L 26577-66 EWT(m)/EPF(n)-2/EWP(j) RM/JD

ACC NR: AP6016977 SOURCE CODE: UR/0020/65/165/003/0586/0589

AUTHOR: Pudovik, A. N. (Corresponding member AN SSSR); Faizullin, E. M.; Zhuravlev, G. I.

ORG: Kazan' State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: Mechanism and order of addition of phosphorus trichloride and other chlorides of phosphorus acids to propylene oxide

SOURCE: AN SSSR. Doklady, v. 165, no. 3, 1965, 586-589

TOPIC TAGS: phosphorus chloride, ester, tertiary amine, hydrolysis, IR spectrum, phosphorous acid, hydrogen chloride

ABSTRACT: New evidence confirming the proposed mechanism of the reactions of phosphorus trichloride and chlorides of incomplete esters of phosphorous acids with alpha-olefins (through preliminary opening of the oxide ring by hydrogen chloride) was obtained in an investigation of the reaction of propylene oxide with phosphorus trichloride and the chloride of dibutylphosphorous acid. The reactions proceeded readily when the reagents were combined. However, when a small amount of triethylamine was added to the reaction mixtures, these reactions did not take place. If anhydrous propylene oxide was added to the dibutylphosphorous acid chloride, freshly distilled under vacuum, and protected from moisture, no reaction between them was observed. The introduction of

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atmospheric air containing moisture into the reaction volume of the addition of one to two drops of water to the reaction mixture gave rise to a vigorous reaction. The authors conclude that the first step in the reactions considered is a partial hydrolysis of the acid chlorides and interaction of the hydrogen chloride thereby formed with the alpha-oxide. The oxonium ion formed upon addition of a proton to the oxide then either directly reacts with the chloride ion, to form propylene glycol chlorohydrin, which then reacts with the acid chloride, or perhaps simultaneously with the chloride ion, molecules of the chlorohydrin are involved in the reaction. When the chlorine atoms are replaced by alkoxyl groups, the basicity of the phosphorus atom decreases, which facilitates the reactions of the acid chloride with the oxide. A mixed ester of phosphorous acid is formed, and hydrogen chloride is regenerated. The reaction of propylene oxide with phosphorus trichloride was conducted in ether solution with cooling, at ratios of 1:1, 2:1, and 3:1; the dichloride of beta-chloroisopropylphosphorous acid, and tri-beta-chloroisopropyl phosphite were obtained in good yields. The presence of a secondary alcohol group in the investigated chlorohydrin was corroborated by the infrared spectra and chemical investigations. Orig. art. has: 1 figure and 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 10Mar65 / ORIG REF: 004 / OTH REF: 002

L 40005-66 EWP(k)/EWT(m)/T/EWP(e)/EWP(v)/EWP(t)/ETI IJP(c) WH/WW/JD

ACC NR: AP6008276 SOURCE CODE: UR/0080/66/039/002/0455/0457

AUTHOR: Avgustinik, A. I.; Zhuravlev, G. I.; Vigdergauz, V. S.

39
B

ORG: none

TITLE: Effect of copper oxides on the adhesion of some glasses to copper

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 2, 1966, 455-457

TOPIC TAGS: adhesion, glass coating, cuprous oxide, wire, copper

ABSTRACT: The strength of adhesion of glass coatings to copper wire was investigated. The authors used glass consisting of CaO-Al_2O_3-SiO_2-B_2O_3 to which 0.5, 1.0, 1.5, 2.0, 3.0, 5.0 and 8% copper oxide was added and calcinated at 1200°C for 10, 20, 30 and 50 sec. At a certain radius of the bend on the exterior part of glass coating cracks appeared in the form of a half ring, the planes of which were perpendicular to the axis of the wire. If edges of crack zones are uniform and plumb to the surface of the wire, this indicates that the destruction resulted from scaling; if the crack zone is funnel shaped, this means that the destruction is due to the elastic stresses resulting from coating. It was noticed that at a certain copper oxide content in glass, the cohesive force reaches a maximum, then drops. Both brief as well as extended calcination decreased the cohesive force of coating. An equation is given for determining cohesive force. Orig. art. has: 3 figures, 3 formulas.

SUB CODE: 07,11/ SUBM DATE: 11Jun64/ ORIG REF: 003

UDC: 666.113

Card 1/1

L 04847-67 EWP(j)/EWT(m) RM

ACC NR: AP7000240 SOURCE CODE: UR/0079/66/036/004/0718/0724

43
B

AUTHOR: Pudovik, A. N.; Fayzullin, E. M.; Zhuravlev, G. I.

ORG: Kazan' State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: Reactions of alpha-oxides with dialkyldithiophosphoric and dithiophosphinic acids

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 4, 1966, pp 718-724

Abstract: The addition of dialkyldithiophosphoric and diphenyldithiophosphinic acids to nonsymmetrical alpha-oxides of olefins, e.g. glycerin epichlorohydrin, propylene, divinyl, styrene, and glycidol oxides, was studied. The reactions proceed readily without catalysts and are accompanied by a substantial thermal effect. Conclusions on the structure of the addition products and the order of addition of dithioacids to alpha-oxides (in accord with the Markovnikov rule) were drawn on the basis of a study of the chemical properties and infrared spectra of the products. The acid esters of dithiophosphoric and diphenyldithiophosphinic acids were found to be electrophilic in reactions with alpha-oxides, the reactions proceeding with preliminary formation of intermediate oxonium compounds. In the reaction of ethyleneglycol chlorohydrin, 2,3-propyleneglycol chlorohydrin, and

Card 1/1 UDC: 547.26'118 0923 0778

L 04847-67

ACC NR: AP7000240

glycerin dichlorohydrin with the potassium salt of diethyldithiophosphoric acid, the corresponding ethyl esters of O,S-alkyleneglycoldithiophosphoric acid were obtained. Orig. art. has: 1 table. [JPRS: 37,177]

TOPIC TAGS: IR spectrum, organic phosphorus compound, ester

SUB CODE: 07 / SUBM DATE: 12 Apr 65 / ORIG REF: 005 / OTH REF: 002

Card 2/2

L 06290-67 EWT(m)/EWP(e)/EWP(v) WH/WW/GD

ACC NR: AT6027146 SOURCE CODE: UR/0000/65/000/000/0189/0192

AUTHOR: Avgustinik, A. I.; Zhuravlev, G. I.; Vigdergauz, V. S.

34
B+1

ORG: none

15

TITLE: Interaction of certain glasses with copper at elevated temperatures

SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Issledovaniya v oblasti khimii silikatov i okislov (Studies in the field of chemistry of silicates and oxides). Moscow, Izd-vo Nauka, 1965, 189-192

TOPIC TAGS: silicate glass, borate glass, protective coating, copper, cuprous oxide

ABSTRACT: The processes occurring during firing of vitreous coatings of the CaO-Al_2O_3-SiO_2-B_2O_3 system on copper were studied. Coatings about 0.2 mm thick were deposited on plates 30 x 30 x 0.8 mm by electrophoresis and fired at 1020-1220°K for 1.5, 2.5, 3.5 and 4.5 min. Cupric oxide was introduced into the coatings in the amount of 0-0.8%. Chemical analysis showed that a certain amount of copper migrates into the coatings from the copper substrate during firing. The copper thus dissolved in the coating is present in the form of cuprous oxide aggregates which are colloidal in size. The presence of Cu^{2+} ions in the coatings increases the oxidation rate of copper under the coatings during firing and the adhesion of the coatings to copper. The increase in adhesive strength is apparently due to the formation of chemical bonds between

