

BYDZOVSKY, J., inz.; HUSA, V., inz. dr. DrSc.

~~BYDZOVSKY, J., inz.; HUSA, V., inz. dr. DrSc.~~
Noncontact direct-current motor. El tech sbor 53 no.10:574 0 '64.

1. State Research Institute of Heavy Current Engineering, Bechovice.

ACC NR: AP6035301 (A) SOURCE CODE: CZ/0078/66/000/009/0019/0020

AUTHOR: Novotny, Vladimir (Engineer; Tabor); Husa, Vaclav (Doctor; Engineer; Doctor of sciences; Pecky); Kriz, Josef (Prague); Bydzovsky, Jan (Engineer; Zasmukh); Ladnar, Josef (Prague); Luxa, Frantisek (Horni Pocernice)

ORG: none

TITLE: Ignition equipment for jet and turbojet engines. CZ Pat. No. PV 1920-65

SOURCE: Vynalezy, no. 9, 1966, 19-20

TOPIC TAGS: power plant component, fuel igniter, engine ignition system, jet engine, jet engine component, turboprop engine, turboprop engine component, spark plug, low voltage spark plug

ABSTRACT: Ignition equipment, especially for use with aircraft jet and turboprop engines, is introduced. It has a low-voltage spark plug and is fed by d-c supply. The secondary winding of the induction coil is connected through the rectifier to the capacitor. The sparking circuit is connected in parallel to the capacitor and connected in series with the low-voltage spark plug. One end of the primary winding of the induction coil is connected to the first pole of the d-c supply. The other end

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ACC NR: AP6035301

is connected to the outlet of the common collector for the composite two-step transistor and the outlet of the emitter of the output transistor which is connected to the other pole of the d-c supply and another resistor which is connected through the other pole of the d-c supply. [KS]

SUB CODE: 21/SUBM DATE: 24Mar65/

Card 2/2

CZECHOSLOVAKIA

Z. HORAKOVA, J. MURATOVA, V. PUJMAN and V. BYDZOVSKY, Pharmacy and Biochemistry Research Institute (Vyskumny Ustav pro farmacii a biochemii) Prague.

"Sulfonamides with Prolonged Antibacterial Effectiveness. Pharmacology of Sulfamethoxydine."

Prague, Ceskoslovenska Farmacie, Vol 12, No 2, Feb 63; pp 73-77.

Abstract [English summary modified]: Authors' "sulfamethoxydine" which is 2-sulfanilamido-5-methoxypyrimidine was found superior long-acting sulfonamide to sulfamethoxypyrimidine, sulfaphenazol and sulfadimethoxine. LD50 is lower (30 Gm./Kg. orally in mice did not kill a single one of 10); potentiation of CNS stimulants is lower. Only signs of potential toxic effects increased weight of thyroid and kidneys with chronic treatment group of animals; drug is also diuretic. Table, 3 Czech, 1 Swiss, and 1 Soviet reference.

1/1

BYDZOVSKY, VIKTOR

POSPISIL, Vaslav, prim. MUDr; BYDZOVSKY, Viktor, prim. MUDr

Eosinophil leukemoid reaction in bacterial endocarditis. Cas.lek.
cesk. 91 no.47:1408-1409 21 Nov 52.

1. Z interniho oddeleni a hematologicke laboratore prosektury OUNZ
v Koline.

(ENDOCARDITIS, BACTERIAL, blood in,
eosinophil leukemoid reaction)

(EOSINOPHILS,
leukemoid reaction in bact. endocarditis)

BYDZOVSKY, Viktor, MUDr.; DUDEK, Jaroslav, RNDr.

Distribution of Providencia. Cesk. epidem. mikrob. imun.
5 no.2:101-102 Apr 56.

1. Kontrolni ustav farmaceuticky v Praze.

(BACTERIA,

Providencia, isolation in laboratory animals (Cz))

BYDZOVSKY, V.; SIMEK, A.

Antiphage activity of some Actinomycetes. Folia microbiol 5
no.1:46-49 '60. (FEAI 9:6)

1. Research Institute of Pharmacy and Biochemistry, Prague.
(Actinomycetes)

ZNAMENACEK, K.; JANATA, V.; BYDZOVSKY, V.; HORADKOVA, Z.

New methods of prophylaxis against staphylococcal infections in the newborn. Cesk pediat 17 no.2:177-180 F '62.

1. UPMD Praha Podoli, reditel ustavu doc. dr. M. Vojta, VUFB Praha Vinohrady, reditel inz. dr. O. Nemecek.

(STAPHYLOCOCCAL INFECTIONS in inf & child)
(INFANT NEWBORN diseases)

BRONCOVA, O.; BYDZOVSKY, V.

Effect of some 5-aryl-pyrimidines on influenza, vaccinia and Newcastle disease viruses. Cesk. epidem. 11 no.3:179-188 My '62.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

(PYRIMIDINES pharmacol)
(INFLUENZA VIRUSES pharmacol)
(VACCINIA virol)
(NEWCASTLE DISEASE virol)

HORAKOVA, Z.; MURATOVA, J.; PUJMAN, V.; BYDZOVSKY, V.

Sulfonamides with supposed antibacterial activity. Pharmacology of
sulfamethoxydine. Cesk. farm. 12 no.2:73-77 F '62.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.
(SULFONAMIDES) (PHARMACOLOGY) (DOGS)

BYDZOVSKY, V.; BRONCOVA, O.

Disinfectant effect of quaternary salts on viruses in vitro.
I. Comparison of the disinfectant effect of Ajatin, Septonex,
VUFB-3555 and Bradosol on A PR-8 influenza virus. Cesk. epidem.
13 no.3:165-174 My'64

1. Vyzkumny ustav pro farmacie a biochemii, Praha.

BUDESINSKY, Z.; SLUKA, J.; BYDZOVSKY, V.

Antitubercular drugs. XIV. Isonicotinoylhydrazones of some phenylglyoxylic acids. Cesk. farm. 13 no.7:345-349 S '64.

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

ERONCOVA, O.; BYDZOVSKY, V.

The disinfective effect of quaternary ammonium compounds on viruses in vitro. II. Comparison of the disinfective effect of Ajatin, Septonex, substance VUFB - 3555 and Bradosol on vaccinia and WEE viruses. Cesk. epidem. 14 no.2:106-116
Mr '65

1. Vyzkumny ustav pro farmacii a biochemii, Praha.

I 7000/65 EMO(1)/PSS-2/EMO(1)/ENT(1)/FS(V)-3/EMO(V)/EMO(a)/EMO(c) Pa-li/Fb-1
 AFPG(a)/AEDG(a)/AFET/AFPG(b)/SSD/AMD ID
 S/0238/64/010/004/0554/0557
 ACCESSION NR: AP4043061

AUTHOR: Dudaryev, V. P.; Byeloshchits'kiy, P. V.

