VORONKEVICH, S. D., Cand Geol-Min Sci -- (diss) "Investigation of the erosion of basic types of rocks of the Volga region /Srednyye Povolzh'ye/ in the sector Barmino (Gor'kovskaya Oblast') Gorodishche (Ul'yanovskaya Oblast') in connection with the study of of the banks of reservoirs." Mos, 1958. 15 pp (Min of Higher Education USSR, Mos Order of Lenin and Order of Labor Red Banner State Univ im M. V. Lomonosov, Geol Faculty, Chair of Ground Science and Engineering Geology), 110 copies (KL, 15-58, 113)

BARANOVA, Z.K.; VOLOSOVA, R.I.; VORONKEVICH, S.D.; IL'INSKAYA, S.D.; SERGEYEV, Ye.M.

Change in Permian clays in the weathering crust from the point of view of engineering geology. Sov. geol. 2 no.6:114-121 Je '59. (MIRA 12:12)

1.Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Clay)

DEVDARIANI, A.S.; BOGDANOVA, L.P.; VORONKEVICH, S.D.

Method of studying the erodibility of cohesive rocks in a launder. Vest.Mosk.un.Ser,biol., pochv., geol., geog. 14 no.2:165-170 '59. (MIRA 13:4)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo gos. universiteta.
(Rocks--Testing)

DEVDARIANI, A.S.; VORONKEVICH, S.D.

Compiling a chart predicting the sagging of loess soils in the Yavan irrigation area (Southern Tajikistan). Dokl.AN Tadzh.SSR 3 no.4:27-30 '60. (MIRA 14:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom AN Tadzhikskoy SSR S.Yusupovoy.
(Yavan Lowland--Loess)

DEVDARIANI, A.S. ; VORONKEVICH, S.D.

Mechanism of the formation of erosion cavities in loess. Uzb.geol. zhur. no.1:19-24 '61. (MIRA 14:3)

1. Moskovskiy universitet imeni M.V. Lomonosova.
(Loess) (Erosion)

VORONKEVICH, S.D.

Erodibility as a basis for classifying rocks in the central Volga Valley in connection with a study for rebuilding banks of reservoirs. Vop.geog. no.52:82-99 '61. (MIRA 14:6)
(Rocks—Classification) (Erosion) (Coast changes)

VORONKEVICH, S.D.

Rate of weathering of Tatarian and Neocomian clay sediments in the middle Volga Valley. Vest. Mosk. un. Ser. 4: Geol. 18 no.1:59-63 Ja-F '63. (MIRA 16:6)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo universiteta.
(Volga Valley--Weathering)

VORONKEVICH, S.D.

Chemicomineralogical changes in Jurassic and Cretaceous clays of the middle Volga Valley as a result of their weathering. Vest. Mosk. un. Ser. 4: Geol. 18 no.4:69-74 Jl-Ag '63. (MIRA 16:10)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo universiteta.

Voronkevich, Yu.

GOL'DE, F., inzhener; VORONKEVICH, Yu., inzhener.

ASP-1 apparatus for high-speed drying of different grains with automatic exposure control. Muk.-elev. prom. 23 no.6:11-13 Je '57. (MLRA 10:9)

1. Kiyevskiy zavod elektropriborov.
(Grain--Drying)

S/262/62/000/020/005/009
E194/E135

AUTHORS: Shteynvol'f, L.I., and Voronkin, A.A.

TITLE: External balancing of two-stroke engines

PERIODICAL: Referativnyy zhurnal, Silovyye ustanovki, no.20, 1962, 37, abstract 42.20.199. (Tr. Khar'kovsk. politekhn. in-t, Khar'kovsk. z-d transp. mashinostr., v.32, 1961, 179-189)

TEXT: The problem is considered of the selection of crank arrangement on the crankshafts of nine, ten and twelve-cylinder two-stroke engines to ensure uniform firing succession and external balancing of inertia forces and their moments. Problems of balancing internal combustion engines with opposed pistons are considered.

[Abstractor's note: Complete translation.]

Card 1/1

L 8660-65

ACCESSION NR: AT3002335 S/2929/62/000/003/0132/0138

AUTHOR: Voronkir, A. A. (Candidate of technical sciences); Krushedol'skiy, S. I. (Candidate of technical sciences)

TITLE: Basic premises in the design development of the piston of the 10D100 diesel engine

SOURCE: Teplovoznyye i sudovyye dvigateli, no. 3, Moscow, Mashgiz. 1962, 132-138

TOPIC TAGS: diesel engine, piston design, cast iron, piston temperature

ABSTRACT: Running experience with the 2D100 diesel engine showed that the weakest point in the motor design [illegible] the piston group. Modernization of the production pistons as well as the results of experimental investigations by the V. A. Malyshev [illegible] performance by cooling the head of the piston [illegible] deposition at the [illegible] surface [illegible] temperature [illegible] the cooling temperature [illegible] temperature from [illegible] to 500 [illegible] 550 [illegible] production design was modern and [illegible]