Card 1/2

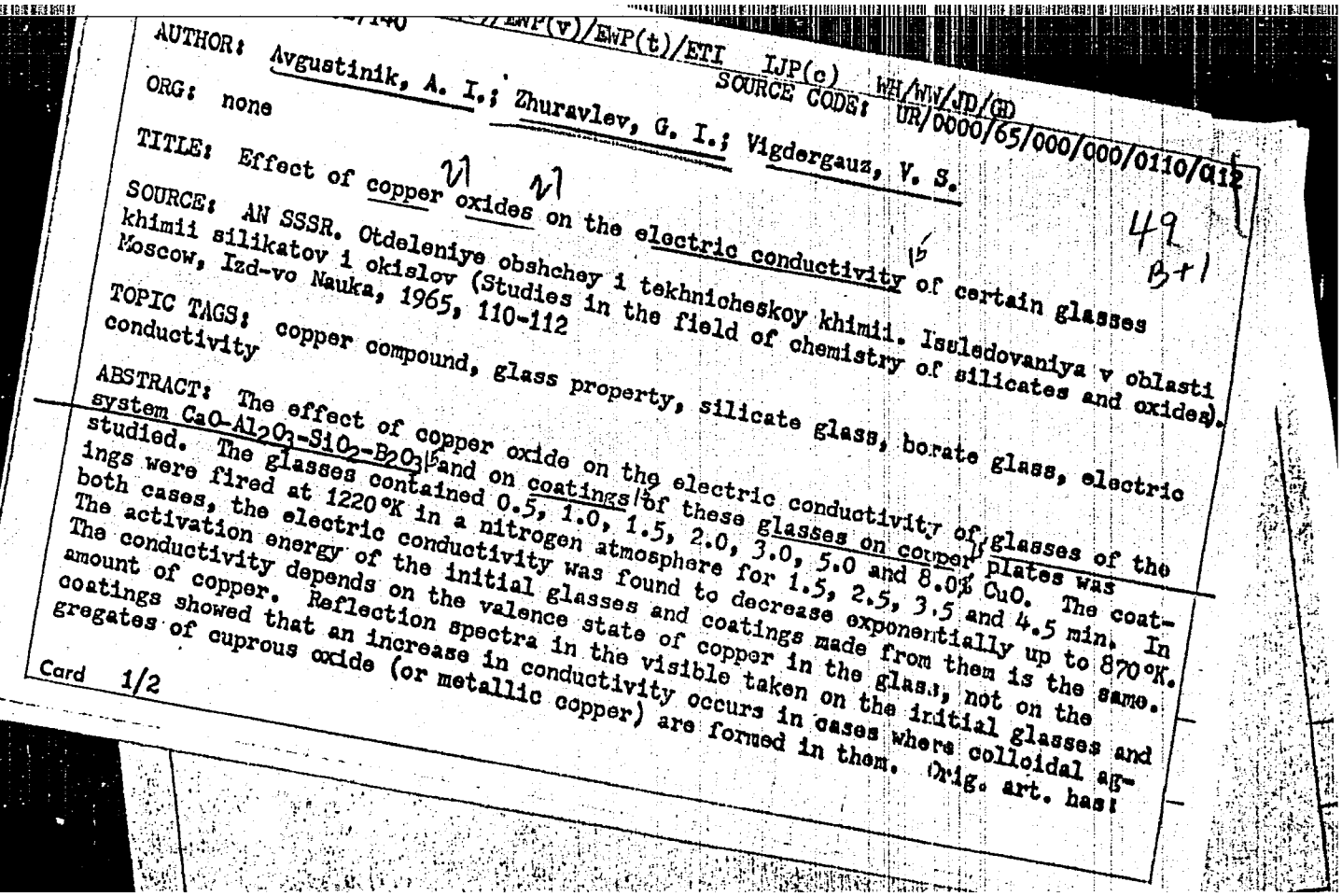
L 06290-67

ACC NR: AT6027146

these ions and the surface atoms of copper via oxygen. Orig. art. has: 2 figures.

SUB CODE: 11/ SUBM DATE: 11Jun64/ ORIG REF: 002/ OTH REF: 007

Card 2/2



/140 EWP(v)/EWP(t)/ETI IJP(c) WH/WW/JD/GD
SOURCE CODE: UR/0000/65/000/000/0110/0112

AUTHOR: Avgustinik, A. I.; Zhuravlev, G. I.; Vigdergauz, V. S.

ORG: none

TITLE: Effect of copper oxides on the electric conductivity of certain glasses

SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Issledovaniya v oblasti khimii silikatov i okislov (Studies in the field of chemistry of silicates and oxides). Moscow, Izd-vo Nauka, 1965, 110-112

TOPIC TAGS: copper compound, glass property, silicate glass, borate glass, electric conductivity

ABSTRACT: The effect of copper oxide on the electric conductivity of glasses of the system $CaO-Al_2O_3-SiO_2-B_2O_3$ and on coatings of these glasses on copper plates was studied. The glasses contained 0.5, 1.0, 1.5, 2.0, 3.0, 5.0 and 8.0% CuO. The coatings were fired at 1220°K in a nitrogen atmosphere for 1.5, 2.5, 3.5 and 4.5 min. In both cases, the electric conductivity was found to decrease exponentially up to 870°K. The activation energy of the initial glasses and coatings made from them is the same. The conductivity depends on the valence state of copper in the glass, not on the amount of copper. Reflection spectra in the visible taken on the initial glasses and coatings showed that an increase in conductivity occurs in cases where colloidal aggregates of cuprous oxide (or metallic copper) are formed in them. Orig. art. has:

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L 11804-67 EWT(m)/EWP(j) RM

ACC NR: AP7003661

SOURCE CODE: UR/0079/66/036/008/1454/1459

AUTHOR: Pudovik, A. N.; Fayzullin, E. M.; Zhuravlev, G. I. 16

ORG: Kazan' State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: Reactions of olefin oxides with phosphorus oxychloride and diethyl chlorophosphate

SOURCE: Zhurnal obshchey khimii v. 36, no. 8, 1966, 1454-1459

TOPIC TAGS: ethylene oxide, organic oxide, organic phosphorus compound

ABSTRACT: It was found that phosphorus oxychloride and diethyl chlorophosphate are readily added to alpha-oxides of olefins in the presence of small quantities of water or hydrochloric acid. The olefin oxides tested were ethylene oxide, propylene oxide, and glycerin epichlorohydrin. The reaction was refractory or did not proceed at all in the absence of traces of water or hydrochloric acid. A reaction scheme involving the formation of an oxonium intermediate, which is then converted to a glycol chlorohydrin, is proposed. In the reaction of phosphorus oxychloride with propylene oxide, opening of the oxide ring occurs on the side of the primary carbon atom. When the olefin oxides are treated with phosphorus oxychloride in 1:1, 2:1, and 3:1 ratios in the presence of a small amount of hydrogen chloride, monochlorides, dichlorides, and complete esters of the corresponding beta-chloroalkylphosphoric acids are obtained. A series of dialkyl-beta-chloroalkyl esters of phosphoric acid were obtained by the reactions of dichlorides of beta-chloroalkylphosphoric acids with alcohols. Orig. art. has: 2 tables. [JPRS: 38,970]

SUB CODE: 07 / SUBM DATE: 03Jul65 / ORIG REF: 003

Card 1/1 jb

UDC: 547.71

0926 0284

ACC NR: AP6034016 (N) SOURCE CODE: UR/0226/66/000/010/0036/0043

AUTHOR: Zhuravlev, G. I.

ORG: Leningrad Technological Institute im. Lensoveta (Leningradskiy tekhnologicheskiy institut)

TITLE: On the heat stability of ceramic coatings on metals

SOURCE: Poroshkovaya metallurgiya, no. 10, 1966, 36-43

TOPIC TAGS: ceramic coating, refractory coating, ceramic to metal seal, stress analysis, stress, stress calculation, thermal stability

ABSTRACT: A theoretical analysis is made and formulas are derived for calculating heat included stresses in both ceramic coating and base metal. The stresses appear with cooling of ceramic-coated metals because of different coefficients of linear expansion of the materials. The stress calculation formulas are suitable for plane and curved surfaces, and take into account not only elastic deformation, but also plastic and creep deformations in both ceramic coating and the base metal. With the derived formulas fed into a computer, stresses have been calculated in refractory MgO, Al_2O_3, ThO_2, BeO, ZrO_2 and CeO_2 deposited on tungsten and molybdenum. Orig. art. has: 5 figures, 3 tables, and 12 formulas.

SUB CODE: 11/ SUBM DATE: 14Oct65/ ORIG REF: 004/ OTH REF: 004

Card 1/1

PUDOVIK, A.N .; FAYZULLIN, E.M.; ZHURAVLEV, G.I.

Mechanism and order of addition of phosphorus trichloride and other phosphoryl chlorides to propylene oxide. Dokl. AN SSSR 165 no.3:586-589 N '65. (MIRA 18:11)

1. Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina. 2. Chlen-korrespondent AN SSSR (for Pudovik).

PANCHENKOV, G.M.; YAKOVLEV, V.I.; KOZLOV, L.I.; ZHURAVLEV, G.I.

Radiation-thermal cracking of oil fractions. Trudy MIKhiGP no.44:210-213 '63. (MIRA 18:5)

KLYGIN, A.Ye.; ZHURAVLEV, G.I.; SMIRNOVA, I.D.

Protolytic equilibrium of neutral red in hydrochloric acid solutions. Zhur. anal. khim. 19 no.6:657-659 '64.
(MIRA 18:3)

ZHURAVLEV, G.I.; NEMTSEVA, M.F.

Analysis of solutions by means of spark discharge. Zhur. anal. khim. 19 no.12:1449-1458 '64 (MIRA 18:1)

ZHURAVLEV, G.I.; GAVRILOVA, I.A.

Determination of sodium, potassium, and calcium in uranium and its compounds by flame photometry. Zhur. anal. khim. 19 no. 1: 54-58 '64. (MIRA 17:5)

ZHURAVLEV, G.I.; RYZHKOVA, L.I.

Photoelectric method of spectral analysis of solutions. Zhur. anal.khim. 18 no.8:930-936 Ag '63. (MIRA 16:12)

PANCHENKOV, G.M.; YAKOVLEV, V.I.; KOZLOV, L.L.; ZHURAVLEV, G.I.; GOL'DIN, V.A.; RYABUKHIN, Yu.

Radio-thermal cracking of gas oil of Romashkino petroleum. Izv. vys. ucheb. zav.; neft' i gaz 4 no.12:99-101 '61. (MIRA 16:12)

AVGUSTINIK, A.I.; VIGDERGAUZ, V.S.; ZHURAVLEV, G.I.

