"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOV, A. G.

В. С. Полонов

Современное состояние и перспективы применения телевидения в промышленности, науке и технике в СССР.

Н. Е. Колесс

Разработка унифицированного телевизионного и звукового оборудования различного назначения для телевещания

Р. Е. Быков,
С. Б. Гуревич

Процессы накопления и коммутации в аналоге в переходном режиме

Р. Е. Быков,
С. Б. Гуревич

О влиянии инертуры пучка на структуру потенциального рельефа в аналоге.

11 июня

(с 10 до 16 часов)

В. А. Булдаков

Студийная камера цветного телевидения

В. И. Балетин

Аппаратура цветного телевидения для Московского телецентра

20

В. И. Ефимкин

Совместимость систем цветного телевидения с одной поднесущей частотой, выполненных для стандартов ОИР и МККР

Г. И. Соколов

Преобразование стандартов цветного телевидения

11 июня

(с 18 до 22 часов)

О. В. Евневич-Чекан

Общий комплекс измерений в междугородных каналах цветного телевидения

Л. И. Шаронов,
Л. Л. Судравский

Проекционные устройства цветного телевидения

А. И. Исаев

Выбор равноспектрального белого цвета для системы цветного и черно-белого телевидения.

А. Г. Буряков,
В. М. Зусманович

Коррекция искажений цветов в цветном телевизионном изображении при передаче кинофильмов

30

report submitted for the Centennial Meeting of the Scientific Technological Society of Radio Engineering and Electrical Communications im. A. S. Popov (VNORIE), Moscow, 8-12 June. 1959

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOV, A.I.

Automatic press for manufacturing can keys. Kons. i ov. prom. 16 no.10:30-31 O '61. (MIRA 14:11)

1. Proyektno-konstruktorskoye byuro Krasnodarskogo sovnarkhoza.
(Can openers)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOV, A.I.

Conveyer line for peeling tomatoes. Kons.i ov.prom. 17 no.6:8-9 Je '62. (MIRA 15:5)

1. Proyektno-konstruktorskoye byuro Krasnodarskogo sovnarkhoza.
(Canning industry--Equipment and supplies)
(Tomatoes, Canned)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

ACCESSION NR: AP3000251 S/0119/63/000/005/0030/0031

AUTHOR: Buryakov, G. A.; Usov, V. I.

TITLE: Controlling the furnaces with wandering maximum-temperature zone

SOURCE: Priborostroyeniye

TOPIC TAGS: multipoint temperature controller

ABSTRACT: It is suggested that a number of primary temperature elements be placed along the path of possible wandering of the maximum-temperature zone. A two-position controller with 12 thermocouples is described. If the temperature in the furnace is lower than the set point, the heater is on. If at any of the 12 points the temperature exceeds the set point, the heater is turned off. Contact operations are described in detail. RSM-1 and RSM-3 24-v dc relays and RPT-100 12-v ac relay are used in combination with a type EPP-09 potentiometer. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 14Jun63 ENCL: 00

Card 1/2

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ACCESSION NR: AP3000251

SUB CODE: IE NO REF SOV: 000 OTHER: 000

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOV, G.A.; USOV, V.I.

Control of members having a shifting zone of maximum temperature. Priborostroenie no.5:30-31 My '63. (MIRA 16:8)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

VAYSMAN, M.L.;BURYAKOV, N.I.;KOT, Yu.D.

TSINS system periodic action vacuum pan with sectional heating surface. Sakh. prom. 33 no.11:33-36 N '59 (MIRA 13:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (TsINS).
(Sugar machinery) (Evaporating appliances)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOV, V.F., gornyy inzh.-ekonomist

Organizing continuous production in coal mines. Ugol' 40 no.2:53-56 F '65. (MIRA 18:4)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOV, V.S., tekhnik; PETRUKOVICH, V.D., inzh.; KIRNOV, Ye.S., inzh.; METEL'NIKOV, V.I., inzh.; KUDRYASHOV, S.A., inzh.

Concerning V.V.Vasil'ev's article "Should equipment be grounded or reliably insulated?". Energetik 10 no.12:15-17 D '62. (MIRA 16:1)

(Electric lines--Overhead)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

L 08292-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG/WB

ACC NR: AP6032051 SOURCE CODE: UR/0148/66/000/009/0062/0065

36
33
B

AUTHOR: Neygebauer, G. O.; Yaskevich, A. A.; Buryakov, Yu. A.

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut i splavov)

TITLE: Corrosion resistance of austenitic stainless steel containing nitrogen and the effect produced on it by rare-earth metals

SOURCE: IVUZ. Chernaya metallurgiya, no. 9, 1966, 62-65

TOPIC TAGS: austenitic stainless steel, chromium nickel stainless steel, steel intergranular corrosion, cerium containing steel, lanthanum containing steel, neodymium containing steel, praseodymium containing steel, nitrogen containing steel, austenitic steel, carbon steel, corrosion-resistance, intergranular corrosion

ABSTRACT: Two series of heats of austenitic stainless steel containing 0.03—0.09% carbon, 1.5—2.2% manganese, 18.0—20.0% chromium, 5—7% nickel, 0.15—0.20% nitrogen, and 0—0.50% rare-earth metal (cerium, lanthanum, neodymium and praseodymium) have been tested to determine the maximum carbon content which does not render the steel susceptible to intergranular corrosion and to evaluate the effect of small additions of rare-earth metal on this maximum permissible carbon content. Corrosion tests of specimens annealed at 1100C and sensitized at 650C

Card 1/2 UDC: 669.018.8:669.85/.86:620.193

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

L 08292-67

ACC NR: AP6032051 3

for 1 hr showed that carbon in excess of 0.043—0.046% sharply increased the rate of corrosion, which proves the susceptibility of steel to intergranular corrosion. Tests also showed that rare-earth metals lower the resistance to corrosion of all tested steels in proportion to the increase of steel carbon content. Rare-earth metals appear to form carbides at grain boundaries which, due to their instability in acid solutions, promote intergranular corrosion. On the other hand, sensitized steel containing 0.045% carbon and no rare-earth metals is not susceptible to intergranular corrosion, and its resistance to corrosion in boiling nitric acid corresponds approximately to that of vacuum-melted Kh18N9 steel and greatly exceeds the resistance to corrosion of Kh18N9T steel. Orig. art. has: 4 figures.

SUB CODE: 13, 11/ SUBM DATE: 17Jan66/ ORIG REF: 005/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

SUDZILOVSKIY, G.A., dotsent, kand.filolog.nauk, podpolkovnik zapasa;
BOGDANOVA, K.N.; BURYAKOV, Yu.F.; VOROWIN, V.P.; SERGEYEV, O.N.;
TUROV, A.A.; BORISOV, V.V., red.; MARCHENKO, V.G., red.;
SAVIN, B.V., red.-leksikograf; YEFREMOVA, M.K., red.-leksikograf;
KUZ'MIN, I.F., tekhn.red.

