

Card 3/4

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

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Magnetoacoustic Resonance in the Plasma

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SUBMITTED: April 2, 1960

Card 4/4

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

L 2224-66 EWT(1)/EWT(m)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2/EWA(m)-2 IJP(c) AT

ACCESSION NR: AP5023761 UR/0089/65/019/003/0233/0238

533.9

62

59

B

44,55

AUTHOR: Blinov, P. I.; Zakatov, L. P. 44,55

TITLE: Collective interactions of "escaping" electrons with plasma in the S-1 stellarator 21,44,55

SOURCE: Atomnaya energiya, v. 19, no. 3, 1965, 233-238

TOPIC TAGS: plasma electron oscillation, radio emission, plasma electron temperature, x ray emission, plasma density

ABSTRACT: Collective interactions of "escaping" electrons with the plasma in the S-1 stellarator during ohmic heating and the associated RF radiation were investigated. It is shown that in a racetrack device such as the stellarator, a considerable number of escaping electrons are present (about 10^{-3} of the total number of electrons in the plasma). The deceleration of the escaping electrons is accompanied by the development of electrostatic oscillations and the emission of powerful RF radiation which is linearly polarized along the axis of the chamber (along the confining magnetic field) and whose frequency is close to the plasma frequency. For the electrostatic oscillations to develop, it is necessary that the

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L 2224-66

ACCESSION NR: AP5023761

3

number of fast electrons exceed a certain minimum value. "The authors express their appreciation to N. M. Yashin for measurements of the electron temperature." Orig. art. has: 9 figures.

44,65

ASSOCIATION: None

SUBMITTED: 18Nov64 ENCL: 00 SUB CODE: ME

NO REF SOV: 005 OTHER: 007

Card 2/2 DP

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

L 31829-65 EWT(d)/EWT(1)/EEC(k)-2/EEC-4/EPA(w)-2/EEC(t)/T/EWA(m)-2/EPA(sp)-2 Pg-4/
Pi-4/Pk-4/Pl-4/Po-4/Pq-4/Pz-6/Pab-10 IJP(c) AT

ACCESSION NR: AP5004373

AUTHOR: Pilnov, P. I.; Zagorodnikov, S. F.; Smolkin, G. Ye.

TITLE: Measurement of the density of a plasma decaying [illegible] the aid of microwave and Fabry-Perot interferometers

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, [illegible] 61-64

TOPIC TAGS: plasma decay, plasma electron density, Fabry Perot interferometer, microwave interferometer

ABSTRACT: This work was performed in connection with an investigation of shock waves [illegible] plasma, described by the authors previously [illegible] 1717, [illegible]. The electron density decrease was measured with [illegible] eters at wavelengths 8 and 4 mm. A microwave bridge circuit was used, in which one beam passed through the investigated plasma in an attenuator and [illegible] beam (in the reference channel) passed through an attenuator [illegible] The [illegible] at the detector output [illegible] analysis [illegible] the plasma density [illegible]

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ACCESSION NR: AP5004373

ferometer was used to obtain approximately [illegible] experimental points [illegible] the density fall-off curve [illegible] the corresponding range [illegible] electron [illegible] interferometer [illegible] identical results [illegible] the [illegible] overlapped [illegible]. The results are [illegible] closure [illegible] difficulty of using microwave [illegible] 4 : 10+3 cm-3, the plasma density was measured by determining the Stark effect of the hydrogen Balmer lines. The Stark widths were measured with a Fabry-Perot interferometer crossed with an ISP-51 spectrograph. The time variation of the spectral line [illegible] measured using a fast time-resolved sweep [illegible] electron-optical converter. The time decay curves obtained [illegible] interferometers go over smoothly into each other. "The authors [illegible] Zavoyskiy for a discussion and interest in the work and M. M. [illegible] viding [illegible] optical converter." Orig. art. has

ASSOCIATION: [illegible]

[illegible] ENCL: [illegible]

NO REF SOV: [illegible] OTHER: 001

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ACCESSION NR: AP5004373 ENCLOSURE: 01

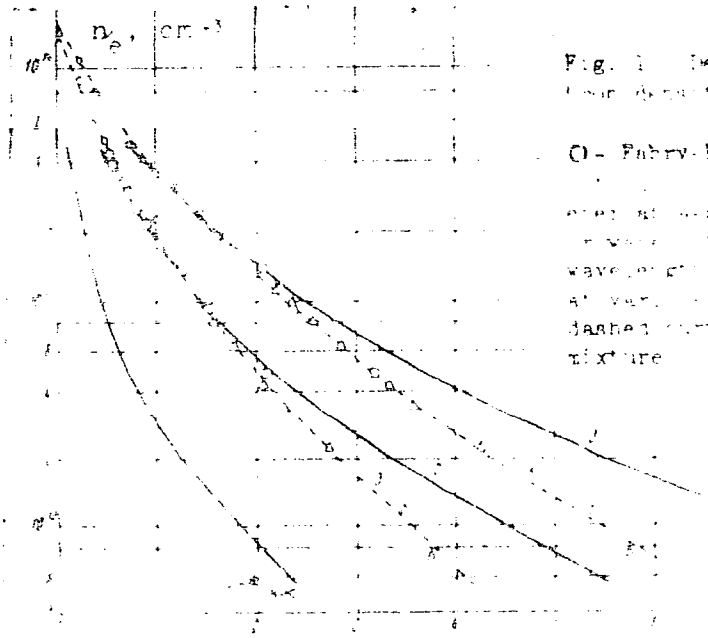

Fig. 1 [illegible] plasma electron density

O - Fabry-Perot interferometer

[illegible]

wavelength

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Card [illegible]

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L 11885-66 EWT(1)/ETC(F)/EPF(n)-2/EWG(m) IJP(c) AT

ACC NR: AP5028024 SOURCE CODE: UR/0386/65/002/008/0398/0402

AUTHOR: Blinov, P. I.; Gavrilov, B. I.; Zakatov, L. P.; Cheremnykh, P. A.