Electrophoresis as a method of depositing ceramic coatings.
Zhur. prikl. khim. 36 no.11:2539-2540 N '63.
(MIRA 17:1)

ACCESSION NR: AT4008703 S/2982/63/000/044/0210/0213

AUTHOR: Panchenkov, G. M.; Yakovlev, V. I.; Kozlov, L. L.; Zhuravlev, G. I.

TITLE: Radiation thermal cracking of petroleum fractions

SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promy*shlennosti. Trudy*, no. 44, 1963. Neftekhimiya, pererabotka nefti i gaza, 210-213

TOPIC TAGS: cracking, petroleum product cracking, thermal cracking, radiation cracking, radiation thermal cracking, gamma irradiation, gas oil radiation cracking, petroleum product irradiation, gasoline fraction irradiation, petroleum refining, petroleum cracking, radiation cracking

ABSTRACT: Gas oil from Romashkinskaya petroleum (fraction 300-345C) was irradiated (100 r/sec) at temperatures of 400 and 425C. Another series of experiments employed the 350-500C fraction of the same petroleum, a radiation dosage of 92 r/sec and temperatures of 375 and 390C. The designations "RTC" and "HC" are used here to indicate heat cracking processes with and without the use of radiation, respectively. The authors found that radiation accelerates the decomposition of the original gas oil by 50 to 100% (see Figs. 1 and 4 in the Enclosure). The yield of gasoline fractions showed preferrable patterns for the 300-345C fraction at 425C and radiation levels above 3500 r, as well as for the other fraction at 390C and

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ACCESSION NR: AT4008703

levels above 3000 r (see Figs. 2 and 3 in the Enclosure). The content of olefins in gasoline fractions is lower for RTC than in corresponding fractions for HC. Orig. art. has: 4 graphs.

ASSOCIATION: INSTITUT NEFTEKHIMICHESKOY I GAZOVOY PROMY*SHLENNOSTI, MOSCOW (Institute for petroleum chemistry and the gas industry)

SUBMITTED: 00 DATE ACQ: 16Jan64 ENCL: 04

SUB CODE: FL NO REF SOV: 006 OTHER: 002

Card 2/2

AVGUSTINIK, A.I.; VIGDERGAUZ, V.S.; ZHURAVLEV, G.I.; KHAMOVA, V.I.

Simultaneous precipitation of several components for obtaining ceramic coatings by electrophoresis. Zhur. prikl. khim. 36 no.8:1646-1650 Ag '63. (MIRA 16:11)

AVGUSTINIK, A.I.; VIGDERGAUZ, V.S.; ZHURAVLEV, G.I.

Effect of the dispersity of the solid phase on its electrophoretic precipitation from suspensions. Zhur. prikl. khim. 36 no.8:1650-1654 Ag '63. (MIRA 16:11)

AVGUSTINIK, A.I.; VIGDERGAUZ, V.S.; ZHURAVLEV, G.I.

Electrophoretic precipitation of ceramic masses from suspensions and calculation of the yield of precipitate. Zhur.prikl.khim. 35 no.10:2175-2180 O '62. (MIRA 15:12)
(Electrophoresis) (Ceramics)

AVGUSTINIK, A.I.; VIGDERGAUZ, V.S.; ZHURAVLEV, G.I.

Effect of additions of electrolytes on the electrophoretic precipitation of ceramic masses from suspensions. Zhur.prikl. khim. 35 no.10:2338-2341 O '62. (MIRA 15:12)
(Ceramics) (Electrophoresis) (Electrolytes)

S/080/62/035/010/005/012
D204/D307

AUTHORS: Avgustinik, A.I., Vigdergauz, V.S. and Zhuravlev, G.I.

TITLE: Electrophoretic deposition of ceramics from their suspensions and the calculation of the yields of the deposits

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 10, 1962, 2175-2180

TEXT: The mechanisms of the formation of electrical double layers are summarized, for the case of a finely dispersed solid phase suspended in a liquid, focusing the interest on the mechanism in which ions are adsorbed on the solid particles, since this is of the greatest importance for the purpose of electrophoretic deposition. The effects of electrolyte additions are discussed. The present authors studied the deposition of refractory coatings on metals, to determine whether the electrophoretic method is effective, in a glass vessel containing as electrodes a Ni cylinder 19 mm in diameter and 70 mm long, and a coaxially placed 0.5 mm Cu wire, 60 - 70 mm

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Electrophoretic deposition ...

long. The deposition took place on the Cu wire, the yields being determined by weighing. The suspensions were prepared from 5 - 6 μ and smaller particles ultrasonically dispersed in 96% EtOH, and 1% HCl was used as the electrolyte. The yields were found to increase almost linearly with the time of deposition (at a voltage of 11 v) and with applied voltage (for 4 sec periods of deposition), the times of deposition being controlled by a relay. The yields (weights) of the deposit are shown to be given by

$$\gamma_l = \frac{u\xi\varepsilon Ctl}{3\ln\frac{r_1}{r_2}\eta} \quad , \qquad (8)$$

where ξ is the electrokinetic potential, ε the dielectric constant of the medium, C the particle concentration, t the time of deposition, r_1 and r_2 the radii of the inner and outer electrodes of length l, and η is the viscosity of the medium. [Abstracter's note: u is not defined but probably a misprint for U, the applied voltage]. The experimental yields were generally higher than those calculated by the formula, for the following conditions: (1) U = 11 v,

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S/080/62/035/010/011/012
D204/D307

AUTHORS: Avgustinik, A.I., Vigdergauz, V.S. and Zhuravlev, G.I.

TITLE: The effect of electrolyte additions on the electrophoretic deposition of ceramic masses from suspensions

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 10, 1962, 2338-2341

TEXT: The present work is a continuation of an earlier study (ZhPKh, 35, 10, 2175 (1962)), devoted to the electrophoretic deposition of ceramic coatings from suspensions. The importance of the electrokinetic potential of the particles on the process of deposition is underlined. It is concluded that this quantity is in turn controlled by the formation of ionic double layers, by selective adsorption of similarly charged ions on the solid phase, i.e. by the addition of electrolytes. The effects were studied of $Th(NO_3)_4 \cdot 8H_2O$, HCl, HNO_3, H_2SO_4 and $Al(NO_3)_3 \cdot 9H_2O$, on suspensions of MgO, Al_2O_3 - SiO_2 - CaO glass, NbC, and magnesium mica-phlogopite,

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the suspensions consisting of 2g of the solid particles in 30 cm^3 of 96% EtOH. It was found that in general the yields of the deposits (0 to 4 x 10-3 g/cm^2) increased sharply to a maximum and gradually fell away as increasing amounts of electrolytes were added (0 - 160 x 10-5 moles). All experiments were carried out with an applied voltage of 12 v and a deposition time of 5 sec. No deposition was achieved with H_2SO_4, or in the absence of electrolytes. The yield maxima correspond to the complete formation of ionic double layers (maximum electrokinetic potentials), which then contract, owing to the effect of oppositely charged ions, when further electrolyte is added, (lowering of the electrokinetic potential). Suitable electrolytes are those in which one ion (e.g. Th^{4+}, Al^{3+}, H^+) exhibits specific adsorption, and the other possesses a low charge and is not too large (Cl^-, NO_3^-). There are 5 figures.

SUBMITTED: April 13, 1962

Card 2/2

ZHURAVLEV, G.I.

2

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S/152/61/000/012/002/002
B126/B101

11.0130

AUTHORS: Panchenkov, G. M., Yakovlev, V. I., Kozlov, L. L., Zhuravlev, G. I., Gol'din, V. A., Ryabukhin, Yu. S.

TITLE: Radiation thermal cracking of gas-oil from Romashki petroleum

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, no. 12, 1961, 99 - 101

TEXT: The effect of gamma radiation on the cracking of gas-oil, F. B. P. 300 - 345°C, from Romashki petroleum has been studied. For the experiments a gamma unit, K-18000 (K-18000), was used, and the dose was maintained constant at 100 r/sec.; the temperatures were 400 and 425°C, the maximum dose was 5 Mr, and the experiment took 14 hr. It was established that Co^{60} gamma rays intensifies the cracking process considerably, and that the feed is converted twice as rapidly as in thermal cracking. The yield of the lightest fraction, I. B. P 200°C, exceeds that of all other fractions from a dose of 3.5 Mr upward and reaches 30 to 35% of the feed at a dose of 5 Mr. However, the olefin content of this fraction is lower than that of the corresponding fraction in thermal cracking. There are 6 figures and

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30690

Radiation thermal crackingof gas-oil ... S/152/61/000/012/002/002
B126/B101

5 references: 3 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: Lucchesi P. J., Tarmy B. L., Long R. B., Baeder D. L., Longwell J. P., "Ind. Eng. Chem". 50 no. 6, 876, 1958; Pat. USA no. 2516848, 1950.

ASSOCIATION: Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I. M. Gubkina (Moscow Institute of the Petrochemical and Gas Industry imeni Academician I. M. Gubkin)

SUBMITTED: August 14, 1961

Card 2/2

ZHURAVLEV, G.M.