[English-Russian military dictionary] Anglo-russkii voennyi slovar'. Sost. Sudzilovskii, G.A., i dr. Pod obshchei red. Sudzilovskogo, G.A. Okolo 50000 terminov. Moskva, Voen.izd-vo M-va obor.SSSR, 1960. 965 p. (MIRA 13:10)
(English language--Dictionaries--Russian)
(Military art and science--Dictionaries)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BAKANOV, R.A.; BURYAKOV, Yu.F.; VAKHMISTROV, V.V.; VOLODIN, N.V.; KUROCHKIN, V.D.; SAVELOV, V.P.; SUDZILOVSKIY, G.A.; MARCHENKO, V.G., red.; BALASHOVA, M.V., red.-leksikograf; BERDNIKOVA, N.D., red.-leksikograf; CHAPAYEVA, R.I., tekhn. red.

[Concise English-Russian and Russian-English military dictionary] Kratkii anglo-russkii i russko-angliiskii voennyi slovar'. Moskva, Voen.izd-vo M-va oborony SSSR, 1963. 560 p. (MIRA 16:4)

(Military art and science--Dictionaries)
(English language--Dictionaries--Russian)
(Russian language--Dictionaries--English)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOV, Yu.F.; DREMICHEV, I.D.; DUBOSHIN, V.N.; LOPATIN, R.N.; MAKSIMOV, M.I.; TUROV, A.A.; VASIL'YEV, A.A., red.; NIKOLAYEV, N.I., red.; KUROCHKIN, V.D., red.; BALASHOVA, M.V., red.-leksikograf; KUZ'MIN, L.F., tekhn. red.

[Anglo-Russian aeronautical dictionary] Anglo-russkii aviatsionnyi slovar'. Moskva, Voen.izd-vo MOva obor. SSSR, 1963. 544 p. (MIRA 16:8)
(English language--Dictionaries--Russian)
(Aeronautics--Dictionaries)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

LOZOVOY, A.N.; BURYAKOV, Yu.P.

How we control stored product insects. Zashch. rast. ot vred. i bol. 3 no.3:43 My-Je '58. (MIRA 11:6)

1. Glavnyy agronom Ikliyevskoy mashinno-traktornoy stantsii, Vyselkovskogo rayona, Krasnodarskogo kraya (for Lozovoy). 2. Agronom po zashchite rasteniy Ikliyevskoy mashinno-traktornoy stantsii, Vyselkovskogo rayona, Krasnodarskogo kraya (for Buryakov).
(Disinfection and disinfectants)
(Farm produce--Storage--Diseases and injuries)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOV, Yu.P.

Characteristics of agricultural practices in harvesting oil flax by stages. Zemledelie 25 no.8:81-83 Ag '63. (MIRA 16:10)

(Flax--Harvesting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOVA, A. B.

"Investigation of the Dielectric Polarization of Solutions of Some High Molecular Substances." Cand Phys-Math Sci, Saratov State U imeni N. G. Chernyshevskiy, Min Higher Education USSR, Saratov, 1955. (KL, No 10, Mar. 55)

SO: Sum. No. 670, 29 Sep 55—Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

KARABAYEV, N.M.; RUMYANTSEVA, Z.A.; BURYAKOVA, E.P.

Chemical composition of primary tar of caking coal from the Fan-Yagnob deposit. Izv. Otd. geol.-khim. i tekh. nauk AN Tadzh. SSR no.2:23-33 '61. (MIRA 15:1)

1. Institut khimii AN Tadzhikskoy SSR.
(Tajikistan--Coal tar)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

KARAVAYEV, N.M.; RUMYANTSEVA, Z.A.; VALIULINA, F.M.; BURYAKOVA, E.P.

Semicoking of slightly caking and noncaking coal of the Fan-Yagnob deposit. Izv. Otd. est. nauk AN Tadzh. SSR no.3:27-38 '59. (MIRA 15:5)

1. Institut khimii AN Tadzhikskoy SSR.
(Ayni District--Coal--Carbonization)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

PARIYSKAYA, L.V.; KOGAN, F.N.; KALACHEVA, A.P.; CHEREDNICHENKO, G.S.. Prinimali uchastiye: PASHNINA, V.I.; KOROBKOVA, T.N.; BURYAKOVA, G.I.; AGASHKINA, N.S.; ANTOKHINA, G.M.; ANUROVA, V.Ya.; BOBINA, M.L.; YERMAKOVA, Z.P.; YEFREMOV, Yu.A.; POLUTSKAYA, L.G.; SHISHKINA, V.G.; LAPTIYEV, P.P., otv.red.; ROGOVSKAYA, Ye.G., red.; SERGEYEV, A.N., tekhn.red.

[Agroclimatic reference book on Chita Province] Agroklimaticheskii spravochnik po Chitinskoi oblasti. Leningrad, Gidrometeor.izd-vo, 1959. 131 p. (MIRA 13:2)

1. Chita. Gidrometeorologicheskaya observatoriya. 2. Starshiy inzhener-agrometeorolog Chitinskoy gidrometeorologicheskoy observatorii (for Pariyskaya). 3. Chitinskaya gidrometeorologicheskaya observatoriya (for Kogan, Kalacheva, Cherednichenko). (Chita Province--Crops and climate)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

SOV/80-32-2-48/56

AUTHORS: Kuznetsov, V.A., Antipina, A.A., Buryakovskaya, R.I.

TITLE: Investigation of the Specific Electric Conductivity of Aqueous Solutions $NaCl_{sat}$ + NaOH in the Temperature Range 75 - 95°C (Issledovaniye udel'noy elektroprovodnosti vodnykh rastvorov $NaCl_{NAS}$ + NaOH v oblasti temperatur 75 - 95°)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2, pp 456-458 (USSR)

ABSTRACT: The specific electric conductivity of saturated NaCl + NaOH solutions is very important for the electrolysis of salt solutions. Experiments were carried out at temperatures of 75, 80, 85, 90 and 95°C. The results are shown in a table. There is 1 Soviet reference.

ASSOCIATION: Ural'skiy Gosudarstvennyy universitet imeni A.M. Gor'kogo (Ural State University imeni A.M. Gor'kiy)

SUBMITTED: September 23, 1957

Card 1/1

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAKOVSKIY D.M.

S/653/61/000/000/041/051
I042/I242

AUTHOR: Buryakobskiy, D.M.