TITLE: Effect on the organism of partial weightlessness due to immersion in water

SOURCE: Fiziologichnyy zhurnal, v. 10, no. 4, 1964, 554-557

TOPIC TAGS: weightlessness, partial weightlessness, water immersion, cardiac activity, respiration, hemoglobin, conditioned reflex activity

ABSTRACT: The authors review the literature dealing with the effects of immersion in water on cardiac function and report the results of two personal experiments in which the subject was immersed (with the head above water) for 9 and 44 hrs., respectively, at a temperature of 32-35C. Measurements of the EKG, blood pressure, pulmonary ventilation, oxygen saturation of the blood, erythrocyte count, leukocyte count, hemoglobin and conditioned reflex activity showed only slight changes after 9 hrs. (systolic blood pressure decreased by 20 mm Hg, diastolic increased by 9 mm Hg, pulse rate decreased by 9 beats/min., pulmonary ventilation decreased from 7 to 5 liters). On prolonged immersion, the pulse rate, number of respirations per minute, blood pressure and pulmonary ventilation tended to decrease, while the cell count and hemoglobin increased somewhat and the oxygen saturation of the

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ACCESSION NR: AP4043061

blood remained unchanged. There were no significant changes in conditioned reflex activity, and the EKG showed only an inverted T-wave. Immediately after the end of the experiment, the changes in heart rate, blood pressure and respiration were reversed (over-compensation), and the subject felt weak, but his functions became completely normal during the first night. Orig. art. has: 2 tables.

ASSOCIATION: none

SUBMITTED: 25Apr63

ENCL: 00

SUB CODE: PH

WO REF SOV: 005

OTHER: 006

Card 2/2

BYGAYENKO, P.A., kand.med.nauk

Neurotrophic disorders of the osteoarticular apparatus in lum-
bosacral radiculitis. Vrach. delo no.11:65-69 N'63
(MIRA 16:12)

1. Kafedra nervnykh bolezney (zav. - prof. F.F.Kharchenko)
Khar'kovskogo instituta usovershenstvovaniya vrachey i TSen-
tral'naya psikhonevrologicheskaya bol'nitsa Ministerstva
putey soobshcheniya.

LIFSHITS, Ye.V. [Lifshyts', IE.V.]; YERKO, V.F. [IErko, V.F.];
BYGAYEVA, N.I. [Buhaiova, N.I.]; MOSOVA, L.N. [Mosova, L.M.]

Spectrum analysis of some pure metals. Ukr.fiz.zhur. 6 no.6:846-850
N-D-61. (MIRA 16:5)

1. Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.
(Metals) (Spectrochemistry)

EXCERPTA MEDICA Sec 17 Vol 5/9 Public Health Sept 59

2745. CONIOMYCOSES - O koniomykosách - Bygyi B. Městská Poliklin.,
Czepelu (Budapest, Madarsko) - PRACEV. LEK. 1958, 10/3 (200-203)
illus. 2

In a group of 25 workers with rice straw cough with black gelatinous expectoration, oppression in the chest and sometimes also respiratory difficulties were found. Some showed rales at the base of the lungs, There was exaggeration of the hili and of the peribronchial spaces. In some cases, a micro- and macro-nodular pattern was shown. Analysis of dust of rice yielded a high percentage of free and bound sillicic acid and also moulds and bacteria. The dust of rice has sharp edges and inflicts microtraumas, its content of SiO₂ has chemical influence and prepares the invasion of *Aspergillus niger*. Pulmonary disease develops in the lungs of workers with rice straw. Perhaps the best name for all similar diseases caused by plant dust is coniomycosis.

Prochazka - Prague (XV, 6, 17, 19)

KUZ'MA, Yu.B.; GLALYSHEVSKIY, Ye.I.; BYK, D.S.

Crystalline structures of some ternary compounds in the
Nb - Co - Si system. Zhur. strukt. khim. 5 no.4:562-567
Ag '64. (MIRA 18:3)

1. L'vovskiy gosudarstvennyy universitet imeni Ivana Franko.

0776.1

Chem

Coprecipitation of microgram quantities of arsenic with magnesium ammonium phosphate. V. A. Nazarenko and G. L. Byk. *Ukrain. Khim. Zhur.* 22, 234-5 (1956) (in Russian). Arsenic (0.2-9%) was detd. by copptg. it with $MgNH_4PO_4$. From the ppt. As was liberated as arsine, then oxidized to arsenic acid with a mixt. of $HgCl_2$ and MnO_2 ; molybdenum blue (I) in the presence of hydrazine was formed. I was extd. with isoamyl alc., and detd. colorimetrically. There was a direct relation between As and I. M. Hosh

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PM
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VINAROV, I.V.; BYK, G.I.

Distribution of perchloric acid between water and some ethers,
ketones, and alcohols. Ukr. khim.zhur. 29 no.9:929-932 '63.
(MIRA 17:4)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR,
Laboratorii v Odesse.

VINAROV, I.V.; ORLOVA, A.I.; BYK, G.I.; KISLITSA, N.F.

Study of zirconium thiocyanide complexes in a perchloric medium
by the extraction method. Ukr. khim. zhur. 30 no.7:758-761 '64
(MIRA 18:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR,
laboratorii v Odesse.

CHEREVKA, P.P.; MALYUTINA, T.Z.; KOSTIK, N.I.; BYK, I.I.; MIKITYUK, L.P.;
KISELEVA, M.I.

Analyzing the composition of high-boiling hydrocarbons in the gases
of the oxidative pyrolysis of methane. Khim. prom. 40 no.8:582-585
Ag '64. (MIRA 18:4)

BYK, M.M. aspirant

Use of ethylnorantiffeine in the treatment of respiratory disorders
in early postoperative period. Vest. khir. 94 no.2:86-88 F '65.

(MIRA 18:5)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. V.I. Kolesov)
1-go Leningradskogo meditsinskogo instituta imeni Pavlova i gruppy
farmakologii tsentral'noy nervnoy sistemy (rukovoditel' - starshiy
nauchnyy sotrudnik Yu.S. Borodkir.) otdela farmakologii (zav. otdelom
- prof. S.V. Anichkov) Instituta eksperimental'noy meditsiny AMN
SSSR.

Byk, S. Sh.

AID P - 3930

Subject : USSR/Chemistry
Card 1/1 Pub. 152 - 13/19
Authors : Shcherbak, L. I., S. Sh. Byk, and M. E. Aerov
Title : Phase equilibria in the system phenol-water-~~L~~-methylstyrene.
Periodical : Zhur. prikl. khim. 28, 10, 1120-23, 1955
Abstract : The liquid-vapor equilibrium of the system phenol-water-~~L~~-methylstyrene was attained in 1.5-2 hrs. An azeotropic mixture containing 7% phenol, b.p. 162°C, was obtained. Two tables, 5 diagrams, 5 references, 3 Russian (1946-52).
Institution : None
Submitted : Ap 9, 1954

BYK, S. SA.

