"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZAHETSKIY, S.Ye.

KEYYE, R. [Coeuillet, R.]; PRISYAZHNIKOV-VAL', V.S.[translator]; CHUMAK, S.A., redaktor; ZAHETSKIY, S.Ye., redaktor izdatel'stva; ZAZUL'SKAYA, V.F., tekhnicheskiy redaktor

[Cyclic study of percussive drilling. Translated from the French] Issledovanie tsikla udarnogo bureniia. Perevod s frantsuzskogo V.S. Prisiazhnikova-Val'. Pod red. S.A. Chumaka. Moskva, Ugletekhizdat, 1956. 85 p. (MLRA 10:4)
(Boring)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

SAKHOVALER, Abram Yul'yevich; SUYETIN, Georgiy Georgiyevich; KAZAKOV, B.Ye., otvetstvennyy redaktor; ZARETSKIY, S.Ye., redaktor izdatel'stva; NADEINSKAYA, A.A., tekhnicheskiy redaktor

[Mechanization of preparatory operations abroad] Mekhanizatsiia prevedeniia podgotovitel'nykh vyrabotok za rubezhom. Moskva, Ugletekhizdat, 1956. 75 p. (MLRA 9:12)
(Coal mines and mining)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ANDERSCH, O., zasluzhennyy deyatel' tekhniki Germanskoy Demokraticheskoy Respubliki; POZHEZHINSKIY, A.B., inzhener, redaktor; ZARETSKIY, S.Ye., redaktor izdatel'stva; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Consise manual on the briquetting of coal. Translated from the German] Kratkoe rukovodstvo po briketirovaniiu uglei. Perevod s nemetskogo pod red. A.B.Pozhezhinskogo. Moskva, Ugletekhizdat, 1956. 99 p. (MIRA 9:9)

(Briquets (Fuel))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ANDERSCH, O., zasluzhennyy deyatel' tekhniki Germanskoy Demokraticheskoy Respubliki; POZHEZHINSKIY, A.B., inzhener, redaktor; ZARETSKIY, S.Ye., redaktor izdatel'stva; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Consise manual on the briquetting of coal. Translated from the German] Kratkoe rukovodstvo po briketirovaniiu uglei. Perevod s nemetskogo pod red. A.B.Pozhezhinskogo. Moskva, Ugletekhizdat, 1956. 99 p. (MLRA 9:9)

(Briquets (Fuel))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, U.I. [Zarets'kyi, U.I.]; OSTAPENKO, L.K.

From practices of the Berdichev Clothing Factory No.2. Leh.prom. no.3:55-56 Je - Ag '62. (MIRA 16:2)

1. Berdichevskaya shveynaya fabrika.
(Berdichev--Clothing industry)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V. I.

79-3-21/64

AUTHORS: Vul'fson, N. S., Zaretskiy, V. I.

TITLE: Investigations in the Field of Dieckmann (Dikman)'s Reaction (Issledovaniye v oblasti reaktsii Dikmana) III. Cyclization of the Diethyl Ether of α-Methylpimelic Acid (III. Tsiklizatsiya dietilovogo efira α-metilpimelinovoy kisloty)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 369 - 372 (USSR)

ABSTRACT: The cyclization of the diethyl ether of α-methylpimelic acid was described by Dieckmann (Dikman) (reference 1). He supposed that 2-methyl-6-carbethoxycyclohexanone is formed on that occasion, but it was not eliminated in a pure state. As a continuation of the investigation of the cyclization process of the unsymmetrical dicarbonic acid ether (reference 2), according to Dikman, the authors wanted to determine the structure of the β-keto ether. The latter is produced by the cyclization of the diethylether of α-methylpimelic acid. The keto ether (I) is obtained as the only product. The formation of β-keto ether could not be determined. It is assumed that the exclusive formation of β-keto ether (I) in the cyclization is a consequence of the increased electron density at the α-carbon atom under the influence of the I-effect of the CH_3 group. This renders the dissociation of the proton and the formation of

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79-2-21/64

Investigations in the Field of Dieckmann (Dikman)'s Reaction . III. Cyclization of the Diethyl Ether of α-Methylpimelic Acid

the organic anion, which are necessary for the cyclization, difficult. Summary: The authors investigated the cyclization of the diethyl ether of α-methylpimelic acid according to Dikman. It was shown that 2-methyl-6-carbethoxycyclohexanone is the primary reaction product ; the formation of 2-methyl-6-carbethoxycyclohexanone was not observed. The structure of 2-methyl-6-carbethoxycyclohexanone was confirmed by the production of 2,6-dimethylcyclohexanone which was obtained by methylation with methyl iodide and subsequent hydrolysis and decarboxylation. There are 13 references, 2 of which are Slavic.

ASSOCIATION: Scientific Research Institute for Organic Semiconductors and Dyes (Nauchno-issledovatel'skiy institut organicheskikh poluprovodnikov i krasitcley)

SUBMITTED: January 21, 1957

AVAILABLE: Library of Congress

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY V. I.

78-2-24/54

AUTHORS: Zaretskiy, V. I., Vul'fson, N. S.