TITLE: Automatization of pressing of plastic parts

SOURCE: Plastmassy v mashinostroyenii i priborostroyenii. Pervaya resp. nauch.-tekh. konfer. po vopr. prim. plastmass v mashinostr. i priborostr., Kiev, 1959. Kiev, Gostekhizdat, 1961, 440-443

TEXT: The automatization and mechanization of production processes at the Kiyev "Tochelektropribor" plant is outlined. These measures resulted in a twofold increase in productivity and considerable economy of power and materials. The entire pressing process, except for loading and unloading, is now automatic. The steps of the process are listed. The heating technique and apparatus which regulates the temperature between 60 to 260°C with an accuracy of 1°C are dis-

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S/653/61/000/000/041/051
I042/I242

Automatization of pressing...

cussed in great detail. The automatic conversion of the powder stock into pellets and their preliminary heating has increased productivity and improved the quality of the finished product.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

ACCESSION NR: AP4012027 S/0185/64/009/001/0014/0025

AUTHOR: Buryakivs'ky*y, G. Yu.; Mashkevy*ch, V. S.

TITLE: Theory of stationary radiation of a homogeneous system in a multimode resonator. 1. Dependence of radiation on the swing

SOURCE: Ukrayins'ky*y fizy*chny*y zhurnal, v. 9, no. 1, 1964, 14-25

TOPIC TAGS: laser, maser, resonator, resonator mode, laser theory, swing, multimode resonator, kinetic equations

ABSTRACT: The present work was undertaken to solve the problem, in laser theory, of determining the modes at which generation should occur. In previous work by one of the authors it was shown that, by using the method of kinetic equations, a number of true results can be obtained in the case of a stationary regime; he succeeded in investigating nonlinear properties during weak swings and in proving the existence of a sharply expressed threshold of generations. In doing so, a large number of modes and, since the field was considered in a quantum mechanical sense, spontaneous radiation were consistently taken into account. The present work continues the investigation. Using the method of kinetic equations the

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

ACCESSION NR: AP4012027

authors develop the theory of the stationary radiation of a homogeneous system in a resonator where there is a great number of resonator modes within the width of the radiation line. (Because of the extreme complexity of the problem of heterogeneous systems, investigation of homogeneous systems is a necessary step, even though it must still be determined whether a laser can be considered a homogeneous system.) The finding that the intensity of radiation of the resonator mode is a function of the swing in regions of weak and strong swings is a real step forward which permitted obtaining very detailed information on the properties of the system and the radiation. It is shown that if the number of modes at which considerable generation of induced radiation occurs is small in comparison with the full number of modes, there is a pronounced threshold value of the swing. The width of the threshold region is found. Orig. art. has 85 formulas.

ASSOCIATION: Insty*tut fizy*ky* AN UkrRSR, Kiev (Institute of Physics, AN UkrRSR)

SUBMITTED: 08May63 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: PH, AS NO REF SOV: 002 OTHER: 006

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

L 44153-65 EEC(b)-2/EWA(r)/EEC(k)-2/EWA(h)/EWA(k)/EWP(k)/EWT(1)/EEC(t)/FBD/
EWA(m)-2 Pf-4/Pi-4/Pl-4/Pm-4/Pn-4/Pp-4/Pz-6/Peb IJP(c) AT/WG

UR/0181/65/007/004/

conductor

SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1028-1036

TOPIC TAGS: laser, semiconductor laser, oscillation condition, stimulated emission, oscillation threshold

Card 1/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

L 44153-65

ACCESSION NR: AP5010707

location of the Fermi levels in both bands are calculated. An [illegible] hold. The dependence of these [illegible]

only to laser systems [illegible]
mulas and [illegible] table.

SUBMITTED: [illegible]

NO REF SOV: 001 OTHER: 004 [illegible]

Card 2/2 [illegible]

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

L 26946-65 EWA(k)/FBD/EWG(r)/EWT(1)/EEC(k)-2/EEC(t)/T/EEC(b)-2/EWP(k)/EWA(m)-2/EWA(h)

ACCESSION NR: AP5004324 [illegible] S/0185/65/[illegible]

Pf-4/Pi-4 Pl-4 Pe[illegible]

AUTHOR: Buryskiye'kyy, H. Yu. (Buryskovskiy, G. Yu.); Mashkevych, V. S. (Mashkevich, V. S.)

TITLE: Dynamics of laser radiation with variable [illegible]

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 1, 1965, 65-75

TOPIC TAGS: laser, laser radiation, pumping, absorption, giant laser oscillation

ABSTRACT: In laser theory, the problem of losses of resonator modes changing with time is very important. The losses of resonator modes are closely associated with the appearance of giant oscillations [illegible] laser radiation. When the pumping of the laser [illegible] losses of the resonator modes an overpopulation of active centers is produced. A rapid decrease of losses results in a sharp increase in radiation, which results in the appearance of giant oscillations. Previous investigations of this problem showed that the decrease in losses ended before the emergence of the giant oscillations. [illegible] object of the present study was to determine how the losses [illegible]

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

L 26946-65
ACCESSION NR: AP5004324

time. Only giant oscillations were considered. The time dependence of the losses was assumed to be linear. A three-level homogeneous system was studied using the method of kinetic equations. The population of the third level was disregarded. This is possible when the pumping falls short of total saturation. Only the [illegible] ting in the generation were taken into account. [illegible] plicity, a case of weak absorption of pumping was [illegible] found that the following condition must be satisfied [illegible] ence of maximum giant oscillations: $\beta \geq \beta_{min}$, where

$$\beta_{min} = \alpha_0^2/2\ln\frac{N_0}{q_0},$$

q is the number of quanta of all special modes, N is the overpopulation, and α characterizes the loss of modes. Orig. art. has [illegible] figures and 77 formulas. [JA]

ASSOCIATION: Instytut fizyky AN URSR, Kiev (Institute of Physics, AN UkrSSR)

Card 2/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

L 44787-65 EWA(k)/FBD/EWG(r)/EWT(1)/EEC(k)-2/EEC(t)/T/EEC(b)-2/EWP(k)/
EWA(m)-2/EWA(h) Pm-4/Pn-4/Po-4/Pf-4/Pi-4/Pl-4/Peb SCTB/LJP(c) WG

A [illegible]

[illegible] (Puryakovskiy, G. Yu.); Mashkev[illegible]

[illegible] emission of a laser with variable losses. [illegible]

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 4, 1965, 398-409

TOPIC TAGS: laser emission, giant oscillation, laser cavity, population inversion, laser radiation density, laser radiation flux, laser

ABSTRACT: This is a continuation of an earlier paper (Ukr. fizychn. zh. v. 10, no. 1, 1965) in which 1) a general method was developed for solving the kinetic equation describing the behavior of a laser with variable losses and 2) the case of a large initial excess population was considered. In the present [illegible] of the earlier work are used to analyze the case [illegible] practice than the [illegible] part of the paper are modified and solved by [illegible] which giant oscillation [illegible]

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ACCESSION NR: AP5011066

conditions under which a maximum radiation density is obtained [illegible] and the maximum radiation flux can flow out of the cavity [illegible] generality of the earlier and of the present results is limited [illegible] method is used, the [illegible]

description of emission from a laser with variable losses, especially the [illegible] oscillations. "The authors thank V. L. Broude and M. S. Soskin for useful [illegible] Orig. art. has: [illegible] figs.