The influence of unsaturated hydrocarbons on the activity of solid industrial desiccants. M. L. Vlodayets and S. Sh. Byk. *Gazovaya Prom.* 1956, No. 5, 35-7. — The drying of gas mixts. with the use of desiccants of the Al_2O_3 type is a universal practice. Their selection, however, in industrial plants for drying mixts. contg. unsatd. hydrocarbons, e.g. products of pyrolysis, often gives rise to serious trouble through the lowering of the drying activity, which in turn disturbs the whole tech. process. The cause of this lowering is, apparently, the formation of polymers of the olefins and of the diene hydrocarbons present in the gas; both Al_2O_3 and the silicates of Al are well-known catalysts for the polymerization of these substances. The mechanism of the reactions during the drying cycle is probably as follows: (1) deposition of resins on the desiccant during the adsorbent stage and (2) their conversion to polymerization products during regeneration. These possibilities were investigated. Drying agents selected for test were (1) an activated clay (this and the following bear trade-mark names); (2) a bauxite; (3) a calcined "carrier"; (4) an activated Al_2O_3 ; (5) an Al silicate. Gases contg. the following unsatd. hydrocarbon contaminants (about 4.5%) in N_2 were used in the expts.: (a) ethylene; (b) propylene; (c) butylene; (d) divinyl; and (e) cyclopentadiene. Test conditions were: pressure 30 atm., temp. 18° to 22°, on stream 16 to 18 hrs., gas velocity 0.15 l./sq. cm. per min., and regeneration in a stream of N_2 at 250°. Controls with moist N but without hydrocarbons were run in parallel. After 8 or 10 cycles the moisture content of the gas and the dynamic water capacity of the desiccant were detd. In the use of driers 1 to 4, only divinyl and pentadiene cause polymerization with deterioration of the mass. On the other hand, the Al silicate No. 5 cannot be recommended for use with gas mixts. contg. any of the unsatd. C₄ or higher hydrocarbons. H. L. Olin

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 M. A. YOUTZ
 dec 1956

WMA

Byk S. Sh.

B-8

USSR/Thermodynamics - Thermochemistry. Equilibria.
Physical-Chemical Analysis. Phase Transitions.

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 18537

Author : L.I. Shcherbak, S.Sh. byk, M.E. Aerov.
Title : Phase Equilibria in Phenol - Water - α -Methylstyrene System.

Orig Pub : Zh. prikl. khimii, 1956, 29, No 3, 353-360

Abstract : In continuation of earlier published work (RZhKhim, 1956, 77559), the equilibrium liquid - liquid in the system phenol - water - α -methylstyrene was studied. The binodal curves were obtained by the method of "cloud tests"; the mixtures were titrated with water. Binodals at 20, 45 and 70° and the composition of equilibrium phases at 45° were obtained. It was noted that the rule of D.F. Tarasenkov (Zh. fiz. khimii, 1940, 14, 589) was not observed in application to the studied ternary system, as well as to the systems phenol - water - naphthalene and

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USSR/Thermodynamics - Thermochemistry. Equilibria.
Physical-Chemical Analysis. Phase Transitions.

B-8

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 18537

phenol - water - benzoic acid, i.e., the conoids did not intersect at one point situated on the continuation of the triangle base; the authors connected it with the specificity of the system (presence of a small homologous field in the bottom right hand corner of the triangular graph). The equilibrium liquid - vapor (under atmospheric pressure) was also studied. It was found that the rise of water content in the liquid equilibrium phase does not practically change the content of α -methylstyrene in the vapor phase.

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Phase equilibria in the system phenol-water- α -methylstyrene. III. S. Sh. Byk, R. G. Stroičeva, and M. S. Anov. *Zhur. Priklad. Khim.* 29, 1830-1(1956); cf. C.A. 30, 14357c. --Previous work (*loc. cit.*) was extended to the region where the condensate of the vapor phase at equilibrium is in 2 layers. The vapor phase at equilibrium at 45° and 70° condensed in 2 layers; the upper phase consisted of α -methylstyrene and the lower phase of H₂O. The H₂O content in the upper layer did not exceed a few tenths of a percent, and only with higher phenol concns. (up to 35%) did the H₂O content increase to 4%. The lower layer contained less than 0.2-0.8% α -methylstyrene with phenol 4-6%. Increasing the temp. from 45 to 70° did not affect the distribution between the 2 layers.

L. Benowitz

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154K, S. Sh.
USSR/Chemistry - Synthetic Alcohols

Card 1/1 Pub. 147 - 7/35

Authors : Byk, S. Sh., and Shcherbak, L. I.

Title : Liquid-vapor equilibrium of a phenol-methylethylketone system

Periodical : Zhur. fiz. khim. 30/1, 56-60, Jan 1956

Abstract : The refractive indices and the density of binary phenol-methylethylketone mixtures were measured at various pressures. The phase equilibria were measured at pressures of 200, 360 and 760 mm of mercury column. The boiling point of the binary system was established by means of a Sventoslavskiy ebulliometer. The results obtained are shown in tables. Nine references: 3 USSR, 2 Eng., 2 Fr., 1 USA and 1 Germ. (1898-1953). Tables; graphs; drawing.

Institution : Inst. of Synthetic Alcohols and Organic Products, Moscow

Submitted : April 19, 1955

BYK, S. Sh.

USSR/ Physical Chemistry - Thermodynamics. Thermochemistry B-8
Equilibrium. Physicochemical Analysis. Phase Transitions.

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7451

Author : Byk, S. Sh., Shcherbak, L.I., and Stroiteleva, R.G.

Title : Phase Equilibria in the Phenol-Water-Methyl Ethyl
Ketone System

Orig Pub : Zh. fiz. khimii, 1956, Vol 30, No 2, 305-312

Abstract : Mutual solubility and liquid-vapor equilibrium in the ternary system phenol-water-methyl ethyl ketone have been investigated. The composition of the liquid mixtures was determined by measuring the densities and indices of refraction. The position of the binodal curves at 45 and 20° was established by the "turbidity" method and the composition of the conjugated phases, by the separation of the heterogeneous mixture and the measurement of the indices of refraction of both layers. Liquid-vapor equilibria were investigated with the

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USSR/ Physical Chemistry - Thermodynamics. Thermochemistry. B-8
Equilibrium. Physicochemical Analysis. Phase Transitions.

Abs Jour : Referat Zhur - Khimiya, No 3, 1957, 7451

apparatus with thermo-siphon circulation of the vapor-liquid mixture over the surface. It is shown that changes in the water content of the system do not influence the distribution of the volatile component between the liquid and vapor phases.

For the preceding communication, see RZhKhim, 1956, 67855.

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 9 1-4E 2C
 Phase equilibria in the phenol-isopropylbenzene sys-
 tem in the presence of α -methylstyrene. S. Sh. Byk and
 R. G. Sirochaya (Inst. Synth. Alcohols and Organic
 Compds., Moscow). *Zhur. Fiz. Khim.* 30, 2361-6 (1956).
 Refractive indices and dn of the systems PhOH-isopropyl-
 benzene and the PhOH-isopropylbenzene- α -methylstyrene
 at 45°, and the vapor-liquid equil. conditions of the PhOH-
 isopropylbenzene system at 760 mm. pressure and 150.8-
 178.0° were detd. The presence of small amts. of α -methyl-
 styrene (up to 5%) is practically without effect on the dis-
 tribution of the more volatile compds. in the phases at equil.
 W. M. Sisibers

Am any

BVK, S. Sh.

Investigation of the process of regenerating gas desiccants of the adsorbent/199. M. L. Vlodavets and C. Sh. Byk. *Gorodskaya Zhurn* 1957, No. 1, 20-31. Exptl. studies in the regeneration of an AlCl₃ gas desiccant were based on the following relationships, developed from heat and material balances: (1) $q' = C_p V d a (t_1 - t_2) / \omega g + C_d (t_1 - t_2)$ and (2) $1/k = g / C_p d (t_1 - t_2) + C_d / \omega C_p$, where ω is the speed of desorption in g./min. sq. cm., g the heat of desorption in cal./g., C_p the cv. sp. heat of the air blown in during the regeneration, d the wt. of one l. of air under standard conditions, t_1 and t_2 are temps. of entering and leaving air, C_d is the sp. heat of the desiccant, V the vol. velocity of the air under standard conditions in l./min. sq. cm., and a the wt. in g. of water desorbed by 1 g. of the adsorbent. A plot of $1/k$ vs. $1/(t_1 - t_2)$ is a straight line whose slope is $C_d / \omega C_p$ and intercept is $g / C_p d$, where g is 1150 cal./g. is twice the heat of vaporization. The maximum value of a lies in the range 100-170%. With the use of equations 1 and 2, needs of desorption at different temps. and water contents can be calculated.

