LIKHACHEVA, T.V., inzh.; PRAVDYUK, A.D., inzh.; KUSTOV, A.P., inzh.; PAVLOVSKAYA, K.K., inzh.

Protective and ornamental chromium plating of small parts by pouring. Mashinostroenie no.4:77-81 Jl-Ag '65. (MIRA 18:8)

KUSTOV, A.Ye.; LISKIN, A.Z.; GLOBIN, A.G.

Dedusting industrial spaces and work areas. Metallurg 9 no.3:13-15 Mr '64. (MIRA 17:3)

1. Bakal'skiy aglomeratsionnyy kombinat i Chelyabinskiy nauchno-issledovatel'skiy institut gornogo dela.

KUSTOV, F.V.

Colloidochemical processes in coking coal. Paliva 42 no.9:271-272 S '62.

DUMPE, Vitaliy Eduardovich; KUSTOV, G.D., red.; GOSTISHCHEVA, Ye.M., tekhn. red.

[Electric-spark machining of metals]Elektroiskrovaia obrabotka metallov. Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1962. 53 p. (MIRA 15:11)

(Electric metal cutting)

TERSKIKH, Anatoliy Mikhaylovich; KUSTOV, G.D., red.

[Electronic devices] Elektronnye pribory. Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1963. 166 p. (MIRA 17:6)

1. Rukovoditel' laboratorii avtomatiki Novosibirskoy oblastnoy stantsii yunykh tekhnikov (for Terskikh).

KUSTOV, I., inzhener.

Unsolved problems of dust elimination in cement industries. Stroi. mat. 3 no.3:11-12 Mr '57. (MLRA 10:4)
(Cement industries) (Dust collectors)

AGAFONOV, S.L.; ALEKSEYEVA, A.N.; BELIYUSTINA, L.N.; GOLOV, I.I.; GUSEV, O.V.; DMITRIYEVA, V.I.; YEVLAMPIYEVA, F.A.; YELISEYEV, A.I.; ZHAVORONKOV, N.A.; ZHARKOV, S.A.; KIR'YANOV, I.A.; KRAYNOV, L.A.; KUSTOV, K.L.; LBOV, F.A.; LIPATOV, N.A.; LIPOVETSKIY, I.A.; MALYUGIN, V.N.; MARINOV, N.N.[deceased]; MIKHAYLOV, A.N.; POTAPOVA,Ye.D.; TRUKHMANOV, G.A.; UKHIN, V.A.; FILIPPOV, V.A.; CHEMURASHKIN, A.M.; SHKOTOV, A.T.; GARANINA, L.F., kand. fil. nauk

[The city of Gorkiy; a guidebook] Gorod Gor'kii, Volgo-Viatskoe knizhnoe izd-vo, 1964. 374 p. (MIRA 17:12)

SOV/177-58-5-17/30

17(

AUTHOR: Kustov, L.A., Captain of the Medical Corps

TITLE: The Role of Hygienic Gymnastics in the Complex Treatment of Patients Suffering From Chronic Gastritis in Sanitaria of Health Resorts (Rol' lechebnoy gimnastiki v kompleksnom sanatorno-kurortnom lechenii bol'nykh khronicheskim gastritom)

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 5, pp 70 - 74 (USSR)

ABSTRACT: At the Yessentukskiy sanatoriy (Yessentuki Sanatorium) a set of physical exercises has been compiled for patients suffering from chronic gastritis with secretory insufficiency. Taking into consideration that chronic gastritis is frequently accompanied by a lowered tonus of the stomach, laxation of the motorial function of the gastrointestinal tract, and laxation of the entire organism, the physical exercises have been divided into three groups: 1) exer-

Card 1/2

The Role of Hygienic Gymnastics in the Complex Treatment of Patients Suffering From Chronic Gastritis in Sanitaria of Health Resorts

cises with a gymnastic stick; 2) exercises at the gymnastic wall; 3) exercises in bed. Good results were noted in all groups. There are 4 tables.

KUSTOV, L. I.

Razvitie putevykh rabot na Volge. [The development of construction works on the Volga.]. Moskva, Rechizdat, 1947, 47 p., illus.

SO: SOVIET TRANSPORTATION AND COMMUNICATION, A BIBLIOGRAPHY, Library of Congress, Reference Department, Washington, 1952, Unclassified.

KUSTOV, L. I.

KUSTOV, L. I. "Dredging of the Volga and measures of its improvement." In the symposium: Materialy tekhn. soveshchaniy po putevym robotam (M-vo rech. flota SSSR). Moscow, 1949, p. 126-128

SO: U-5240, 17Dec53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

VLADIMIROV, Nikolay Petrovich, inzh.; CHENTSOV, Konstantin Petrovich, inzh.; GOLOVUSHKIN, M.P., inzh., retsenzent; BELOGLAZOV, V.I., retsenzent; KUSTOV, L.I., prof., red.; MAKRUSHINA, A.N., red.izd-va; RIDNAYA, I.V., tekhn.red.

[General sailing directions for inland waterways] Obshchaia lotsiia vnutrennikh vodnykh putei. Moskva, Izd-vo "Rechnoi transport," 1963. 270 p. (MIRA 17:3)

GUREVICH, A.M., dots., kand. ekon. nauk; KUSTOV, L.I., prof., otv. red.

[Water ways and transportation economy; lecture in the course on the "Economics of water transportation" for students of all specialities] Vodnye puti i putevoe khoziaistvo; lektsiia po kursu "Ekonomika vodnogo transporta" dlia studentov vsekh spetsial'nostei. Gor'kii, 1962. 21 p. (MIRA 17:12)

1. Gosrki. Institut inzhenerov vodnogo transporta. Kafedra ekonomiki i kommercheskoy ekspluatatsii.

CHEKRENEV, Aleksey Ivanovich; [illegible], Kirill Vladimirovich; et al.
KUTOV, L.I., prof., retsenzent; ZEZKOV, S.A., [illegible]
LEZHOV, P.A., red.; MARKUSHINA, A.N., red.

[Waterways] Vodnye puti. Moskva, Transport, [illegible]
319 p. (MIRA 18:7)

PAKHOMOV, V.B., kand. tekhn. nauk; NAUMOV, A.I., inzh.; SHELMANOV, V.S., inzh.; KONSTANTINOV, V.P., inzh.; KOSTIN, A.M., inzh.; SEMENOV, YU.K., inzh.; PYATLIN, A.A., kapitan; VAGANOV, G.I., kand. tekhn. nauk; SVIRIDOV, A.A., inzh. KHODUNOV, M.Ye., kand. yurid. nauk; SAPOGOVA, A.Ye., inzh.; SOYUZOV, A.A., doktor tekhn. nauk, prof., red.; VASIL'YEV, A.V., kand. tekhn. nauk; ALEKSEYEV, V.I., red.; KUSTOV, L.I., red.; VITSINSKIY, V.V., red.; BORISOV, I.G., red.; SOLAREV, N.F., red.; ANDRIYENKO, V.I., red.; SUTYRIN, N.A., red.; GOLOVNIKOV, V.I., red.; ZOTOVA, V.V., red.

[Manual for the navigator of a river fleet] Spravochnik sudovoditelia rechnogo flota. Izd.2., dop. Moskva, Transport, 1965. 423 p. (MIRA 18:2)

1. Gor'kovskiy institut inzhenerov vodnogo transporta (for Pakhomov, Semenov, Vaganov, Vasil'yev). 2. Moskovskiy rechnoy tekhnikum (for Naumov). 3. Volzhskoye ob"yedinennoye rechnoye parokhodstvo (for Shelmanov, Sapogova). 4. Ministerstvo rechnogo flota (for Konstantinov, Sviridov). 5. Kazanskiy port (for Kostin). 6. Moskovskoye rechnoye parokhodstvo (for Pyatlin).

ACC NR: AR6028510 (N) SOURCE CODE: UR/0398/66/000/005/V006/V006

AUTHOR: Kustov, L. I.

TITLE: Basic terms and definitions for piloting on internal waterways

SOURCE: Ref. zh. Vodnyy transport, Abs. 5V31K

REF SOURCE: Tr. Gor'kovsk. in-ta inzh. vodn. transp., vyp. 67, 1966, 35 str.

TOPIC TAGS: waterway engineering, hydraulic engineering, hydrology, meteorology, ship navigation, navigation aid, handbook

ABSTRACT: The book contains special terms required in piloting on rivers, canals, lakes and reservoirs, and includes a number of terms in the field of general hydrology, waterways, hydraulic engineering, meteorology, and other related disciplines. The book contains pictures and is planned for a wide circle of practical workers in the river fleet and for students in the departments in the MRF [Ministry of the River Fleet] institutes for water transportation engineers. [Translation of abstract]

SUB CODE: 17

Card 1/1 UDC: 034:627.9

YERFMENKO, L.I.; KOLESOV, Yu.R.; KUSTOVA, L.V.

Calorimetric unit for investigating the kinetics of rapid chemical reactions in aggressive media. Zhur. fiz. khim. 38 no.9:2323-2327 S '64. (MIRA 17:12)

1. Institut khimicheskoy fiziki AN SSSR.

Kustov M.