ORG: none

TITLE: Electron heating in the TN-1 installation

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 8, 1965, 398-402

TOPIC TAGS: plasma heating, plasma injection, plasma electron temperature, plasma acceleration, microwave plasma/ TN-1

ABSTRACT: The authors discuss results obtained with the TN-1 installation (Fig. 1), which was constructed to heat the electronic component of a plasma by means of a high-frequency shock circuit. The quasistatic field H_0 reached a maximum within 5 μsec, after which it decreased with a 20 msec time constant. The mirror ratio was 2, the maximum value of the field H_0 in the center of the trap was 8 koe. The plasma was injected in the trap by a coaxial injector with electrodes made of deuterium-impregnated titanium. By varying the injector voltage it is possible to vary the plasma density from $n_e > 2 \times 10^{13}$ cm^{-3} to $n_e < 10^{11}$ cm^{-3}. A single-turn loop with frequency $\nu = 3.5$ Mc at a voltage $u_c = 120$ kv on a capacitor $C_c = 3 \times 10^{-8}$ F produced a field of $H = 900$ oe. By varying the time interval between the operation of the high-frequency loop and the application of the magnetic field, it was possible to study the heating of the electrons at different $\tilde{H}/H_0$. It was expected that the electrons with $n_e = 2 \times 10^{12}$ cm^{-3} would be heated to $T_e = 3$ kev, and that further adiabatic compression

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would raise the temperature to ~30 kev. The experiment has shown that the cold plasma filling the trap chamber decayed as a result of recombination with a time constant τ_c = 300 μsec. Not more than 10% of the high-frequency field energy goes into plasma heating, and the authors' data have so far not confirmed the conclusion that turbulent heating of a plasma by means of a shock circuit is highly effective. The x-rays of energy ~20 kev emitted from the chamber after the closing of the circuit are due to the presence of an accelerating mechanism and do not prove the existence of high electron temperatures. Authors thank Ye. K. Zavoyskiy for suggesting the topic and interest in the work, and L. I. Rudakov, G. V. Sholin, A. V. Gordeyev, and L. V. Korablev for useful discussions. Orig. art. has: 3 figures.

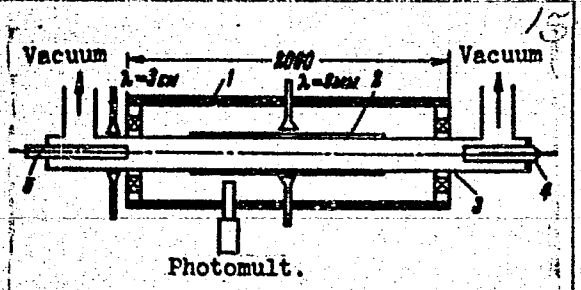

Fig. 1. Diagram of TN-1 installation. 1 - Solenoid, 2 - high-frequency shock circuit, 3 - vacuum glass chamber, 4 - plasma injector, 5 - grid probe or x-ray detector.

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Card 2/2

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L 11950-66 EWT(1)/ETC(F)/EPF(n)-2/EWG(m) LJP(c) AT
ACC NR: AP6000740 SOURCE CODE: UR/0386/65/002/009/0426/0430

AUTHOR: Blinov, P. I.; Zakatov, L. P.; Plakhov, A. G.; Chikin, R. V.; Shapkin, V. V.

ORG: none

TITLE: Influence of the mirror ratio on plasma heating by an electron beam in a "probkotron"

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 9, 1965, 426-430

TOPIC TAGS: magnetic mirror machine, plasma interaction, plasma heating, ionized plasma, plasma electron temperature, electron gun, plasma injection

ABSTRACT: The authors investigated the interaction between an electron beam and a ready-made highly ionized plasma. The apparatus (Fig. 1) comprises a trap with magnetic mirrors. The electron gun is located on the trap axis behind the mirrors on one end, and the plasma injector is located on the other end. The electron gun operates in a pulsed mode. The square-wave voltage pulse is of 450 μsec duration and 9 kv amplitude, the pulse current being 5 a. The plasma and the electron beam are injected into the trap simultaneously. The residual pressure in the chamber is 10^{-6} mm Hg. The electron density was measured with a microwave interferometer (λ = 3 cm). The quantity nT (T = plasma temperature) was determined from the diamagnetic effect. The bremsstrahlung was registered by photomultiplier with NaI(Tl) crystal. When the plasma and the electron beam are simultaneously injected in the plasma, the concentration does not rise, but the energy released by the plasma increases strongly. The presence of

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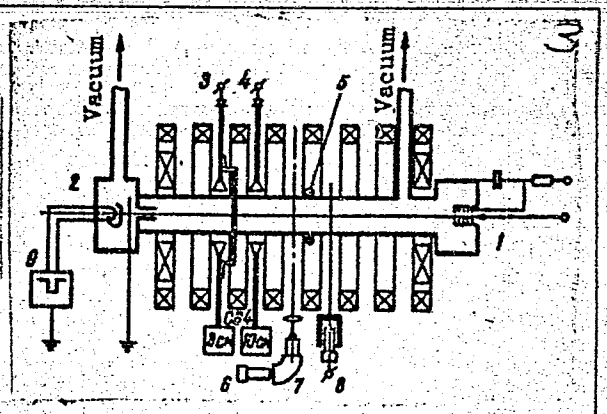
Fig. 1. Diagram of setup. 1 - Plasma injector, 2 - electron gun, 3, 4 - microwave source, 5 - diamagnetic probe, 6, 7 - electron-optical and spectral apparatus, 8 - bremsstrahlung recorder, 9 - low-voltage pulsed source.