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RM

B.V.K., S. S.

15383. EXPERIMENTS ON CONDITIONS FOR FORMATION OF HYDRATES OF CRAKED GASES. By S. S. B. (Gaz. Prom. (Gas Ind., Moscow), 1957, (4), 1163). abstr. in Chem. Abstr., 1957, vol. 51, 11634. The effect of hydrate formation in a gas product of pyrolysis of the alkylbenzene C₁₀H₈ was studied: - hydrogen 1.0, methane 4.4, ethylene 21.0, propane 40.0, propylene 5.3, propane 0.9, butene, butane and C₆H₆. For pressures of 20.5, 25.3, 31.0, 36.0, 40.5, 45.0, and 50.5 atm the corresponding temperatures at which hydrates were formed were 7.8, 9.2, 10.8, 12.2, 12.7, 13.2, and 13.8°, respectively. For the pressure interval 20-50 atm the relation $t = 0.27P + 2.4$ is observed, between 25 and 50 atm, $t = 0.15P + 8.5$. The simple apparatus used, illustrated with a drawing, consists of a thermostat in which a cooling coil, a gas saturator, a glass reaction vessel in which the formation of hydrates is observed, and a heat exchanger is immersed.

C.A.

BYK, S. SH-

KIRANOVA, R.P.; VLADAVETS, M.L.; BYK, S.Sh.

Absorption method for determining the moisture content of mixtures
of hydrocarbon gases. Gaz. prom. no. 4:44-47 Ap '58. (MIRA 11:4)
(Gases--Analysis)

KIRSANOVA, R.P.; BYK, S.Sh.

Liquid - vapor equilibrium in an acetaldehyde - methanol system
at atmospheric pressure. Zhur. prikl. khim. 31 no.10:1610-1612
0 '58. (MIRA 12:1)
(Acetaldehyde) (Methanol) (Phase rule and equilibrium)

KIRSANOVA, R.P.; BYK, S.Sh.

Liquid - vapor equilibrium in the system allyl alcohol - isopropyl alcohol at atmospheric pressure. Zhur. prikl. khim. 33 no.12:2784-2786 D '60. (MIRA 14:1)

(Allyl alcohol)

(Isopropyl alcohol)

BYK, S.Sh.; KIRSAKOVA, R.P.

Separation of certain hydrocarbon mixtures by means of diffusion
through nonporous organic membranes. Zhur. fiz. khim. 34 no.12:
2844 D '60. (MIRA 14:1)

(Diffusion)

(Membranes (Chemistry))

KIRSANOVA, R.P.; BYK, S.Sh.

Liquid vapor equilibrium in the system acrolein - acetone at the
pressure of 200 mm. of Hg. Zhur.prikl.khim. 35 no.1:198-199 Ja
'62. (MIRA 15:1)
(Acrolein) (Acetone) (Phase rule and equilibrium)

BYK, S.Sh.; SEREBRENNAYA, I.I.; SHCHERBAKOVA, P.B.

Isothermal equilibrium liquid - vapor in the system water -
acetaldehyde. Khim.prom. no.7:507-509 J1 '63. (MIRA 16:11)

5-19728-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/P-4/Pb-4 RM

ACCESSION NR: AP4049725

5/0318/64/000/001/0032/0034

AUTHOR: Kirsanova, R. P.; By*ik, S. Sh.

TITLE: Effect of diene hydrocarbons on the desiccating activity of synthetic zeolites

SOURCE: Neftepererabotka i neftekhimiya, no. 1, 1964, 32-34

TOPIC TAGS: synthetic zeolite, desiccating activity, nitrogen drying, olefin, diene hydrocarbon, divinyl/VNINP zeolite, Linde zeolite

ABSTRACT: The purpose of this work was to investigate the inhibitory role of divinyl blocking by adsorption on the dehydrating properties of synthetic zeolites with a pore size of 1A. Divinyl concentrations of 0.1 and 0.01% by volume in nitrogen to be dried were run through a laboratory installation, simulating the divinyl concentrations in cracking and pyrolysis gases. Comparisons between the Soviet VNINP 4A and the western Linde 4A synthetic zeolites were drawn, plotted on curves and tabulated. The laboratory installation is described. It was found that the VNINP product prepared by the Gor'kovskaya opyt'naya baza (Gor'kiy Experimental Base) is superior to the Linde material in its moisture adsorbing capacity beginning with the 20th cycle of adsorption/regeneration, but inferior during the first 20 cycles, for a 0.1% divinyl dilution. From all these tests it is evident that even

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1. 19728-65
ACCESSION NR: AP4049726

a slight admixture of divinyl to the gas being desiccated clogs the zeolite very rapidly and impairs its drying capacity. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtoy i organicheskikh produktov (Scientific Research Institute of Synthetic Alcohols and Organic Products)

SUBMITTED: 00

ENCL: 00

SUB CODE: 00

NO REF SOV: 003

OTHER: 001

Card

2/2

L-6771-65 ENT(m)/EPT(n)-2/EPQ(q)/EWP(b) Pad/Pu-4 ASD(a)-5/AS(mp)-2/AFWL/
ASD(f)/ASD(m)-3/RAEM(t) JD/EH/JG

ACCESSION NR: AP4044273

S/0192/64/005/004/0582/0587

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AUTHOR: Kuz'ma, Yu. B.; Gladyshevskiy, Ye. I.; Byk, D. S.

TITLE: Crystal structures of some ternary compounds in the Nb-Co-Si system

SOURCE: Zhurnal strukturnoy khimii, v. 5, n. 4, 1984, pp. 562-567

TOPIC TAGS: niobium, cobalt, silicon, phase diagrams, crystal structure, x-ray diffraction, ternary compound

ABSTRACT: This work was undertaken in order to investigate the ternary compounds in the Nb-Co-Si system and in particular to study in detail the compound Nb₆Co₂₆Si₇. Because the phase diagram of the Nb-Co system in the Nb rich region was not investigated up to the present time, alloys of Nb and Co containing from 33 to 90 atom % of Nb were investigated. The alloys were prepared from metal powders of the following purities: Nb -- 99.3%; Co -- 99.26% and Si -- 99.99%. Each batch was thoroughly mixed, pressed into cylindrical specimens which were melted in aluminum crucibles in a hydrogen atmosphere by means of an induction