ASSOCIATION: [illegible] Institute of [illegible] Institute, AS [illegible]

SUBMITTED:	09Jun64	ENCL:	00	SUB CODE:	EC
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L 2312-66 EWA(k)/FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(m)-2/EWA(h)
SCTB/IJP(c) WG UR/0185/65/010/009/0991/1006
ACCESSION NR: AP5024129

64
62
B

AUTHOR: Buryakivs'kyy, H. Yu. (Buryakovskiy, G. Yu.); Mashkevych, V. S. (Mashkevich, V. S.) 44

TITLE: Theory of stationary radiation of a homogeneous system in a resonator with many modes. II. Optimum conditions for laser emission

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 9, 1965, 991-1006

TOPIC TAGS: resonator, resonator Q factor, vibration theory, laser, laser emission, laser pumping, laser radiation 25,44

ABSTRACT: Conditions for maximum laser emission, i.e., the radiation of special modes above the threshold region, were investigated. The dependence of radiation intensity of resonator modes on pumping was used to determine these optimum conditions. The optimum value for each basic parameter (the transparency of resonator mirrors and the concentration of active centers), on which depends the intensity of radiation of resonator modes at a fixed pumping, was determined individually. The dependence of the number of quanta Q^0 emitted by all special modes in the region above the threshold on the total losses of a special mode α^0 at fixed values of the fringe losses of special mode α^0_{fr} and all other parameters leads to the following

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results: in the investigated range of α^0 values, the function $Q^0(\alpha^0)$ has only one extremum, which is a maximum. The optimum value of α^0 corresponding to this maximum can be found for small values of pumping utilization factor p and sufficiently large pumping. In case of p close to unity and large pumping, the optimum value of α^0 can be obtained explicitly. If the fringe losses are sufficiently small, then with their rise the optimum values of useful losses strongly increase. If the total losses are close to their own maximum value, conditioned by the activity of the special mode, then when the fringe losses increase, the optimum value of the useful losses decreases, so that the total losses increase slightly. With the increase of the number of active centers the optimum value of the useful losses increases. In case of a weak absorption when p is not to close to unity, approximate solutions for two limiting cases of pumping—close to the threshold and considerably exceeding the threshold—were obtained. The dependence of the threshold value of pumping on the concentration of active centers has one extremum, which is a minimum. An analytical solution was obtained for an ideal three-level system for the case of weak absorption and p not close to unity. Orig. art. has: 75 formulas and 4 figures. [JA]

ASSOCIATION: Instytut fizyky AN URSR, Kiev (Physics Institute, AN URSR) 44

SUBMITTED: 29Jun64 ENCL: 00 SUB CODE: EC

NO REF SOV: 004 OTHER: 001 ATD PRESS: 4105

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BURYAKOVSKIY, L.A.

BURYAKOVSKIY, L.A.

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BURYAKOVSKIY, L.A.

SAMEDOV, F.I.; BURYAKOVSKIY, L.A.

Relation between physical parameters of the Neftyanyye Kamni oil-reservoir rocks. Azerb.neft.khoz. 36 no.8:20-23 Ag '57. (MIRA 10:11)

(Azerbaijan--Borings--Analysis)

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BURYAKOVSKIY, L.A.

14(5) PHASE I BOOK EXPLOITATION SOV/2820

Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Razvedochnaya i promyslovaya geofizika, vyp. 26 (Exploration and Industrial Geophysics, Nr 26) Moscow, Gostoptekhizdat, 1958. 67 p. (Series: Otmen proizvodstvennym opytom) 4,000 copies printed.

Ed.: M.K. Polshkov; Exec. Ed.: Ye.G. Pershina; Tech. Ed.: A.S. Polosina.

PURPOSE: This booklet is intended for exploration geophysicists and geologists.

COVERAGE: This collection of articles includes discussions of improvements in seismic exploration techniques and interpretations of data obtained by the refracted and reflected waves method of seismic exploration. Individual articles discuss: the construction of gravimetric maps, improvements in industrial borehole equipment, the standardization of radioactive electro-logging equipment, and methods for computing labor productivity in geophysical operations. A nomogram to facilitate the interpretation of data and conditions when using gamma logging of boreholes is described. References accompany each article.

Card 1/3

Turov, Yu.G., and S.P. Yartanov, Marine Seismic Exploration 21

Urupov, A.K., and Ye.M. Cheremnykh. Seismic Soundings in Determining the Velocities of Elastic Waves 25

Tal'-Virskiy, B.B. Method of Plotting Refracting Horizons in the Presence of a Mean Velocity Gradient of Arbitrary Direction 34

Sazhina, N.B. An Example of a Rational Selection of an Isoanomaly Cross-Section for Gravimetric Maps 40

Shvank, O.A. Accuracy of an Approximative Evaluation of Elevation Differences Based on a Formula of the Gravity Effect of an Infinite Bed 44

Card 2/3

Zaporozhets, V.M., and V.V. Sulin. Differential Spectra of γ Radiation from Cylindrical Radiators 49

Sulin, V.V. Standardization of Equipment for Radioactive Logging 54

Zel'tman, P.A. Newly Designed Parts for Borehole Equipment 70

Buryakovskiy, L.A. Nomogram for Determining the Specific Resistivity of Formation Water 74

Tishchenko, B.Ye. On the Problem of Developing Methods for Computing Labor Productivity in Geophysical Operations 77

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BURYAKOVSKIY, L.A.

Rapid method for calculating the true thickness of layers based on the visible thickness measured along the shaft of a deflected well. Geol.nefti 2 no.3:67-70 Mr '58. (MIRA 12:6)

1. Neftepromyslovoye upravleniye "Tyurgyanneft'."
(Petroleum geology)

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SAMEDOV, F.I.; BURYAKOVSKIY, L.A.

Characteristics of petroleums in the producing formation of the southeastern part of the Apsheron Peninsula. Azerb.neft.khoz. 37 no.8:6-10 Ag '58. (MIRA 11:11)
(Apsheron Peninsula--Petroleum--Analysis)

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BURYAKOVSKIY, L.A.