"hot" electrons in the trap is evidenced by the prolonged, intense, and hard bremsstrahlung. The efficiency with which the plasma electrons are heated by the beam depends on the mirror ratio. As the mirror ratio is varied from 1.8 to 4, the plasma pressure increases tenfold. The plasma lifetime in the trap increases. A group of "hot" electrons, with a prolonged confinement time and with density close to 10^{10} cm^{-3} appears. Accordingly, the energy lost by the electron beam to plasma heating increases from fractions of one percent to 3.5%, and during the initial stage of the heating (the first 90 μsec) the loss reaches 10%. The influence of the mirror ratio on the heating of plasma with direct current was observed also in experiments of M. V.

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ACC NR: AP6000740

3

Babykin et al. Authors are grateful to Ye. K. Zavoiskiy 111,55 for continuous interest and valuable advice. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 09Sep65/ ORIG REF: 005/ OTH REF: 002

Card 3/3

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

L 20386-66 EWT(1)/ETC(f)/EPF(n)-2/EWG(m) IJP(c) AT

ACC NR: AT6001561 SOURCE CODE: UR/3136/65/000/912/0001/0008

AUTHOR: Blinov, P. I.; Gavrilov, B. I.; Zakatov, L. P.; Cheremnykh, P. A. 63 58

ORG: Institute of Atomic Energy im. I. V. Kurchatov (Institut atomnoy energii) B+1

TITLE: Heating of electrons in the TN-1 installation

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-912, 1965. Nagrev elektronov v ustanovke TN-1, 1-8

TOPIC TAGS: plasma heating, electron temperature, plasma injection, magnetohydrodynamics, plasma wave propagation, plasma discharge, x ray emission/ TN 1

ABSTRACT: The authors describe apparatus TN-1 (Fig. 1), designed for heating the electronic component of a plasma by means of a high frequency shock circuit. The quasistatic field reached a maximum within 5.0 msec, after which it dropped off with a time constant of 20 msec. The mirror ratio was 2, and the maximum field in the center of the trap was 8 koe. A single-turn loop with frequency 3.5 Mcs with a discharge of 3×10^{-8} F capacitor at a voltage of 120 kv, produced a field of 900 oe. The plasma was injected in traps by means of a coaxial injector. The plasma density could be varied from 2×10^{13} to 10^{11} cm^{-3} by varying the injector voltage. The heating was investigated in the electron density region 10^{12}--10^{13} cm^{-3}. The tests have shown that a radial magnetohydrodynamic wave propagated in

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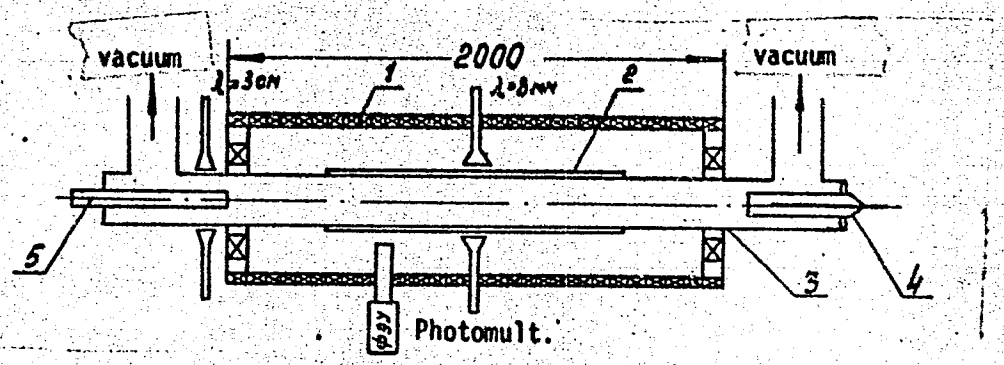

Fig. 1. Diagram of TN-1 installation. 1 - Solenoid, 2 - high frequency shock circuit, 3 - vacuum glass chamber, 4 - plasma injector, 5 - grid probe or end-window x-ray detector.

the plasma, and that the wave front becomes steeper upon heating. The electron distribution function relative to the longitudinal energy disclose the presence of two groups of electrons, a main group with average energy 100--250 ev, and a

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secondary group (25%) with energy of the order of 1 kev. Discharge of the plasma filled with the aid of the injector gave rise to emission of x-rays of energy 20 kev from the chamber, the x-radiation lasting as much as 25 msec. These x-rays are shown to be the result of the acceleration mechanism in the plasma. The authors thank Ye. K. Zavoyskiy for suggesting the topic and interest in the work, and L. I. Rudakov, L. V. Korablev, G. V. Sholin, and A. V. Gordeyev for useful discussions. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 001

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APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

L 21556-66 EWT(1)/EWG(m)/EPF(n)-2 IJP(c) AT

ACC NR: AP6008752 SOURCE CODE: UR/0386/66/003/006/0255/0258

AUTHOR: Blinov, P. I.; Zakatov, L. P.; Plakhov, A. G.; Chikin, R. V.; Shapkin, V. V.

ORG: Institute of Atomic Energy im. I. V. Kurchatov (Institut atomnoy energii)

TITLE: Influence of magnetic-field configuration on the heating and containment of a plasma in a mirror trap (Probkotron)

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 6, 1966, 255-258

TOPIC TAGS: magnetic mirror, plasma containment, plasma heating, magnetic trap, plasma radiation, ~~Probkotron~~ electron beam

ABSTRACT: This is a continuation of earlier experiments on heating of a plasma by an electron beam in a mirror trap (ZhETF Pis'ma v. 2, 426, 1965), aimed at showing that heating and containment of the plasma depend strongly on the distribution of the magnetic field along the trap axis. The experiment was carried out with the earlier installation, which made it possible to operate with two different configurations of the magnetic field (Fig. 1). The mirror ratio and the field in the center remained unchanged in both cases. The plasma initial density was 10^{12} cm^{-3}. A pulsed beam of electrons with current strength 1 a, energy 10 kv, and duration 500 μsec was injected into this plasma. The heating and decay of the plasma were investigated by measuring the time variation of the energy content (nT) and of the density n. On going over from a field configuration with local mirrors (a) to a configuration with extended mirrors (b) the maximum value of nT increases by a factor 1.5. The value of nT of the