USSR/ Miscellaneous - Radio broadcasts

Card 1/1 Pub. 89 - 9/27

Authors : Kustov, M.

Title : To improve the radio broadcasting technique

Periodical : Radio 8, 17-18, Aug 1955

Abstract : The problems brought up in a letter by a reader of the periodical Radio pertain to further improvement of the radio broadcasting technique. The writer who represents a larger group of radio listeners appeals to the Ministry of Education and to the Ministry of Communications Industry for their scientific aid in improving the broadcasting technique.

Institution : .....

Submitted : .....

KUSTOV, N.D.

Specialization of the factories belonging to the Moscow Province Textile Industry trust. Tekst.prom. 16 no.6:59 Je '56. (MLRA 9:8)
(Moscow Province--Textile industry)

KUSTOV, Nikolay Dmitriyevich; KUDRYAVTSEV, D.S., retsenzent; SHUSTOVA, I.B., redaktor; DMITRIYEVA, N.I., tekhnicheskiy redaktor

[Manufacturing terry cloth] Proizvodstvo makhrovykh tkanei. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po legkoi promyshl., 1957. 121 p. (Textile fabrics) (MIRA 10:11)

KUSTOV, N.D.

Mechanizing the production of satin comfort blankets. Tekst. prom. 17 no.5:51-52 My '57. (MLRA 10:6)

1. Glavnyy inzhener tresta "Mosobltekstil'prom".
(Coverlets) (Textile machinery)

DENISOVA, N.N.; KUSTOV, N.D.

Utilization of internal potentialities in spinning. Tekst. prom. 19 no.6:92-93 Je '59. (MIRA 12:9)
(Spinning)

[illegible], gornyy inzh.

Using permafrost for mining engineering [illegible]. Gor. zhur. no.2:71 F '65. [illegible]

1. Kul'tinskiy gornorudnyy kombinat, Magadanskaya oblast'.

DEYCH, M.Ye., doktor tekhn. nauk, prof.; FILIPPOV, G.A., kand. tekhn. nauk; BARANOV, V.A., kand. tekhn. nauk; PRYAKHIN, V.V., inzh.; KUSTOV, O.P., inzh.

Effect of humidity on the efficiency of a bandaged and nonbandaged turbine stage. Energomashinostroenie 10 no.8:21-26 Ag '64. (MIRA 17:11)

[illegible] tekst. [illegible]

Effect of the moisture [illegible] on the efficiency of a turbine stage of moisture on wet steam. Teploenergetika 12 no.2:[illegible] F '65. (MIRA 18:3)

1. Moskovskiy energeticheskiy institut.

31(5) PHASE I BOOK EXPLOITATION SOV/1635

Kustov, Pavel Andreyevich

Ispytaniya sudovykh parosilovykh turbinnykh ustanovok (Testing Marine Steam Turbine Power Plants) Leningrad, Sudpromgiz, 1958. 227 p. 4,000 copies printed.

Ed.: Ye.N. Shaurak; Scientific Ed.: A.F. Ivanov; Tech. Ed.: L.M. Shishkova.

PURPOSE: This book may be used as a manual by engineering and technical personnel during acceptance testing of steam-turbine power plants and the testing of ships to determine operational data.

COVERAGE: The book discusses preparation for and methods of testing marine steam-turbine power plants and methods for working-out the data obtained during tests. Brief theoretical information and formulas needed for tests are presented. Instruments for measuring and controlling progress during the

Card 1/4

testing of marine steam-turbine power plants are described. No personalities are mentioned. There are 37 references, all Soviet.

TABLE OF CONTENTS:

1. [illegible], ..

2. [illegible] (600)

4. Construction Industry - Finance

7. Returned sums in construction estimates, Fin. i kred. [illegible] No. 1, 1953.

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

KUSTOV, S., upravlyayushchiy.

Mechanization of apartment house laundry rooms. Zhil.-kom.khoz. vol.3 no.9: 23-24 S '53. (MLRA 6:9)

1. Domoupravleniye No.18 Kuybyshevskogo rayona Leningrada. (Laundry)

KUSTOV, S.

Against formalism and unnecessary operations in the control work of communal banks. Fin. SSSR 16 no.10:41-44 O '55. (MLRA 9:2)

1. Upravlyayushchiy Kiyevskim oblastnym kommunal'nym bankom.
(Banks and banking)

KUSTOV, S.

Comments of the head of a district soviet budget commission. Fin. SSSR 19 no.11:54-56 N '58. (MIRA 12:7)
(Kiev—Budget)

KUSTOV, S.

Financing and issuing long-term credit for construction and capital repair. Den.i kred. 18 no.2:64-65 F '60. (MIRA 13:1)
(Kiev--Construction industry--Finance)

KUSTOV, S.;GNEDIN, I.; VEDERNIKOV, K.

Use funds for capital repairs more efficiently. Den. i kred. 18 no.12:47-51 D'60. (MIRA 13:11)

1. Zamestitel' upravlyayuschego Kiyevskoy oblastnoy kontoroy Gosbanka.(for Kustov). 2. Rukovoditel' kreditnoy gruppy Ikryaninskogo otdeleniya Gosbanka Astrakhanskoy oblasti (for Gnedin). 3. Nachal'nik proizvodstvenno-ekspluatatsionnogo otdela Gomel'skoy kontory Gosbanka (for Vedernikov).
(Banks and banking) (Construction industry--Finance)

KUSTOV, S.

Karavaevo is under construction. Sel'. stroi. 16 no.12:5-6 D '61.
(MIRA 15:2)

1. Prorektor sel'skokhozyaystvennogo instituta "Karavayevo."
(Kostroma Province--Construction industry)

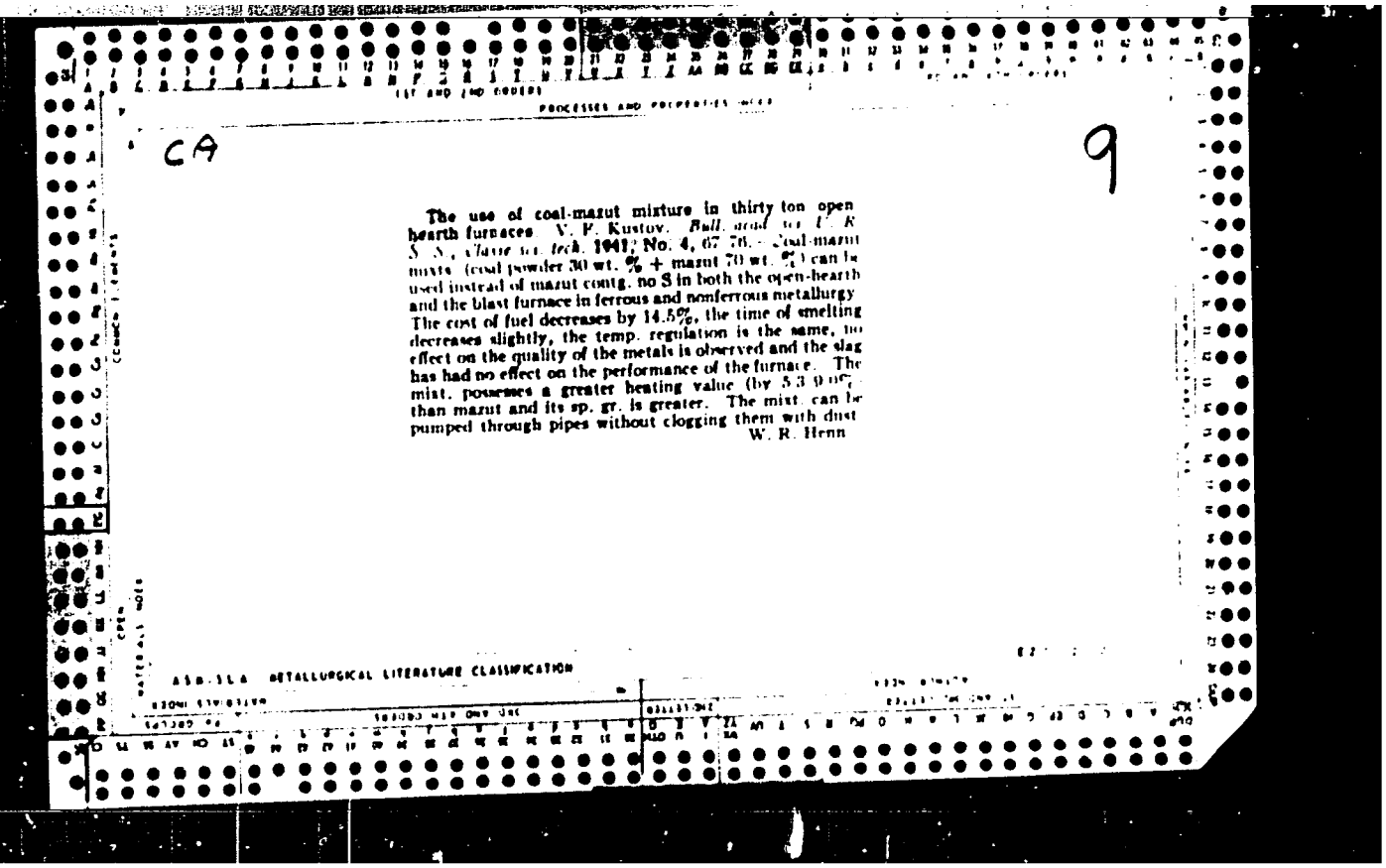
KUSTOV, V.; UL'ZUTUYEV, A.; ULIN, I.I., red.; LEVINA, L.G., tekhn. red.