Determining the permeability on resistivity logging data. Geol. nefti i gaza 3 no.1:47-51 Ja '59. (MIRA 12:4)

1. Neftepromyslovoye upravleniye Gyurgyanneft'.
(Rocks--Permeability) (Logging (Geology))

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SAMEDOV, F.I.; BURYAKOVSKIY, L.A.

Geothermal conditions in the Neftyanye Kamni field. Dokl.AN Azerb. SSR 15 no.1:33-38 '59. (MIRA 12:3)

1. Neftepromyslovoye upravleniye Gyurgyanneft'. Predstavleno akademikom akademikom AN AzerSSR M.V. Abramovichem.
(Neftyanye Kamni region--Earth temperature)

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GADZHIYEV, B.A.; BURYAKOVSKIY, L.A.

Periods of efficient exploitation of water-encroached wells.
Azerb. neft. khoz. 38 no.2:25-29 F '59. (MIRA 12:5)
(Oil well flooding)

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BURYAKOVSKIY, L.A.

Lithology of the Neftyanye Kamni field, based on field geophysical data. Izv.vys.ucheb.zav.; neft' i gaz 2 no.12:19-24 '59. (MIRA 13:5)

1. Azerbaydzhanskiy institut nefti i khimii imeni M.Azizbekova.
(Neftyanye Kamni region--Clay)
(Prospecting--Geophysical methods)

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BURYAKOVSKIY, L.A.; SAMEDOV, F.I.

Method for determining the permeability of oil reservoir rocks based on electric logging data. Azerb.neft.khoz. 38 no.11: 8-10 N '59. (MIRA 13:5)

(Rocks--Permeability) (Electric prospecting)

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BURYAKOVSKIY, L.A.

Determining reservoir clayiness and permeability by the magnitude of their natural radioactivity. Prikl. geofiz. no.28:130-137 '60. (MIRA 14:3)

(Oil well logging, Radiation)

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BURYAKOVSKIY, L.A.

Study of structural characteristics of the interstitial space based on electric logging data. Izv.vys.ucheb. zav.; neft' i gaz 3 no.6:9-16 '60. (MIRA 13:7)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova. (Rocks) (Porosity)

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SAMEDOV, F.I.; BURYAKOVSKIY, L.A.

"Geophysical methods of studying oil and gas reservoirs" by B.N. Dakhnov, L.P. Dolina. Reviewed by F.I. Samedov, and L.A. Buriakovskii. Izv. vys. ucheb. zav.; neft' i gaz 3 no.7:96,104,120 '60. (MIRA 15:5)

(Petroleum geology) (Gas, Natural--Geology)
(Dakhnov, B.N.) (Dolina, L.P.)

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SAMEDOV, F.I.; BURYAKOVSKIY, L.A.; DZHALILOV, D.G.

Gryazevaya Sopka, a new oil field in the Caspian Sea. Geol. nefti i gaza 4 no. 3:45-50 Mr '60. (MIRA 13:12)

1. Neftepromyslovoye upravleniye Gyurgyanneft'.
(Caspian Sea--Oil fields)

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SAMEDOV, F.I.; BURYAKOVSKIY, L.A.

Results of the comparative study of reservoir properties of rocks in the Gryazevaya Sopka field based on data on analyses of cores and electric logging. Azerb. neft. khoz. 39 no.11:13-15 N '60. (MIRA 13:12)

(Gryazevaya Sopka region--Oil sands--Analysis)

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SAMEDOV, F.I.; BURYAKOVSKIY, L.A.

Gas potential of the producing formation in the southeastern Apsheron Archipelago. Geol. nefti i gaza 5 no.4:9-12 Ap '61. (MIRA 14:4)

1. Neftepromyslovoye upravleniye Gyurgyanneft'.
(Apsheron Archipelago—Gas, Natural—Geology)

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BURYAKOVSKIY, L. A. Cand Geol-Min Sci -- "Geological structure and lithological and collector properties of rocks of the productive series of the Neftyanyye-Kamni deposit, according to ~~mining~~ petroleum-field-geophysical data." Baku, 1961 (Committee of Higher and Secondary Specialized Education of the Council of Ministers AzSSR. Azerbaydzhan Order of Labor Red Banner Inst of Petroleum and Chem im M. Azizbekov). (KL, 4-61, 189)

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BURYAKOVSKIY, I.A.; SAMEDOV, F.I.; AKHMEDOV, A.M., red.; KASHEVSKAYA, T.A., red.; MIRKISHIYEVA, S., tekhn. red.

[Geophysical methods of studying reservoirs of the Apsheron Archipelago] Geofizicheskie metody izucheniia kollektorov Apsheronskogo arkhipelaga. Baku, Azerbaidzhanskoe gos. izd-vo, 1961. 126 p. (MIRA 16:9)

(Apsheron Archipelago--Oil sands)
(Prospecting—Geophysical methods)

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BURYAKOVSKIY, L.A.

Simplified method for the determination of the volumetric coefifcient of reservoir oil. Izv. vys. ucheb. zav.; neft' i gaz 6 no.10:19-24 '63. (MIRA 17:3)

1. Giaymorneft'.

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BURYAKOVSKIY, L.A.

Determination of the permeability of water-saturated rocks from the relative resistance. Izv. vys. uchob. zav.; neft' i gaz 6 no.8:30 '63. (MIRA 17:6)

1. Glavmorneft'.

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BURYAKOVSKIY, L.A.

Quantitative evaluation of the quality of the stratigraphic division of a producing formation in the Neftyanyye Kamni field. Izv.vys. ucheb.zav.; neft' i gaz 6 no.11:101 '63. (MIRA 17:9)

1. Glavmorneft'.

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SHELEVOY, N.Sh.; BURYAKOVSKIY, L.A.

Experimental dependence between the gas factor, reservoir temperature, and the saturation pressure of oil. Izv. vys. ucheb. zav.; neft' i gaz 7 no.2:24 '64. (MIRA 17:10)

1. Glavmorneft'.

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BURYAKOVSKIY, L.A.

Dependence of the water permeability of cores on the saturation time if the sample. Izv. vys. zav.; neft' i gaz 7 no.6:8 '64. (MIRA 17:9)

1. Glavmorneft'.

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BURYAKOVSKIY, L.A.

Concerning the relation between absolute and dynamic permeability in case of gas, water, or oil flow. Izv. vys. ucheb. zav.; neft' i gaz 7 no.12:34 '64 (MIRA 18:2)

1. Glavmorneft'.

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BURYAKOVSKIY, L.A.; GAMZHIYEV, Ya.A.; DADASHEV, R.M.

Reservoir properties of rocks in the lower part of the producing layer of folds on Zhiloy Island and Kamni Grigorenko. Dokl. AN Azerb. SSR 21 no.3:57-61 '65. (MIRA 18:7)

1. Institut geologii AN AzerSSR.

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BURYAKOVSKIY, L.A.