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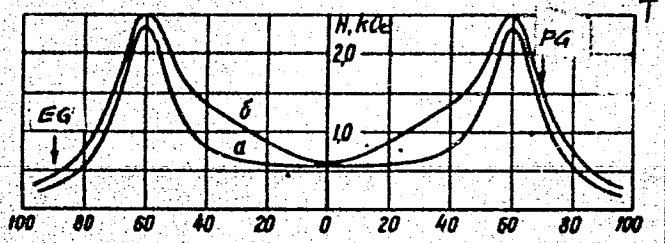

Fig. 1. Distribution of the magnetic field of the trap. The arrows indicate the locations of the guns: electron (EG) and plasma (PG).

hot electrons was three times larger in the field configuration with extended mirrors than in the configuration with the local mirrors, and the decay time was 20 and 2 μsec in the two cases, respectively. The time variation of the electron density was similar to that of nT. The prolonged containment of hot electrons in a trap with extended mirrors was evidenced also by the x-ray bremsstrahlung, which is observed for 100 msec. It is therefore concluded that the heating and containment of the plasma by a pulsed electron beam increase on going from a mirror trap with local mirrors to a mirror trap with extended mirrors. This may be due not only to the more effective transfer of energy from the beam to the plasma, but also to improvement in the containment of the hot electrons in the field with extended mirrors. Authors are sincerely grateful to A. V. Gordayev and G. V. Sholin for useful discussion, and also to G. A. Kudintseva and G. M. Kuznetsova for furnishing the cathodes. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 06 Feb66/ ORIG REF: 001

Card 2/2 BLG

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

L 25592-66 EWT(1)/ETC(f)/EPF(n)-2/EWG(m) IJP(c) AT

ACC NR: AT6001558 SOURCE CODE: UR/3136/65/000/907/0001/0035

AUTHOR: Blinov, P. I.; Gavrilov, B. I.; Cheremnykh, P.A.; Yashin, N. M.

ORG: none

65
B+1

TITLE: Effect of a helical field on the ohmic heating of plasma in the S-1 installation

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-907, 1965. Vliyaniye vintovogo polya na omicheskiy nagrev plazmy v ustanovke, S-1, 1-35

TOPIC TAGS: helical magnetic field, electron beam, plasma discharge, magnetic trap, plasma heating

ABSTRACT: Authors attempt to explain the role of an helical magnetic field in the development of a plasma discharge and retention of plasma in a trap, and the stabilization of the plasma filament. Based on the analysis of the first results of the experiments, a number of changes have been introduced into the S-1 installation. Additional conductors have improved the compensation of the lateral component of the magnetic field, so that the deflection of the electron beam after one turn along the axis of the chamber (L = 617 cm) did not exceed 1.5 mm. Thus the lateral component of a quasi-static magnetic field did not exceed 0.025%. Inside the chamber were installed two diaphragms with varying diameters from 5 to 8 cm, without disturbing the vacuum, in order to limit the discharge aperture. Additional resistance ranging from

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0.05 ohm to 0.6 ohm was introduced into the ignitron circuit diagram for ohmic heating. The behavior of plasma during four basic modes of operation of the S-1 installation were compared. The discharge in all four modes of operation was studied at various circuit voltages. The voltages changed according to the cosine law in the form of rectangular impulses lasting 1 μ sec. at E = 0.1 v/sec and 100 μ sec at E = 0.5 v/cm, after which the voltage dropped again to E = 0.1 v/sec and gradually decreased. The authors conclude that the presence of an external helical field improves the conditions for the development of a discharge, particularly at low pressures. The electron temperature is somewhat higher. The external helical field affected slightly the electron concentration, which in the case of this work could be traced to deficiencies in the configuration of the magnetic field. Orig. art. has: 4 formulas, 20 figures, 3 tables.

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

L 41033-66 EWT(1) IJP(c) AT

ACC NR: AP6013723 SOURCE CODE: UR/0089/66/020/004/0310/0315

60

B

AUTHOR: Blinov, P. I.; Gavrilov, B. I.; Cheremnykh, P. A.; Yashin, N. M.

ORG: none

TITLE: The influence of the helical magnetic field on ohmic plasma heating in the S-1 installation

SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 310-315

TOPIC TAGS: plasma conductivity, plasma confinement, plasma heating, helical magnetic field

ABSTRACT: Ohmic plasma heating experiments showed earlier that the temperature and confinement time of the plasma depend strongly on the transverse component $H_\perp$ of the magnetic field (L. A. Artsimovich, K. B. Kartashov, Dokl. AN SSSR, 146, 1305, 1962). In the present work, which was complete in 1963, the authors investigated experimentally the influence of a helical triple-thread magnetic field (with $H_\perp \simeq 0$) on the development of the discharge, and the magnitude of the conductivity and the position stabilization of the plasma beam. Results in the form of diagrams cover the voltage and current oscillograms, the pressure dependence of the development time and maximum current, and the time dependence of plasma

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conductivity, electron concentration, and current. Plasma radiation diagrams are also given. The electron temperature of 20—30 eV and ionic temperature of 10 eV correspond to a conductivity of 10^{15} units (cgse system). The helical field improves the conditions for the development of the discharge and the heating of the plasma, while the confinement time of the plasma remains the same. Orig. art. has: 2 formulas and 6 figures.

SUB CODE: 20/ SUBM DATE: 11Sep65/ ORIG REF: 005/ OTH REF: 002

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

VYRSKIY, Sergey Pavlovich; BLINOV, P.M., redaktor; AGRANOVSKAYA, N.D., redaktor; SHITS, V.P., tekhnicheskiy redaktor.