TITLE: Investigations in the Field of Dikman's Reaction. (Issledovaniya v oblasti reaktsii Dikmana) IV. Cyclization of the Tetraethylether of 2-Methylpentantetracarboxylic-1,1,5,5,-Acid (IV. Tsiklizatsiya tetraetilovogo efira 2-metilpentantetrakarbonovoy-1,1,5,5 kisloty)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 387 - 391 (USSR)

ABSTRACT: The authors continued the investigation of Dieckmann (Dikman)'s (reference 1) and investigated the cyclization of the tetraethylether of 2-methylpentantetracarboxylic-1,1,5,5-acid (I). It became evident that in the presence of pulverized sodium in benzene the cyclization of tetraether (I) is not possible (the initial tetraether is regenerated). But in the presence of sodium ethylate in an alcohol solution it takes place. 3-methyl-2,6-dicarboethoxycyclohexanone (II) forms in a yield of 44,5 %. The cyclization is accompanied by a splitting off of diethylcarbonate (references 2, 3) which is formed during the distillation process of reaction products. The structure of the keto ether (II) is confirmed by the values of the elementary analysis, of the molecular refraction as well as by the formation of 3-methylcyclohexanone (III), and a re-

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79-2-24/6

Investigations in the Field of Dikmann's Reaction. IV. Cyclization of the Tetraethylether of 2-Methylpentantetracarboxylic-1,1,5,5,-Acid

sult of its hydrolysis and the decarboxylation. The constants of the latter correspond to those described in publications for this substance (references 4-6). The initial tetraethylether of 2-methylpentantetracarboxylic-1,1,5,5-acid (I) was obtained by the condensation of 1,3-dibromobutane with sodium diethyl malonate. In the interaction of the stoichiometric quanta of the malonic ester and the dibromide the yield of tetraether (I) amounted to 12,8 %, although sodium bromide was obtained in a quantity of 50 %. In the condensation of 1 Mol of 1,3-dibromobutane with 2 Mol of sodium diethyl malonate and in the presence of a large excess of malonic ester (4 Mol) the tetraether was obtained according to a method analogous to that by V. P. Gol'nov and B. A. Kazanskiy (reference 7), with a yield of 36,9 %. A further increase in the excess of malonic ester does not influence the yield of the condensation product. Conclusions: The cyclization of the tetraethylether of 2-methylpentantetracarboxylic-1,1,5,5-acid was investigated according to Dikmann. It was shown that 3-methyl-2,6-dicarbethoxycyclohexane represents the primary reaction product. Its structure was confirmed by the production of 3-methylcyclohexanone with its ketone splitting. There are 11 references, 4 of which are Slavic.

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79-2-24/64

Investigations in the Field of Dikman's Reaction. IV. Cyclization of the Tetraethylether of 2-Methylpentantetracarboxylic-1,1,5,5,-Acid

ASSOCIATION: Scientific Research Institute for Organic Semiproducts and Dyes, Moscow
(Moskovskiy nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley)

SUBMITTED: February 13, 1957

AVAILABLE: Library of Congress

Card 3/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

AUTHORS: Vul'fson, N. S., Zaretskiy, V. I. SOV/79-28-7-41/64

TITLE: Investigation in the Field of Dikman's Reaction (Issledovaniye v oblasti reaktsii Dikmana) V. The Cyclisation of the Diethyl Ester of α-Carbethoxypimelic Acid (V. Tsiklizatsiya dietilovogo efira α-karbetoksipimelinovoy kisloty)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 7, pp. 1909 - 1914 (USSR)

ABSTRACT: The authors investigated the cyclization of the diethyl ester of α-carbethoxypimelic acid according to Dikman (Ref 1). Earlier they had shown that in the cyclization of this ester of α-methylpimelic acid 2 methyl-6-carbethoxycyclohexanone is formed without any doubt. Instead of the normally expected 2-carbethoxycyclohexanone (Formula II) with a simultaneous cleavage of the diethylcarbonate the authors in boiling xylene in the presence of powdery sodium obtained the 2,6-dicarbethoxycyclohexanone (III). It must be noticed that the cyclization of (I) with the same sodium in alcohol solution does practically not take place, while that of the tetraethylesters of the pentane- and

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

Investigation in the Field of DikmansReaction. V. SOV/79-28-7-41/64
The Cyclisation of the Diethyl Ester of α-Carbethoxypimelic Acid

2-methyl-pentanetetracarboxylic acids-1,1,5,5 in sodiumethylate alcohol solution is accompanied by a cleavage of the diethylcarbonate and leads to the formation of the β-keto ester (III) (35%)(Ref 3) and 3-methyl-2,6-dicarbethoxycyclohexanone (44%). The formation of (III) can be explained by spatial difficulties. The structure of the compound (III) was proved by its methylation with methyliodide to (IV) and (V) correspondingly, and after the hydrolysis and decarboxylation of the latter also by the formation of the known cyclohexanones (VI) and (VII). The initial product (I) was produced according to two methods. (Refs 4,5,6). There are 16 references, 5 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley imeni K.Ye.Voroshilova (Scientific Research Institute for Organic Semi-finished Products and Dyes, imeni K. Ye. Voroshilov)

SUBMITTED: May 11, 1956

Card 2/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

Investigation in the Field of Dikman's Reaction. V. SOV/79-28-7-41/64
The Cyclisation of the Diethyl Ester of α-Carbothoxypimelic Acid

1. Ethyl esters--Chemical reactions 2. Acids--Chemical reactions

Card 3/3

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

AUTHORS: Zaretskiy, V. I., Vul'fson, N. S. SOV/79-29-2-13/71

TITLE: Investigation in the Field of the Dikman Reaction (Issledovaniye v oblasti reaktsii Dikmana). VI. Cyclization of Diethyl Ester of α-Acetyl and α-Benzoyl Pimelic Acid (VI. Tsiklizatsiya dietilovogo efira α-atsetil- i α-benzoilpimelinovoy kisloty)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 2, pp 416-421 (USSR)