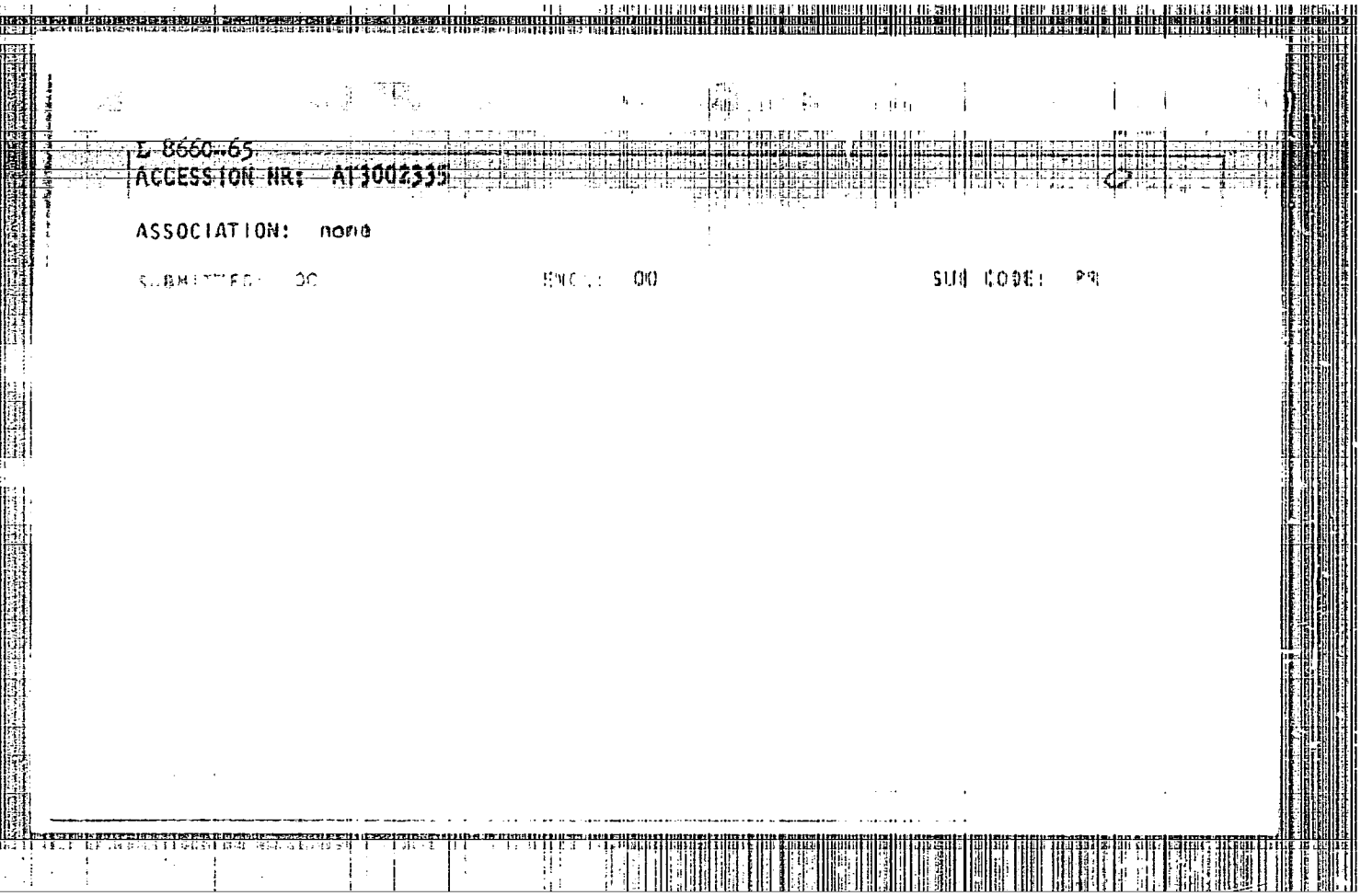
Card 1/3

L 8660-65

ACCESSION NR: AT3002335

of supporting ribs. However increasing the power of the 10100 by raising the supercharger pressure would [illegible] increased heat transfer from the burning gases and would increase the mechanical load on the piston, making design of the 3000 hp 10100 a complicated problem in which assembly and disassembly requirements limit the use of reinforcing ribs. The authors then determine the temperature of the inner surface of the piston, cooled by oil, from the heat transfer equation and discuss various methods for lowering the piston temperature below that for cooling. A cross section is given to show the construction of the alloy-cast iron piston with its internal [illegible] dimensions are given. The heat transfer in the new design which has much greater fin area than previous designs, operates at low temperatures although the power rating is increased in the 10010C. As shown in table 1 form, the experimentally determined temperature of the piston in both the 2D100 and 9D 00 was about 325-330C while the cylinder power of the 9D10C was 25% higher. This [illegible] in the excess air factor from 1.10 to 2.[illegible] which results [illegible] of the gases in the cylinders. Comparative data for the 2D10C, 9D10C and [illegible] experimental at 250 hp and calculated for 300 hp are given. The heat transfer function is then written out and the properties [illegible] heat transfer through the piston head is given [illegible] equation [illegible]

Card 2/3



E-8660-65
ACCESSION NR: AT3002335

ASSOCIATION: none

SUBMITTED: 30 ENCL: 00 SUB CODE: PR

VORONKIN, A.A., kand.tekhn.nauk; KRUSHEDOL'SKIY, G.I., kand.tekhn.nauk

Principal prerequisites for developing the design of the pistons of 10D100 diesel locomotive engine. Teplovoz.i sud.dvig. no.3:132-138 '62. (MIRA 16:2)
(Diesel locomotives) (Diesel engines)

VORONKIN, A.V.

Device for measuring porewater pressure and stress in soils.
Vop. geotekh. no.6:121-128 '63. (MIRA 17:9)

L 00895-67 EWT(d)/EWT(m)/EWP(f)/EWP(v)/T-2/EWP(k)/EWP(h)/EWP(l) HDW

ACC NR: AP6020975 (A) SOURCE CODE: UR/0113/66/000/003/0011/0014

45
B

AUTHOR: Voronkin, A. A. (Candidate of technical sciences); Tsesiinskiy, A. E.

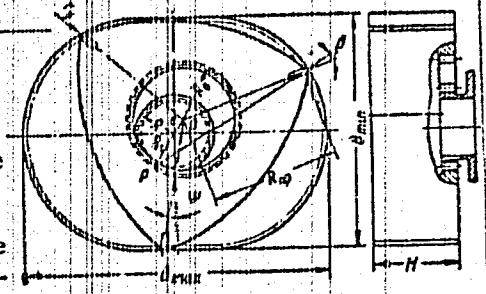
ORG: Kharkov Polytechnical Institute im. V. I. Lenin (Khar'kovskiy politekhnicheskiy institut)

TITLE: Selection of basic dimensions for a rotary-piston engine

SOURCE: Avtomobil'naya promyshlennost', no. 3, 1966, 11-14

TOPIC TAGS: rotary engine, Wankel engine, piston engine, internal combustion engine

ABSTRACT: The authors consider the problem of determining the basic dimensions of a Wankel engine with planetary motion of a trihedral rotor in a double-arc epitrochoidal housing following a contour equidistant from the theoretical curve. The radius of the generating circle R_0 (see figure) is taken as the control parameter of the engine and the basic dimensions are expressed in terms of this length. It is shown that R_0 is independent of the parameter for the shape of the epitrochoid $c=R_{np}/R_0$, although the overall dimensions of the rotor and housing depend on this parameter as well as the rpm,



UDC: 621.431.73:621.437

Card 1/2

L 00895-67

ACC NR: AP6020975

compression and other indices. A ratio of about $\varepsilon=2$ is sufficient for carburetor engines, but this parameter should be increased to approximately 3 for a diesel engine. It is shown that the specific weight of the engine increases as ε^2. The parameter ε also determines the mechanical efficiency of the engine. Expressions are given for mechanical losses and it is shown that the parameter ε should be increased to reduce the negative forces of inertia and the angle of deflection of the sealing plate from the normal to the surface of the housing, while ε should be reduced for smaller overall dimensions, specific weight and gas pressure forces. It is recommended that ε be taken equal to or greater than 2. Formulas are given for determining the maximum increase in the length of the rotor to reduce the specific weight and overall dimensions of the engine. The rate of propagation of the flame front is considered as a limiting factor for the velocity of engines with electric ignition. Orig. art. has: 2 figures, 3 tables, 42 formulas.

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001

awm

Card 2/2

SHUBNIKOV, A.K., prof., doktor tekhn.nauk; VORONKIN, F.D., inzh.