SHESTOPEROV, S.V., doktor tekhnicheskikh nauk; BOGIN, N.M., kandidat tekhnicheskikh nauk; IVANOV, G.S., inzhener; LUKICHEV, N.A., inzhener; DAVYDOV, L.S., inzhener; GROMOV, V.S., inzhener; POPOV, N.A., inzhener; ZHURAVLEV, G.M., master.

Vibraters for making wire reinforced ties on stands. Transp.stroi. 6 no.3:12-14 Mr '56. (MLRA 9:7)
(Railroads--Ties, Concrete)

VESELOV, Nikolay Grigor'yevich; OSINTSEV, Arkadiy Stepanovich; ZHURAVLEV, G.P., retsenzent; VERSHININ, A.M., red.; SYRCHINA, M.M., red. izd-va; MATLYUK, R.M., tekhn. red.

[Analysis of potentialities for the reduction of the cost of cast iron] Analiz rezervov snizheniia sebestoimosti chuguna. Sverdlovsk, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1961. 124 p. (MIRA 14:6)
(Cast iron) (Metallurgical plants—Costs)

ZHURAVLEV, G.P.

Improving the indices of the state plan in ferrous metallurgy.
Stal' 22 no.4:355-356 Ap '62. (MIRA 15:5)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat.
(Steel industry--Accounting) (Iron--Metallurgy)
(Steel--Metallurgy)

ZHURAVLEV, G.P.; KHOROSHILOV, I.F.; POPOV, K.A.

Methodology problems in labor productivity accounting. Stal' 16 no.11:1032-1034 N '56. (MIRA 10:1)

1. Novo-Tagil'skiy metallurgicheskiy zavod (for Zhuravlev). 2. Zavod "Azovstal'" (for Khoroshilov). 3. Kuznetskiy metallurgicheskiy kombinat (for Popov).

(Metallurgical plants--Accounting)

ZHURAVLEV, G.S.

The ZK-200 potato loader. Biul.tekh.-ekon.inform. no.7: 54-55 '60. (MIRA 13:7)
(Agricultural machinery)

ZHURAVLEV, G.S.

The KSP-10 potato-sorting unit. Biul.tekh.-ekon.inform. no.5:60-61 '61. (MIRA 14:6)

(Potatoes—Grading)

YEGOROV, L.B.; ZHURAVLEV, G.V.; IGNATENKO, A.Ye.; KUPTSOV, A.V.; LI SYUAN-MIN; PETRASHKU, M.G.

Investigating the spin dependence of weak interaction in the process $\mu^- + p \rightarrow n + \gamma$. Zhur.eksp.i teor.fiz. 41 no.3:684-691 S '61. (MIRA 14:10)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Nuclear reactions) (Protons) (Mesons)

YEGOROV, L.B.; ZHURAVLEV, G.V.; IGNATENKO, A.Ye.; LI SYUAN-MIN; PETRASHKU, M.G.; CHULTEM, D.

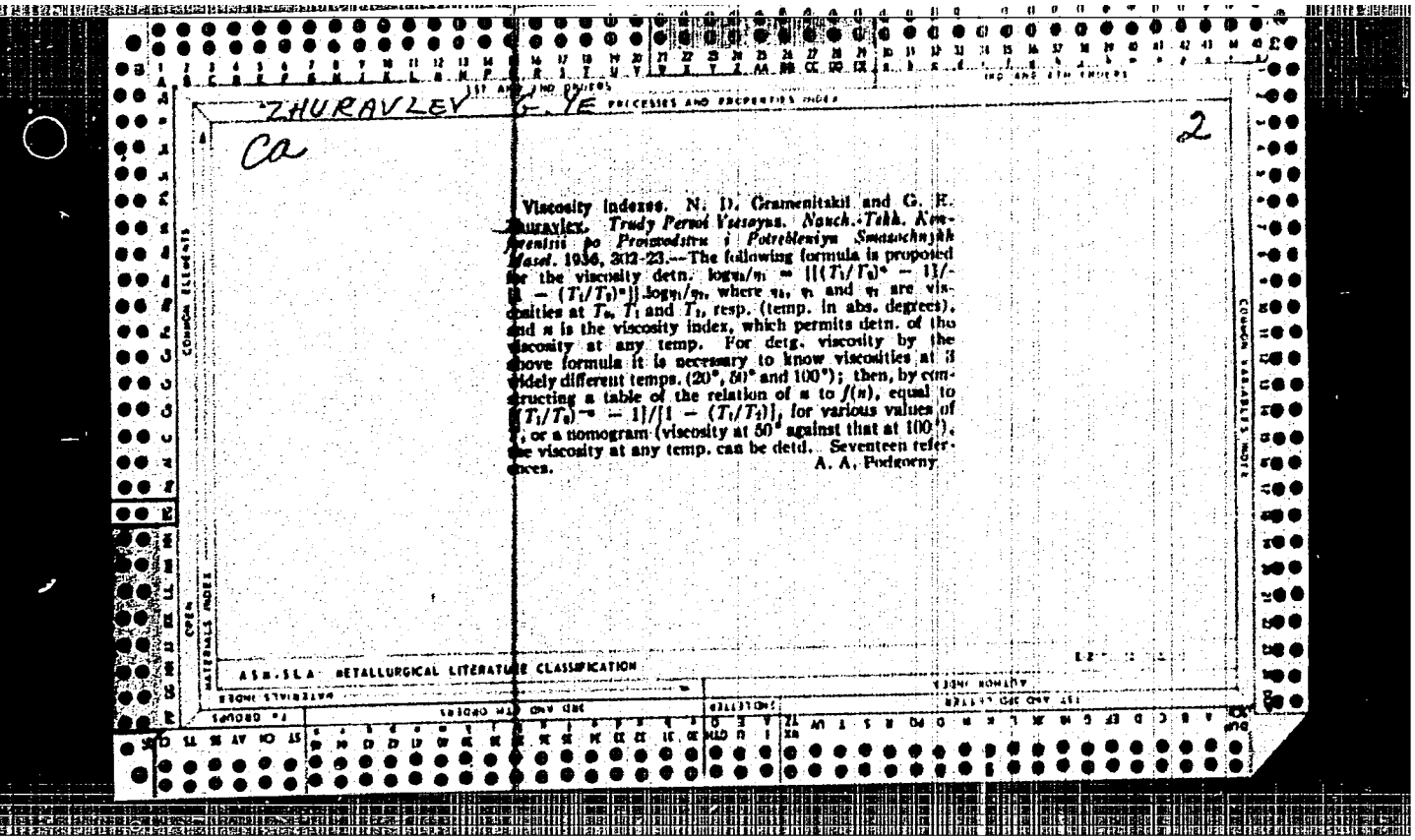
Investigating the paramagnetism of μ-mesonic atoms. Zhur. eksp. i teor. fiz. 40 no.2:391-399 F '61. (MIRA 14:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Mesons)

IGNATENKO, A.Ye.;KUPTSOV, A.B.; LI SUANG-MING; PETRASKU, M.G.; YEGOROV, L.B.; ZHURAVLEV, G.V.

Spin dependence of weak interaction in the process $\mu^- + p \rightarrow n + \nu$ Dubna, Izdatel'skii otdel Ob"edinennogo in-ta iadernykh issledovanii, 1961. 13 p. (MIRA 14:10)

(No subject heading)



ZHURAVLEV G. YE

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Viscosity indexes. N. D. Gramenitskii and G. E. Zhuravlev. *Trudy Pervoi Vsesoyus. Nauch.-Tekh. Konferentsii po Proizvodstvu i Potrebleniyu Smazochnykh Masel.* 1936, 312-23.—The following formula is proposed for the viscosity detn., $\log \eta_n/\eta_1 = [(T_1/T_2)^n - 1]/[1 - (T_1/T_2)^n]\log \eta_2/\eta_1$, where η_n, η_1 and η_2 are viscosities at T_n, T_1 and T_2, resp. (temp. in abs. degrees), and n is the viscosity index, which permits detn. of the viscosity at any temp. For detg. viscosity by the above formula it is necessary to know viscosities at 3 widely different temps. (20°, 50° and 100°); then, by constructing a table of the relation of n to $f(n)$, equal to $[(T_1/T_2)^n - 1]/[1 - (T_1/T_2)]$, for various values of n, or a nomogram (viscosity at 50° against that at 100°), the viscosity at any temp. can be detd. Seventeen references.

A. A. Podgorny

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZHURAVLEV, G. Ye. Cand. Tech. Sci.

Dissertation: "Basic Factors Affecting the Fuel Feed in Airplane with Diesel Engine." Central Inst of Aviation Fuels and Oils--TsIATIM, 4 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

ZHURAVLEV, I.

Collective farms are preparing to shift to monetary compensation for work. Sots. trud. 4 no.10:125-127 O '59 (MIRA 13:3)
(Collective farms--Wages)

BARABASH, M.; ZHUKOVA, N.; ZHURAVLEV, I.; ZIKOVKIN, G.