ABSTRACT: The cyclization of α-acetyl (I) and α-benzoyldiethyl pimelate (II) according to Dikman is investigated here. The authors had already earlier shown that the cyclization of α-carbethoxydiethyl pimelate takes place unexpectedly on the non-substituted α-carbon atom and leads to 2,6-dicarbethoxycyclohexanone. It was of interest to clarify whether the cyclization (I) takes place on the substituted α-carbon atom in the direction to the formation of 2-carbethoxycyclo-hexanone (III) (with the cleavage of ethyl acetate) or of 2-acetylcyclo-hexanone (IV) (with the cleavage of diethyl carbonate) (Scheme 1). Actually, in the cyclization of (I) in boiling xylene in the presence of 1.4 g-at powdery sodium or 1.4 mol sodium ethylate, compound (III) in 52-57% yield is formed, in which connection ethyl acetate separates. In the reaction of 1.5 mol sodium ethylate in alcohol

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Investigation in the Field of the Dikman Reaction. VI. Cyclization of Diethyl Ester of α-Acetyl and α-Benzoyl Pimelic Acid SOV/79-29-2-13/71

solution, diethyl pimelate formed as chief product (V) in a yield of 35%, whereas the yield in (III), which separated in form of 2-phenyl-4,5,6,7-tetrahydro-indazolene-3, amounted to only 6.5%. Compound (III) cleaves into (V) only to a small extent (3.1%), whereas (I), on boiling with the alcohol solution of 0.2 mol sodium ethylate it forms compound (V) (2.2% yield), and with 1 mol sodium ethylate it yields 56%. The formation of small quantities (III), on processing (I) with the alcohol solution of 1.5 mol sodium ethylate, can be explained by the cyclization of (V) which takes place in a low yield. The problem concerning the reaction mechanism in the presence of powdery sodium was solved with smaller quantities of sodium (0.9 g-at). Ethylacetate (27.3%), (V, 13.9%) and (III, 16%) proved to be the chief products in this connection. Thus, alcoholysis (I) appears as the first process stage in non-alcoholic medium, under formation of compound (V), which then cyclizes into (III). An interpretation of this alcoholysis is suggested and the investigation results obtained are used to set up a scheme of the cyclization mechanism of α-acetyl and α-benzoyldiethyl pimelate (Scheme 2).

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SOV/79-29-2-13/71

Investigation in the Field of the Dikman Reaction. VI. Cyclization of Diethyl Ester of α-Acetyl and α-Benzoyl Pimelic Acid

The structure of 2-carboethoxycyclo hexanone (III) was confirmed by the synthesis of the known 2-phenyl-4,5,6,7-tetrahydro-indazolone-3 from cyclohexanone. There are 11 references, 6 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (Scientific Research Institute for Organic Semi-products and Dyes)

SUBMITTED: December 31, 1957

Card 3/3

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5(3)

AUTHORS: Vul'fson, N. S., Zaretskiy, V. I. SOV/79-29-8-64/81

TITLE: Investigations in the Field of the Dickmann Ring Formation. VII. Regrouping of 2-methyl-2-carbethoxycyclohexanone Forming 6-methyl-2-carbethoxycyclohexanone

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2737-2738 (USSR)

ABSTRACT: Since the publications confine themselves (Refs 1-5) to the description of the regrouping of the 2-carbethoxyalkyl derivatives of the 2-carbethoxycyclohexanone, it was interesting for the authors to investigate the analogous regrouping of the 2-alkyl derivative starting from 2-methyl-2-carbethoxycyclohexanone (I). As it is known, the diethyl-α-methylpimelinate (Ref 6) the cyclization of which in boiling benzene in the presence of powdered sodium according to Dickmann yields, as previously reported (Ref 7), the compound (II), is easily formed when compound (I) is boiled in an alcohol solution of sodium ethylate (0,2 mol). However, under usual conditions diethyl-α-methylpimelinate (40%), the unchanged β-keto ester (I) (20%), and traces only of the β-keto ester (II) were obtained, whereas the boiling of 2-methyl-2-carbethoxycyclohexanone in xylene in the

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Investigations in the Field of the Dickmann Ring Formation. VII. Regrouping of 2-methyl-2-carbethoxycyclohexanone Forming 6-methyl-2-carbethoxycyclohexanone SOV/79-29-8-64/81

presence of sodium ethylate yields the regrouping forming compound (II) with a 42% yield (Scheme). It was found that diethyl-α-methylpimelinate does not cyclize in the alcohol solution of sodium ethylate, while its ring formation in boiling xylene in the presence of sodium ethylate proceeds smoothly and yields the compound (II) (54%). These facts as well as the formation of a large amount of α-methylpimelinate in the course of the attempt to carry out the regrouping of (I) in an alcohol medium which failed are convincing proof that the regrouping of (I) into the analogous 2,6-compound takes place by an opening of the ring and subsequent cyclization of the resulting diethyl-α-methylpimelinate. There are 8 references, 1 of which is Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley imeni K. Ye. Voroshilova (Scientific Research Institute of Organic Semi-finished Products and Dyes imeni K. Ye. Voroshilov)

SUBMITTED: July 4, 1958

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V. I.

Cand Chem Sci, Diss -- "Investigation of Dickman cyclization of diethyl esters of alpha-substituted pimelic acids". Moscow, Publishing House of the Acad of Sci USSR, 1961. 13 pp, 22 cm (Moscow Order of Lenin Chem-Technol Inst imeni D. I. Mendeleyev. Dept of Org Chem), 200 copies, Not for sale (KL, No 9, 1961, p 177, No 24275). /61-51139/

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.I.; VUL'FSON, N. S.

Dieckman reactions. Part 8: Cyclization of the diethyl ester of α-ethyl-α-carbethoxypimelic acid. Zhur. ob. khim. 31 no. 2:484-490 F '61. (MIRA 14:2)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Heptanedioic acid) (Cyclization)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

VUL'FSON, N.S.; ZARETSKIY, V.I.; DOMANINA, O.N.