Using methods of mathematical statistics for processing data on the porosity and permeability of reservoirs. Neftegaz. geol. i geofiz. no.11:41-46 '65. (MIRA 18:12)

1. Neftepromyslovoye upravleniye im. XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza pri Upravlenii "Glavmorneft'".

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2/16 ELECTROMAGNETIC VOLTAGE REGULATORS OF THE TYPE EMVU AND THEIR

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BURYAKOVSKIY, Yuriy [Buriakivs'kyi, Iurii]

He tamed the metal. Nauka i zhyttia 12 no.4:9-10 Ap '62. (MIRA 15:8)

(Electric welding) (Paton, Boris Evgen'evich)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YAN, I.K., inzhener.

Planning medium distance freight haulage. Zhel. dor. transp. 38 no.11:44-48 N '56. (MLRA 9:12)

(Railroads--Freight)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YAN, N. I., Cand Biol Sci -- (diss) "Biological bases for the stabilization of valuable properties of yeast cultures in museum storage." Moscow, 1960. 21 pp with charts; (Academy of Sciences USSR, Inst of Microbiology); 175 copies;free; (KL, 26-60, 132)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YAN, N.I.

Indicator yeast cultures for determining mesoinosite and pantothenic acid. Trudy VNIIViV "Magarach" 13:78-79 '64.
(MIRA 17:12)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YAN, N.I.; VODOREZ, G.D.; MAKSIMOVA, I.G.

Group B vitamin content in red grape wine. Trudy VNIIViV "Magarach" 13:80-83 '64. (MIRA 17:12)

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BUR'YAN, N.I.

Comparative study of the various methods employed in the conservation of wine yeast cultures. Trudy VNIIViV "Magarach" 9:53-82 '60. (MIRA 13:11)

(Yeast) (Wine and wine making)

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BURDAN, S.

A couple remarks concerning the coefficient of base measurement with Invar wires.

P. 79 (PRZEGLAD GEODEZYJNY) Poland, Vol. 13, No. 2, Feb. 1957

SO: Monthly Index of European Accessions (AEEI) Vol. 6, No. 11, November 1957

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S/123/61/000/009/004/027
A004/A104

AUTHOR: Bur'yan, V.A.

TITLE: The carbon penetration in steel during pulse contact heating

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 9, 1961, 74, abstract 9B521 ("Nauchn. zap. Odesk. politekhn. in-t", 1959, v. 16, 167-177)

TEXT: The author analyzed the reaction effect of unipolar current pulses on the carbon penetration process in the surface layer of steel electrodes - cathode and anode - being in contact under a certain pressure. The СКС-1 (SKS-1) high-speed camera was used for the investigations. A special experimental installation has been developed which is described in the article. There are 9 figures and 6 references.

/B

N. Lazarenko

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

Bur'yan, V. B.

AUTHORS: Bur'yan, V. B., and Kiselev, N. K. 72-1-10/13

TITLE: The Quality of Refractories for Feeder Lines Has Improved (Povysi-los' kachestvo ogneuporov dlya pitateley).

PERIODICAL: Stekło i Keramika, 1958, Nr 1, pp. 28-29 (USSR).

ABSTRACT: Until recently mechanical production had often to be stopped in order to exchange the refractory parts of feeder lines, which was necessary, on the average, every 10 - 15 days. Each time it took several days until the machines could again be put into operation, which made it difficult to work according to plan. The authors of this paper succeeded in improving the refractory parts for the feeders MII - 4. Hitherto these parts had been produced by plastic forming from a layer containing 45 % clay and 55 % fireclay waste, Laboratory experiments showed that the mechanical strength and the thermal resistance of refractories can be considerably increased by adding up to 20 % technical alumina. Besides, 30 % slightly burnt fireclay was introduced into the layer. Furthermore, a recipe is given according to which the refractories were produced and showed good results. These products can be pressed in metal molds consisting of several parts by means of pneumatic rammers or by hand. For the lubrication of the molds a mixture of paraffin and petro-

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The Quality of Refractories for Feeder Lines Has Improved. 72-1-10/13

leum (1 . 5) in a heated state is recommended. The rules for burning the parts are given in table 1, and their properties in table 2. In the course of a 6 months' work the parts which were manufactured according to the new method, resulted in a much lower consumption.
There are 2 tables.

ASSOCIATION: Gostomel' Glass Works (Gostomel'skiy stekol'nyy zavod).

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S/072/61/018/006/002/002
B103/B215

AUTHOR: Bur'yan, V. B.

TITLE: The Ukrainskiy filial Instituta steklovolokna (Ukrainian Branch of the Institute of Glass Fibers)

PERIODICAL: Steklo i keramika, v. 18, no. 6, 1961, 41 - 42

TEXT: The author gives an account of work done by the Ukrainskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta steklyannogo volokna (Ukrainian Branch of the All-Union Scientific Research Institute of Glass Fibers) at Gostomel', oblast' Kiyev. The branch was provisionally established on the premises of the Gostomel'skiy stekol'nyy zavod (Gostomel' Glassworks). Two laboratories for 400 scientific workers, an experimental workshop (200 workers), and apartment houses are provided. The main tasks of the branch include: 1) further improvement of the methods of manufacturing glass fibers and finished products; 2) development of new manufacturing methods and new types of glass-fiber products; 3) expansion of the raw material supply for the manufacture of glass fibers by utilizing local raw materials; 4) introduction of glass-fiber products into Ukrainian economy; and 5) scientific and technological

Card 1/3

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support of glass-fiber works. For this purpose, the following laboratories have been established: A) for manufacturing, B) for processing glass fibers, C) for glass-reinforced plastics, D) for design. There exists also an experimental department for testing laboratory work, for experiments, and for the introduction of new products. The following problems were dealt with: manufacture of continuous glass fibers and of glass roving; installation of units for the manufacture of ultrafine fibers and staple fibers by vertical drawing by means of air. Although the period of organization is still in full swing (engagement of personnel, mounting of machinery and devices), the staff attempts to fulfill their tasks. Ad A). The examination of basalt deposits suited for the production of ultrafine fibers, staple fibers, and several others was brought to an end. Due to the data obtained, manufacture of the above products seems to be very promising (1000 kg/24 hr); a suitable unit has been constructed. Ad B). Fabrics made of glass fibers of alkaline composition (instead of cotton textiles) have been successfully used in Kiyev plants for anodic diaphragms in galvanic processes. The lifetime of these diaphragms was thus increased by two to three times, operation was facilitated, and the effect of galvanic baths increased. Positive results were obtained

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in experiments on the removal of dust and bacteria from air by glass-fiber products. Ad C). Methods of manufacturing non-woven bands of continuous glass fibers for bandaging rotors of electric motors are being developed. In collaboration with the Vsesoyuznyy elektrotekhnicheskiy institut imeni V. I. Lenina (All-Union Electrotechnical Institute imeni V. I. Lenin) the laboratory D) designed apparatus used for the above experiments. The laboratories of the Branch generalized the experience collected by Ukrainian industry in this field, and studied the subjects of scientific work of Ukrainian research institutes and universities. It was found that the manufacture of glass fibers and the present extent of scientific work do not yet meet the increasing demand of national economy. All the work of the Branch is conducted by laboratories of the All-Union Scientific Research Institute of Glass Fibers. This year, the amount of work has considerably increased. The laboratories of the Branch are contacting Ukrainian glass-fiber works to introduce, together with them, new methods in this field.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YAN, V.B.; SERGEYEV, P.A.