[Operation of automobiles used in hauling lumber] Ekspluatatsiia lesovoznykh avtomobilei. Moskva, Goslesbumizdat, 1956. 61 p. (Lumber--Transportation)(Motortrucks--Maintenance) (MLRA 9:6)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, P.N., veterinarnyy vrach.

Experimental Q fever in horses. Veterinariia 34 no.1:34-40 Ja '57. (MLRA 10:2)

(Q fever) (Horses--Diseases and pests)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

E

Country : USSR
Category: Virology. Viruses of Man and Animals. Rickettsias.

Abs Jour: Ref Zhur-Biol., No 23, 1958, No 103550

Author : Blinov, P. N.
Inst :
Title : The Preservability of Rickettsia burneti in Glycerin

Orig Pub: Labor. delo, 1958, No 2, 41-42

Abstract: The author suggests preserving material containing rickettsias in glycerin (50%) dissolved in NaCl (0.85% solution).

Card : 1/1

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, P.N.

Distribution of Rickettsia burneti under natural conditions. Zhur. mikrobiol. epid. i immun. 29 no.8:85-88 Ag '58. (MIRA 11:10)

1. Iz Vsesoyuznogo instituta eksperimental'noy veterinarii.
(COXIELLA BURNETII,
dissemination in natural cond. (Rus))

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV P. N.

"A natural focus of Q-fever in the suburbs of Saratov."

Veterinariya, Vol. 38, No. 12, December 1961, P. 19.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, P. N. (Senion Scientific Collaborator, All-Union Institute of Experimental Medicine), ZOTOV, A. P. (Professor).

"Investigations concerning the etiology of infectious atrophic rhinitis in swine."

Veterinariya, Vol. 38, No. 3, 1961, p. 32.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

ZOTOV, A.P., prof.; BLINOV, P.N., starshiy nauchnyy sotrudnik

Studying the etiology of infectious atrophic rhinitis of swine. Veterinariia 38 no.3:32-36 Mr '61 (MIRA 18:1)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, P.V. (Leningrad)

Some problems arising during the practical application of compulsory treatment. Probl.sud.psikh. 9:85-92 '61. (MIRA 15:2)
(Insane, Criminal and dangerous) (Forensic psychiatry)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, Sergey Ivanovich, kand. ist. nauk, polkovnik; GNEDOVETS, P.P., red.; KONOVALOVA, Ye.K., tekhn. red.

[From the Vistula to the Oder; combat operations of the 60th Army in the Sandomir-Silesian operation, Janurary 1945]Ot Visly do Odera; boevye deistviia 60' i armii v Sandomirsko-Silezskoi operatsii, ianvar' 1945 g. Moskva, Voenizdat, 1962. 182 p. (MIRA 15:8)

(Poland--World War, 1939-1945--Campaigns)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, S. N.

24054 BLINOV, S. N. Vozvedeniye zemlyanykh plotin v zimnikh usloviyakh. Gidrotekhnika i melioratsiya, 1949, No. 1, S. 40-47.

SO: Letopis, No. 32, 1949.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, S. N.

USSR/Engineering - Hydraulics, Concrete Jun 51

"On the Quality of Concrete Under Conditions of Accelerated Construction Works," S. N. Blinov, Cand Tech Sci

"Gidrotekh Stroi" No 6, pp 16-19

Describes briefly experience of several construction works and makes certain suggestions for partial reinstatement of concrete quality lost in delivery of concrete to placing points by conveyers. Concludes that methods and machines for placing of concrete, lagging behind achievements in the field of its prepn and transportation, inhibit increase in rates of concrete works.

199T51

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

1. BLINOV, S. N.

2. USSR (600)

4. Sedimentation and Deposition

7. Rebuilding the dike of a mud sedimentation pit., Biul. stroi. tekh., 9, No. 22, 1952.

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

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, S.N.

Trends in the design of dams for tailing storage ponds.
TSvet.met. 33 no.5:5-10 My '60. (MIRA 13:7)
(Tailings(Metallurgy))

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, S.N.

Design of tailing storage dams. TSvet. met. 33 no.11:1-8 N '60. (MIRA 13:11)

(Tailings (Metallurgy))

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

FEDOROV, I.S.; FEDOROV, I.V.; BLINOV, S.N.; ZASYPKINA, N.K.; DOBROVINSKAYA, O.Ye.

[Recommendations on the design of metallurgical pulp storage structures] Rekomendatsii po proektirovaniiu sooruzhenii shlamokhranilishch metallurgicheskoi promyshlennosti. Moskva, Stroiizdat, 1965. 143 p. (MIRA 18:9)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, Sergei Pavlovich

BLINOV, Sergei Pavlovich. ... Stoletie Gidrograficheskogo upravleniia. Ocherk sostavlen S.P. Blinovym i P.V. Messer. Leningrad, Izd. Gidrograficheskogo upraleniia voenn.-morsk. sil RKKA, 192[illegible]. 1 p. l., xcv p.

On cover: 1827-1927 ... DLC: GB746.B5

NN

SO: LC, Soviet Geography, Part I, 1951; Uncl.

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

SOV/137-58-7-14386

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 63 (USSR)

AUTHOR: Blinov, S.T.