Synthesis of ethyl-β-carbethoxyethyl ester of malonic acid. Zhur. VKHO 7 no.6:709 '62. (MIRA 15:12)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Malonic acid)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

VUL'FSON, N.S.; ZARETSKIY, V.I.; CHETVERIKOVA, L.S.

Thin layer chromatography of natural coumarins and furanocoumarins. Izv.AN SSSR.ser.khim. no.8:1503-1505 Ag '63. (MIRA 16:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Coumarin) (Chromatographic analysis)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

VUL'FSON, N.S.; ZARETSKIY, V.I.

Dieckmann reaction. Reakts. org. soed. 12:7-257 '63.
(MIRA 16:7)

(Dieckmann condensation)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

VUL'FSON, N.S.; ZARETSKIY, V.I.; ZAIKIN, V.G.

Mass spectrometric study of natural coumarins. Izv. AN SSSR. Ser. khim. no.12:2215-2218 D '63. (MIRA 17:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

VUL'FSON, N.S.; ZARETSKIY, V.I.; PUCHKOV, V.A.; ZAIKIN, V.G.; SHKROB, A.M.; ANTONOV, V.A.; SHEMYAKIN, M.M., akademik

Mutual transformations of cyclols and cyclodepsipeptides studied by the method of fragmentary mass spectrometry. Dokl. AN SSSR 153 no.2:336-339 N '63. (MIRA 16:12)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

VUL'FSON, N.S.; TORGOV, I.V.; ZARETSKIY, V.I.; LEONOV, V.N.; ANANCHENKO, S.N.; ZAIKIN, V.G.

Mass spectrometric determination of the configuration of epimeric tert. alcohols in the D-homosteroid series. Izv.AN SSSR. Ser.khim. no.1:184-186 Ja '64. (MIRA 17:4)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.I.; VUL'FSON, N.S.

Methylation of 3-methyl-2,6-dicarbetoxycyclohexane. Zhur.ob.khim. 34 no.1:276-277 Ja '64. (MIRA 17:3)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.I.; VUL'FSON, N.S.

Synthesis of diethyl ester of α,β-dicarbethoxyadipic acid. Izv. AN SSSR, Ser. khim. no. 5:925-926 My '64. (MIRA 17:6)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

VUL'FSON, N.S.; ZARETSKIY, V.I.

Dieckmann reaction. Part 12: Cyclization of diethyl esters of β-carbethoxy-and ββ-dicarbethoxyadipic acid. Zhur. ob. khim. 34 no. 3:828-832 Mr '64. (MIRA 17:6)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ACCESSION NR: AP5011025 UR/0079/64/034/011/3655/3659

B

AUTHOR: Zaretskiy, V. I.; Vul'fson, N. S.; Chetverikova, L. S.; Zaikin, V. G.

TITLE: Mass spectroscopic investigation of heterocylic compounds. Structure of peumorisin--a new natural hydroxycoumarin, isolated from Peucedanum Morisonii Bess

SOURCE: Zhurnal obshchey khimii, v. 34, no. 11, 1964, 3655-3659

TOPIC TAGS: heterocyclic base compound, mass spectroscopy, botany, pharmacognosy, pharmacology

Abstract: A new hydroxycoumairn -- peumorisin -- has been isolated from the roots of Morison's brimstone-wort (Peucadanum Morisonii Bess., family Umbelliferae). A mass spectrometric fragment analysis established that peumorisin is 7-hydroxy-8-(3'-methylene-7'-methyloctene-6'yl-1')-coumarin. The infrared and ultraviolet spectra of the compounds are also cited and compared with those of derivatives and analogs. Orig. art. has 7 formulas and 4 graphs.

ASSOCIATION: none

SUBMITTED: 29Jul63 ENCL: 00 SUB CODE: LS, OP

NO REF SOV: 002 OTHER: 001 JPRS

Card 1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.I.

Synthesis of trialkyl esters of orthopropionic acid. Zhur.prikl.khim. 37 no.1:218-220 Ja '64. (MIRA 17:2)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

VUL'FSON, N.S.; ZAREVSKIY, V.I.; ZAIKIN, V.G.

Mass spectrometry of natural furanocoumarins. Dokl. AN SSSR 155 no. 5:1104-1107 Ap '64. (MIRA 17:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Predstavleno akademikom M.M.Shemyakinym.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

PREOBRAZHENSKAYA, M.N.; ORLOVA, L.M.; SAVEL'YEVA, L. ; KISIN, A.V.; ZARETSKIY, V.I.; VUL'FSON, N.S.; SUVOROV, N.

Synthesis and study of racemic indolemycin and isoindolemycin acids. Dokl. AN SSSR 166 no.3:611-614 Ja '66.

(MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. S.Ordzhonikidze i Institut khimii prirodnykh soyedineniy AN SSSR. Submitted May 4, 1965.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.I.; VUL'FSON, N.S.; ZAIKIN, V.G.; KISIN, A.V.; SHKROB, A.M.; ANTONOV, V.K.; SHEMYAKIN, M.M.

Mass spectrometric study of cyclols containing aromatic rings. Izv. AN SSSR Ser. khim. no.11:2076-2079 N '64 (MIRA 18:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.I.; VUL'FSON, N.S.; SADOVSKAYA, V.I.; ANANCHENKO, S.N.; TORGOV, I.V.

Mass spectrometry of D-homoequilenin, D-homoesterone, and their staroisomers. Dokl. AN SSSR 158 no.2:385-388 S '64. (MIRA 17:10)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Predstavleno akademikom M.M.Shemyakinym.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.K.

How we organized the work of students in a Communist Youth League camp. Politekh. obuch. no.4:38-41 Ap '58. (MIRA 11:3)

1. Oleninskaya srednyaya shkola Kalininskoy oblasti.
(Communist Youth League)
(Agriculture--Study and teaching)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZAHETSKIY, V.K.