[Khanda Batomunkueva, a collective farm shepherd] Khanda Batomunkueva.- kolkhoznyi chaban. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1960. 23 p. (MIRA 14:9)
(Aga Buryat National Area—Sheep)

Viscosity of mazut coal suspensions. V. I. Kustov and I. I. Khotuntsev (Disperse Fuel Lab., Energetics Inst., Acad. Sci. U.S.S.R.). *Akad. Nauk S.S.S.R., Otdel. Tekh. Nauk, Inst. Mashinovedeniya, Soveshchanie Vyazkosti Zhidkostei i Kolloid. Rastvorov* (*Conf. on Viscosity of Liquids and Colloidal Solns.*) 1, 105-13(1941). Samples included suspensions in commercial mazuts of charcoal, grain size 45 and 75 μ, solid phase content 10%, 15%, and 20%, and of coal powder, grain size 44, 74, and 100 μ (resp., 325, 200, and 150 mesh), solid content 20%, 30%, 40%, and 50%. Measurements were made in a horizontal capillary viscometer, between two 100-cc. reservoirs, under pressures up to 100 cm. Hg. Level readings had to be made with the aid of a spherical cock that chan [illegible] mm.), carrying a steel ring; length of capillary 100 cm., diam. 0.8, 0.4 cm. Laminarity of the flow was confirmed.

From plots of the viscosity η against the pressure it was ascertained that the limiting shearing stress is practically zero and can be disregarded. With 30%, coal suspensions, η drops sharply with rising temp., from 20° to 80°, where the curves for various samples seem to converge. The shape of the η-temp. curve is determined primarily by that of the oil used. Charcoal suspensions show, below 80°, higher η than suspensions of coal of equal content (20%). This is ascribed to higher adsorption capacity and resulting immobilization of larger amts. of the liquid medium. The effect of this factor diminishes with rising temp. and disappears at about 80°. For both coal and charcoal suspensions, η rises sharply with increasing content of solid phase, e.g., coal 20%, 30%, 40%, η = resp., 4.6, 9.1, 6.8 poises, at 40°. At ordinary temp. the suspensions lose their fluidity at about 50% solid phase. The effect of grain size is slight, e.g., 20% charcoal suspension at 40°, grains, resp., 44, 74, 100 μ, η = resp., 8.31, 8.00, 8.90 poises. Results obtained in glass and in steel tubes do not differ materially; hence the slippage effect is small, particularly above 50°. Homogenization of the suspensions by repeated passing through a colloidal mill, without change of grain size, results in markedly lower η. This is due only to a higher degree of homogeneity, not to higher dispersity. N. Thon

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION



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The use of coal-mazut mixture in thirty ton open hearth furnaces. V. P. Kustov. *Bull. acad. sci. U. S. S. R., Classe sci. tech.* 1941, No. 4, 67-76.—Coal-mazut mixts. (coal powder 30 wt. % + mazut 70 wt. %) can be used instead of mazut contg. no S in both the open-hearth and the blast furnace in ferrous and nonferrous metallurgy. The cost of fuel decreases by 14.5%, the time of smelting decreases slightly, the temp. regulation is the same, no effect on the quality of the metals is observed and the slag has had no effect on the performance of the furnace. The mixt. possesses a greater heating value (by 5.3-9.0%) than mazut and its sp. gr. is greater. The mixt. can be pumped through pipes without clogging them with dust.

W. R. Henn

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

KULAVISHNIKOV, V. N., KUSTOV, V.F.

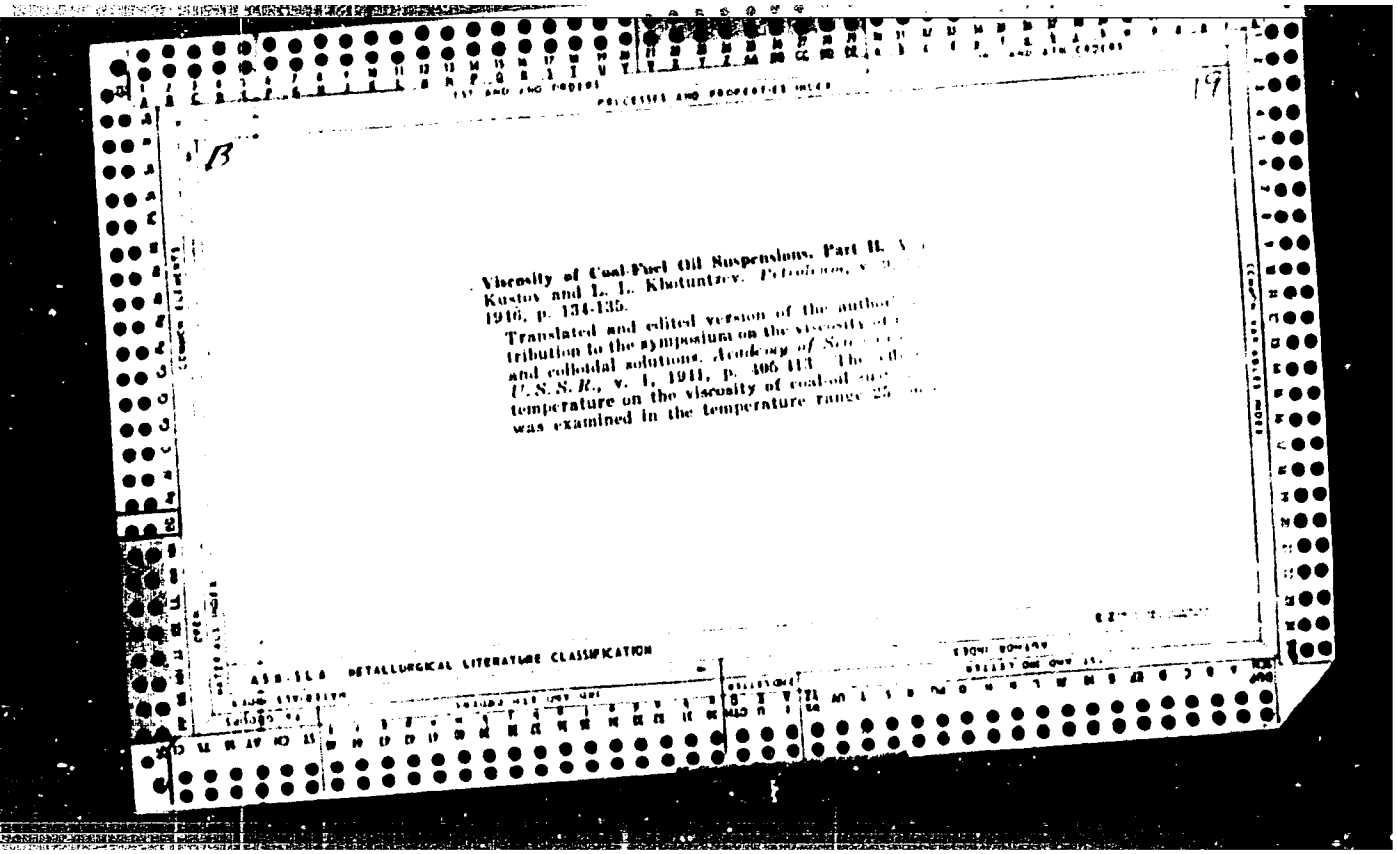
"Combustion of a Mixture of Sulfite Alkali with Coal Dust," I. Ak. Nauk SSSR, Otdel. Tekh. Nauk, No. 6, 1951. Submitted 21 Dec 1950.

Report U-1930, 25 Oct 1951

KUSTOV, V. F.

Colloidal fuel.
Moskva, 1942. 182 p. (49-31041)

TP360.K8



Viscosity of Coal-Fuel Oil Suspensions, Part II. [illegible]
Kustov and L. L. Khutuntzev. *Petroleum*, [illegible]
1916, p. 134-135.

Translated and edited version of the author's [illegible] contribution to the symposium on the viscosity of [illegible] and colloidal solutions. *Academy of Sciences of the U.S.S.R.*, v. 1, 1941, p. 406-413. The effect of temperature on the viscosity of coal-oil [illegible] was examined in the temperature range 25 [illegible]

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

Kustov, V.F. 63-3-6/23

AUTHOR: Kustov, V.F., Doctor of Technical Sciences.

TITLE: Coking of Coals as a Colloido-Chemical Process. (Koksovaniye ugley kak kolloidnokhimicheskiy protsess).

PERIODICAL: Koks i Khimiya, 1957, No.8, pp.18-20 (USSR)

ABSTRACT: Coking of coal is considered as a colloido-chemical process taking place in the following stages: 1) up to about 300° C the removal of volatile substances from coal (H_2O, CO_2, CO, light hydrocarbons); 2) the formation of a dispersion medium (up to 450° C); 3) the adsorption of the dispersion medium by macro-molecular compounds of coal and swelling of gel; 4) the cracking of the colloidal gel and its synerosis and 5) the formation of a xerogel and its pyrolysis with the formation of coke. There are 4 references including 3 Slavic.