TITLE: Improving the Design of Open-hearth Furnaces (Uluchsheniye konstruktsiy martenovskikh pechey)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 208-219

ABSTRACT: The result of 3 remodelings of 150-t open-hearth furnaces (OH) built in 1929-1930 and of 300-t OH built in 1933-1934 at the Kuznetsk Metallurgical Kombinat is that they now function as 185 and 350-t OH of designs significantly different from the original. The mounting of the tops and bottoms of the OH is rigid. The front walls have a slope of 15° and the rear of 57°. The doors, of archless frame type, measure 1350x1400/1200 mm; the skewback channels, the cross section of which is that of skewback brick, are water cooled and hung from vertical bolts. The bottom plate is welded of 20-mm sheet steel and Nr 36 I-beams resting on 8 longitudinal riveted bed I-beams 750 mm high. The furnace checker ports rest on riveted footings. The main roofs, when made of conventional 380x460-mm

Card 1/3

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

Improving the Design of Open-hearth Furnaces

silica brick, are of ribbed construction, while when of chromium-magnesite 380-mm brick they are of buckstay and tie-rod construction. The checker ports are of the Venturi type with water-cooled welded chambers of divergent shape, gas ports of 0.42-m^2 cross section and bottoms sloping at 9.5°. The slag-pocket division walls are of silica brick and are 1150 mm thick, while the false (facing) walls are 345 mm thick. The regenerators are of the single-reversal type, with 1610-mm division walls and checker flues measuring 150x150 mm. Valves with water seals are provided along the gas-and-smoke line, while water-cooled sliding dampers and disk inlet valves without water seals are used on the air line. The flue valves on the gas and air lines are controlled by separate winches mounted on the valve housings and the damper frames. The gas inlet valves are controlled by a separate winch beneath the working platform. The pattern of reversal approximates that of "counter-gas" flow, and control of reversal is automated and conducted in accordance with the Koshtyal' arrangement. A stack 65 m high and 1.9 m in inside diameter creates a draft of 42-45 mm water. After the remodeling, the weight of the structural steel per furnace increased from 465 to 630 t in the case of the 185-t furnaces and to 665 t in the case of the 350-t furnaces. The same picture held for the volume of the brickwork (from 1330 to 1565 m^3 for 185-t OH and to 1655 for 350-t OH). The total thickness of

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SOV/137-58-7-14386

Improving the Design of Open-hearth Furnaces

the ceramic portion of the bottom was identical in all the OH and came to 1155 mm (asbestos insulation 15-20 mm, fireclay brick placed edgewise 115 mm, magnesite brick 690 mm, and 350 mm rammed-in layer). The roof is 2.8-3.0 m above the working-door sills. The roof is not insulated. Blow-out is performed every heat. Roof life is 676 heats for 185-t furnaces and 496 heats for 350-t OH. The angle of slope of the uptake bottoms has been raised from 40° to 75°. Removable slag boxes are used in the slag pockets of 2 OH. They are replaced every 25 heats in the gas slag pockets and every 35 heats in the air slag pockets.

N.I.

1. Open hearth furnaces--Design 2. Open hearth furnaces--Equipment

Card 3/3

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

KOROLEV, A.I.; BLINOV, S.T.; LUBENETS, I.A.; KOBURNEYEV, I.M.; TURUBINER, A.L.; VASIL'YEV, S.V.; CHERNENKO, M.A.; BELOV, I.V.; TELESOV, S.A.; MAZOV, V.F.; MEDVEDEV, V.A.; MAL'KOV, V.G.; BUL'SKIY, M.T.; TRUBETSKOV, K.M.; SHNEYEROV, Ya.A.; SLADKOSHTEYEV, V.T.; PALANT, V.I.; KUROCHKIN, B.N.; ZHDANOV, A.M.; BELIKOV, F.N.; SABIYEV, M.P.; GAHBUZ, G.A.; PODGORETSKIY, A.A.; ALFEROV, K.S.; NOVOLODSKIY, P.I.; MOROZOV, A.N.; VASIL'YEV, A.N.; MARAKHOVSKIY, I.S.; MALAKH, A.V.; VERKHOVTSEV, E.V.; AGAPOV, V.F.; VECHER, N.A.; PASTUKHOV, A.I.; BORODULIN, A.I.; VAYNSHTEYN, O.Ya.; ZHIGULIN, V.I.; DIKSHTEYN, Ye.I.; KLIMASENKO, L.S.; KOTIN, A.S.; MOLOTKOV, N.A.; SIVERSKIY, M.V.; ZHIDETSKIY, D.P.; MIKHAYLETS, N.S.; SLEPKANEV, P.N.; ZAVODCHIKOV, N.G.; GUDEMCHUK, V.A.; NAZAROV, P.M.; SAVOS'KIN, M.Ye.; NIKOLAYEV, A.S.

Reports (brief annotations). Biul. TSNIICHM no.18/19:36-39 '57. (MIRA 11:4)

1. Magnitogorskiy metallurgicheskiy kombinat (for Korolev, Belikov, Agapov, Dikshteyn). 2. Kuznetskiy metallurgicheskiy kombinat (for Blinov, Vasil'yev, A.N., Borodulin, Klimasenko). 3. Chelyabinskiy metallurgicheskiy zavod (for Lubenets, Vaynshteyn). 4. Zavod im. Dzherzhinskogo (for Koburneyev). 5. Zavod "Zaporozhstal'" (for Turubiner, Mazov, Podgoretskiy, Marakhovskiy, Savos'kin). 6. Makeyevskiy metallurgicheskiy zavod (for Vasil'yev, S.V., Mal'kov, Zhidetskiy, Al'ferov). 7. Stal'proyekt (for Chernenko, Zhdanov, Zavodchikov). 8. VNIIT (for Belov). 9. Stalinskiy metallurgicheskiy zavod (for Telesov, Malakh).

(Continued on next card)

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KOROLEV, A.I.---(continued) Card 2.

10. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Medvedev, Novolodskiy, Vecher). 11. Zavod "Azovstal'" (for Bul'skiy, Slepkanev). 12. TSentral'nyy nauchno-issledovatel'skiy institit chernoy metallurgii (for Trubetskov). 13. Ukrainskiy institut metallov (for Suneyerov, Sleshoshteyev, Kotin). 14. Zavod "Krasnyy Oktyabr'" (for Palant). 15. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (for Kurochkin). 16. Zavod im. Voroshilova (for Sabiyev). 17. Chelyabinskiy politekhnicheskiy institut (for Morozov). 18. Giprostal' (for Garbuz). 19. Ural'skiy institut chernykh metallov (for Pastukhov). 20. Zavod im. Petrovskogo (for Zhigulin). 21. Ministerstvo chernoy metallurgii USSR (for Molotkov, Siverskiy). 22. Glavspetsstal' Ministerstva chernoy metallurgii SSSR (for Nikolayev).