First steps in the use of practical applications in the process of teaching geography. Geog.v shkole no.1:50-54 Ja-F '54. (MLRA 7:1)

(Geography--Study and teaching)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

L 05019-67 EWT(1) GW

ACC NR: AR6032[illegible]59 (N) SOURCE CODE: UR/0398/66/000/006/B016/B016

AUTHOR: Vargin, M. N.; Zaretskiy, V. K.

26
B

TITLE: A stud[illegible] on the interaction of the soil and mooring installations in large models

SOURCE: Ref. zh. Vodnyy transport, Abs. 6B101

REF SOURCE: Nauchn. tr. Upr. uchebn. zavedeniy M-va morsk. flota SSSR, v. 1, 1965, 44-48

TOPIC TAGS: soil, structural engineering, soil mechanics, mooring, quay

ABSTRACT: A description of a method for conducting experiments on large models of quays is given and the analysis of some of the obtained results is presented. The problems studied were: the pattern of the distribution of the ground pressure along the height of the wall, the vertical and horizontal pressures and the general ground pressure against the wall, the friction angle of the ground against the contact surface of the structure, the form of the slide surface, and the stress in the ground. Studies were conducted using a ~ 2.0-m-high rigid vertical wall. Orig. art. has: 3 figures, 2 tables, and 3 reference items. [Translation of abstract]

SUB CODE: 13/

Card 1/1 UDC: 624.131.3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.N.

Studying the characteristics of microclimate in the areas of new construction projects in Leningrad. Vest. LGU 19 no.18:130 '64. (MIRA 17:11)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.T., fel'dsher

Outpatient registration files at feldsher and feldsher-midwife centers. Fel'd. i akush. 24 no.12:56 D '59. (MIRA 13:2)

1. Korytnyanskiy fel'dshersko-akusherskiy punkt Odesskoy oblasti.
(ODESSA PROVINCE--HOSPITALS--OUTPATIENT SERVICES)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, Vasiliy Vasil'yevich; BELYAYEVA, V.F., red.; PETROVA, N.K., tekhn. red.

[Electrokymography] Elektrokimografiia. Moskva, Medgiz, 1963. 290 p. (MIRA 16:11)
(Electrokymography)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

PETROVSKIY, B.V. (Moskva,ul.Gor'kogo,d.56,kv.100); ZARETSKIY, V.V.

Electrokymography and X-ray cinematography in topic diagnosis of chronic cardiac aneurysms. Grud. khir. 3 no.1:47-56 Ja-F '61. (MIRA 16:5)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof.B.V.Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta.
(ELECTROKYMOGRAPHY) (AORTIC ANEURYSMS) (CINEFLUOROGRAPHY)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

PETROVSKIY, B.V. (Moskva, ul. Gor'kogo, 56, kv.100); ZARETSKIY, V.V.

Some aspects of the surgical treatment of chronic constrictive pericarditis. Grud.khir. 1 no.1:76-86 Ja-F '59. (MIRA 13:6)

1. Iz Gospital'noy khirurgicheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova (dir. - prof. B.V. Petrovskiy).

(PERICARDITIS)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

PETROVSKIY, B.V., prof.; KRYLOV, V.S., doktor med. nauk; ZARETSKIY, V.V., kand. med. nauk; RABKIN, I.Ye., kand. med. nauk

Abdominal aortography. Vest. khir. 89 no.10:3-12 O '62. (MIRA 17:10)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. B.V. Petrovskiy) 1-go Moskovskogo ordena Lenina meditsinskogo instituta. 2. Deystvitel'nyy chlen AMN SSSR (for Petrovskiy). Adres avtorov: Moskva, G-48, Pirogovskaya d.2/6 1-y Moskovskiy meditsinskiy institut.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

BAKULEV, A.N., akademik; BUNYATYAN, A.A., kand. med. nauk; BURAKOVSKIY, V.I., doktor med. nauk; BUYANOV, V.M., dots.; GULYAYEV, A.V., prof.; ZARETSKIY, V.V., doktor med. nauk; IVANOV, V.A., prof.; KOLESNIKOV, S.A., prof.; LOMACHEV, S.V., prof.; LOPUKHIN, Yu.M., prof.; MURATOVA, Kh.N., doktor med. nauk; PETROVSKIY, B.V., zasl. deyatel' nauki RSFSR, prof.; SAVEL'YEV, V.S., prof.; SERGEYEV, V.M., doktor med. nauk; SOLOV'YEV, G.M., prof.; SOLOV'YEVA, I.P.; BURAKOVSKIY, V.I., red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po khirurgii. Moskva, Meditsina. Vol.6. Pt.1. 1965. 577 p. (MIRA 18:10)

1. Deystvitel'nyy chlen AMN SSSR (for Petrovskiy).

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

AVERKO-ANTONOVICH, L.A.; KIRPICHNIKOV, P.A.; ZARETSKIY, Ya.S.; FRIDLAND, V.M.; PROKHOROV, V.S.; RASPOPOVA, L.V.; Prinimala uchastiye: ZUBKOVA, T.P.

Production of colored thiokol sealing materials. Kauch. i rez. 24 no.9:20-23 '65. (MIRA 18:10)

1. Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M.Kirova.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

FISHER, A.Ya.; Prinimali uchastiye: ALFER'YEVA, N.A., inzh.; KVURG, O.S., inzh.; ZARETSKIY, Ye.I., inzh.; YEVSEYEV, M.S., master

Liquation refining of lead by means of aluminum. Trudy Giprotsvetmetobrabotka no.20:305-315 '61 (MIRA 15:2)
(Lead—Metallurgy)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

GUBENSKIY, Vladimir Aleksandrovich; NORDSHTREM, Yelena Emil'evna; UDAL'TSOV, A.N., glavnyy red.; ZARETSKIY, Ye.M., kand.tekhn.nauk, red.