Manual for workers supplying materials and technical equipment. Transp.stroi. 10 no.4:57-59 Ap '60. (MIRA 13:9)
(Transportation--Buildings and structures)

ARSENT'YEV, A.I., kand. tekhn. nauk; ASTAF'YEV, Yu.P., kand. tekhn. nauk; VORONKIN, G.D., gornyy inzh.

Efficiency of strip mining at the Nikolayev Deposit. Sbor. nauch. trud. KGRI no.15:64-74 '63. (MIRA 17:8)

VORONKIN, G.D., gornyy inzh.

Using the analytic method to determine the deepening of strip mines with short working trenches. Sbor. nauch. trud. KGRI no.15:74-78 '63. (MIRA 17:8)

TSIRUL'NIKOV, M.S.; PERMYAKOV, N.K.; VOLONKIN, G.V.

Effect of prolonged administration of estrogenic preparations on the development of cancer of the corpus uteri. Sov. med. 27 no.3: 82-84 Mr '64. (MIRA 17:11)

1. Ginekologicheskaya klinika (ispolnyayushchiy obyazannosti rukovoditelya - kand. med. nauk N.K. Permyakov) Instituta skoroy pomoshchi imeni Sklifosovskogo (glavnyy khirurg - chlen-korrespondent AMN SSSR zasluzhennyy deyatel' nauki prof. B.A. Petrov, dir. - zasluzhennyy vrach UkrSSR M.M. Tarasov.

VORONKIN, I.V.; DENISKIN, A.N.

The KM-1 drum-type washing machine. Biul.tekh.-ekon.inform.Gos.-nauch.-issl.inst.nauch.i tekh.inform. no.11:73-74 '62. (MIRA 15:11)
(Washing machines)

VORONKIN, I.D.; PYATIBOKOV, L.K.

The BAUP-2 instrument for automatic regulation of temperature in heaters. Biul.tekh.-ekon.inform. no.2:12-14 '58. (MIRA 11:4)
(Thermostat)

SOV-98-58-2-2/21

AUTHORS: Voronkin, I.N., and Rudakov, V.N., Engineers

TITLE: On the Possibility of Erecting Dams Without Cofferdams (O vozmozhnosti stroitel'stva plotin bez peremychek)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 2, pp 6-11 (USSR)

ABSTRACT: The article deals with possible methods of erecting hydrotechnical structures without a cofferdam. These methods are based on experience gained in the construction of the bridge over the Yangtze river at the town Ukhan' in Red China, where reinforced concrete pipes were used for erecting bridge pillars. The essence of the method and the sequence of operations are described. A metal spatial framework is placed between the pontoons. The framework serves to set the reinforced concrete pipes and to establish a cylindrical pile fencing. The pipes, of an outer diameter of 155 cm, are lowered through the framework to the alluvium and the bedrock (Diagram 1). The author describes the uses made of submerged concrete, concreting, etc. By using the above-mentioned method, one may in a number of cases dispense with erecting the usual cofferdam (Diagram 3). Diagram 2 pictures the possible construction for a dam and screen when

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On the Possibility of Erecting Dams Without Cofferdams SOV-98-58-2-2/21

using concrete buttresses erected on the principles used in the Ukhan' bridge. Such buttresses establish a reliable junction of the dam screen with the underwater foundation at any depth. The author also gives the sequence of operations by which such a dam is to be constructed. Figures 4 - 7 show how the problem of linking a cofferdam with the foundation is being solved.
There are 23 diagrams.

1. Dams--Construction 2. Reinforced concrete--Applications
3. Pipes--Applications

Card 2/2

AUTHORS: Voronkin, I.V., Krikunov, A.Ye., Fatovskiy, V.P., Shapiro, I.Ye. SOV/ 119-58-7-3/10

TITLE: Automatic Devices in the Food Industry (Avtomaty v pishchevoy promyshlennosti)

PERIODICAL: Priborostroyeniya, 1958, Nr 7, pp. 9-15 (USSR)

ABSTRACT: In milk production, in the sausage-, sugar-, canned food-, and beer industry etc. automatization is being introduced in an ever-increasing degree. In the USSR more than 70 different kinds of food are available in form of parcels containing a certain accurately weighed portion of the food concerned. Special mention must be made of a conveyer band for packing food in tin cans which was developed and introduced between 1950 and 1952. The band consists of 16 machines, it is operated by only 8 persons, and it produces 300 cans per minute.
Nevertheless, the machinebuilding industry is still faced with the task of solving the problem of manufacturing cans by the drawing and punching methods.
Special attention must further be paid to the manufacture of cans the body of which is made of cardboard, while the bottom and lid

Card 1/3

are of metal. By means of this type of cans it is possible to save much expense, and it is essential that new automatic machines be developed for the manufacture of such receptacles.

Automatic weighing- and packing machines may be classified in two groups:

a) Automatic machines that produce the receptacle, weigh-in the portion of food, and then close the can.
b) Automatic machines that only do the weighing-in and close the packages.

The first group includes the automatic machine AP2B (weighing-in and packing of cocoa powder - 60 packets per minute), and the second includes the automatic machine APA (for semolina, cane sugar, etc. - 60 packets of 0.5 or 1 kg per minute).

The automatic machine APB produces large parcels (150 per minute).

Another type of automatic machine is the packing machine EKF which wraps up candy in parchment. The efficiency of such machines can be increased only if the packing material is of first-class quality.

Among the packing machines which work with thermoplastic material the automatic machine AUT must be mentioned, which is used

Automatic Devices in the Food Industry SOV/ 119-58-7-3/10

for packing material in form of pills.
The machine AEM / wraps up material in cellophane packets of 220 x 120 x 50 mm.
The machine VZA automatically weighs and packs yeast in packages of 100 g each.
The machine OZA packs melted cheese in packets of 30, 65 and 100 gr each. There are 10 figures.

1. Industry--USSR 2. Machines--Development 3. Foods--Preservation
4. Containers--Development

Card 3/3

L 11788-66 EWT(d)/EWT(m)/FA/EWP(h)

ACC NR: AP6002958 SOURCE CODE: UR/0286/65/000/024/0127/0128

INVENTOR: Voronkin, V. A.; Epshteyn, L. Yu.

TITLE: A Vibrodamper. Class 47, No. 177235

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 127-128

TOPIC TAGS: aircraft equipment, mechanical equipment, vibration damper, vibration

ABSTRACT: This Author Certificate introduces a vibrodamper for neutralizing vibrations of higher amplitude than the predetermined amplitude set by the free stroke of

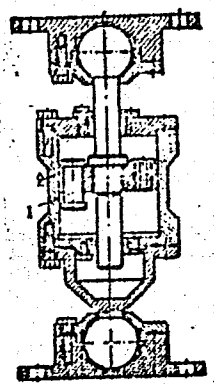

Fig. 1. Vibration Damper

1 - Plungers; 2 - piston.