Technically based time norms for loading and unloading work in refrigerators. Biul.nauch.inform.: trud i zar.plata 3 no.9:27-30 '60. (MIRA 13:9)
(Loading and unloading--Production standards) (Refrigerators)

ZHURAVLEV, I., general-leytenant aviatsii v zapase, Geroy Sovetskogo Soyuza.

They fought for their fatherland. Kryl.rod. 11 no.10:18 O '60.
(MIRA 13:11)

(World War, 1939-1945--Aerial operations)

ZHURAVLEV, I.

On the size of administrative and managerial personnel.
Sots. trud 6 no.5:131-133 My '61. (MIRA 14:6)
(Industrial management)

ZHURAVLEV, I. I.

I. I. Zhuravlev, Practical Instructions on the Disinfection of Forest Seeds and Soils, Central Scientific-Research Institute of Forest Economy, Leningrad, 1947, 25 pp. 464.4 Z6

SO: Sira Si 90-53, 15 Dec 1953

ZHURAVLEV, I. I.

23474. SROKI PROTRAVLIVANIYa POChVY PRI BOR'BE S FUZARIOZOM SEYaNTsEV. V SB: ISSLEDOVANIYa PO LES. KhOZ-VU. L., 1948 (NA OBL: 1949), c. 255-66. -- BIBLIOGR: 6 NAZV.

SO: LETOPIS' NO. 31, 1949.

ZHURAVLEV, I. I.

Major pests and diseases of trees and bushes Leningrad, Ministerstvo kommunal'nogo khoziaistva RSFSR, 1949. 207 p.

1. Trees-Diseases and pests. 2. Pests.

ZHURAVLEV, I. I.

I. I. Zhuravlev "New Method of (Tree) Seed Disinfection" Lesnoe Khoziaistvo, vol. 5. no. 7, 1952, pp. 52-54. 99.8 L5622

SO: Sira Si 90-53, 15 Dec 1953

ZHURAVLEV, I. I.

USSR/Agriculture - Plant Diseases, Sep/Oct 52
Forest Shelter Belts

"Virulence of Fusaria in Causing Damping-off of Conifers," I. I. Zhuravlev, Leningrad Rayon Sta for the Control of Forest Seeds

"Mikrobiologiya" Vol 21, No 5, pp 588-593

States that fungi of the Genus Fusarium exhibit various degrees of virulence in relation to conifers. Author made a study of 11 species of Fusaria known in the USSR, which cause the damping-off of conifers, resulting in the discovery

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that some of them destroy 75-95% of seeds and sprouts. States that the greatest damage to seeds, shoots, and conifers is caused by F.poae (Peck) Wr., F. moniliforme Sheld, F. anguioides Sherb., F. coeruleum (Lib.) Sacc. According to author, this study is important in the USSR, because it is connected with the program for the development of forest shelter belts. In connection with this study, species of Fusaria which cause damage to agricultural and truck-garden crops were investigated.

229T1

ZHURAVLEV, I.I.

Fusarium infection of tree and shrub seedlings and ways of combatting it. Geog.sbor.no.2:145-166 '53. (MLRA 7:2)
(Plant diseases) (Fusarium)

ZHURAVLEV, I.I.; SKABICHEVSKAYA, T.P.

Infection of seeds by the fungus Alternaria. Geog.sbor.no.2: 167-171 '53. (MLRA 7:2)
(Fungi) (Botany--Pathology)

ZHURAVLEV, I.I.; SKABICHEVSKAYA, T.P.

Pathogenicity of Alternaria fungi in relation to seedlings of conifer varieties in the taiga zone. Mikrobiologiia 32 no.6:719-722 N-D '53. (MLRA 6:12)

1. Leningradskaya kontrol'naya stantsiya lesnykh semyan.
(Fungi, Pathogenic) (Coniferae)

Leningrad control station forest seeds

ZHURAVLEV, I.I.; SOFYAN, L.A.; KECHEK, N., otvetstvennyy redaktor; TATEVOSYAN, S., redaktor izdatel'stva; KAPLANYAN, H., tekhnicheskiy redaktor

[Practical instructions for controlling lodging of seedlings in nurseries] Prakticheskie ukazaniia po bor'be s poleganiem sejantsev v pitomnikakh. Erevan, Izd-vo Akademii nauk Armianskoi SSR, 1955. 43 p. (Nauchno-populiarnaia seriia, no.4) (MIRA 9:12)
(Seedlings)

ZHURAVLEV, I.I.

VORONKEVICH, I.V.; GORLENKO, Mikhail Vladimirovich, professor; ZHURAVLEV, I.I.; NOVOTEL'NOVA, N.S.; STEPANOV, K.M.; KHOKHRYAKOV, M.K.; GAMZAYEVA, M., tekhnicheskiy redaktor

[Fungi, man's friends and enemies] Griby - druz'ia i vragi cheloveka. Pod red. M.V.Gorlenko. Moskva, Gos. izd-vo "Sovetskaia nauka," 1956. 187 p. (MLRA 10:8)
(Fungi)

ZHURAVLEV, I. I.

KURSANOV, Lev Ivanovich, professor [deceased]; [illegible], N.A., professor; KHOKHRYAKOV, M.K., doktor biologicheskikh nauk; [illegible], M.A., dotsent; SOKOLOV, D.V., dotsent; ZHURAVLEV, I.I., kandidat biologicheskikh nauk; BREZHNEV, I.Ye., kandidat biologicheskikh nauk; TSESHINSKAYA, N.I., redaktor; POPRYADUKHIN, tekhnicheskiy redaktor

[Guide to the lower plants] Opredelitel' nizshikh rasteniĭ; v piati tomakh. Moskva, Gos.izd-vo "Sovetskaia nauka." Vol.4. [Fungi] Griby. Pod obshchei red. L.I.Kursanova. 1956. 448 p. (MIRA 10:10)
(Fungi)

ZHURAVLEV, I. I. Doc Agr Sci -- (diss) " Epiphytoties of Fusariosis of varied forest seedlings in the USSR." Len, 1957. 31 pp 20cm. (Min of Agr, USSR, Len Agr Inst), 100 copies. (KA, 13-57, 100)

VAKIN, A.T., prof.; GOLOVIN, P.N., prof., doktor biolog.nauk; DOBROZRAKOVA, T.L., dotsent; ZHURAVLEV, I.I., doktor sel'skokhoz.nauk; POLYAKOV, I.M.; SOKOLOV, D.V., dotsent; STEPANOV, K.M., doktor biolog.nauk; TUPENEVICH, S.M., prof.; FEDORINCHIK, N.S., kand.sel'skokhoz.nauk; FEDOTOVA, T.I., doktor sel'skokhoz.nauk; KHOKHRYAKOV, M.K., doktor biolog.nauk; CHIGAREV, G.A., kand.sel'skokhoz.nauk; YATSENKO, I.P., prof. [deceased]; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V., tekhn.red.

[A phytopathologist's dictionary - reference book] Slovar'-spravochnik fitopatologa. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 414 p. (MIRA 13:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Polyakov).
(Plant diseases--Dictionaries)
(Russian language--Dictionaries)

USSR / Plant Diseases. Diseases of Forest Species. 0

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100550

Author : Vanin, S. I.; Bazhenova, L. A.; Zhuravlev, I. I.; Sokolov, D. V.

Inst : Leningrad Forest Technology Academy

Title : Phytopathological Condition of Larch Plantings in Lindulovskaya Grove and Technical Properties of Their Wood

Orig Pub : Tr. Leningr. lesotekhn. akad., 1957, vyp 82, ch. 1, 105-116

Abstract : A phytopathological survey in 1949 of Lindulovskaya grove, laid in 1738-1805 in Roshchinskiy forest range in Leningradskaya oblast', showed a severe infection of larch tree stands with root rots. 33% of trees were affected with the root-rot fungus (Fomes annosus), 26% - with Schweinitz pore fungus (Polyporus schweinitzii) and

Card 1/3

USSR / Plant Diseases. Diseases of Forest Species. 0

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100558

examined to bring about the recovery of larch tree stands in Lindulovskiy wood. -- T. S. Maksimova

Card 3/3

KATAYEV, Oleg Aleksandrovich; ZHURAVLEV, I.I., prof., retsenzent; SELISHCHENSKAYA, A.A., retsenzent; DEMENT'YEV, V.I., dots., otv. red.; FILONENKO, K.D., red.; URITSKAYA, A.D., tekhn. red.

[Principles of zoology] Osnovy zoologii; uchebnoe posobie dlia studentov lesokhoziaistvennogo fakul'teta. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1962. 48 p. (MIRA 16:7)

1. Assistent kafedry entomologii Lesotekhnicheskoy akademii im. S.M.Kirova (for Selishchenskaya).
(Zoology)

ZHURAVLEV, Ivan Iosifovich, doktor sel'khoz. nauk; KAZAKOVA, Ye.D., red.; BALLOD, A.I., tekhn. red.

[Diagnosis of forest diseases]Diagnostika boleznei lesa. Moskva, Sel'khozizdat, 1962. 192 p. (MIRA 15:11)
(Trees--Diseases and pests)
(Fungi, Phytopathogenic)

ZHURAVLEV, Ivan Iosifovich, doktor sel'skokhoz. nauk; KAZAKOVA, Ye.D., red.; GUREVICH, M.M., tekhn. red.; MAKHOVA, N.N., tekhn. red.