[Corrosion protection of the inner surface of pipes] Protivokorrozionnaia zashchita vnutrennei poverkhnosti trub. Moskva, In-t tekhniko-ekon.inform., 1956. 12 p. (Informatsiia o nauchno-issledovatel'skikh rabotakh. Tema 23, no.I-56-47) (MIRA 11:2)
(Corrosion and anticorrosives) (Pipe, Steel)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

SHREYDER, Aleksandr Viktorovich, dotsent, kand.tekhn.nauk; LAYNER, V.I., prof., doktor tekhn.nauk, retsenzent; ZARETSKIY, Ye.M., kand. tekhn.nauk, retsenzent; ARKHANGEL'SKAYA, M.S., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

[Oxidation of aluminum and its alloys] Oksidirovanie aliuminiia i ego splavov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 220 p. (MIRA 13:9)
(Aluminum) (Metallic films)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

21645

S/137/61/000/003/067/069
A006/A101

18.8300 1454, 1208

AUTHORS: Salem, R. R., Zaretskiy, Ye. M., and Klinov, I. Ye.

TITLE: On the problem of low carbon steel crevice corrosion

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no.3, 1961, 55, abstract 3I421 ("Tr. Mosk. in-ta khim. mashinostr", 1960, v.22, 63-74)

TEXT: The authors attempted to apply the polarographical method of analysis for studying crevice corrosion of low carbon steel in 0.5 n NaCl solution. Quantitative data are obtained on the distribution of O_2 dissolved along the crevice length depending on time. The authors advance the hypothesis on the mechanism of metal corrosion in the gap for the case when a contact with the metal in the volume is absent. The dependence of the rate of metal corrosion in the gap on the surface of the contacting metal in the electrolyte volume was established. There are 10 references.

Yo. L.

[Abstractor's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

S/020/60/135/004/029/037
B004/B056

AUTHORS: Zaretskiy, Ye.M., Katser, I.M., and Petrova, O.A.

TITLE: Effect of Corrosion Inhibitors Upon Corrosive and Mechanical Wear

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 4, pp. 890 - 892

TEXT: The wear of steel under conditions where corrosive and mechanical effect are of the same order of magnitude is discussed in the present paper. This case occurs on wet spinning of flax. It was the aim of the present work to reduce corrosive and mechanical wear caused by Moscow tap water in 4 x 13 type nitrided steel by means of corrosion inhibitors. Experiments were made at 40°C in a X2M (Kh2M) device, in which a disk of high-speed steel revolved in an electrolyte and formed a hole in the specimen. Speed was 600 rpm in all experiments at a load of 2.25 kg. First, the effect of cathodic and anodic polarization was examined. A Platinum foil served as second electrode. Results are compiled in Fig. 1. Fig. 2 shows the result of the action of anodic and cathodic inhibitors. Addition of sodium hexametaphosphate reduced wear by 25%. The authors thank . .

Card 1/3

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

Effect of Corrosion Inhibitors Upon Corrosive and Mechanical Wear

S/020/60/135/004/029/037
B004/B056

M.A.Babichev for his advice. There are 2 figures and 9 references: 8 Soviet and 1 US.

ASSOCIATION: Nauchno-issledovatel'skiy institut vspomogatel'nykh izdeliy i zapasovykh detaley k tekstil'nomu oborudovaniyu (Scientific Research Institute of Accessories and Spare Parts of Textile Equipment)

PRESENTED: June 24, 1960 by P.A.Rebinder, Academician

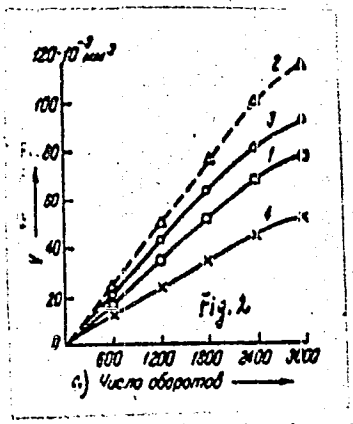
SUBMITTED: June 1, 1960

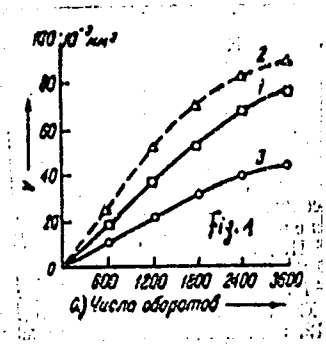
Card 2/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

S/020/60/135/004/029/037
B004/B056





Legend to Fig. 1. 1: without polarization; 2: with anodic polarization, $D_a = 1$ ma/cm^2; 3: with cathodic polarization, $D_c = 0.1$ ma/cm^2; a) rpm; V = wear in mm^3.

Legend to Fig. 2. 1: without addition; 2: with 500 mg/l sodium nitrite; 3: with 500 mg/l water glass; 4: with 200 mg/l sodium hexametaphosphate; a) rpm; V = wear in mm^3.

Card 3/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

KOROVIN, Nikolay Vasil'yevichBAKHVALOV, G.T., doktor tekhn.nauk, retsenzent; ZARETSKIY, Ye.M., kand.tekhn.nauk, retsenzent; ARKHANGEL'SKAYA, ~~M.S., red.izd-va;~~ KARASEV, A.I., tekhn.red.