ASSOCIATION: Leningrad Technological Institute im. Lensovet. (Leningradskiy Tekhnologicheskiy Institut im. Lensoveta).

AVAILABLE: Library of Congress

Card 1/1

Kustov V F

AUTHOR: Kustov, V.F., Professor 26-58-24/56

TITLE: Water-Fuel Suspensions (Vodnotoplivnyye suspenzii)

PERIODICAL: Priroda, 1958, Nr 6, p 91-92 (USSR)

ABSTRACT: The article deals with the combustion (to gases for utilization in the chemical industry) of suspensions and emulsions consisting of water with solid or liquid fuel particles suspended in it. The Institut goryuchikh iskopayemykh AN SSSR (Institute of Combustible Minerals, AS USSR) has been conducting extensive research on emulsions containing resins or mazut with large quantities of water. For such emulsions, which have to be completely homogeneous, a Khotuntsev-Pushkin disperser was used. Such emulsions can be burnt in furnaces as well as in combustion motors. The author points out the prospects of burning water-fuel suspensions to eliminate waste waters. Sulfite liquor, for example, originating from cellulose mills, can be easily burnt when sufficient coal dust is added. Numerous examples are mentioned, covering similar experiments recently made in foreign countries.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Institute of Technology imeni Lensovet)

Card 1/1 1. Emulsions--Properties 2. Water fuel--Suspensions

KUSTOV, V.F.

Coal carbonization as a colloidal and chemical process. Trudy LTI no.51:5-9 '59. (MIRA 13:8)
(Coal--Carbonization)
(Fuel, Colloidal)

KUSTOV, V.F.

Water fuel suspensions. Trudy LTI no.51:10-13 '59.
(MIRA 13:8)

(Sewage disposal)
(Combustion)

KUSTOV, V.F., KOKURIN, A.D., PISENKO, N.I.

Production of synthesis gas from water fuel suspensions. Trudy LTI no.51:14-18 '59. (MIRA 13:8)
(Coal gasification)

KUSTOV, V.F.

Theory of scale formation as a result of an incomplete combustion of fuels, and the use of antiscale powders. Trudy LTI no.51:19-25 '59. (MIRA 13:8)
(Coal gasification)

SHILKIN, P.M.; ZEL'VYANSKIY, Ya.A.; SIBAKOV, Yu.G.; KUSTOV, V.M.; TSYKHMAN. A.I.; KUVSHINOV, M.I.; SHIPAREV, Yu.A.; TYURNIN, G.A.; AVSTREYKH, L.D.; BAKANOV, N.N.; KHITROV, P.A., tekhn. red.

[Safety engineering regulations for operating the contact networks of d.c. electrified railroads]Pravila tekhniki bezopasnosti pri ekspluatatsii kontaktnoi seti postoiannogo toka elektrifitsirovannykh zheleznykh dorog. Moskva, 1962. 128 p. (MIRA 15:7)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye elektrifikatsii i energeticheskogo khozyaystva. 2. Zamestitel' nachal'nika tekhnicheskogo otdela TsE Ministerstva putey soobshcheniya (for Shilkin). 3. Technicheskiy otdel TsE Ministerstva putey soobshcheniya (for Zel'vyanskiy). 4. Tsentral'nyy komitet profsoyuza rabochikh zheleznodorozhnogo transporta (for Sibarov). 5. Nauchno-tekhnicheskiy sovet Ministerstva putey soobshcheniya (for Kustov). 6. Sluzhba elektrifikatsii i energeticheskogo khozyaystva Odesskoy zheleznoy dorogi (for TSykhman). 7. ECh Yuzhno-Ural'skoy zeleznoy dorogi (for Kuvshinov). 8. ECh Moskovskoy zheleznoy dorogi (for Segala, Shiparev, Tyurnin). 9. EChK Oktyabr'skoy zheleznoy dorogi (for Avstreykh). EChK Moskovskoy zheleznoy dorogi (for Bakanov). (Electric railroads—Safety regulations)

KUSTOV, V.M., inzh.; TIMOFEYEV, V.P., inzh.

Electric lines along the trackside for power supply to track mechanisms. Put' i put.khoz. 6 no.3:6-9 Mr '62. (MIRA 15:3)
(Railroads---Electric equipment)

KHLOPKOV, M.V., inzh.; KUSTOV, V.M., inzh.

Control of the icing of the overhead contact system.
Zhel.dor.transp. 46 no.12:66-70 D '64.
(MIRA 19:1)

PRUSAKOV, M.B., inzh.; KUSTOV, V.M., inzh.; BARANOV, L.A., inzh.; LUK'YANOV, S.I., inzh.; FROLOV, V.S., inzh., retsenzent; USENKO, L.A., tekhn. red.

[Operation and repair of the equipment of d.c. traction substations] [kspluatatsiia i remont oborudovaniia tiagovykh podstantsii postoiannogo toka. [By]M.B.Prusakov i dr. Moskva, Transzheldorizdat, 1963. 211 p. (MIRA 16:5)
(Electric railroads--Substations)

ZEL'VYANSKIY, Yakov Aronovich; KUSIOV, Valeriy Mikhaylovich; SHILKIN, Petr Mikhaylovich; KUCHKO, E.A., red.

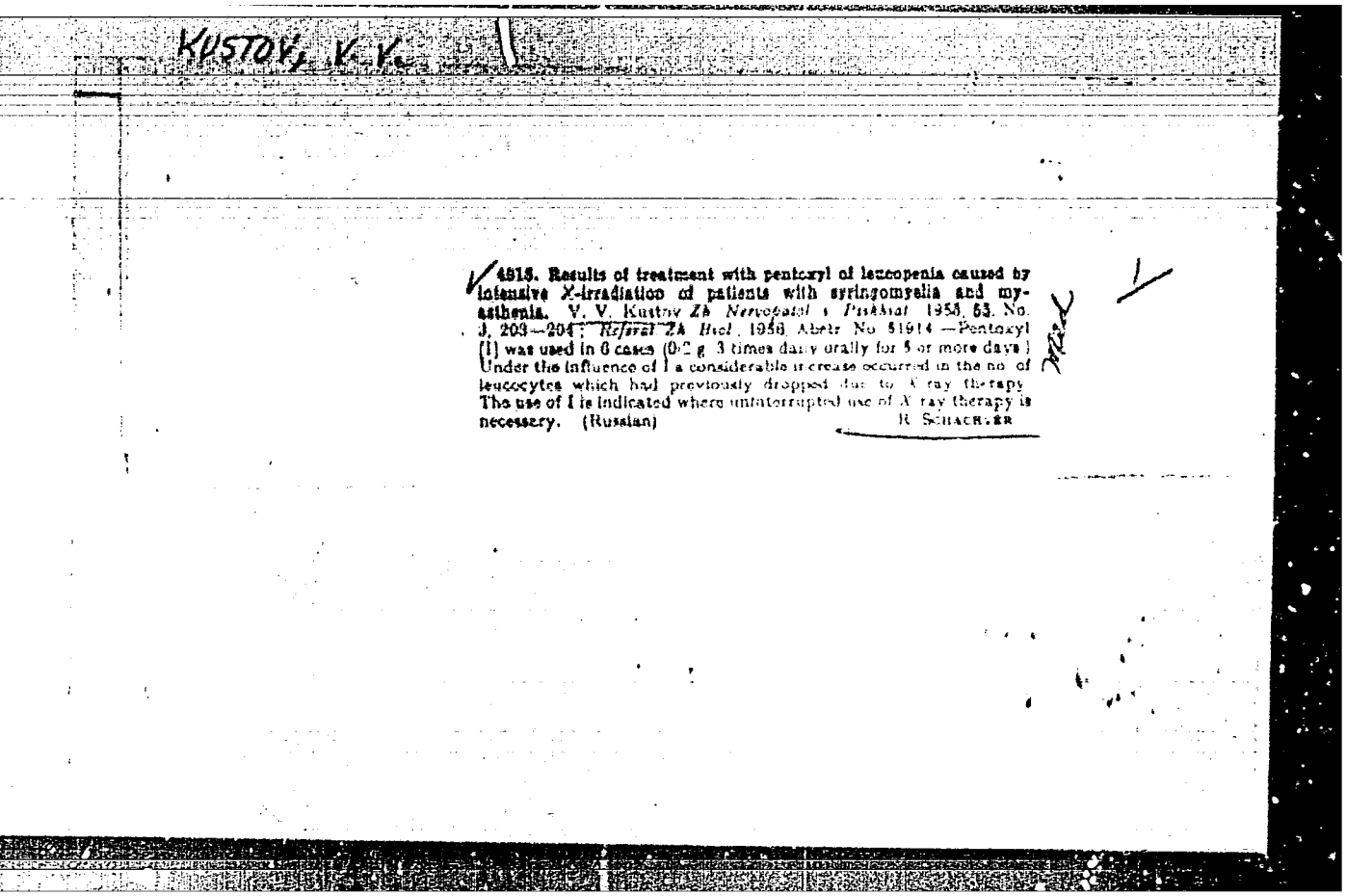
[Safety techniques in contact network operation] Tekhnika bezopasnosti pri ekspluatatsii kontaktnoi seti. Moskva, Transport, 1965. 191 p. (MIRA 18:12)

RADCHENKO, G.A.; KUSTOV, V.N.; MAYLYBAYEV, E.A.