Card 1/2 UDC: 621—567.2

L 11788-66

ACC NR: AP6002958

plungers. The vibrodamper consists of a casing filled with viscous liquid and a vented piston. Free-moving plungers are inserted into the vents of the piston. Orig. art. has: 1 figure. [BA]

SUB CODE: 01, 13/ SUBM DATE: 28Feb63/ ATD PRESS: 4180

HW

Card 2/2

VORONKINA, Anastasiya Zakharovna; POPOV, A.S., redaktor; KIRSANOVA, N.A., tekhnicheskiy redaktor.

[How we hold a production conference] Kak my provodim proizvodstvennye soveshchaniia. [Moskva] Izd-vo VTsSPS Profizdat, 1957. 37 p. (MLRA 10:6)

1. Predsedatel' rabochkoma Poltavskoy mashinno-traktornoy stantsii (for Voronkina) (Works councils)

ROMANOV, I.S.; VORONINA, G.I. [Voronkina, H.I.]

Semimechanical attachment for a centralized production of shoulder straps. Leh. prom. no.4:57 O-D '65.
(MIRA 19:1)

PICHUGIN, A.A., dotsent, kand.tekhn.nauk; BOCHAROV, Ye.V., inzh.. Prinimali uchastiye: KUZ'MINSKIY, A.G., inzh.; VORONKINA, M.A., inzh.; FEDOROV, A.A., inzh.;BELOUSOV, M.A., inzh.ekonomist; PROSVIRNIN, G.V., inzh.; KNIGINA, G.I., dotsent, kand.tekhn.nauk; LESNIKOV, V.V., dotsent, kand.tekhn.nauk; SIDOROV, A.K., dotsent, kand. arkhitektury; KARTASHOV, A.A., arkhitektor; BARITSKIY, F.F., dotsent, kand.tekhn.nauk; KULISHOV, D.A., prof.; ZDESENKO, G.M., kand.tekhn. nauk; ALEKSANDRENKO, A.I., dotsent, kand.tekhn.nauk; STREL'NIKOV, G.Ye., kand.tekhn.nauk; VANEYEV, V.A., assistent; CHEREPKO, P.A., dotsent. SUSHINSKIKH, A.F., inzh., retsenzent; MEN'SHIKOV, P.N., red.; SUBBOTINA, G.M., tekhn.red.

[Manual for rural builders] Spravochnik proizvoditelia rabot sel'skokhoziaistvennogo stroitel'stva. Novosibirsk, Novosibirskoe knizhnoe izd-vo. Vol.1. 1959. 673 p. Vol.2. 1959. 677-1191 p. (MIRA 13:2)

(Farm buildings)

VORONKINA, T.M.; STRUKOV, I.T.; SHOSTAKOVSKIY, M.F.

Synthesis of precursors and fragments of antibiotics. Part 12: Condensation of organosilicon compounds with thioglycol[illegible] acid and its ethyl ester. Zhur. ob. khim. 34 no. 5:1464-1467 My '64. (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

VORONKINA, T. M.; STRUKOV, I. T.; SHOSTAKOVSKIY, M. F.

Precursors and fragments of antibiotics. Part 9: Condensation of aliphatic aldehydes with mercaptoacetic acid and its ethyl ester. Zhur. ob. khim. 32 no.12:3877-3881 D '62.
(MIRA 16:1)

(Aldehydes) (Acetic acid)

VORONKINA, T.M.; STRUKOV, I.T.; SHOSTAKOVSKIY, M.F.

Synthesis of the precursors and fragments of antibiotics. Part 8: Preparation and study of the products of condensation of heterocyclic compounds with hydroxy- and mercaptoacetic esters. Zhur.ob.khim. 32 no.7:2097-2101 Jl '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov. (Heterocyclic compounds) (Acetic acid) (Antibiotics)

SHOSTAKOVSKIY, M.F.; VORONKINA, T.M.; SIDEL'KOVSKAYA, F.P.

Synthesis of the precursors and fragments of antibiotics. Part 6: Derviatives of lactam-containing mercaptocetic acid. Zhur.ob.khim. 31 no.5:1463-1465 My '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(Acetic acid) (Antibiotics)

VORONKINA, Ye.F.; MARTIROSYAN, V.V.

Recklinghausen's central neurofibromatosis. Vop.neirokhir. 22 no.6:39-40 N-D '58. (MIRA 12:2)

1. Klinika nervnykh bolezney i neyrokhirurgii Rostovskogo-na-Donu meditsinskogo instituta.
(NEUROFIBROMATOSIS, case reports, brain (Rus))
(BRAIN, neoplasms neurofibromatosis (Rus))

Voronkina, Ye. F.

VORONKINA, Ye.F.; KAVITSKAYA, T.M.; PUKHOVA, V.P.

Acute course of disseminated sclerosis. Zhur.nevr. i psikh. (MIRA 11:1)
Supplement:17 '57.

1. Klinika nervnykh bolezney i neyrokhirurgii (zav. - prof. V.A. Nikol'skiy) Rostovskogo-na-Donu meditsinskogo instituta.
(SCLEROSIS, MULTIPLE)

BERGEL'SON, L.D.; DYATLOVITSKAYA, E.V.; TIKHI, M. [Tichy, M.]; VORONKIVA, V.V.

Unsaturated acids and macrocyclic lactones. Report No.4: Diastereoisomeric 2,3-dihydroxy-2-methylpentanoic acids and their cleavage to antipodes. Izv.AN SSSR.Otd.khim.nauk no.9:1612-1617 S '62. (MIRA 15:10)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Sotrudnik Instituta organicheskoy khimii i biokhimii Chekhoslovatskoy Akademii nauk (for Tikhi).
(Valeric acid) (Sterochemistry) (Antibiotics)

VORONKO, A.A.

Effect of coumarin on surface leveling in nickel plating. Zhur.-prikl.khim. 35 no.12:2802-2805 D '62. (MIRA 16:5)

1. Kafedra fizicheskoy khimii Vil'nyusskogo gosudarstvennogo universiteta.
(Coumarin) (Nickel plating)

VORONKOV, A., Geroy Sotsialisticheskogo Truda

Provide labor safety for miners. Mast.ugl. 8 no.2:6-7 F '59. (MIRA 13:4)

1. Zamestitel' predsedatelya Gosgortekhnadzora RSFSR.
(Coal mines and mining--Safety measures)
(Coal miners--Diseases and hygiene)

VORONKO, A., inzh.(g.Vil'nyus); BUDILOVSKIY, Yu., inzh.(g.Vil'nyus)

Rapid method of determining the degree of acidity in solutions. (MIRA 12:9)
Prom.koop. 13 no.5:11 My '59.

1. Artel' "Stakhanovets".
(Chemical tests and reagents)

BUDILOVSKIY, Yu., inzh.; VORONKO, A., inzh.

Fixing anodic oxidation coatings. Prom.koop. 14 no.9:15-16 S '60. (MIRA 13:9)

1. Artel' "Spalis", g.Vil'nyus. (Aluminum)
(Metals--Finishing)

VORONKO, A.A. [deceased]; VISHOMIRSKIS, R.M.; MOLCHADSKIY, G.M.