New heat insulation for power machinery of electric power plants. Energ. i elektrotekh. prom. no.3:24-26 Jl-S '62. (MIRA 18:11)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

NATAPOV, B.S.; OL'SHANETSKIY, V.Ye.; Prinimali uchastiye: VOLOSHCHUK, M.D.; NOSIK, N.Ye.; BUR'YAN, V.D.

Coalescence of the carbide phase in normal and anomalous carbon steels. Fiz. met. i metalloved. 13 no.6:934-937 Je '62. (MIRA 15:7)

1. Zaporozhskiy mashinostroitel'nyy institut imeni V.Ya. Chubarya.
(Steel--Metallography) (Cementation (Metallurgy))

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYAN, Y. L.

B.

F.

VARIATION OF ELECTRIC CHARACTERISTICS OF COAL WHEN SUBJECTED TO THERMAL AND DIELECTRIC HEATING. Dolgopolov, Y. L., Buryan, Y. L. and Margolin, V. S. (Doklady Akad. Nauk SSSR (Rep. Acad. Sci. U. S. S. R., 1950, vol. 74, (4) 755-757). The dielectric constant and resistance vary differently with the mode of heating - thermal or dielectric. With thermal heating under condiditons described resistance remained high and steady up to 340°C. and then fell gradually to a very low figure at 400°C. :with dielectric heating it dropped suddenly at only 240°C. to a low value and profuse gas evolution occurred between 240° and 270°C. (L)

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YAN, Ye.

AID P - 478

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 7/15

Author : Bur'yan, Ye.

Title : Group Jump of Kiyev Parachutists

Periodical : Kryl. rod., 9, 11, S 1954

Abstract : An account of recent regional parachute activities.

Institution : DOSAAF (All-Union Voluntary Society for the Promotion of the Army, Aviation and Navy)

Submitted : No date

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YAN, Yu.L.; BYTENSKIY, M.G.; DOLGOPOLOV, N.N.; EPSHTEYN, G.M.; YERMAN, B.I.

Gelatin extraction. Patent U.S.S.R. 77,271, Dec.31, 1949.
(CA 47 no.19:10262 '53)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YANENKO, A.V., master; SIDORENKO, V.D., inzhener.

Simple method for locating cable damage. Elek.sta. 25 no.2:55-56 F '54. (MLRA 7:2)
(Electric cables)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

SOV/121-58-10-12/25

AUTHORS: Shishmareva, L.B.,
Yakovleya, O.Ya.,
Bur'yanenko, V.N.

TITLE: The Phosphate Treatment of Ferrous Metals (Fosfatirovaniye chernykh metallov)

PERIODICAL: Stanki i Instrument, 1958, Nr 10, pp 32-33 (USSR)

ABSTRACT: Phosphate coatings for ferrous metals as a base for paint are discussed. Compositions of phosphate treatment solutions are listed. Composition No.1 contains per litre 38 g of zinc monophosphate, 76 g of NaNO, 2.7 g of sodium fluoride, 5 g of iron shavings. Total acidity 28-30 points, free acidity 2.7 - 3 points, suitable for bath and spray treatment at 82°C. Composition No.2 contains 30 g "Mazhef" salt (mixture of monophosphates namely manganese monophosphate, $Mn(H_2PO_4)_2$ and iron monophosphate $Fe(H_2PO_4)_2$), 60 g zinc nitrate, 4-5 g sodium nitrate, 0.1 - 1.0 g phosphoric acid. Total acidity 36-41 points, free acidity 3-5 points, suitable for bath treatment only at 40-50°C. Composition No.3 contains 100 g zinc monophosphate, 2 g sodium nitrate and 6 g sodium fluoride.

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SOV/121-58-10-12/25

The Phosphate Treatment of Ferrous Metals

Composition No.4 contains 50 g of "Manzhef" salt, 92 g zinc nitrate, 3 g sodium fluoride, total acidity 65-72 points, free acidity 3.1 - 3.4 points. The last two compositions can be applied in a bath or by brushing on or covering with paste. The phosphate treatment must be followed by painting with laqueur or impregnating with lubricating material within a week

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

SHISHMAREVA, L.B.; BUR'YANENKO, V.N.

Preparations for the simultaneous etching and degreasing of nonferrous metals before coloring. Lakokras. mat. i ikh prim. no. 6:45-48 '60. (MIRA 13:12)
(Nonferrous metals--Finishing)

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L 28531-66 EWP(j)/EWT(m)/T/EWP(t)/ETI IJP(c) RM/WW/JD/WB/GD

ACC NR: AT6013801 (N) SOURCE CODE: UR/0000/65/000/000/0220/0241

61
60
B+1

AUTHOR: Rozenfel'd, I. L.; Zhigalova, K. A.; Bur'yanenko, V. N.

ORG: none

15

TITLE: Physico-chemical and protective properties of polymer film-based paints and lacquers

SOURCE: Korroziya metallov i splavov (Corrosion of metals and alloys), no. 2. Moscow, Izd-vo Metallurgiya, 1965, 220-241

14

TOPIC TAGS: alkyd resin, vinyl chloride, vinylidene chloride, nitrocellulose, polymer, copolymer, electrolyte, specialized coating, permeability measurement/ FL-02 alkyd resin, SVKh-40 vinyl chloride-vinylidene chloride copolymer, NTs nitrocellulose

ABSTRACT: The available information on the mechanism of the protective properties of polymeric coatings is extremely limited despite the large number of studies on this subject. To fill this gap, and considering that valuable data on these properties can be obtained by investigating the penetrability of electrolytes through free films, the authors investigated the ionic permeability of various nonpigmented films and their electric properties of electrolytes. The specimens used were varnish films obtained on the basis of alkyd resin (FL-02), vinyl chloride-vinylidene chloride copolymer (SVKh-40) and nitrocellulose, deposited with a spray gun on a material of specific viscosity. Ohmic resistance and capacitance were measured in the presence of alter-