(Open-hearth process)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, V., inzhener.

Refrigerating machinery at the Hanover exhibition. Khol.tekh. 32 no.3:66-69 Jl - S '55. (MLRA 9:1)
(Hanover--Refrigeration and refrigerating machinery)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, V.

Conference in Padua. Khol.tekh. 34 no.3:77 Jl-S '57. (MIRA 10:10)
(Padua, Italy--Refrigeration and refrigerating machinery--Congresses)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, V. (g.Barnaul)

A streetcar operaor in Barnaul. Zhil.-kom. khoz. 10 no.8:18-19 '60. (MIRA 13:9)

(Kolesnikova, Elena Ivanovna)

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

CA

7

Indicators for the detection and determination of an excess of acid in aniline salt. P. P. SAZANOV AND V. A. BLINOV. *J. Chem. Ind.* (Moscow) 7, 39-41(1930); *Chem. Zentr.* 1930, II, 429. The titration of aniline salt is carried out most advantageously by the drop method with crystal violet (for concd. solns.) or Congo red (for dil. solns.). Immersing Congo red paper of different concns. into the soln. and comparing with solns. of known acidity is used for the detn. of the excess of acid. ALFRED BURGER

COMMON ELEMENTS

OPEN

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ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

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B-II-6

Methylene-grey for printing. V. A. Blinov and A. A. Gunn (Anilinokrasy, Prom., 1934, 6, 434—435).— Pastes of methylene-grey with aq. 85% HCO_2H and $(HCO_2)_2Cr$ may be used for printing, alone or mixed with hematin-black. R. T.

COMMON ELEMENTS

COMMON VARIABLES INDEX

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2ND LETTER

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1ST AND 2ND ORDERS

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PROCESSES AND PROPERTIES INDEX

23

Direct Para Brown in dyeing. V. A. Blinov. *Khlopchatobumashnaya Prom.* 7, No. 5, 29-30(1937); *Chem. Zentr.* 1937, II, 2902-3.—Fast, dark-brown colors are obtained, with the use of mordants, by developing *chrysoidine* and *p-nitrophenyldiazonium salt* or by developing *Naphthol AS* with other amines. The first process gives less fast colors. Dyeing by the 2nd process is at present not satisfactory for Russian fabrics, for which some substantive dye is considered necessary for obtaining fast brown colors. S. P. Surovtzev has obtained satisfactory brown tones by treating fabrics dyed with "Direct Brown K" and "Direct Brown Sh" (Russian nomenclature) with *p*-nitrophenyldiazonium salts. Direct Para Brown, a naphtholsulfonic acid, 1-HO-2-{*m*-[2,4-$(NH_2)_2C_6H_3N:N$]-$C_6H_4N:N$} - 3 - HO_3S - 7 - [2,4 - $(NH_2)_2C_6H_3N:N$]C_6H_4, is readily sol. in NaOH and soda and gives deep-brown shades. In the naphthol developing 20 g. Para Brown and 10 g. soda per l. are used; 17 g. *p*-nitroaniline for the diazo soln. The material is washed with water, soap, and then water again. The mordanting properties of the dye can be increased by the addn. of glycerol. For very dark shades (30 g. Para Brown per l. or 20 g. for well-mercerized goods) in indanthrene printing it is recommended that a small amt. (1-2 g.) of anthraquinone be added to the indanthrene. Quantities recommended for mordanting out under Para Brown are: indanthrene dye 20 parts, glycerol 100, NaOH (38°Bé.) 60, and hydrosulfite 45. For reduction by heating: Rongalite 450, soda 60 and anthraquinone 1-2. W. A. Moore

COMMON ELEMENTS

OPEN

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ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

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Ca

25

Vat dyes that do not weaken fibers on isolation. V. A. Blinov. *Tekstil. Prom.* 5, No. 11-12, 47-9(1947).
Dyed specimens of cotton and silk were exposed to the sun for 12 days, directly or under a glass cover. Fibers from the insolated fabrics were then tested for their tensile strength. Cotton exposed under glass lost an av. of 5% of its strength; cotton exposed directly lost an av. of 25%. The corresponding values for silk were 30 and 55-60%. Vat dyes contg. N in a ring which contains also carbonyl groups were least deleterious. Such a dye was flavanthrene. The presence of a triazine ring did not prevent the destructive effect of the dye on the fiber. Condensation products of dicyanodiamide and CH_2O retarded the effect of insolation on undyed specimens, but on vat-dyed specimens their retarding effect was very slight. M. H.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

ca

28

Mordant dyes. V. A. Blinov. U.S.S.R. 66,679, July 31, 1946. 1,5- or ~~1,8-Dihydroxy~~naphthalene is treated at approx. 80° with solns. of $NaHSO_3$ and Na_2S. From the product the dye is sepd. by addn. of a cold, dil. acid. The dye is used for dyeing wool in an aq. suspension. The colors are khaki or reddish brown. M. Hosch

COMMON ELEMENTS

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COMMON VARIABLES INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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2

Prof. N. I. Pionovskii. V. A. Blinov. *Zhur. Prikhlad. Khim.* (J. Applied Chem.) 20, 1216-17(1947).—Homage on his 70th birthday, with portrait. N. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

USSR.