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ACCESSION NR: AP4044273

furnace. X-ray structural analysis was conducted by the powder method using chromium radiation and 57.3 mm diameter camera. The lattice constant of compounds were determined by photographing the reciprocal lattice in the Preston's camera using silver as a standard. The microstructural analysis were conducted with a MIM-6 microscope. A mixture of concentrated nitric and hydrofluoric acids were used for etching the specimens in order to bring out the microstructure. The x-ray pattern of homogenous Nb_3Co_2Si alloy was indexed as the face-centered cubic lattice. The lattice constant $a = 11.196 \pm 0.003 \text{ \AA}$. The structural symmetry composition and the magnitude of the lattice constant indicate the possibility of structure of the Mn_3Ni_2Si type. The calculated and observed intensities are in good agreement indicating the structure. The x-ray pattern of almost homogenous Nb_2Co_3Si alloy was indexed on hexagonal syngony when $c/a = 1.62$. The absence of $00l$ and hhl with odd l indicates the space group $P6_3/mmc(196)$, which includes $MgZn_2$ type structure and its superstructure Mg_2Cu_3Si . Precise determination of lattice constants yields $a = 4.794 \pm 0.002$, $c = 7.760 \pm 0.003 \text{ \AA}$, $c/a = 1.619$. Mg_2Cu_3Si type structure of Nb_2Co_3Si (λ_1 phase) was indicated by intensity calculations. It was found that $Nb_8Co_{16}Si_{17}$ has a

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structure of the type $Mg_8Cu_{16}Si_7$ with the following parameters: $\chi_e = 0.192$, $\chi_f = 0.168$ and $\chi_{f_2} = 0.377$. "The preliminary portion of this work was conducted with the participation of V. Ya. Markov. The authors express their gratitude to P. I. Kripyakevich for the discussion of this work." Orig. art. has: 4 tables.

ASSOCIATION: L'vovskiy gosudarstvennyy universitet im. I. V. Franko (L'vov State University)

SUBMITTED: 17Mar63

DATE ACQ: 17Sep64

ENCL: 00

SUB CODE: IC

NO REF SOV: 007

OTHER: 007

Card 3/3

KIRSANOVA, R.P.; BYK, S.Sh.

Using synthetic zeolites for deep drying of propylene. Nefteper. 1
neftekhim. no.6:35-39 '65. (MIRA 18:7)

1. NIISS.

FOMINA, V.I.; BYK, S.Sh.; IVANOVSKAYA, G.F.; SKUR'YAN, E.N.

Vapor-liquid equilibrium in the system isopropyl alcohol - propane
propylene fraction in the region of small concentrations of isopropyl
alcohol. Khim.prom. 41 no.7:509-510 JI '65.

(MIRA 18:8)

BYK, S.Sh.; FOMINA, V.I.; SKUR'YAT, E.N.

Data on the equilibria of the hydrates of propylene and its mixtures.
Gaz. prom. 10 no.8:30-32 '65. (MIRA 18:9)

SEREBRENNAYA, I.I.; BYK, S.Sh.

Vapor-liquid equilibrium in the system ethyl alcohol - allyl
alcohol in the presence of water. Khim. prom. 42 no.9:669-
674 S '65. (MIRA 18:9)

MATVEYEV, Vitaliy Nikolayevich; MATVEYEV, Nikolay Mikhaylovich;
SHASHINA, V.N., red.; BYK, T.N., red.

[Problems in mathematics] Sbornik zadach po matematike.
Kazan', Izd-vo Kazanskogo univ., 1965. 145 p.
(MIRA 18:7)

NUZHIN, Mikhail Tikhonovich; IL'INSKIY, Nikolay Borisovich; EYK,
T.N., red.; AKSENT'YEV, L.A., red.

[Methods for constructing the underground outline of
hydraulic structures; inverse boundary problems in flow
theory] Metody postroeniya podzemnogo kontura gidrotekh-
nicheskikh sooruzhenii; obratnye kraevye zadachi teorii
fil'tratsii. Kazan', Izd-vo Kazanskogo univ., 1963. 136 p.
(MIRA 17:11)

GAGAYEV , B.M., prof., red.; BYK, T.N., red.

[Collection of postgraduate works; mathematics, mechanics,
physics] Sbornik aspirantskikh rabot; matematika, mekhanika,
fizika. Kazan', Izd-vo Kazanskogo univ., 1964. 179 p.
(MIRA 18:3)

1. Kazan. Universitet.

SULEYMANOV, Ismagil Gadiyevich; ALEKSEYEV, A.M., prof., nauchn.
red.; BYK, T.N., red.

[Structural and physical properties of protoplasm and its
components as related to the problem of frost resistance
of cultivated plants] Strukturno-fizicheskie svoystva pro-
toplazmy i ee komponentov v svyazi s problemoi vrozoz-
ustoichivosti kul'turnykh rastenii. Kazan', Izd-vo Ka-
zanskogo univ., 1964. 199 p. (MIRA 18:4)

1. Zaveduyushchiy kafedroy fiziologii rasteniy i mikro-
biologii Kazanskogo gosudarstvennogo universiteta imeni
V.I.Ul'yanova-Lenina (for Alekseyev).

RATNER, Aleksandr Yur'yevich; BYK, T.N., red.

[Cervical migraine] Sheinaia migren'. Kazan', Izd-vo
Kazanskogo univ., 1965. 197 p. (MIRA 18:10)

S/130/60/000/012/010/013
A006/A001

AUTHOR: Bykadorov, A. T., Senior Master of the Rolling Shop

TITLE: Finishing Groove for Rolled Wire

PERIODICAL: Metallurg, 1960, No. 12, p. 29

TEXT: The size of rolled wire produced on the "270" wire rolling mill of the "Krasnaya Etna" Plant, exceeded considerably the established tolerances (± 0.5 mm for ordinary steels, and ± 0.4 mm for spring steels). The main deficiency of the wire was its oval shape. To improve the wire shape the cutting of grooves for the finishing stand rolls was modified. Previously the grooves were cut using one plug gage. Such a groove was rapidly worn out and its widening allowance was too high. Presently the roll grooves of the finishing stand for rolling 6.5 - 8 mm diameter wire are cut with the aid of two plug gages whose dimensions in mm are as follows:

Wire diameter	6.5	7.0	8.0
Plug gage diameter	6.5; 7.1	7.0; 7.6	8.0; 8.6

The accuracy of the wire shape during rolling on the finishing stand depends also on the magnitude of the gap between the rolls, in particular on stands with cast

Card 1/2

Finishing Groove for Rolled Wire

S/130/60/000/012/010/013
A006/A001

iron frames and pads. Therefore the gap was diminished from 1.2 to 0.8 mm. The use of the new finishing grooves reduced the output of poor quality wire by twice.

ASSOCIATION: Zavod "Krasnaya Etna" (The Krasnaya Etna Plant)

Card 2/2

YUKHVETS, I.A.; PETROV, M.N.; BUSYGIN, N.N.; BELIK, V.F.;
BYKADOROV, A.T.

Hardening of rolled wire rod from the rolling temperature
by water cooling prior to coiling. Stal' 23 [i.e. 24] no.4:
364-366 Ap '64. (MIRA 17:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii im. Bardina i zavod "Krasnaya Etna".

BYKADOROV, A.T.

Changes in the design of ribbed grooves. Metallurg 6 no.8:
21 Ag '61. (MIRA 14:8)

1. Nachal'nik prokatnogo tsekha zavoda "Krasnaya Etna"
(Rolling mills)

BYKADOROV, A.V., inzh.; FEDOTOV, N.I., kand.tekhn.nauk

Variable speed rate of train sorting on humps. Trudy NIIZHT
no.25:135-164 '61. (MIRA 16:11)

BYKADOROV, A.V., inzh.

Rated cuts in case of a variable speed of train uncoupling in hump yards. Trudy NIIZHT no.25:191-205 '61.

Experimental determining of the rolling speed of cuts down the hump. 207-217 (MIRA 16:11)

BYKADOROV, A.V., inzh.