Aerodynamic characteristics of currents in stope ventilation as applied to new ore mining techniques at the Dzhezkazgan Mine. Trudy Inst. gor. dela AN Kazakh. SSR 6:166-182 '60. (MIRA 13:12)
(Dzhezkagan region--Stoping (Mining))
(Mine ventilation)

POZNYAK, I.Ya.; KUSTOV, V.N.

Studying the mechanism of the slinger type feeder. Trudy MIKhM 24:111-120 '62. (MIRA 18:3)



KUSTOV, V. V.

4815. Results of treatment with pentoxyl of leucopenia caused by intensive X-irradiation of patients with syringomyelia and myasthenia. V. V. Kustov *Zh Nevropatol i Psikhiat* 1958, 58, No. 3, 203—204; *Referat Zh Biol* 1958, Abstr No 51914.—Pentoxyl [I] was used in 6 cases (0·2 g 3 times daily orally for 5 or more days) Under the influence of I a considerable increase occurred in the no of leucocytes which had previously dropped due to X ray therapy The use of I is indicated where uninterrupted use of X ray therapy is necessary. (Russian)

R. SCHACHER

KUSTOV, V.V.

Pharmacology of 2,6-dioxypyrimidine (uracil) [with summary in English]. Farm. i toks. 21 no.5:56-59 S-O '58 (MIRA 11:11)

1. Kafedra farmakologii (nachal'nik - zasluzhennyy deyatel' nauki prof. N. V. Lazarev) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.
(URACIL,
pharmacol. (Rus))

KUSTOV, V.V.

Effect of pentoxyl on the nervous system. Farm.i toks. 22 no.5: 387-391 S-O '59. (MIRA 13:3)

1. Kafedra farmakologii Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova (zaveduyushchiy - zasluzhennyy deyatel' nauki prof. N.V. Lazarev).

(NERVOUS SYSTEM pharmacol.)
(URACIL rel.cpds.)

KUSTOV, V.V.; DENISENKO, A.A.; SHEMYAKIN, O.S.

Toxicology of triethylamine. Farm.i toks. 23 no.2:174-177 Mr-Ap '60. (MIRA 14:3)

(ETHYLAMINE—TOXICOLOGY)

KUSTOV, V.V., kand.med.nauk; TIUNOV, L.A., kand.med.nauk (Leningrad)

Analysis of the atmosphere containing various toxic mixtures.
Gig.i san. 25 no.7:92-93 Jl '60. (MIRA 14:5)
(AIR—POLLUTION)

KUSTOV, V.V.; GOFMAN, I.A.; IVANOVA, F.A.

Endogenous formation of carbon monoxide. Radiobiologiia 1 no.2: 187-192 '61. (MIRA 14:7)

1. Voyenno-meditsinskaya ordena Lenina Akademiya imeni S.M.Kirova, Leningrad.

(X RAYS--PHYSIOLOGICAL EFFECT)
(CARBON MONOXIDE)

KUSTOV, V.V.

Toxicology of sulfuric acid aerosols. Farm.i toks. 24 no.1:108-109 Ja-F '61. (MIRA 14:5)

(SULFURIC ACID—TOXICOLOGY)

41724

S/241/62/000/003/002/004
I021/I215

AUTHOR: Kustov, V.V., Leningrad

TITLE: The mechanism of endogenous formation of carbon monoxide in acute serum sickness

PERIODICAL: Meditsinskaya Radiologiya, no. 3, 1962, 28-31

TEXT: This is a continuation of a previous study. It was attempted to prevent the accumulation of CO in blood of rabbits with radiation sickness as well as in vitro experiments on irradiated blood. The addition of 0.1 and 0.001M of triethylene-tetramine (TETA) Fe^{++}, 10^{-3} M/L to X-irradiated blood (5000r) resulted in a decrease in COH, (about one half of the control) CO was practically absent in rabbits irradiated with 850r and injected

Card 1/2

The mechanism of....

intravenously with 0.7 ml/Kg b.w. TETA. Fe^{++} (0.5 M) on the 5th, 6th, 7th, 8th and 9th day after irradiation. The author concludes that the endogenous formation of CO in acute radiation sickness is increased due to increased oxidation of hemoglobin by organic peroxides and H_2O_2. There are 3 tables.

SUBMITTED: January 23, 1961

Card 2/2

KUSTOV, V.V.

Effect of a preliminary irradiation with X rays on the resistance of animals to carbon monoxide. Farm. i toks. 25 no.2:232-237 Mr-Ap '62. (MIRA 15:6)

(CARBON MONOXIDE—PHYSIOLOGICAL EFFECT)
(X RAYS—PHYSIOLOGICAL EFFECT)

KUSTOV, V.V.

Effect of carbon monoxide on the course and results of acute radiation sickness. Radiobiologiia 3 no.1:53-58 '63.

(MIRA 16:2)

(RADIATION SICKNESS) (CARBON MONOXIDE—PHYSIOLOGICAL EFFECT)

ACCESSION NR: AT4037690 S/2865/64/003/000/0204/0209

AUTHOR: Korotayev, M. M.; Kustov, V.V.; Meleshko, G. I.; Poddubnaya, L. T.; Shepelev, Ye. Ya.

TITLE: Toxic gaseous substances liberated by chlorella

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy* kosmicheskoy biologii, v. 3, 1964, 204-209

TOPIC TAGS: algae, respiration, toxicology, photosynthesis, carbon monoxide, closed ecological system, manned space flight, air purification

ABSTRACT: The liberation of toxic gaseous substances in the process of vital photosynthetic activity of Chlorella pyrenoidosa S-39 was studied in six experiments lasting 2 to 12 days and in eight experiments lasting 7 to 26 hr. It has been established that during cultivation of Chlorella the air of the system accumulates carbon monoxide, nitrogen oxides, hydrocarbons, and, perhaps, methane. Carbon monoxide concentration in different experiments ranged from 0.003 to 0.09 mg/l. In most cases the amounts of carbon monoxide produced exceeded permissible limits. The content of nitrogen oxides in the same system ranged from 0.0006 to

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ACCESSION NR: AT4037690

0.012 mg/l and that of hydrocarbons from 0.0033 to 0.061 mg/l. The production of carbon monoxide in the algae culture is apparently due to the oxidative breakdown of the tetrapyrrol radical of the chlorophyll molecule. To develop systems of purification of regenerated air by biological means, further study of the mechanisms of formation and dynamics of accumulation of toxic substances during prolonged and continuous cultivation of algae in a closed system will be required.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: PH, LS

NO REF SOV: 003 OTHER: 008

Card 2/2

L 14272-66 EWT(l)/FS(v)-3 SCTB DD/RD

ACC NR: AT6003837 SOURCE CODE: UR/2865/65/004/000/0027/0030

AUTHOR: Georgiyevskiy, V. S.; Kakurin, L. I.; Kalinina, A. N.; Katkovskiy, B. S.; Kuatov, V. V.; Mikhaylov, V. I.; Pilipyuk, Z. I.; Tokarev, Yu. N.

ORG: none

TITLE: Effects of eight-hour isolation and hypokinesia on several physiological and biochemical indices in man

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 27-30

TOPIC TAGS: isolation test, hypokinesia, test chamber, respiration, human physiology, biochemistry, man, EKG, blood pressure, blood circulation, physiologic parameter

ABSTRACT: A study was performed in order to determine the effects of short-term isolation and hypokinesia on the basic physiological and biochemical indices of man. Ten young men, 21—24 years of age, were kept for 8 hours in a sitting position in a hermetically sealed chamber with forced ventilation of atmospheric air. The oxygen content was 20—21%, and the CO_2 content was 0.01—0.03%. The temperature varied between 20—22° C and the relative humidy between 50—60%. The parameters measured included the

Card 1/3

standard EKG, pulse frequency, arterial blood pressure, stroke and minute volumes of blood circulation, peripheral resistance, and the cardiac index. In addition, the frequency, depth, and per minute volume of respiration were measured, along with oxygen consumption, the coefficient of oxygen utilization, the amount of oxygen consumed from 1 liter of air, the vital capacity of the lungs, and certain other indices.