Kinetics of the electrodeposition of indium from sulfate solutions. Zashch.met. 1 no.6:703-708 N-D '65. (MIRA 18:11)

1. Institut khimii i khimicheskoy tekhnologii AN Litovskoy SSR.

VORONKOV, A.A.; SHUMYATSKAYA, N.G.; PYATENKO, Yu.A.

Crystalline structure of gagarinite. Zhur.strukt.khim. 3 no.6:691-698 '62. (MIRA 15:12)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov.
(Minerals) (X-ray crystallography)

BUDILOVSKIY, Yu.Ya.; VORONKO, A.A.

Latest in the anodization of aluminum parts of precise dimensions. Zhur.prikl.khim. 34 no.3:691-692 Mr '61. (MIRA 14:5)

1. Kafedra fizicheskoy khimii Vil'nyusskogo gosudarstvennogo universiteta.

(Protective coatings)

27075
S/080/61/034/003/017/017
A057/A129

1.1800 1087 2808 also 1454

AUTHORS: Budilovskiy, Yu. Ya., Voronko, A. A.

TITLE: News in anodizing of aluminum parts with precise dimensions

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 3, 1961, 691 - 692

TEXT: A new composition of a bath for surface-degreasing of aluminum articles with precise dimensions before anodizing was developed. A. V. Shreyder [Ref. 1: ZhPKh, 30, 1 (1957)] and P. N. Petrov et al. [Ref. 2: Sb. "Progressivnaya tekhnologiya priborostroyeniya" ("Advances in Technology of Instrumentation"), 4, Mashgiz, M. (1955)] suggested organic solvents for degreasing precisely dimensioned aluminum articles before anodizing, since treatments with alkali or acid solutions change dimensions of the surface. Treatment by organic solvents only are insufficient, because after it a fine grease film remains on the aluminum surface and an additional chemical or electrochemical treatment is necessary. Alkali solutions containing water glass as inhibitor are suggested by V. I. Layner et al. [Ref. 3: Osnovy gal'vanostegii (Principles of electroplating), Metallurgizdat, M. (1953)], but observed also that a thorough washing is necessary, otherwise silica gel may be formed on the surface effecting failures in anodizing of the aluminum article.

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S/080/61/034/003/017/017
A057/A129

News in anodizing of aluminum parts with ...

The present authors developed a new composition for chemical degreasing of aluminum surface before anodizing. The composition is patented with USSR patent no. 123822; Bulletin for patents no. 21 (1959) and has the following property: NaH_2PO_4 + + Na_2HPO_4 10 - 15 g/l, ОП-10 (OP-10) (polyethyleneglycolester) 3 - 4, temperature 80 - 95°C, pH 5.5 - 7.5. ОП-7 (OP-7) can be used also as emulsifier, but OP-10 is better soluble in the given solution. The solution can be prepared from sodium hydroxide or trisodium phosphate by adding phosphoric acid until the necessary pH is attained. Duration of the degreasing procedure depends on the contamination of the surface, but is usually 5 - 25 minutes. Increase in temperature and agitation accelerates the process; ultrasonic waves improve the procedure. An advantage of the present bath is the fact that a buffer solution is used in the pH range where no etching of aluminum occurs. The gloss of the aluminum surface is not decreased by the procedure and the simple composition of the solution allows for an easy control. The control is carried out by measuring the pH, estimating the wetting ability and by the convential method for determination of phosphates. There is 1 figure and 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: A. K. Graham, Electroplating Engineering Handbook, New York (1955); K. E. Langford. Analysis of electroplating and

Card 2/3

27075
S/080/61/034/003/017/017
A057/A129

News in anodizing of aluminum parts with...

related solutions, Teddington MIDDX, England (1951).

ASSOCIATION: Kafedra fizicheskoy khimii Vil'nyusskogo gosudarstvennogo universiteta
(Department for Physical Chemistry of the Vil'na State University)

SUBMITTED: July 12, 1960

Card 3/3

VORONKO, A.A.; KAYKARIS, V.A.

Effect of thiourea on leveling in nickel plating. Zhur.prikl. khim. 34 no.11:2582-2585 N '61. (MIRA 15:1)

1. Kafedra fizicheskoy khimii Vil'nyusskogo gosudarstvennogo universiteta imeni V.Kapsukasa.
(Nickel plating)

SHUVALOV, Nikolay Konstantinovich; POPOV, Ye.P., prof., doktor tekhn. nauk, retsenzent; VORONOV, A.A., prof., doktor tekhn.nauk, retsenzent; DEMCHENKO, O.P., kand.tekhn.nauk, retsenzent; MAKSIMOV, A.D., kand.tekhn.nauk, nauchnyy red.; APTEKMAN, M.A., red.; TSAL, R.K., tekhn.red.

[Systems of program control operating on a combined principle] Sistemy programmnogo regulirovaniia, rabotaiushchie na kombinirovannom printsipe. Leningrad, Gos.soiuznoe izd-vo sudostroit. promyshl., 1960. 74 p. (MIRA 13:6)
(Automatic control) (Programming (Electronic computers))

L 23887-66 EWT(m)/EWP(t) IJP(c) JD

ACC NR: AP6008628 SOURCE CODE: UR/0365/65/001/006/0703/0708

AUTHORS: Voronko, A. A. (deceased); Vishomirskis, R. M.; Molchadskiy, A. M.

ORG: Academy of Science, Lithuanian SSR, Institute for Chemistry and Chemical Technology (Akademiya nauk Litovskoy SSR, Institut khimii i khimicheskoy tekhnologii)

TITLE: The kinetics of electrodeposition of indium from sulfate solutions

SOURCE: Zashchita metallov, v. 1, no. 6, 1965, 703-708

TOPIC TAGS: electrodeposition, electroplating, indium, indium sulfate, cathode polarization

ABSTRACT: This investigation was conducted to resolve existing differences concerning the mechanism of electrodeposition of indium from sulfate solutions. The effect of temperature, composition, and rate of stirring of sulfate solution on the electrodeposition of indium was determined. A copper strip of 1-cm^2 area covered with a 5-micron thick indium layer served as the cathode. One side of the cathode was insulated with PKhV-26 lacquer. The anode consisted of metallic indium (area of 10 cm^2). The experimental results are presented graphically (see Fig. 1). It was found that the polarization curves exhibited a minimum in the regions of limited currents, the depth and position of which depended on the concentration and pH of the solution. It is shown that the sharp decrease in the rate of the cathodic process is due to chemical changes which give rise to concentration polarization.