[New coatings and electrolytes in electroplating] Novye pokrytiia i elektrolity v gal'vanotekhnike. Moskva, Metallurgizdat, 1962. 134 p. (MIRA 15:5)
(Electroplating) (Electrolytes)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

S/114/62/000/006/005/008
D040/D112

AUTHORS: Moskvicheva, A.F., Engineer; Zaretskiy, Ye.M., Candidate of Technical Sciences; Klinov, I.Ya., Professor, Doctor of Technical Sciences

TITLE: Corrosion of Kh17 type steels in acetic acid

PERIODICAL: Khimicheskoye mashinostroyeniye, no.6, 1962, 23-26

TEXT: Nickel-free and low-nickel chromium steels X17 (Kh17), X17H (Kh17N), X17H2 (Kh17N2) and X17H5 (Kh17N5) were tested for corrosion in order to find whether they could replace 1X18H9T (1Kh18N9T) steel with 8-9.5% Ni for making acetic-acid containers. Rolled sheet steel specimens were tested at 30°C in 15 to 98% solutions of acetic acid in water; the tests included measurements of electric potential. The article includes a detailed description of the experiments and graphs of the obtained data, as well as the chemical compositions of all tested steels, including 1Kh18N9T.

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

Corrosion of Kh17 type steels . . . S/184/62/000/006/005/008
D040/D112

All tested Kh17 type steels proved resistant to acetic acid in varying degrees. Kh17N steel, containing 0.06% C, 0.58% Mn, 0.36% Si, 17.02% Cr, 1.06% Ni, 0.025% P, 0.009% S, was found to be highly corrosionproof, and thus a suitable substitute for 1Kh18N9T steel. There are 4 figures, 3 tables and 4 figures and 8 tables on centerfold.

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

S/790/62/000/000/005/005

AUTHORS: Zaretskiy, Ye. M., Yershova, T. I., Kabanova, T. S.

TITLE: Study of the corrosion resistance of sheets of the alloy MA3 with metallic protective cladding.

SOURCE: Korroziya i zashchita metallov; sbornik statey. Ed. by V. P. Batrakov. Moscow, Oborongiz, 1962, 180-194.

TEXT: The paper describes an investigation of means for the protection of the stress-corrosion-cracking-prone Mg-alloy sheet metal MA3 which contains appx. 6% Al, 1% Zn, and 0.3% Mn and which cannot be rendered stress-corrosion-cracking-resistant by any of the heat treatments that are effective with most of the Al alloys. The present tests prove that protective cladding with MA1 alloy (appx. 1.5% Mn, remainder Mg), having a thickness of appx. 10% of the core thickness, affords satisfactory corrosion protection under stress in a 0.5M NaCl + 0.05M $K_2Cr_2O_7$ solution, in fresh-water spray, and in atmospheric conditions (see also Logan, Hugh L., and Hessing H., NBS, J. Res., v. 44, no. 3, 1950, 233; Siebel, G., Jahrbuch d. dtsch. Luftfahrtforschung, v.1, 1937, 528; Symposium of Stress-Corrosion Cracking, ASTM, 1944). The tests with the MA1-cladded MA3 materials were paralleled by like tests with MA3 covered with a layer of electrolytically deposited Zn. Photographs of etched microsections of the cladded materials are accompanied by an explanation of the peculiar difficulties encountered in etching, attributable to the protective action of the MA1 cladding. Test results (hours to stress-corrosion-cracking inception) are

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tabulated for the intensively corrosive $K_2Cr_2O_7$ solution, a 0.001M NaCl solution buffered to pH 6.8 by a mixture of Na monophosphate and diphosphate, fresh-water spray, and an industrial-district atmosphere. Tests were made to determine the effect of accidental damage to the cladding layer on the corrosion resistance of the whole. For that purpose 15-mm-long gaps, 0.5, 1, and 3 mm wide, were produced in the cladding by exposure to 10% HNO_3, with the remainder of the specimen protected by an AK-20 glue layer. Tests of such specimens in fresh-water spray showed that the exposure of the core material reduces the stress-corrosion resistance of the cladded material noticeably (test results tabulated). The result is appreciable even with the narrowest cladding gap; it grows with gap width. Work-hardened specimens are more sensitive than annealed specimens. Longitudinally-cut rolled specimens are more corrosion-resistant than transversely-cut specimens. An electrolytically deposited and subsequently passivated Zn facing of MA3 does not exert any effect on the stress-corrosion cracking of the alloy in either the highly corrosive solution or the fresh-water spray tested. There are 6 figures, 7 tables, and 7 references (3 Russian-language Soviet, 1 Russian-language translation of a German book, 2 German, one of which also is available in English, and 1 English-language USA cited in the text of the abstract).

ASSOCIATION: None given.

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, Ye.M.; KABANOVA, T.S.

Possible protection of magnesium alloys by cladding. Zhur.prikl.-khim. 35 no.12:2645-2653 D '62. (MIRA 16:5)
(Magnesium alloys--Corrosion) (Metal cladding)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

Arrhenius equation / Kh17 steel

solutions of various

that the rate of the

rate varies with the conditions

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

the range of 20 to 1000 were determined for each type of steel. Orig. art. has: 12 figures, 2 formulas and 2 tables.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, GC

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

MOSKVICHEVA, A.F.; ZARETSKIY, Ye.M.; KLINOV, I.Ya.