Substantivity of dyes derived from benzanthrone

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

USSR/Chemistry - Textile adjuvants; Surface-active agents FD-3003

Card 1/1 Pub. 50 - 4/17

Author : Blinov, V. A., Cand Tech Sci

Title : Adjuvants in the processes of wetting, washing, scouring, and bleaching of textile products

Periodical : Khim. prom. No 6, 335-344, Sep 1955

Abstract : Describes surface-active agents used in the textile industry, with particular attention to those produced and used in the USSR. Explains the meaning of Russian symbols for compounds of this class. Says that oxyethylated phenols (OP-compounds) are widely used as detergents in the USSR. Discusses the properties and applications of OP-compounds used for other purposes and of their derivatives, of OS-20 (product of reacting octadecyl alcohol with ethylene oxide), sulfuric acid esters, chloramines, etc. Sixteen references; 7 USSR, all since 1940.

Institution : Scientific Institute of Organic Intermediates and Dyestuffs imeni K. Ye. Voroshilov

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

Dyeing with hard-leveling acid dyes
U.S.S.R. 102,360, Mar 25, 1956. When
dyes longogenic levelers are used. The last stage
is done in the presence
the longogens

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

5(3) SOV/63-4-2-36/39

AUTHORS: Blinov, V.A., Krasovitskiy, B.M., Khotinskaya, Ye.Ye.

TITLE: On the Light Resistance of Some Monoazo-Dyes Which are Derivatives of Benzanilide and I-Acid

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 2, pp 285-286 (USSR)

ABSTRACT: The tested azo-dyes were used in dyeing cellophane. The azo-component of the dyes was I-acid. The resistance to light and light-weather was studied in the usual way employed by colorists. All dyes showed considerable resistance to light. In the light-weather test the dyes without substitutes in the benzanilide grouping had the lowest resistance. The dimethylamino-group and the carbethoxy-group increase the resistance. The introduction of a second benzene ring increases also the light resistance of the dye.
There is 1 table and 1 Soviet reference.

Card 1/2

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

SOV/63-4-2-36/39

On the Light Resistance of Some Monoazo-Dyes Which are Derivatives of Benzanilide and I-Acid

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet imeni A.M. Gor'kogo (Khar'kov State University imeni A.M. Gor'kiy)

SUBMITTED: September 15, 1958

Card 2/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

5(3) SOV/80-32-3-35/43

AUTHORS: Dokunikhin, N.C., Kranovitskiy, B.M., Matskevich, P.M., Blinov, V.A., Vitokhina, Z.Ya.

TITLE: Linear Dis-Azo Dyes Which are Derivatives of Oxadiazol and Thiodiazol (Pryamyye disazokrasiteli - proizvodnyye oksadiazola i tiodiazola)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 3, pp 664-667 (USSR)

ABSTRACT: Linear azo dyes containing heterocyclic nuclei connected with the chain by conjugated double bonds are investigated here. The auxochromes are also connected by conjugated double bonds to the chain. An oxadiazol and thiodiazol ring is introduced to the same chain. The dyes prepared are: 2,5-bis-(4-nitrophenyl)-1,3,4-oxadiazol, 2,5-bis-(4-aminophenyl)-1,3,4-oxadiazol, 2,5-bis-(4-nitrophenyl)-1,3,4-thiodiazol, and 2,5-bis-(4-aminophenyl)-1,3,4-thiodiazol. The dyes are resistant to water, soap solution and sweat.

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

SOV/80-32-3-35/43

Linear Dis-Azo Dyes Which are Derivatives of Oxadiazol and Thiodiazol

There are 17 references, 8 of which are Soviet, 6 German, 2 French and 1 Italian.

SUBMITTED: July 26, 1957

Card 2/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

YAGUPOL'SKIY, L.M.; KRASOVITSKIY, B.M.; BLINOV, V.A.; SIDNEVA, K.M.; PEREYASLOVA, D.G.

Properties of some fluorine-containing azo dyes. Zhur.prikl. khim. 33 no.7:389-392 Jl '60. (MIRA 13:7)

1. Institut organicheskoy khimii AN USSR. Khar'kovskiy gosudarstvennyy universitet. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley.
(Azo dyes)

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BLINOV, V.A., kand.tekhn.nauk

Finishing materials based on ethyleneimine derivatives. Tekst. prom. 21 no.7:64-66 Jl '61. (MIRA 14:8)
(Finishes and finishing) (Ethyleneimine)

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KNYAGININA, I.P.; LAPINA, R.A.; BLINOV, V.A.; GUDVILOVICH, I.V.

New "carbozoline" softeners. Tekst.prom.22 no.3:68-69 Mr '62. (MIRA 15:3)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (NIOPiK).
(Textile finishing)

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RUMYANTSEVA, L.P., mladshiy nauchnyy sotrudnik; BLINOV, V.A., starshiy nauchnyy sotrudnik; BELEN'KIY, L.I., prof.

Effect of textile finishes on the soiling of textile materials. Tekst.prom. 22 no.8:64-67 Ag '62. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (for Rumyantseva, Blinov). 2. Vsesoyuznyy zaochnoy institut tekstil'noy i legkoy promyshlennosti (VZITLP) (for Belen'kiy).

(Textile finishing)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520009-8

BLINOV, V.A.; BASOVA, L.V.; ANISHCHUK, Ye.N.; KNYAGININA, I.P.; RUMYANTSEVA, L.P.; PODSHIBYAKINA, K.D.

Emulsion method of dyeing wool, rayon and synthetic fibers. Tekst.prom. 22 no.10:57-60 O '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (NIOPiK) (for Blinov, Basova, Anishchuk, Knyaginina, Rumyantseva). 2. Nachal'nik khimicheskoy laboratorii Kompleksnogo nauchno-issledovatel'skogo instituta legkoy promyshlennosti (KNIILP) Latviyskoy SSR (for Podshibyakina).
(Dyes and dyeing—Textile fibers)

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1. Sotrudniki Nauchno-issledovatel'skogo instituta organicheskikh poluproduktov i krasiteley (NIOPiK).
(Dyes and dyeing--Chemistry)

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