Card 1/2 UDC: 621.357.7

L 23887-66

ACC NR: AP6008628

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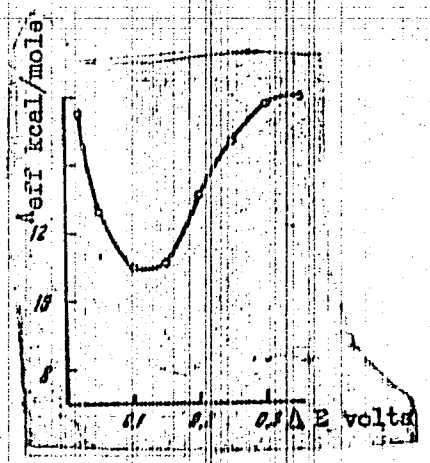
Fig. 1. Dependence of the effective energy of activation on the magnitude of polarization.



The chemical polarization is apparently due to the passivity of the cathode surface, caused by the formation of a surface film on the cathode. This film consists of indium oxides. Orig. art. has: 5 graphs.

SUB CODE: 07/ SUBM DATE: 31Mar65/ ORIG REF: 018/ OTH REF: 005

Card 2/2 dda

VORONOV, A.I., starshiy prepodavatel'

Power losses in key couplings of gear transmissions. Izv.vys. ucheb.zav.; mashinostr. no.5:109-123 '59.
(MIRA 13:4)

1. Moskovskiy aviatsionnyy institut.
(Gearing)

VORONKO, A.I.

Advances in the Polish sugar industry (from "Biulleten' inostrannoi kommercheskoi informatsii," no.151 (1515) 1957). Sakh. prom. 32 no.3:67 Mr '58. (MIRA 11:4)

(Poland--Sugar industry)

VORONKO, A.I., inzh.

New band conveyer. Mekh.i avtom.proizv. 14 no.12:48-49 D '60.
(MIRA 13:12)

(Conveying machinery)

VORONKO, A.I., inzh.

Review of "Mechanization of labor consuming processes in sugar plants" by V.L.Mar'ianchik, A.V.Budnyi, V.A.Bondarenko. Mekh. i avtom.proiz. 14 no.10:59-60 O '60. (MIRA 13:10)

(Sugar machinery) (Mar'ianchik, V.L.)
(Budnyi, A.V.) (Bondarenko, V.A.)

VORONKO, A.I.

Refractometric data on sugar solutions (from "Sugar," Mar. 1957). Sakh. prom. 32 no.3:72 Mr '58. (MIRA 11:4)

(Sugar)

VORONKO, A.I.

Laboratory hydraulic press for beets (from "The International Sugar Journal," Sept. 1957). Sakh. prom. 32 no.3:72 Mr '58.
(Hydraulic presses)

VORONKO, A.I.

New sugar refineries (from "The International Sugar Journal," Oct. 1957). Sakh. prom. 32 no.3:72-73 Mr '58. (MIRA 11:4)
(Modena, Italy--Sugar industry) (Turkey--Sugar industry)

VORONKO, A.I.

Acreages and yield of sugar beets in capitalistic countries(from "The International Sugar Journal," Jan. 1958). Sakh. prom. 32 no. 7:69 Jy '58. (MIRA 11:8)

(Sugar beets)

VORONKO, A.I.

New model of the one-row beet harvester (from "Sugar" Dec. 1957. Sakh. prom. 32 no.8:75 Ag '58. (MIRA 11:9)
(Sugar beets--Harvesting) (Combines (Agricultural machinery))

VORONKO, A.I.

From the pages of scientific and technical journals. Sakh. prom. (MIRA 11:12)
32 no.11:77 N '58.
(Bibliography--Sugar beets)

VORONKO, A. I.

Toolo Sugar Refinery in Finland (from "The International Sugar Journal," No.708, Dec.1957). Sakh. prom. 33 no.1:73 Ja '59. (MIRA 12:1)

(Finland--Sugar industry)

VORONKO, A. I.

Prospects for the utilization of sugar-containing cultures (from "The International Sugar Journal, "No.710, Feb. 1958). Sakh. prom. 33 no.1:74 Ja '59. (MIRA 12:1)
(United States--Sugar manufacture--By-products)

SILIN, P.M., prof.; VORONKO, A.I.

Book sumarizing the experience in the automatization of beet-sugar manufacture ("Automatic control in beet-sugar manufacture" by V.P. Mitrofanov, A.A. Rudzitskii. Reviewed by P.M. Silin, A.I. Voronko). Sakh. prom. 33 no.2:73-74 F '59. (MIRA 12:3)
(Sugar manufacture) (Automatic control)
(Mitrofanov, V.P.) (Rudzitskii, A.A.)

VORONKO, A.I.

From the pages of Soviet scientific and technical journals. (MIRA 12:4)
Sakh.prom. 33 no.3:75-76 Mr '59.
(Bibliography--Sugar beets)

VOLOSKO, A.I., inzh.

On engineer I.S.Filatov's article "Unloading of sugar beets without hoppers." Mekh.i avtom. proizv. 15 no.2:35-36 F '61. (MIRA 14:2)

(Sugar beets) (Filatov, I.S.)

VORONKO, A.I.

Automatic control of the boiling of massecuite (from "The International Sugar Journal," Aug. 1957). Sakh. prom. 32 no.3: 73-74 Mr '58. (MIRA 11:4)

(Sugar manufacture) (Automatic control)

VOROMKO, A.I.

Effect of mosaic and sugar beet yellows viruses on yield and composition of sugar beets (from "Sugar," June 1957). Sakh. prom. 32 no.3:74 Mr '58. (MIRA 11:4)
(Sugar beets--Diseases and pests) (Mosaic disease)

VORONKO, A.I.

Leafing through domestic scientific and technical journals. Sakh. prom. 32 no.3:77-78 Mr '58. (MIRA 11:4)
(Sugar industry)

VORONKO, A. I.

New model of a refractometer (from "Sugar," June 1957). Sakh. prom. 32 no.2:71 F '58. (MIRA 11:3)
(Refractometer)

VORONKO, A.I.

Automatic centrifuges for raw sugar (from "Sugar," Mar. 1957). (MIRA 11:3)
Sakh. prom. 32 no.2:72 F '58.
(Sugar machinery) (Centrifuges)

VOROHKO, A.I.

New semiautomatic polarimeter (from "The International Sugar Journal," Sept. 1957). Sakh. prom. 32 no.2:72-73 F '58. (MIRA 11:3)
(Polariscope)

VORONKO, A. I.

29101-Vporyadochit' vodnoe Khozyaystvo Sakharnykh Zavodov. Sakhar, Prom-st' 1949, No. 8, S, 18-19

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

VORONKO, A. I. I BOYANDIN, G. S.

VORONKO, A.I.

Packaging and wrapping machine for granulated sugar (from "Sugar," Sept. 1957). Sakh. prom. 32 no.2:73 F '58. (MIRA 11:3)
(Packaging machinery) (Sugar)

VORONKO, A.I.

Determining the moisture content of sugar (from "Sugar," July 1957). Sakh. prom. 32 no.4:68-69 Ap '58. (MIRA 11:6)
(Sugar--Analysis) (Moisture)

VORONKO, A.I.