After 8 hours of isolation and hypokinesia, the majority of the subjects showed a diminution in pulse frequency (16%), an insignificant increase in stroke volume (11%), a diminution in per minute volume, and an increase in peripheral circulatory resistance (23%). Except for a slight tendency to bradycardia, the EKG did not show any deviations. Although changes in the respiratory functions were varied, they did not exceed limits of normal physiological-variation, except for a tendency toward retardation of forced exhalation of air of about 0.5 sec. After physical exercise, oxygen debt in most of the subjects was cancelled somewhat sooner, while ventilation debt was cancelled more slowly. Energy expenditures required by physical exercise dropped after the experiment at the expense of a diminution in oxygen debt. The number of errors in psychological (intelligence) tests

L 14272-66

ACC NR: AT6003837

tended to increase toward the end of the experiment, indicating a certain degree of inertia in nervous processes. The amount of carboxyhemoglobin in the blood diminished from 1.48 ± 0.48 to 0.51 ± 0.26 after the experiment and, the catalyzing activity of the blood increased. Both of these changes were statistically significant. The cholinesterase activity of the blood serum diminished by 8.8%. No significant changes were noted in the urea content of the blood. At the same time, the amount of ammonia and urea in urine tended to diminish. In general, 8 hours of isolation and hypokinesia did not lead to any substantial functional shift in the human organism. Orig. art. has: 3 tables. [ATD PRESS: 4091-F]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 002

Card 3/3

L 14266-66 EWT(1)/FS(v)-3 SCTB DD/RD

ACC NR: AT6003842 SOURCE CODE: UR/2865/65/004/000/0075/0079

AUTHOR: Kustov, V. V.; Mikhaylov, V. I.; Pilipyuk, Z. I.; Tokarev, Yu. N.; Georgiyevskiy, V. S.; Katkovskiy, B. S.; Kalinina, A. N.

43
B+1

ORG: none

TITLE: Changes in several physiological and biochemical indices in man after exposure to small concentrations of carbon monoxide

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 75-79

TOPIC TAGS: carbon monoxide, respiration, human physiology, test chamber, man, biochemistry, blood, central nervous system

ABSTRACT: Experiments were performed on young adult men in order to test the effects of carbon monoxide on certain biochemical indices. Each subject participated in an eight-hr background experiment (effect of hermetization) and an eight-hr experiment on the effects of carbon monoxide. A carbon monoxide concentration corresponds to the concentration of carbon monoxide exhaled by humans. The CO_2 concentration in the chamber did not exceed 0.6%, the air temperature was 18—22° C, the relative humid-

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L 14266-66

ACC NR: AT6003842

ity was 50—60%. The catalyzing activity of the blood, the activity of cholinesterase in blood serum, and the carboxyhemoglobin content of blood were measured in all subjects before and after the experiment. In addition standard EKG, blood pressure, oxygen consumption, and oxygen utilization were also measured. The subjects were also given mathematical problems to solve.

After an exposure of six to seven hours, the subjects manifested certain functional shifts in the cardiovascular system and external respiration, and also an increase in errors in test performance. The P, R, and T points of the EKG showed a drop in voltage. The QRS complex tended to expand (sometimes accompanied by an increased heart rate). The number of errors in all arithmetic tests showed a substantial increase.

After an eight-hr exposure to carbon monoxide, the carboxyhemoglobin content of the blood increased from 0.66 ± 0.056% to 1.58 ± 0.43%. This was accompanied by a statistically significant increase in the cholinesterase activity of the blood serum. The catalyzing activity of the blood did not change.

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L 14266-66

ACC NR: AT6003842

An analysis of the data obtained makes it possible to assume that the minute physiological shifts observed in man after exposure to carbon monoxide cannot be explained as simply the result of carbon monoxide hypoxemia, since the carboxyhemoglobin contant of the blood did not exceed 1.58%. It is felt that these changes are due to the effect of carbon monoxide on tissues and that this tissue effect must be taken into account in setting standards of permissiable concentration of carbon monoxide in the air of hermetically sealed chambers. Orig. art. has: 3 tables. [ATD PRESS: 4091-F]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 004

Card 3/3

L 16675-66 EWT(1) SCTB DD

ACC NR: AP6007745 SOURCE CODE: UR/0293/66/004/001/0144/0150

AUTHOR: Tiunov, L. A.; Kustov, V. V.

ORG: none

TITLE: Endogenous formation of carbon monoxide and its role in a closed ecological system

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 1, 1966, 144-150

TOPIC TAGS: carbon monoxide, closed ecology system, life support system, biochemistry, plant chemistry, radiation biologic effect, plant biologic effect, tissue physiology

ABSTRACT: Problems of the endogenous formation of carbon monoxide are reviewed and the importance of this phenomenon in closed ecological systems is stressed in a recent Soviet survey article. The review includes the following headings: Endogenous formation of carbon monoxide in mammals; Mechanism of endogenous carbon monoxide formation; Endogenous formation of carbon monoxide under the effect of ionizing radiation; and Formation of carbon monoxide in plants. It is stated that the simultaneous processes of endogenous CO formation, CO oxidation, and CO fixation take place in animal and plant tissues. These competing processes result in a certain equilibrium. This fact should be taken into account in developing life-support systems for spaceships. Orig. art. has: 1 figure. [ATD PRESS: 4198-F]

SUB CODE: 06 / SUBM DATE: 16Feb65 / ORIG REF: 012 / OTH REF: 055

Card 1/1 hr.c UDC: 629.198.6:615.9

L 4269-66 EWT(l)/EWP(e)/EWT(m)/EWP(l)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/GG/WH

ACCESSION NR: AP5024567 UR/0070/65/010/005/0760/0761
548.4

AUTHOR: Medvedev, S. A.; Kustov, Ye. F.; Arsen'yev, P. A.

TITLE: Study of dislocations in synthetic corundum single crystals

SOURCE: Kristallografiya, v. 10, no. 5, 1965, 760-761

TOPIC TAGS: corundum, crystal dislocation, single crystal

ABSTRACT: Etching was used to study the dislocation density distribution in the basal plane of synthetic corundum grown by the Verneuil process. Fe, Ti, Mn, and Co were introduced separately in concentrations up to 0.5%; in addition, Fe and Cr, Co and Cr, and Ti and Cr were introduced together (total impurities up to 0.8%). Samples for the experiments were cut out of the central portion of the single crystal. The dislocations were counted along and across the sample every 0.5 mm with an MIM-8 microscope. Fig. 1 of the Enclosure shows a typical dislocation density distribution for a crystal having a 90° angle between the optic and the geometrical axis; the length and width of the sample are plotted along the y and x axes, respectively, and the dislocation density is plotted along the z axis. In crystals having a 60° angle between the geometrical and the optic axes, the average dislocation densities are one order of magnitude greater. The

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L 4269-66

ACCESSION NR: AP5024567

9

maximum dislocation density in such crystals reaches 1.2×10^6 cm^{-2}, and the minimum is 1.3×10^5 cm^{-2}. "The authors thank L. S. Milevskiy for discussing the results and M. M. Yukhvits for participating in the measurements." Orig. art. has: 1 figure.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Institute)

SUBMITTED: 03Dec64 ENCL: 01 SUB CODE: MT, SS

NO REF SOV: 000 OTHER: 003

Card 2/3

L 4269-66
ACCESSION NR: AP5024567 ENCLOSURE: 01

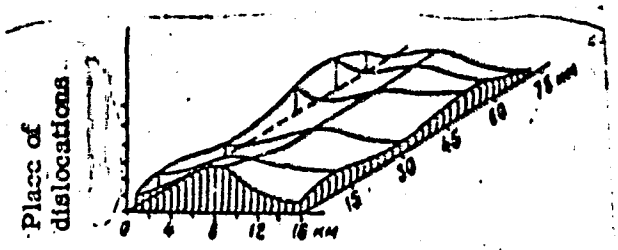


Figure 1. Three-dimensional graph of variations in dislocation density in a crystal having the geometrical axis perpendicular to the optic axis.

Card 3/3 DP

L 15959-66 EWT(1)/EWP(e)/EWT(m)/ETC/f/EWG(m)/EPF(n)-2/T/EWP(t) IJP(c)
ACC NR: AP6001589 JD/JG/GG/AT/WH SOURCE CODE: UR/0120/65/000/006/0186/0188

AUTHOR: Medvedev, S. A ; Kustov, Ye. F.; Arsen'yev, P. A. 66 15

ORG: Moscow Power Institute (Moskovskiy energeticheskiy institut)