[Phytopathology] Fitopatologiia. Moskva, Sel'khozizdat, 1963. 279 p. (MIRA 16:12)

(Trees--Diseases and pests)

LIBERMAN, M.; ZHURAVLEV, I.

Achievements of progressive workers should be shared by all.
Prof.-tekh. obr. 21 no.9:27-28 S '64. (MIRA 17:11)

1. Nachal'nik otdela podgotovki kadrov Sredne-Ural'skogo soveta narodnogo khozyaystva (for Liberman). 2. Starshiy inzh. otdela podgotovki kadrov Sredne-Ural'skogo soveta narodnogo khozyaystva (for Zhuravlev).

SHCHERBIN-PARFENENKO, Anton Lavrent'yevich; ZHURAVLEV, I.I., red.; ULYAKHINA, I.P., red.izd-va; POPOVA, V.V., tekhn. red.

[Bacterial diseases of forest trees] Bakterial'nye zabolevaniia lesnykh porod. Moskva, Goslesbumizdat, 1963. 146 p. (MIRA 17:2)

ACCESSION NR: AR4015692 S/0081/63/000/023/0355/0355

SOURCE: RZh. Khimiya, Abs. 23K83

AUTHOR: Zhuravlev, I. M.; Kallast, V. A.; Novoshinskaya, N. S.

TITLE: The effect of oxygen, inhibitor and oxide film on the corrosion of iron in water

CITED SOURCE: Uch. zap. Mosk. gos. ped. in-t im. V. I. Lenina, no. 181, 1962, 13-19

TOPIC TAGS: corrosion, corrosion inhibitor, iron corrosion, rust, oxide film

ABSTRACT: It has been confirmed that Fe does not undergo corrosion in distilled water in the absence of oxygen. With insufficient oxygen in the water and aqueous solutions of inhibitors on the Fe surface a film is formed, consisting mainly of Fe_3O_4 and γ-Fe_2O_3. However, this film has poor protective qualities and the corrosive process proceeds with the formation of γ-FeOOH in the solution. The presence or absence of the primary oxide film on the Fe surface does not have any influence on the further development of the process. Studies on the Fe surface by the electronographic method after treatment with aqueous solutions of inhibitors

Card 1/2

ACCESSION NR: AR4015692

revealed no compounds in which the inhibitors were incorporated. 11 refs.
Authors' summary

DATE ACQ: 09Jan64 SUB CODE: MM ENCL: 00

Card 2/2

BALEZIN, S.A.; KEMKHADZE, T.V.; ZHURAVLEV, I.M.

Using certain electrochemical methods in studying the mechanism of the action of inhibitors of the corrosion of carbon steel in sea water. Soob. AN Gruz. SSR 35 no.1:155-162 Jl '64.
(MIRA 17:10)

1. Gruzinskiy metallurgicheskiy institut. Predstavleno akademikom F.N. Tavadze.

PLISOV, A.K.; ZHURAVLEVA, I.M.

Configuration and properties of unsaturated acids and their esters. Part 15: Synthesis and properties of α-bromocinnamic acids and their esters. Zhur. ob. khim. 34 no.9:3102-3107 S '64.
(MIRA 17:11)

ACCESSION NR: AR4015691 S/0081/63/000/023/0355/0355

SOURCE: RZh. Khimiya, Abs. 23K82

AUTHOR: Kallast, V. A.; Zhuravlev, I. M.; Novoshinskaya, N. S.

TITLE: Study of the resistance of the protective films formed on iron during the action of inhibitors

CITED SOURCE: Uch. zap. Moskr gos. ped. in-t im. V. I. Lenina, no. 181, 1962, 124-130

TOPIC TAGS: corrosion, corrosion inhibitor, protective film, iron corrosion, semiconductive film

ABSTRACT: The authors determined the resistance of protective films formed on iron in solutions of the following inhibitors: potassium chromate, hexamethylenediamine chromate, sodium molybdate, sodium tungstate, sodium benzoate, sodium adipate. The growth of the protective film starts during the first few minutes of the inhibitor's action. Later, slight thickening of the film occurs. Protective films appearing on iron under the influence of inhibitors possess semiconductive properties and have perforated conductivity. 10 references. Authors' summary

Card 1/1 DATE ACQ: 09Jan64 SUB CODE: MM ENCL: 00

25076
S/081/61/000/010/009/029
B117/B207

18 8310

AUTHORS: Balezin, S. A., Zhuravlev, I. M.

TITLE: Joint action of Urotropine and potassium iodide upon the rate of dissolution of steel in sulfuric acid

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1961, 288, abstract 10И221 (10I221). ("[Uch. zap.] Mosk. gos. ped. in-ta im. V. I. Lenina", no. 146, 1960, 199-201)

TEXT: A mixture of 1% Urotropine and 0.1% potassium iodide was found to exert the strongest inhibiting effect upon the corrosion of steel in H_2SO_4. The steel potential is essentially improved by adding this mixture. The substitution of potassium chloride for potassium iodide is recommended for 2.5 N sulfuric acid at 100°C. [Abstracter's note: Complete translation.]

Card 1/1

ZHURAVLEV, I. N.

32725. Fiziologiya zhazhdy v svete ucheniya I. P. Pavlova o pishchevom tsentre. Novosti meditsiny, vyp. 14, 1949, s. 69-79

SO: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

ZHURAVLEV, I.N.

Use of salts from different deposits for salting margarine. Vop. pit. 20 no.4:45-48 Jl-Ag '61. (MIRA 14:7)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta zhira, Leningrad.
(SALTING OF FOOD) (OLEOMARGARINE)

ZHURAVLEV, I.N., inzhener.

Adaptor on the vacuum blocking machine for mechanized packaging of margarine. Masl.-zhir.prom. 19 no.3:31-34 '54. (MLRA 7:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Oleomargarine) (Packaging)

ZHURAVLEV, I. N. Cand Tech Sci -- (diss) "Study of the Process of Mechanization of the Packaging and Preservation of Margarine." Len, 1957. 13 pp 22 cm. (Len Inst of Refrigeration Industry), 110 copies (KL, 25-57, 112)

ZHURAVLEV, I.P.; GENEROZOV, K.K.

Largest combine of worsted manufacture in the Moscow area. Tekst. prom. 17 no.9:4-6 S '57. (MIRA 10:11)

1. Direktor Moninskogo kamvol'nogo kombinata g. Losino-Petrovskiy (for Zhuravlev). 2. Starshiy ekonomist Moninskogo kamvol'nogo kombinata, g.Losino-Petrovskiy (for Generozov).
(Moscow Province--Woolen and worsted manufacture)

ZHURAVLEV, I.P.; KOLGANOV, G.S.; SERVETNIK, V.M.

Using sinter in steelmaking in large-capacity open-hearth furnaces. Met. i gornorud. prom. no.6:64-65 N-D '64.
(MIRA 18:3)

GALATOV, N.S., inzh.; ZHURAVLEV, I.P., inzh.; NETREBKO, P.G., inzh.

Operation of blast furnaces with a capacity of 2,000 m^3.
Met. i gornorud. prom. no.5:3-8 S-O '63. (MIRA 16:11)

KOLGANOV, G.S.; ZHURAVLEV, I.P.; KORKOSHKO, N.M.; SERVETNIK, V.M.; TARAPUROV, N.P.

Introduce the production of chemically capped steel. Metallurg 10 no.8:13-15 Ag '64. (MIRA 17:11)

1. Krivorozhskiy metallurgicheskiy zavod.

USSR/Diseases of Farm Animals - Diseases Caused by Bacteria and Fungi R

Abs Jour : Ref Zhur Biol., No 5, 1959, 21403

Author : Zhuravlev, I.V.
Inst : -
Title : The Use of Novarsenol in Fowl Cholera and in Hemosepticemia of Swine.

Orig Pub : Veterinariya, 1958, No 9, 72

Abstract : Good therapeutic results are reported to have been obtained with novarsenol when it was injected intramuscularly in a 5 percent condentration in freshly prepared horse blood serum at a rate of 10 mg/kg of dry substance in hemosepticemia and influenza of swine and in a 1.5 percent concentration at the rate of 15 mg/kg of dry substance in fowl cholera.

Card 1/1

KLOKOV, Yu.L. (Moskva); ZHURAVLEV, I.V. (Moskva)

Method for evaluating the conditional damping time of the correlation functions of a certain class of random processes. Avtom. i telem. 26 no.10:1695-1702 O '65. (MIRA 18:10)

ZHURAVLEV, I.V.

Use of novarsenol in chicken cholera and swine hemosepticemia.
Veterinariia 35 no.9:72 S '58. (MIRA 11:9)

1. Glavnyy vetvrach Yeyskogo zernozavkhoza, Krasnodarskogo kraya.
(Neoarsphenamine) (Chicken cholera) (Swine plague)

MILICHENKO, S.L., inzh.; ZHURAVLEV, I.V., inzh.