Kestner-type evaporators(from "The South African Sugar Journal," Oct. 1957). Sakh. prom. 32 no. 6:70-72 Je '58. (MIRA 11:7)
(Evaporating appliances)

VORONKO, A.I.

Sugar determination with the aid of electronics(from "The South African Sugar Journal," Oct. 1957). Sakh. prom. 32 no. 6:73 Je '58. (MIRA 11:7)

(Saccharimeter)

VORONKO, A.I.

Refining sugar with ion-exchange processing of the products(from "Sugar," Dec. 1957). Sakh. prom. 32 no. 6:75 Je '58. (MIRA 11:7)
(Ion exchange)
(Sugar manufacture)

VORONKO, A.I.

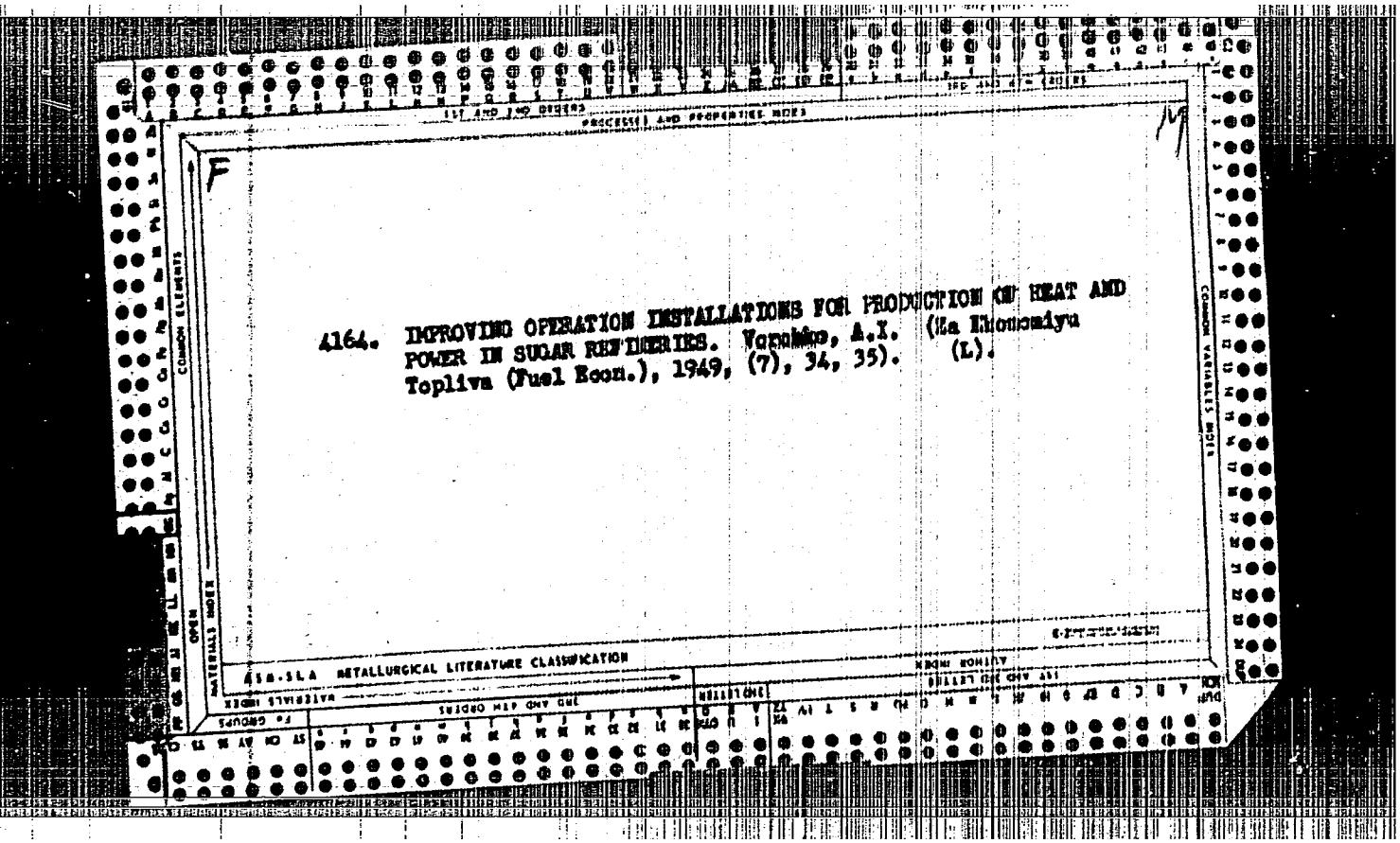
Effect of process sterility in diffusers and dry matter content in pulp on sugar losses (from "The International Sugar Journal," no. 10 1957). Sakh. prom. 32 no.4:67-68 Ap '58. (MIRA 11:6)
(Sugar manufacture)

VORONKO, A.I.

Precision beet seed planter (from "Sugar," Sept 1957). Sakh. prom. 32 no.4:69-70 Ap '58. (MIRA 11:6)
(Sugar beets) (Drill (Agricultural implement))

VORONKO, A.I.

"International agricultural journal." Sakh. prom. 32 no.4:76 Ap '58. (MIRA 11:6)
(Agriculture--Periodicals)



4164. IMPROVING OPERATION INSTALLATIONS FOR PRODUCTION OF HEAT AND POWER IN SUGAR REFINERIES. Yarmiko, A.I. (Za Ekonomiyu Topliva (Fuel Econ.), 1949, (7), 34, 35). (L).

VORONKO, A. N.

23159 Uluchshit' Rabotu teplosilovykh ustanovok sakharnykh zavodov. Za ekonomiyu Topliva, 1949, No. 7, c. 34-35.

SO: LETOPIS' NO. 31, 1949

VORONKO, A. T.

Sugar - Manufacture and Refining

Comprehensive mechanization and rationalization of production. Sakh. prom. 26 No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952 1953, Uncl.

Boiling of massecuites with introduction of crystals by the A. A. Shumilov method. G. A. Vizunko (*Sakhar. Prom.*, 1952, No. 3, 25—26; *Sug. Ind. Abstr.*, 1952, 14, 88).—Shumilov's paste (0·3—0·4 kg. per cwt. of syrup) gave better results than did sugar powder. Improvements made in the vac. mixer used are described. The paste was kept in a heat-insulated vessel with an internal stirrer until required. P. S. ARUP.

VORON'KO, G.

Closer to life. Pezh.dele 7 no.11:5-6 N '61. (MIRA 14:11)

1. Nachal'nik inspektsii Gosudarstvennogo pozharnogo nadzora, g. Korkino, Chelyabinskaya obl.
(Korkino--Fire prevention)

VORONKO, G.A.

Sugar - Manufacture and Refining

Boiling massecuite with seed crystal by Professor A.A. Shumilov's method. Sakh. prom. 26 no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED.