Automatic speed control of the motion of car cuts down the hump.
Trudy NIIZHT no.29:92-110 '62. (MIRA 16:10)

FEDOTOV, N.I., kand. tekhn. nauk (Novosibirsk); BYKADOROV, A.V., inzh.
(Novosibirsk)

Increasing the speed in the breaking up of trains on classification
humps. Zhel. dor. transp. 47 no.7:42-43 J1 '65. (MIRA 18:7)

BYKADOROV, G.I.; IGNATENKO, N.N.; FILIPPOVSKIY, P.M.

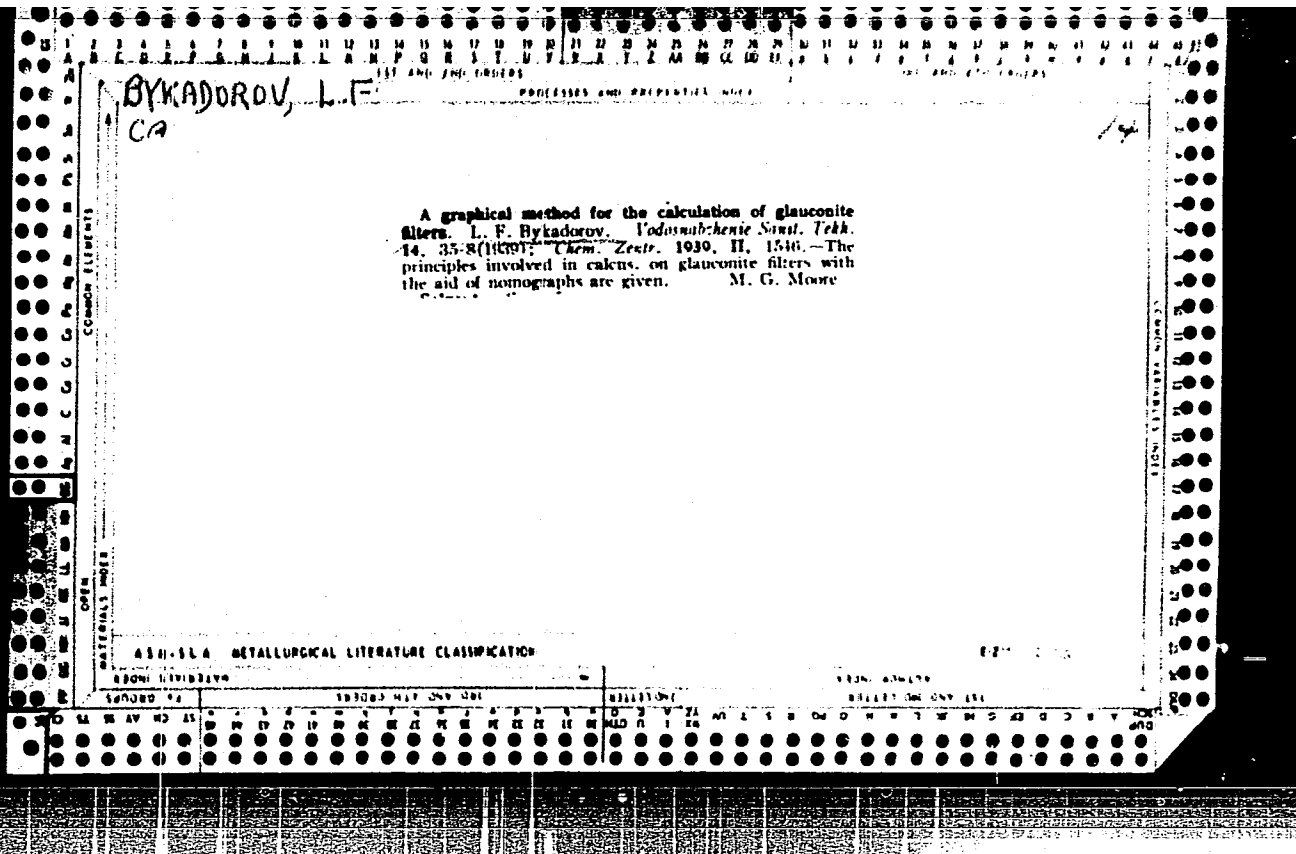
~~SECRET~~
Radiant heat chambers for drying painted products. Trakt. 1
sel'khoz mash. 8:41-42 Ag '58. (MIRA 11:8)

1. Valdimirskiy traktornyy zavod im. A.A. Zhdanova.
(Clutches (Machinery))

BELEVICH, V.V.; SHVETSOVA, V.F.; ZHITYAYKINA, N.F.; BYKADOROV, I.S.;
IVANOV, G.I., kand.sel'skokhoz.nauk; GERMANISHVILI, V.Sh.,
kand.geogr.nauk, retsenzent; SOKOLOV, I.F., retsenzent;
KALMYKOVA, V.V., retsenzent; LYUBOMUDROVA, S.V., retsenzent;
KRUSHKOVA, T.S., retsenzent; BOYKOVA, K.G., retsenzent;
NOVSKIY, V.A., otv.red.; VLASOVA, Yu.V., red.; SERGEYEV, A.N.,
tekhn.red.

[Agroclimatic manual for the Maritime Territory] Agroklimaticheskii
spravochnik po Primorskomu kraiu. Leningrad, Gidrometeor.izd-vo,
1960. 129 p. (MIRA 14:4)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. Primorskoye upravleniye. 2. Vladivostokskaya gidrometeorologicheskaya observatoriya (for Belevich, Shvetsova, Zhityaykina, Bykadorov). 3. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskii institut (for Germanishvili, Sokolov, Kalmykova, Lyubomudrova, Krushkova, Boykova).
(Maritime Territory--Crops and climate)



BYKADOROV, L. F.

"Cationite Softening of Water by Filtration from Below," Trudy Rost. inst.
insh. shel. transp., No.15, 1949

BYKADOROV, L.F., kandidat tekhnicheskikh nauk, dotsent.

Temporary suspension separators for clarifying water. Trudy RIIZHT
no.17:219-226 '53. (MIRA 9:6)
(Railroads--Water supply) (Water--Purification)

BYKADOROV, L.F., kandidat tekhnicheskikh nauk.

Gravel-section filters for boreholes. *Transp.stroi.* 6 no.4:27-28
Ap '56. (MIRA 9:8)

(Filters and filtration)

BYKADOROV, L.F.; KULZHINSKIY, V.I.; MIKHAYLOV, V.A.

Study of the operation of the porous drains of filters designed
by the Academy of Municipal Services. Nauch. trudy AKKH no.22:
120-131 '63. (MIRA 18:5)

BYKADOROV, L.F., kand. tekhn. nauk (Rostov-na-Donu)

Use of "glued" gravel sectional filters designed by the Rostov
Institute of Railroad Engineers in the restoration of bored wells.
Gidr. i mel. 16 no.12:46-50 D '64 (MIRA 18:2)

BYKADOROVA, A. Ya.

Methodology of forecasting minimum stages of the Selenga River for
periods of ten days and a month. Trudy Dal'nevost. MIGMI no.18:122-
130 '64. (MIRA 17:11)

KOLOSOV, Yu.; BADULINA, N.; BYKADOROVA, T.; MEDINSKAYA, N.