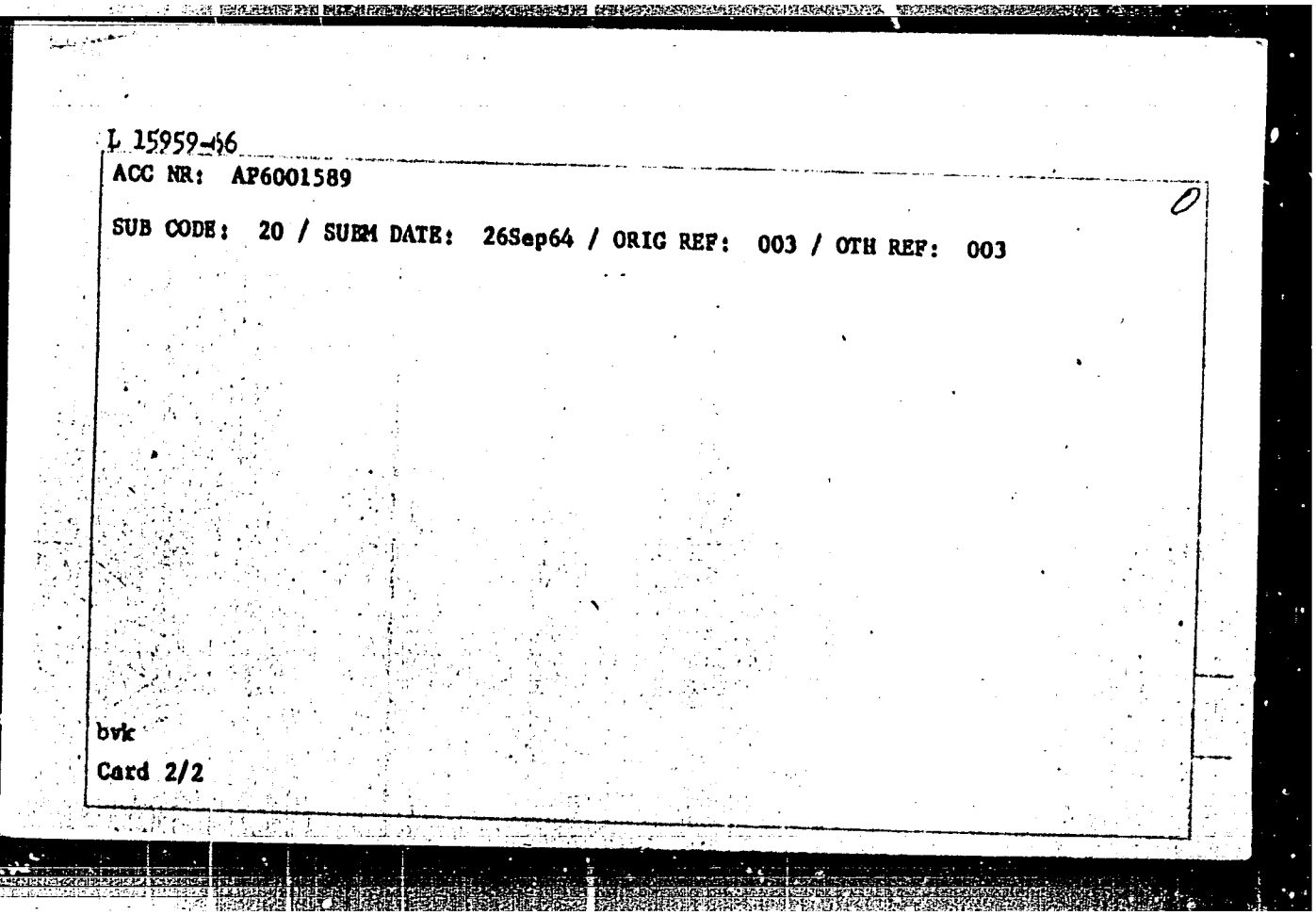
TITLE: The use of high frequency discharge plasma for the growing of single crystals 21,44,55

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1965, 186-188

TOPIC TAGS: single crystal growing, Verneuil method, plasma heating, plasma jet

ABSTRACT: Recent published literature describes the use of electrodeless gaseous discharges for the growing of single crystals of high-melting oxides. The present paper describes a high frequency generator and a plasma burner for the growing of crystals according to the Verneuil method. The oxygen-hydrogen jet is replaced by a plasma jet heating the gas to 7,000—10,000K. The device can operate within any desired atmospheric surrounding and the absence of electrodes secures a high degree of purity of the product. The added temperature range (as compared with the classic Verneuil method) allows the growing of crystals with a high degree of efficiency. The device was used for synthetic corundum single crystal production of high purity. Orig. art. has: 4 figures.

Card 1/2 UDC: 669-172-9



L 15959-66
ACC NR: AP6001589

SUB CODE: 20 / SUBM DATE: 26Sep64 / ORIG REF: 003 / OTH REF: 003

bvk
Card 2/2

22(1)

SOV/47-59-2-24/31

AUTHOR: Kustov, Yu.A.

TITLE: Excursion to an Automatic Telephone Exchange (Ekskursiya na avtomaticheskuyu telefonnuyu stantsiyu)

PERIODICAL: Fizika v shkole, 1959, Nr 2, pp 82-85 (USSR)

ABSTRACT: The author describes in detail an excursion to an automatic telephone exchange to familiarize the students with the installation and its operation. When explaining the installation a set of simplified devices quoted in Professor Ye.V. Kitayev's article (Ref. 2) was shown to the students by means of a projector. He lists the points to which the students paid special attention. The names of the following Soviet inventors are listed as creators of an automatic telephone exchange step-by-step system: B.K. Martynov, K.I. Volkov, V.A. Lebetskiy, N.K. Rozental', G.S. Savel'yev, M.N. Stoyanov, L.S. Farafonov and S.V. Shevchenko. The students' principal attention was drawn to the automatic in-

Card 1/2

stallation. They also were shown the protection of automats against foreign currents, and the optical and acoustical signalling, indicating the spot and character of damage. There are 3 photographs and 2 Soviet references.

ASSOCIATION: 2-ya srednyaya shkola, Stavropol'-na-Volge (Secondary School Nr 2, Stavropol'-na-Volge)

KUST'OVA, A., kandidat fiziko-matematicheskikh nauk.

Story about vacuum. Znan.sila 32 no.8:9-13 Ag '57. (MIRA 10:10)
(Vacuum)

KUSTOVA, A. I. --

"The Biology and Ecology of Fusarioses and Sclerotiosis of the Monalkaloid Yellow Lupine and the Development of Preventative measures Against Them." Cand Ag Sc , Inst of Specialized Agriculture, Acad Sci Belorussian SSR, Minsk, 1 p. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

Kustova, A. I.

1/ The influence of microelements on yield of potatoes and their resistance to disease. N. A. Dorozhkin and A. I. Kustova. *Zemledelie* 3, No. 6, 69–70(1955).—Two kg. (NH$_4$)$_2$SO$_4$, 40 kg. MgSO$_4$, 6 kg. CuSO$_4$, 20 kg. KMnO$_4$, and 2 kg. B-Mg fertilizer were added before planting. The tops were sprayed during the growing season with solns. of B 0.02, Mg 0.3, Cu 0.02, Mn 0.01, and B-Mg fertilizer 0.01%. CuSO$_4$ seems to speed up the sprouting by 5 days and the B-Mg fertilizer by 4 days. Flowering was also advanced by 6–9 days. The microelements applied in the form of a spray have retarded the appearance of rhizoctonia, phytophthora by 9–13 days. The degree of infection was also reduced, especially by the CuSO$_4$ and KMnO$_4$. Yields and starch content have also been increased. J. S. Joffe

(1)

Kustova, A. I

Effect of nutrient fertilizing with microelements on the disease-resistance and yield of potatoes. N. A. Proozhkin and A. I. Kustova. *Izvest. Akad. Nauk Belorus. S.S.R.* 1955, No. 1, [illegible] (in Russ); cf. *C.A.* 49, 11852i. In a 2-year expt. potatoes were cultivated in a manurially fertilized (org. manure and full NPK) podzol soil with the addn. of the following microelements: H_3BO_3 2, $MgSO_4$ 20, $CuSO_4$ 6, $KMnO_4$ 20, and a M; B fertilizer 2 kg./ha.; from the same microelements the dilution solns. of the concns. of 0.02, 0.3, 0.02, 0.01, and 0.1% etc., have been prepd. and used for spraying the potato plants during the vegetative growth (just after sprouting and before full closing of the leaves). In all instances the plant treatment with the microelement sprays, or by applying the microelements around the roots, the root-nutrition increased the potato yield and the tuber resistance against *Hypochnus solani*, *Actinomyces scabies*, and *Phytophthora infestans*. Cu and Mn showed the greatest effects. The amt. of starch in the tubers increased approx. by 2% (from 11.0–13.5 to 14.4–15.8%) by the applications of the Cu and Mn supplements; in this respect Mg was nearly without any effect while B decreased the starch content of the tubers (to 11.3–12.8%). All microelements increased the vegetative growth and development of the plants; postponed (by 5–13 days) the appearance of the leaf sicknesses, accelerated the time of the plant budding and flowering, increased the tuber qualities for the vegetative reproduction, and increased the storage life of the tubers. These effects of the microelements increased further when the treatments were repeated in the 2nd year by using the exptl. tubers from the previous year as the seed material. E. Wyrbicki

DOROZHKIN, N.F.; KUSTOVA, A.I.

Experiments with and observations of sclerotiniose in White Russia. Nauch.zap.BGU no.26:122-135 '56. (MIRA 10:2)
(White Russia--Fungi, Phytopathogenic) (Plants--Diseases and pests)

KUTOVA, A.I.; LOSINSKAYA, M.L.

Injurious fungal and insect fauna of the "Nesvizh" Sanatorium Park. Sbor. nauch. rab. TSNII no.1:122-125 '60.
(MIRA 14:10)
(Nesvizh District--Trees--Diseases and pests)

KUSTOVA, A.I.; LOSINSKAYA, N.L.

Injurious fungi and insects of the Botanical Garden of the Academy of Sciences of the White Russian S.S.R. Sbor. bot. rab. Bel. otd. VBO no.2:205-210 '60. (MIRA 15:1)
(White Russia--Fungi, Phytopathogenic)
(White Russia--Insects, Injurious and benificial)

KUSTOVA, A. KH.