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ACC NR: AT6013801

nating current with voltage of 20-25 mv and frequency of 500 to 20,000 cps, while the diffusion potentials and the current passing through the film on the application of a constant potential were determined in glass cells consisting of two halves filled with 0.5N NaCl solution between which the investigated film was placed: the rate of motion of ions across the film, considered as a semipermeable membrane, can be determined according to the intensity of the current passing through the electrolytic cell on the application of a specific potential difference between two electrodes. It was found that the films investigated differ in the nature of their electrolyte conductivity: for nitrocellulose and alkyd resin-based films penetration of the electrolyte occurs via the pores, while for the copolymer SVKh-40 it occurs via the material itself. Moisture absorption by a film on metals and its permeability to an electrolyte can be determined from the magnitude and pattern of variation of its capacitance and ohmic resistance: thus, nitrocellulose is the most porous of the coatings investigated and hence its capacitance is the highest while its ohmic resistance is the lowest: this also may be used as a criterion for predicting the future behavior of the investigated material under specified conditions. Orig. art. has: 14 figures, 6 tables and 8 formulas.

SUB CODE: ~~LL~~ 11, 07 / SUBM DATE: 19Jul65/ ORIG REF: 023/ OTH REF: 014

Card 2/2 CC

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURYANOV, A., (Eng)

Author of article, "From the Water Mill to the Atomic Engine." (Vestnik Vozhdushnogo Flota, Moscow, No 3, Mar 54)

SO:: SUM No. 239, 13 Oct 1954

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YANOV, B. P.

Call Nr: AF 1140499

AUTHOR: Bur'yanov, B. P.

TITLE: Magnetoelectric Oscillograph (Magnitoelektricheskiy ostsillograf)

PUB. DATA: Gosudarstvennoye energeticheskoye izdatel'stvo), Moscow-Leningrad, 1952, 240 pp., 7,000 copies

ORIG. AGENCY: None

EDITOR: Kayetanovich, M.M.; Tech. Ed.: Babochkin, S. N. and Larionov, G. Ye.; Reviewer: Lindorf, L. S., Engineer

PURPOSE: The monograph presents basic theory, general descriptions, and principal operational requirements for average technical personnel operating oscillographs.

COVERAGE: The author acknowledges contributions from Stepanov, A. D., Veselov, P. P. and Zvyagintsev, V. A., Engineers of the Mosenergo TsLEM. There are 34 references, of which 33 are Slavic, and 1 a translation from English into Russian.

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BUR'YANOV, B. P.

Feb 53

USSR/Electricity - Oscillographs

"Review of B. P. Bur'yanov's Book 'The Moving-Coil Oscillograph,'" Engr L. S. Lindorf

Elek Sta, No 2, pp 63-64

Reviewer states that Bur'yanov's book ("Magnitelektricheskiy ostillograf," 240 pp, Gosenergoizdat, 1952), despite some deficiencies, fills a long-felt need for literature on oscillography. Book treats operating principles of moving-coil oscillographs, measurements made with them, industrial types, automatic types, and use of oscillographs in research.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BURIYANOV, Boris Petrovich; SAPAROVA, A.L., redaktor; VORONIN, K.B., tekhnicheskiy redaktor

[Electric transformer oil] Transformatornoe maslo. Izd. 3-e, perer. i dop. Moskva, Gos. energeticheskoe izd-vo, 1955. 190 p. (MLRA 8:4)
(Electric transformers)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

BUR'YANOV, B.P.

CHIZHOV, D.G.: KOGTEV, G.I.; LAVRENENKO, K.D.; SPIRIN, S.A.; NEKRASOV, A.M.; IVANOV, M.I.; UFAYEV, M.Ya.; GRISHIN, I.K.; KOSTIN, M.F.; POPOV, V.A.; ZAGORODNIKOV, P.I.; FEDOTOV, P.N.; KAZ'MIN, A.V.; FOMICHEV, G.I.; YERSHOV, P.I.; MESHCHERYAKOV, V.I.; YEFREMOV, S.G.; LEVIN, I.S.; LETUCHEV, L.I.; BELKIN, M.N.; OBOLONKOV, M.I.; BATENIN, B.A.; BUR'YANOV, B.P.; KANATOV, P.I.; KOKOREV, S.V.

Nikolai Alekseevich Andreev. Elek. sta. 27 no.10:62 O '56.
(Andreev, Nikolai Alekseevich, 1897-1956) (MLRA 9:12)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

S/109/60/005/05/021/021
E140/E435

AUTHORS: Bur'yanov, P.D., Buts, V.P., Kolpachev, Yu.I., Zheleznov, L.F. and Kupchinov, N.F.

TITLE: Letter to the Editor: On the Publication of the Article "Ribbon Electron Beams in a Longitudinal Homogeneous Magnetic Field with Arbitrary Degree of Cathode Screening"

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Nr 5, p 880 (USSR)

ABSTRACT: A brief letter indicates that Alyamovskiy's results (Ref 1) have been previously obtained by Perev at the Taganrog Radio Engineering Institute (Ref 2,3,4). There are 4 Soviet references.

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APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710010-2

ACCESSION NR: AP4043674 S/0109/64/009/008/1405/1409

AUTHOR: Bur'yanov, P. D.

TITLE: One problem of space charge and its application to designing screened 2-anode ribbon-beam electron guns

SOURCE: Radiotekhnika i elektronika, v. 9, no. 8, 1964, 1405-1409

TOPIC TAGS: space charge, space charge distribution, electron gun, ribbon beam electron gun, SHF device

ABSTRACT: The problem of the motion of ribbon-beam electrons in an electrostatic field with a constant potential gradient and with an allowance for the space charge is theoretically solved. The beam can be compressed in the interanode region, with $\alpha > 1 + 2{,}84\sqrt{A'}b$, where $\alpha = U_2 / U_1$, $b = d / y_0$, $A = Ib^2 y_0 / 4\sqrt{2\varepsilon}(e/m)^{1/2} U_1^{3/2}$, $A' = A / b^2$; thus, high-current-density beams are possible. A formula (18) is developed which permits finding the position of the beam minimum thickness

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ACCESSION NR: AP4043674

along the z-axis if the space-charge parameter A', the reduced interanode distance b, and the anode potentials relation (see above inequality) are specified. Another formula (21) is developed for finding the position of the second anode along the z-axis if the beam minimum thickness is located in the plane of the second anode. "The author wishes to thank N. D. Porev for his useful discussions in the course of preparation of this article." Orig. art. has: 2 figures and 21 formulas.

ASSOCIATION: none

SUBMITTED: 03May62 ENCL: 00

SUB CODE: EC NO REF SOV: 006 OTHER: 001

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