Advertise more! Grazhl.av 17 no.9:26 S '60. (MIRA 13:9)

1. Korrespondent "Grazhdanskoy aviatsii" (for Medinskaya).
(Advertising--Aeronautics, Commercial)

DIKENSHTEYN, G.Kh.; KUTUZOVA, V.V.; MASHRYKOV, K.K.; BABAYEV, A.G.;
POL'STER, L.A.; YUFEREV, R.F.; SHISHOVA, A.I.; BAREYEV,
R.A.; MAKAROVA, L.N.; MURADOV, K.; PYANOVSKAYA, I.A.;
SEMOV, V.N.; SIROTINA, Ye.A.; TURKINA, I.S.; FEL'DMAN,
S.L.; KHON, A.V.; KUNITSKAYA, T.N.; GOLENKOVA, N.P.;
ROSHINA, V.M.; FARTUKOV, M.M.; SHCHUTSKAYA, Ye.K.;
AYTAYIWA, N.V.; BYKADOROV, V.A.; KOTOVA, M.S.; SMIRNOV,
L.M.; IERAGIMOV, M.S.; KRAVCHENKO, M.F.; MARKOVA, L.P.;
ROZYYEVA, T.R.; UZAKOV, O.; SLAVIN, P.S.; NIKITINA, Ye.A.;
MILOGRADOVA, M.V.; BARTASHEVICH, O.V.; STAROBINETS, I.S.;
KARIMOV, A.K.

[Splicing of the wires of overhead power transmission lines]
Soedinenie provodov vozduzhnykh liniy elektroperedachi. Mo-
skva, Energiia, 1964. 69 p. (Biblioteka elektromontera,
no.132) (MIRA 17:9)

~~BYKADOROV, V.S., red. toma; PEKARETS, P.A., red. toma; RADCHENKO,~~
G.P., red. toma; RYABOKON', N.F., red. toma; TKALICH,
S.M., red. toma; IZRAILEVA, G.A., ved. red.

[Geology of coal and oil shale deposits in the U.S.S.R.]
Geologia mestorozhdenii uglia i goriuchikh slantsev SSSR.
Vol.8. 1964. 790 p. (MIRA 17:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy geologicheskii
komitet.

BYKANOV, I.

AID P - 2440

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 6/19

Author : Bykanov, I., Guards Major

Title : ~~USSR/Aeronautics~~
Group flights of helicopters at night

Periodical : Vest. vozd. flota, 8, 38-40, Ag 1955

Abstract : The author gives a detailed description of the training of group helicopter flights. He stresses the importance of good organization of training flights, gives technical data and mentions some names.

Institution: None

Submitted : No date

KALAMIN, A.I., kand.sel'skokhoz.nauk; BYKARSKIY, Ye., inzh.

KPR-5 potato sorting machine. Trakt.i sel'khoz mash. 31
no.9:33-34 S '61.

(MIRA 14:10)

(Potatoes--Grading)

S/194/61/000/010/074/082
D271/D301

AUTHOR: Bykasov, O.P.

TITLE: The prospects of applying single-sideband system for radio-communication with sea-going ships

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 36, abstract 10 K262 (Inform. sb. tsentr. n.-i. in-ta morsk. flota, 1960, no. 48, 64-73)

TEXT: The advantages of changing to single-sideband modulation in radiotelephone communication with ships are discussed, viz: Contraction of the occupied bandwidth, increase of power, elimination of interference and cross-modulation. At the same time transition to single-sideband modulation substantially increases requirements regarding frequency stability and necessitates use of more complex equipment (restoration of the carrier in the receiver). Various methods of single-sideband modulation are analyzed, as well

The prospects of applying...

S/194/61/000/010/074/082
D271/D301

as the expediency of single-sideband operation in the range of
intermediate and short waves. 3 figures. 5 references. [Abstrac-
ter's note: Complete translation]



Card 2/2

S/194/62/000/006/205/232
D271/D308

AUTHOR: Bykasov, O.P.

TITLE: New marine emergency transmitter type ASP-4

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 6, 1962, abstract 6-7-185 r (Inform. sb. Tsentr.
n.-i. in-t morsk. flota, 1961, no. 60, 48-57)

TEXT: A brief description of the new marine emergency transmitter ASP-4 and comparison of its basic characteristics with those of the preceding Soviet model ASP-2-0.06 and of the Danish emergency transmitter, model S106H, of the Electromekano company (Denmark). Electronic coupling is the design basis of the ASP-4 transmitter; its power is 27 W in the equivalent circuit with $R = 2.2$ ohm and $C = 500$ pF (ASP-2-0.06 produces 32 W in the same equivalent circuit), however, its resultant effect in reception is stronger than that of the ASP-2-0.06 because it is modulated with square waveform, ASP-2-0.06 having a sinusoidal modulation, and this produces an increase of the equivalent power to 35 W (the advertized power of the S106H is 75 W but the equivalent antenna circuit is not known). The trans-
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New marine emergency transmitter .4.

S/194/62/000/006/205/232
D271/D308

mitter has 7 fixed frequencies commonly used in marine radiocommunication (ASP-2-0.06 has also a continuously variable range, S106H has 8 fixed frequencies). Frequency stability is + 0.2 % (ASP-2-0.06 - +0.5 %, S106H - +0.02 %). It operates in class A₂ (ASP-2-0.06 - A₁ and A₂) with a frequency of 600 c/s. Total efficiency of the transmitter has been increased from 4.75 % to 14.5 %. ASP-4 is the first known transmitter in the world to use a transistor converter in the power supply. In comparison with the ASP-2-0.06 and S106H it has the following advantages: a rotary supply converter is not used; modulating voltage has a more convenient waveform; an automatic emergency signal transmitter, with remote start, and an antenna equivalent are provided; there is light signalling for the case where the transmitter is not set to 500 c/s. Frequency stability of the ASP-4 is however worse than that of the S106H transmitter which is quartz stabilized. 3 references. [Abstracter's note: Complete translation.]

Card 2/2

BYKASOV, O.P.; SHALYGINA, V.N.

Radio station for coasters. Inform. sbor. TSNITMF no. 120
Sudovozh. i sviaz' no. 27:81-90 '64.

BYKASOV, O.P.; ROZOVA, I.V., inzh.

Radio communications on modern passenger liners. Biul. tekhn.-ekon.
inform. Tekhn. upr. Min. mor. flota 7 no.6:89-99 '62.

(MERA 16:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota.
(Radio-Installation on ships) (Ocean liners)

BYKASOV, O.P.; FEDOROV, L.N.

Modernization of the APM-54 automatic alarm system. Inform. sbor.
TSNIIMF no.85 Sudovezh, i sviaz' no.22:72-85 '63. (MIRA 17:3)

NOVIKOV, Nikolay Sergeyevich; BYKASOVA, G.I., inzh., red.; FREGER,
D.P., red.izd-va; BELOGUROVA, I.A., tekhn.red.

[Manufacture of articles from artificial fur; practices of
the Leningrad Clothing Factory "Bol'shevichka"] Izgotovlenie
izdelii iz iskusstvennogo mekha; opyt leningradskoi shveinoi
fabriki "Bol'shevichka." Leningrad, 1961. 19 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriya: Shveinaia promyshlennost', no.3).
(MIRA 14:12)

(Fur, Artificial)
(Leningrad--Clothing industry)

SUKHAREV, Mikhail Ivanovich, kand. tekhn. nauk; FEDOSEYEVA, Larisa
Semenovna, inzh.; BYKASOVA, G.I., red.; FREGER, D.P., red.
izd-va; BELOGUROVA, I.A., tekhn. red.