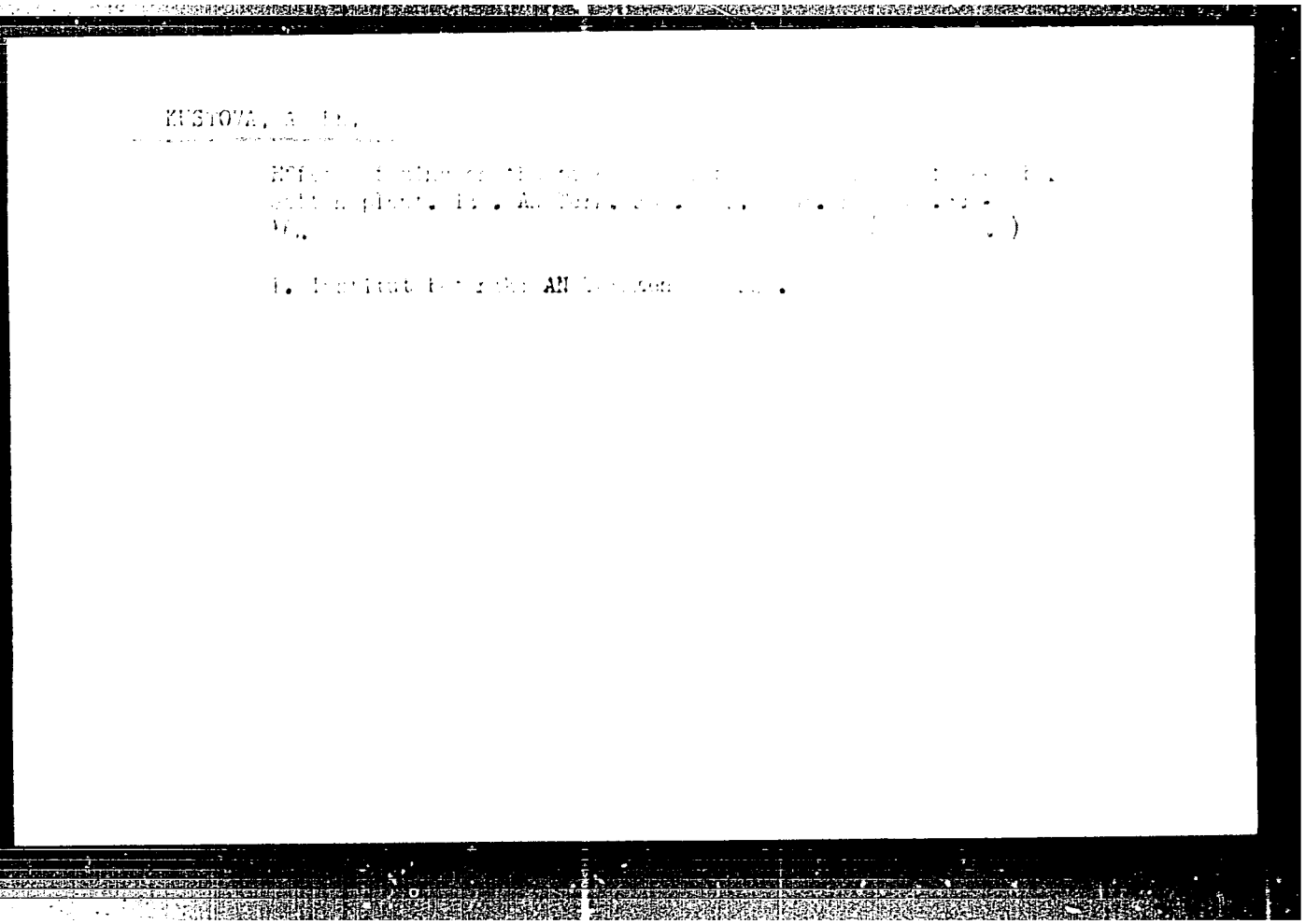
Vernalization of cottonseed and the quality of enzymes. A. K. Nosov and A. Kh. Kustova. *Izvest. Akad. Nauk Turkmen. S.S.R.* 1v[illegible]; *Referat. Zhur. Khim.* 1953, No. 6040.—The changes in the quality and quantity of catalase, invertase, and protease were studied in vernalized cottonseed. Emergence from dormancy and passing through a vernalization stage cause an increase in the enzymes. Most intensely invertase forms, somewhat less intensely catalase, while protease forms very weakly. The quality of enzymes upon emergence from dormancy first increases and toward the end of vernalization decreases. Since the illuminated stage of cotton development takes place at higher temp. of the surrounding medium than the vernalization stage it is considered that under these conditions acceleration of the chem. processes can be achieved with low-grade enzymes, whereas high-grade enzymes would rather retard the chem. process. Therefore, the lowering of the quality of enzymes of cotton toward the end of vernalization readies the plant to temps. of the surrounding. M. Hosh[illegible]

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000927910007-6"

KUSTOVA, A.Kh.

Effect of trace elements on the yield of cotton. Izv.AN Turk.S.S.R. no.3:51-57 '57. (MIRA 10:10)

1. Institut botaniki Akademii nauk Turkmenskoy SSR.
(Cotton) (Trace elements)



KUSTOVA, A.Kh.

Role of zink in vital processes of the cotton plant. Izv. AN Turk. SSR. Ser. biol. nauk no.2:13-20 '61. (MIRA 14:7)

1. Institut botaniki AN Turkmenskoy SSR.
(COTTON GROWING) (PLANTS, EFFECT OF ZINC ON)

KUSTOVA, A.Kh.

Some data on the effect of micro elements on the increase in salt resistance of cotton. Izv. AN Turk. SSR. Ser. biol. nauk no.6:3-8 '64. (MIRA 18:4)

1. Institut botaniki AN Turkmenskoy SSR.

KUSTOVA, A.Kh.

Effect of microelements on some physiological and biochemical processes in cotton as related to soil salinity. Izv. AN Turk. SSR. Ser.biol.nauk no.5:3-10 '65.

(MIRA 18:11)

1. Institut botaniki AN Turkmenskoy SSR.

KUSTOVA, A. V.

KUSTOVA, A. V. - "Investigation of a High-Voltage Impulse Discharge Under High Pressure (Formation of an Electron Beam and Its Control in an Impulse System)." Sub 10 Dec 52, Moscow Order of Lenin State U imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate in Physicomathematical Sciences).

SO: Vechernaya Moskva January-December 1952

KUSTOVA, A. V.

USSR/Physics - Electric discharge FD-893

Card 1/1 Pub 153-2/26

Author : Reyhrudel', E. M., Kustova, A. V., and Zimelev, A. G.

Title : Elementary processes during formation of a high-voltage impulse discharge at low pressures

Periodical : Zhur. tekh. fiz. 24, 1179-1186, Jul 1954

Abstract : Impulse discharges at 50 to 110 kV and pressures of 10^{-4} to 10^{-1} mm Hg were studied on the oscillograph in helium, argon, air and Hg vapor. The gap between electrodes was varied from 5 to 17 cm. An essentially inhomogeneous density of positive space charge with a maximum near the cathode was observed in the discharge phase. The main role in the discharge formation at high current density in first and second phases is played by compensation of the negative space charge by positive ions along the whole discharge gap. Five references including 3 foreign.

Institution : --

Submitted : March 19, 1954

KUSTOVA, A.V.; REYKHRUDEL', E.M.

Gas focusing beams as a transition stage in the formation of high-voltage impulsive discharges at low temperatures. Zhur. tekh.fiz. 24 no.12:2183-2189 D '54. (MLRA 8:2)
(Electric discharges through gases)

LAPP, R.E.; ANDREWS, H.L.; ASTAKHOV, K.V., professor, redaktor; KUDRYAVTSEV, B.B., professor, redaktor; KUSTOVA, A.V., kanditat fiziko-matematicheskikh nauk, redaktor.

[Nuclear radiation physics. Translated from the English] Fizika iadernogo izlucheniia. Perevod s angliiskogo. Pod red. K.V. Astakhova, B.B.Kudriavtseva i A.V.Kustovoi. Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1956. 435 p. (MLRA 9:4)

(Nuclear physics) (Radiation)

REYKHRUDEL', E.M., ZIMELEV, A.G., KUSTOVA, A.V.

Properties of cold cathodes with pulsed-discharge trigger devices operated at low pressures. Izv.AN SSSR.Ser.fiz. 20 no.10:1153-1161 O '56. (MLRA 10:1)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.

(Electron tubes)

KUSTOVA, A. V.

"Investigation of Phenomena Accompanying the Propagation of Ultrasound and Methods to be used in Work in this Field: The Behavior of Cavitation Bubbles."

repprt presented at the 6th Sci. Conference on the Application of Ultrasound ~~it~~ in the investigation of Matter, 3-7 Feb 1958, organized by Min. of Education RSFSR and Moscow Oblast Pedagogic Inst. im N. K. Krupskaya.

KUSTOVA, A.V.

Effect of calcium and potassium on the nervous mechanisms of transplanted cancer in animals. Uch. zap. Ped. inst. Gerts. 179:235-250 '58. (MIRA 16:5)

(CANCER) (NERVOUS SYSTEM) (POTASSIUM IN THE BODY) (CALCIUM IN THE BODY)