VORONKO, I.A.

On the pages of domestic, scientific, and technical magazines.
Sakh. prom. 32 no.5:77-79 My '58. (MIRA 11:6)
(Bibliography--Technology)

LOPATIN, M.I., polkovnik; VORON'KO, K.P., polkovnik; IVKIN, G.V., polkovnik; LAKHIN, A.F., podpolkovnik; SIMAKOV, I.I., mayor; GNEDOVETS, P.P., redaktor; MYASNIKOVA, T.F., tekhnicheskiy redaktor.

[Manual of methods for training soldiers in topography] Posobie po metodike topograficheskoi podgotovki soldat. Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1956. 102 p. (MLRA 9:5)
(Military topography)

L 4007-66 EWT(d)/EWP(c)/EWP(v)/T/EWT(k)/EWP(l)/ETC(m) IW

ACCESSION NR: AP5024419 UR/0286/65/000/015/0105/0106

35

AUTHORS: Yegorov, V. I.; Pasakh, Ye. V.; Bedritskiy, A. G.; Voron'ko, M. P. B

TITLE: Acoustical detector. Class 42, No. 173490

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 105-106

TOPIC TAGS: acoustic detector, elastic oscillation

14

ABSTRACT: This Author Certificate presents an acoustical detector for measuring elastic oscillations in noncorrosive media. The detector contains a cylindrical case, a receiver with a piezo element, and a coaxial cable. To increase the accuracy of measurements, the receiver case is placed inside the cylindrical shell with a fixed air gap (see Fig. 1 on the Enclosure). The receiver case can be moved axially relative to the shell, and is coupled to it by separating rings of sound-absorbent material. Orig. art. has: 1 diagram.

ASSOCIATION: Minskiy traktornyy zavod (Minsk Tractor Factory)

SUBMITTED: 10Apr64 ENCL: 01 SUB CODE: EC, ME

NO REF SOV: 000 OTHER: 000

Card 1/2 UDC: 621.3083.8:534.61

L 4007-66

ACCESSION NR: AP5024419

ENCLOSURE: 01

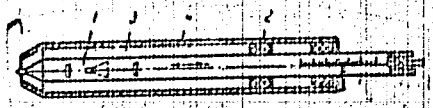


Fig. 1. 1- receiver case; 2- separating rings of acoustical shielding material; 3- air gap; 4- shell

Card 2/2

VOLOKHONSKAYA, M.L.; VORONKO, N.D.; VYSHESLAVTSEV, S.I.; YAROSHEVSKIY, F.Yu.

Results of semicarbazide-cadmium therapy in patients with malignant tumors in incurable stage. Vop. onk. 9 no.6:92-104 '63. (MIRA 17:8)

1. Iz polikliniki No.3 AN SSSR (glavnyy vrach - D.I. Sherstnev, s 1958 g. - I.A. Strunin, zamestitel' glavnogo vracha po lechebnoy chasti - N.P. Vasil'yeva). Adres avtorov: Leningrad, V-164, Universitetskaya naberezhnaya, 5, Poliklinika No.3 AN SSSR.

YAROVIKOV, A.; VORON'KO, P.; GORBIKOV, I. (Sverdlovsk); KARAYANIY, V.

From the editor's mail. Radio no.10:17-18 O '63.
(MIRA 16:11)

1. Zamestitel' predsedatelya Kirovskogo oblastnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Yarovikov). 2. Predsedatel' soveta L'vovskogo oblastnogo radiokluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Karayaniy).

VORON'KO, S. V.

U S S R .

Determination of individual hydrocarbons in gasolines by the combined method. V. Gasoline from Emba crude oil. B. A. Kazanskiy, G. S. Landsberg, A. F. Plate, P. A. Bazhulin, A. L. Liberman, Ye. A. Mikhaylova, M. M. Sushchinskiy, G. A. Tarasova, S. A. Ukholin, and S. V. Voron'ko, (N. D. Zelinskiy Inst. Org. Chem., Acad. Sci. U.S.S.R., Moscow). Izvest. Acad. Nauk S.S.S.R., Otdel. Khim. Nauk 1954, 865-77,;cf. C.A. 48, 14170h. Analysis of gasoline from Emba crude oil by combination distn., chromatography, and dehydrogenation-hydrogenation reactions resulted in estanlishing the structure of 81.1% of the hydrocarbons present. The gasoline is of naphthenic type, and the paraffins are predominantly branched. The following compds. were identified: 2,2-dimethylbutane, 2,3-dimethylbutane, 2-methylpentane, 3-methylpentane, hexane, methylcyclopentane, 2,2-dimethylpentane, 2,4-dimethylpentane, cyclohexane, 3,3-dimethylpentane, 1,1-dimethylcyclopentane, 2,3-diemthyl entane, cis- and trans- 1,3-dimethylcyclopentanes, trans-1,2-dimethylcyclopentane, methyl- and ethylcyclohexanes, 1,2,4-trimethylcyclopentane, 2,2-and 2,4- diemthylhexane, 1,2,3- trimethylcyclopentane, 2,4-dimethylhexane, 1,2,3-trimethylcyclopentane, 3- and 4-methylheptane, 1,1-dimethylcyclopentane, 1,1,3-trimethylcyclohexane, 3- and 4-methyloctanes. EtPh and o-, m-, and p-zylene being the predominant aromatic hydrocarbon.

G. M. Kosolapoff

VORON'KO, S.V.

USSR/ Chemistry Fuels

Card : 1/1

Authors : Kazanskiy, B. A., Landsberg, G. S., Plate, A. F., Bazhulin, P. A., Liberman, A. L., Suschinskiy, N. M., Tarasova, G. A., Ukholin, S. A., Voron'ko, S. V.

Title : Combined method for the determination of the individual hydrocarbon composition of gasolines. Part 4.- Gasoline from the Tuymazinsk petroleum.

Periodical : Izv. AN SSSR, Otd. Khim. Nauk., 3, 456 - 469, May - June 1954

Abstract : The results obtained from the study of the individual hydrocarbon composition of gasoline with end point of 150°, derived from low-sulfur Tuymazinsk petroleum (Devonian horizon), are described. The quantitative, individual hydrocarbon composition of Tuymazinsk gasoline and the general losses are presented in percentage by weight values. The structure of paraffin-base gasoline derived from Tuymazinsk petroleum and the aromatic contents of other hydrocarbons are discussed. Toluene and m-xylene were found to be predominant among aromatic hydrocarbons. Four USSR references. Tables, graphs.

Institution : Acad. of Sc. USSR, The P. N. Lebedev Physics Institute

Submitted : July 20, 1953

VORON'KO, V. F.

Sheep

Practice of the Stalin Collective Farm in using range pastures. Sots. zhiv. 14 no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952, Uncl.

VORONKO, V. F.

Grazing

Practice of the Stalin Collective Farm in using range pastures. Sots. zhiv. 14 No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952, Uncl.