Method of beneficiation of molten welding fluxes by means of ferroalloys. Svar. proizv. no.3:41-42 Mr '62. (MIRA 16:3)

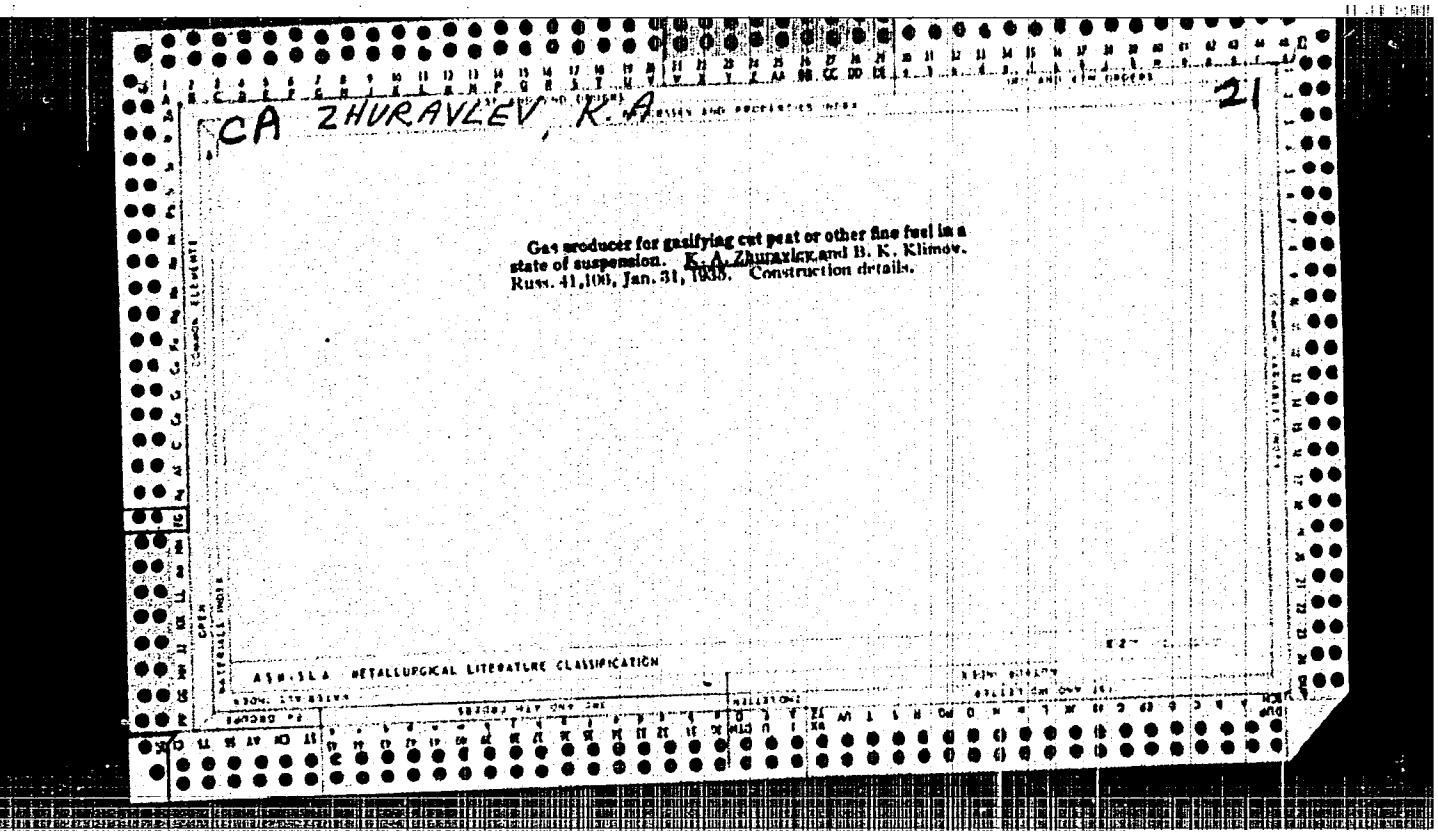
1. Sverdlovskiy proyektno-tekhnologicheskiy institut.
(Flux (Metallurgy)) (Iron alloys)

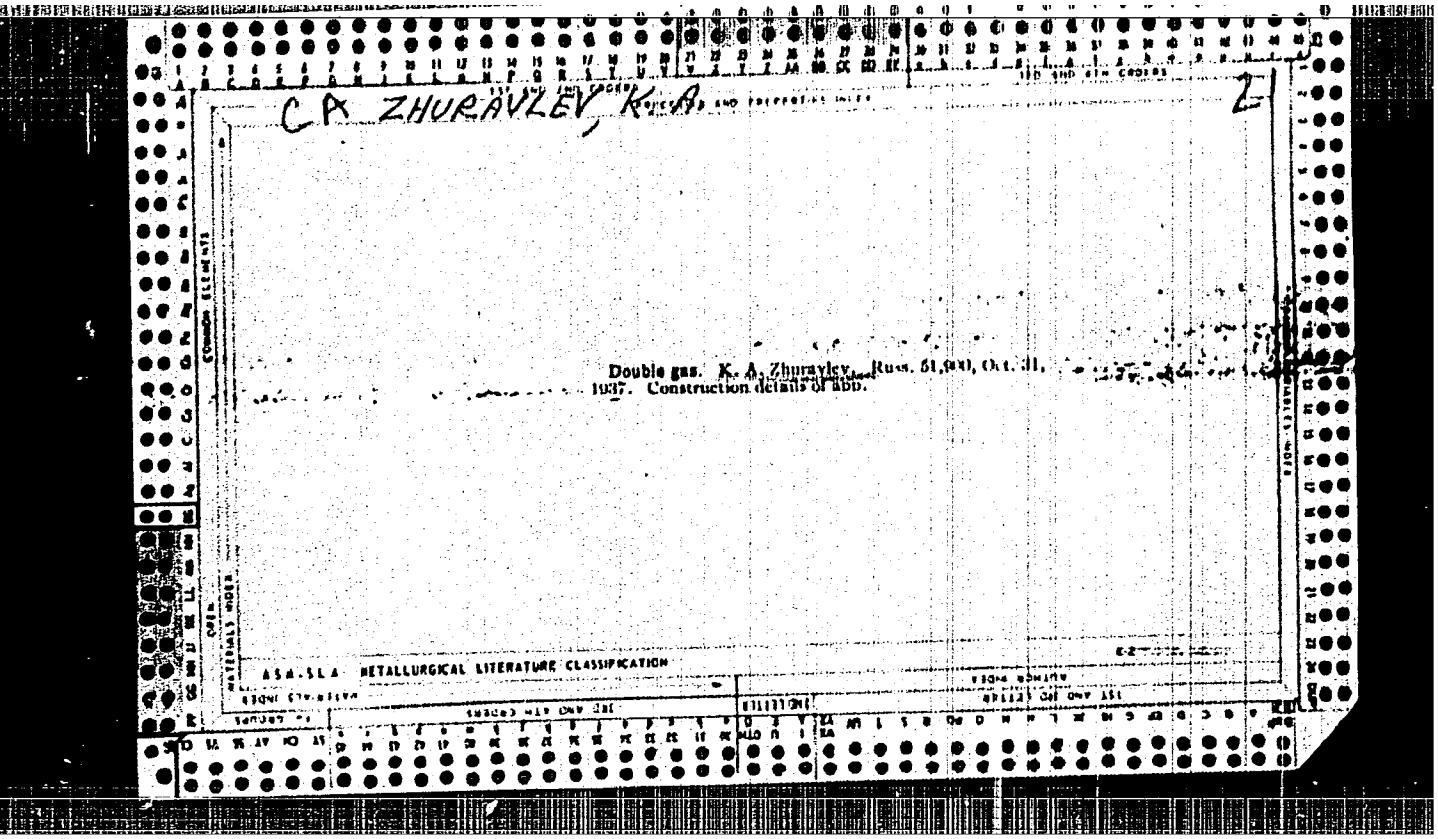
MILICHENKO, S. L.; ZHURAVLEV, I. V.; AYZENBERG, Ye. B.

Reconditioning C-100 crawler tractor links by electric arc build-up welding. Avtom. svar. 16 no.3:65-69 Mr '63. (MIRA 16:4)

1. Sverdlovskiy proyektno-tekhnologicheskiy institut.

(Crawler tractors—Maintenance and repair)
(Electric welding)





ZHURAVLEV, K.A.

AID P - 1330

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 12/19

Authors : Zhuravlev, K. A. and Radovskiy, I. S., Engs.

Title : Steam production in package water-tube boilers

Periodical : Teploenergetika, 2, 50-51, F 1955

Abstract : This is an abstract of an article published in Power Engineering, v. 57, #5, 1953, pp. 66-69, 119-120 concerning small package water-tube steam generating units.

Institution : None

Submitted : No date

ZHURAVLEV, K. A.

AID P - 2396

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 10/15

Author : Zhuravlev, K. A., Eng.

Title : On designing water walls for small capacity boilers

Periodical : Teploenergetika, 7, 48-51, Jl 1955

Abstract : Possible improvements of water walls design is mathematically analyzed by determining the efficient weight of metal used for convective and radiating heating surfaces. Basic types of water walls are shown in diagrams. The interdependence of temperature and radiation and convection is shown in curves. Five diagrams. Two Russian references, 1940-1950.