[Use of nonwoven fabrics (fibrous paper type) in the
manufacture of men's jackets] Ispol'zovanie netkanykh materialov
(tipe voloknistoï bumagi) pri izgotovlenii muzhskogo pidzhaka.
Leningrad, 1961. 18 p. (Leningradskiy Dom nauchno-tekhnicheskoi
propagandy. Obmen peredovym opytom. Seriya: Shveinaia pro-
myshlennost', no.5) (MIRA 15:3)
(Tailoring) (Nonwoven fabrics)

KOLESNIKOV, Petr Alekseyevich, kand. tekhn. nauk; BYKASOVA, G.I.,
inzh., red.; VASIL'YEV, Yu.A., red. izd-va; BELOGUROVA, I.A.,
tekhn. red.

[Efficient principles for the design and manufacture of cold
weather clothing] Ratsional'nye printsipy postroeniia teplo-
zashchitnoi odezhdy; stenogramma lektsii, pročitannoi v
LDNTP na seminare dlia rabotnikov shveinoi promyshlennosti.
Leningrad, 1961. 29 p. (MIRA 15:3)
(Clothing, Cold weather)

CHERVYAKOV, Fedor Ivanovich; KURSKAYA, Yevgeniya Petrovna; BYKASOVA,
G.I., inzh., red.; VASIL'YEV, Yu.A., red. izd-va;
BELOGUROVA, I.A., tekhn. red.

[Trends in the design of new sewing machines; experience of the
Podol'sk Machinery Plant named after Kalinin] Napravlenie v
konstruirovani novykh shveinykh mashin; opyt Podol'skogo me-
khanicheskogo zavoda im. Kalinina. Stenogramma lektsii, pro-
chitannoi v LDNTP na seminare dlia rabotnikov shveinoi pro-
myshlennosti. Leningrad, 1961. 43 p. (MIRA 15:3)
(Leningrad--Sewing machines)

PETROVA, Klavdiya Pavlovna; SOROKIN, Aleksey Petrovich; PYARIKONNOVA, Mariya Ivanovna; BYKASOVA, G.I., red.; FREGER, D.F., red. izd-va; GVIRTS, V.L., tekhn. red.

[New developments in the technology of clothing manufacture in the Leningrad clothing factories] Novoe v tekhnologii izgotovleniia odezhdy na leningradskikh shveinykh predpriatiakh; obzor. Leningrad, 1962. 60 p. (MIRA 16:3)
(Leningrad--Clothing industry)

D'YAKONOV, V.K., polkovnik meditsinskoy sluzhby; ROMASH, V.M., podpolkovnik meditsinskoy sluzhby; BYKHIALOV, L.P., mayor meditsinskoy sluzhby

Biomycin in treating pustular diseases of the skin; abstract.
Voen.-med.zhur. no.3:77-78 Mr '61. (MIRA 14:7)
(SKIN--DISEASES) (AUREOMYCIN)

BYKHANOV, V.I.; FEDOROV, I.M.

Winter wheat in the fields of the Moscow region. Zemledelie 27
no.2:80-83 F '65. (MIRA 13:4)

1. Direktor sovkhoza "Voronovo" Leninskogo rayona, Moskovskoy oblasti (for Bykhanov). 2. Glavnyy agronom sovkhoza "Vorenevo" Leninskogo rayona, Moskovskoy oblasti (for Fedorov).

SERPOV, Boris Ivanovich; BARASHKOV, Nikolay Aleksandrovich; BYKHANOVA, Etoliya Anatol'yevna; ZEFIROV, Igor' Vasil'yevich; KOSHCHIN, Valentin Alekseyevich; NESTEROV, P.A., inzh., retsenzent; SHAKHOV, A.I., inzh., retsenzent; DOBROLENSKIY, V.P., nauchnyy red.; SMOLEV, B.V., red.; KOROVENKO, Yu.N., tekhn. red.

[Laying of a ship hull from scale drawings] Razmetka pri mashtabnoi razbivke korpusa. [By] B.I. Serpov i dr. Leningrad, Sudpromgiz, 1962. 323 p. (MIRA 15:7)
(Laying off (Shipbuilding)) (Photomechanical processes)

L 00006-67 EWP(c)/EWT(m)/EWP(w)/EWP(t)/ETI/EWP(k) IJP(c) JD/JH
ACC NR: AP6027783 SOURCE CODE: UR/0126/66/022/001/0039/0044

51
49

AUTHOR: Shur, Ya. S.; Kandaurova, G. S.; Magat, L. M.; Bykhanova, N. N.

ORG: Institute of Metal Physics, AN SSSR (Institut fiziki metallov AN SSSR); Ural State University im. A. M. Gor'kiy (Ural'skiy gosuniversitet)

TITLE: Magnetic properties of powders of a high-coercivity Mn-Al alloy

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 1, 1966, 39-44

TOPIC TAGS: aluminum alloy, magnesium alloy, powder metal property, magnetic property, magnetic coercive force

ABSTRACT: In order to elucidate the mechanism of the processes leading to the increase in the coercive force of Mn-Al alloy when in powdered state, the magnetic properties and phase composition of powders of a Mn-Al alloy (71 wt. % Mn) were investigated as a function of particle size (2 to 800 μ) and heat treatment. Two series of powders were considered: the first series was obtained by pulverizing the alloy when it was in ferromagnetic state (homogenization at 1100°C with cooling in air at the critical rate of 20°C/sec, leading to the formation of the metastable ordered ferromagnetic τ -phase); the second series was obtained by pulver-

Card 1/3

UDC: 538.245/.248

L 09006-67
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izing the alloy when it was in nonferromagnetic state (quenching in water following homogenization at 1100°C) and in this case the high-temperature paramagnetic ϵ -phase was deformed by supercooling. The magnetic properties of the specimens were measured in fields of up to 32,000 oe by the ballistic method, while their phase composition was determined from debye-grams. Findings: for both series of powder specimens coercive force H_c increases and specific magnetization σ_{max} decreases with decrease in particle size. Thus, a particle size decreases from 500 to 2 μ , H_c increases from 1300-2000 oe to 5000 oe, while specific magnetization then decreases 4-7 times for powders in the first series and about 2 times for powders in the second series. An examination of the anisotropy of coercive force in the specimens warrants the assumption that for specimens with particle size of $<4 \mu$ magnetic properties are primarily determined by particles with a nearly monodomain structure, and it is this that accounts for the increase in coercive force. The decrease in specific magnetization with decrease in particle size is attributed to the dis-ordering of the magnetic τ -phase and the formation of paramagnetic equilibrium phases. Deformation of the alloy apparently leads to a decrease in the effective dimension of ordered regions of the ferromagnetic τ -phase and to greater isolation of these regions from each other within the powder particles. This complicates the processes of magnetization reversal and increases the coercive force. The decrease in the effective size of the τ -phase may be attributed, for the first series of powders, to local dis-ordering of the τ -phase during pulverization of the alloy in ferromagnetic state, and for the

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second series of powders -- to the formation of nonmagnetic equilibrium phases. "The authors consider it their pleasant duty to express their appreciation to L. V. Smirnov for providing the Mn-Al alloy." Orig. art. has: 2 figures, 1 table.

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