Institution: Biysk Turbine Plant

Submitted : No date

ZHURAVLEV, K.A., inzh.

Some observations on DKV boilers. Energomashinostroenie 4 no.3:30-32 Mr '58. (MIRA 11:5)

(Boilers)

ZHURAVLEV, K.A., inzh.

Use of boilers with 2-10 ton/hour evaporative capacity in various branches of the national economy of the U.S.S.R. Prom. energ. 18 no.3:24-26 Mr '63. (MIRA 16:6)

(Boilers)

ZHURAVLEV, K.A., inzh.

Dimensional diagrams in boiler designing. Energomashinostroenie 8 no.1:38-40 Ja '62. (MIRA 15:3)
(Dimensional analysis)
(Boilers—Design and construction)

PAKHOMOV, K.S., mayor tekhnicheskoy sluzhby; ZHURAVLEV, K.A., mayor tekhnicheskoy sluzhby.

Concerning guaranteed periods for storage. Vest. Vozd. Fl. no.5:83 '61. (MIRA 14:8)
(Russia--Air force--Aviation supplies and stores)

S/114/62/000/001/005/006
E194/E455

AUTHOR: Zhuravlev, K.A., Engineer

TITLE: Dimensional circuits in boiler manufacture

PERIODICAL: Energomashinostroyeniye, no.1, 1962, 38-40

TEXT: It is becoming increasingly desirable to build up boilers in the manufacturers' works either as complete units or as partially built assemblies which reduce the amount of erection work required on site. These changes in methods of manufacture and also the introduction of series production of boilers necessitate greater attention to permissible manufacturing tolerances of parts than has been usual in the past. This is done by analysis of dimensional "circuits". A dimensional "circuit" is defined as the totality of all nominal dimensions and tolerances which govern the mutual position of parts in an assembly or of assemblies in the product and which form a closed circuit. Dimensions which are governed by technical conditions stemming from the operation of the product are termed "initial" or "closing" dimensions and the remainder "component" dimensions. The initial or closing dimensions are usually clearances or gaps at joints.

Card 1/3

S/114/62/000/001/005/006
E194/E455

Dimensional circuits in boiler ...

Determination of the tolerances and classes of finish of various components is explained. Apart from pipework, for which special provision is made, the feasibility of assembling parts with suitable closing dimensions must be carefully checked at the design stage by analysing and calculating the dimensional circuits. A number of cases are quoted of errors arising from failure to watch this point. In particular, it is shown how intolerably-long welding gaps can accrue from a combination of unsuitable tolerances. The importance of dimensioning from suitable reference points is emphasized. Calculation of the dimensional circuit involves selection of the method of manufacture. In boiler-making, parts cannot be made interchangeable and the method of individual fitting is unsuited to series production. The most promising device is to use a fixed compensator or closing part similar to the fixed compensator in moving joints. Nominal dimensions of conjugate parts are selected with allowance for deviations in the closing link which are less than the theoretical values. The deviation in the gap is absorbed by a closing part in the form of liner of constant size on which the joint is made. In this way

Card 2/3

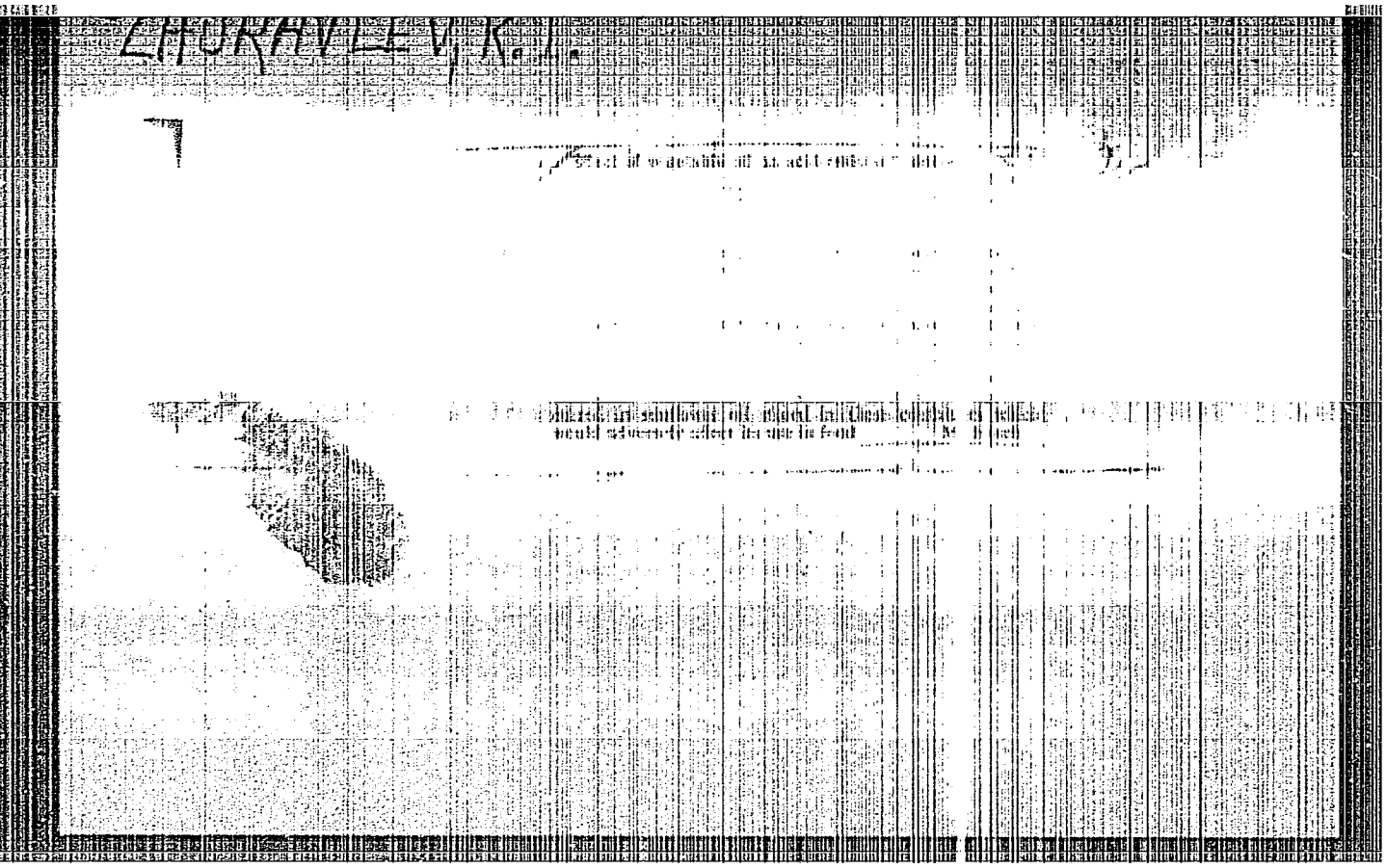
it is possible to maintain the existing wide tolerances in manufacture of the components without special fitting on assembly. However, the fixed compensator can be used only when the dimensional circuits have been analysed. It is concluded that by analysis of the dimensional circuit, it is possible not only to determine tolerances on finished parts but also to establish the requisite nominal dimensions. If dimensional circuits are not analysed the product may be weak and parts scrapped because the quality cannot be established by merely adding up the theoretical dimensions. In particular, tolerances must be calculated carefully in the case of welded joints. There are 6 figures and 3 Soviet-bloc references.

Card: 3/3

BERNADYUK, Z.A.; LEVCHENKO, D.N.; PUSHKAREV, V.P.; CHIRIMANOV, P.A.; KORZH, A.F.; ZHURAVLEV, K.A.; KOVALENKO, N.P.

Petroleum desalting in electro-desalting units in the presence of the OP-10 nonionogenic demulsigying compound. Khim.i. tekh.topl.i masel 5 no.9:31-37 S '60. (MIRA 13:9)

1. Novo-Gor'kovskiy neftepererabatyvayushchiy zavod i Vsesoyuznyy naucnno-issledovatel'skiy institut po pererabotke nefti i polucheniyu iskusstvennogo zhidkogo topliva.
(Petroleum--Refining--Desalting)



ZHURAVLEV, K.I.

The MPSh track cleaner. Biul.tekh.-ekon.inform. no.11:6-7 '61.
(MIRA 14:12)

(Coal mining machinery)

ZHURAVLEV, K.I. (Moskva)

Effect of ionizing radiation on the physicochemical and organoleptic properties of sunflower oil [with summary in English]. Vop.pit. 16 no.4:60-64 Jl-Ag '57. (MLRA 10:10)

(ROENTGEN RAYS, effects,
on sunflower oil (Rus))
(OILS,
sunflower oil, eff. of x-rays (Rus))

YESIN, N.N., kand.tekhn.nauk; ZHURAVLEV, K.I., gornyy inzh.

The air hammer reamer is a new boring head. Gor.zhur. no.3:54-55 Mr '65. (MIRA 18:5)

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