Electrochemical and corrosion characteristics of stainless steel with a reduced nickel content in acetic acid solutions. Trudy MIKHM 28:21-37 '64. (MIRA 19:1)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

L 19360-66 EWP(m)/EWA(d)/EWP(t) HJW/JD/WB

ACCESSION NR: AT5012205 UR/3078/64/028/000/0091/0104

AUTHOR: Pakhomov, V. S.; Zaretskiy, Ye. M.; Klinov, I. Ya. (Doctor of technical sciences, Professor)

TITLE: Influence of the temperature and concentration of nitric acid solutions on the steady-state potentials of type Kh17 stainless steels

SOURCE: Moscow. Institut khimicheskogo mashinostroyeniya. Trudy, v. 28, 1964. Korroziya khimicheskoy apparatury (Corrosion of chemical apparatus), 91-104

TOPIC TAGS: stainless steel, steel corrosion, nitric acid corrosion, steady state potential, chromium steel, electrode potential, steel passivation / Kh17 steel

ABSTRACT: The behavior of chromium stainless steels Kh17, Kh17N, 1Kh17N2, and Kh17N5 and steel Kh18N9T (for comparison) was studied in solutions of 5, 10, 20, 40, and 58 wt. % HNO_3 at 20, 40, 60, 80, and 100C. The apparatus designed and constructed for the measurement of the steady-state potentials is fully described. The kinetic curves of the electrode potentials of spontaneous dissolution in nitric acid solutions shift monotonically toward the positive side with time. The time required for the establishment of steady-state potentials decreases with increasing acid concentration and rising temperature. A similar relationship was

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L 19360-66

ACCESSION NR: AT5012205

4

observed for the establishment of constant corrosion rates of these steels. In 5-20% HNO_3, the steady-state potentials of the steels become more positive (noble); in 58% HNO_3, they become slightly less positive. In passing from dilute to concentrated HNO_3 solutions, the ennobling influence of temperature on the potentials declines. In the region of transpassivation, a lesser influence of temperature on the potentials was noted than in the region of passivation. A mechanism is proposed which accounts for these differences in the influence of temperature. Orig. art. has: 8 figures and 4 tables.

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute of Chemical Machine Building)

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, IC

NO REF SOV: 017 OTHER: 010

Corrossion 44, 55, 18

Card 2/2 BG

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

the negative [illegible] [illegible] mashinostroveniya (Moscow

[illegible]

[illegible] CODE: [illegible]

[illegible]

NO REF SOV: [illegible] [illegible] 009

2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, Ye.M.

Corrosion cracking of the Mg-Al-Zn-Mn alloy in various media.
Zhur.prikl.khim. 37 no.7:1504-1512 Jl '64. (MIRA 18:4)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

L 58544-65 EWT(m)/EWP(1)/EPR/EWP(t)/EWP(b) Ps-4 IJP(c) JD

ACCESSION NR: AP5017882 UR/0286/65/000/011/0163/0163

39
B

AUTHOR: Zaretskiy, Ye. M.

TITLE: A method for sealing oxide films on aluminum alloys. Class 48, No. 93152

14 39

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 163

TOPIC TAGS: electrochemistry, anodic protection, anodization, aluminum alloy

[illegible] Introduces: 1. A method for sealing anodized [illegible] is heated in hot [illegible] water for 20 min. [illegible] g/l of borax to the water along with nitric acid until a pH of 3.7-5.5 is reached. 2. A modification of this method in which the films are sealed in water containing caustic soda and acetic acid or sodium acetate and acetic acid with a 1-10 g/l concentration of acetic acid.

ASSOCIATION: none

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

L 58561-65

ACCESSION NR: AP5017882

SUBMITTED: 22Nov49 ENCL: 00 SUB CODE: GC, MM

NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, Ye.Ye.

Technical and economic characteristics of linear electron accelerators. Trudy LPI no.244:59-65 '65. (MIRA 18:5)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZAREV, Kirill D.

Growth of prosperity among the workers of the Bulgarian People's Republic. Sots. trud. 4 no.10:52-57 O '59 (MIRA 13:3)
(Bulgaria--Labor and laboring classes)
(Economic conditions)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

LIVSHITS, A.S.; ZARITSKIY, V.N.

Measuring the bead alignment of electrically welded pipes. Izm. tekh.no.5:74-75 S-O '56. (MLRA 10:2)
(Pipe, Steel--Welding)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V. S.

Trial run of the semiplant installation for burning gypsum in a suspended condition at the Moscow alabaster plant. S. A. Krzheminskii and V. S. Zaretskii. *Stroitel. Materialy* 1938, No. 6, 28-37. E. E. Stefanowsky

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, Yu.K.

Calculating strip footings on a nonlinear, deformed, and nonuniform foundation. Osn.,fund. i mekh.grun. 7 no.1:10-14 '65. (MIRA 18:4)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

PETROVSKIY, B.V., prof. (Moskva, ul. Gor'kogo, d.56, kv.100); RAEKIN, I.Kh.; BELYAKOVA, L.I.; ZARETSKIY V.V.; KOZLOV, I.Z.

X-ray diagnosis of cardiac aneurysms. Vest.rent.i rad. 36 no.3:3-9 My-Je '61. (MIRA 14:5)

1. Iz gospital'noy khirurgicheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. B.V.Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta (dir. - chlen-korrespondent AMN SSSR prof. V.V.Kovanov).
(CARDIAC ANEURYSMS)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

SOLOV'YEV, G.M., kand.med.nauk (Moskva, G-270, ul.Frunzenskiy val.d.16); MALINOVSKIY, N.N., kand.med.nauk; ZARETSKIY, V.V., kand.med.nauk (Moskva)

Diagnosis of a defect of the interauricular and interventricular septa. Vest. rent. i rad. 36 no. 1:10-15 Ja-F '61. (MIRA 14:4)

1. Iz kliniki gospital'noy khirurgii (zav. - deystvitel'nyy chlen AMN SSSR prof. B.V. Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(HEAT--ABNORMITIES AND DEFORMITIES) (HEART--RADIOGRAPHY)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

PETROVSKIY, B.V. (Moskva, ul. M.Gor'kogo, d. 56, kv. 100); ZARETSKIY, V.V.

Differential diagnosis of mitral defects. Vest.khir. 81 no.11:28-33 N '58. (MIRA 12:3)

1. Iz gospital'noy khirurgicheskoy kliniki imeni A.V.Martynova (dir. - prof. B.V.Petrovskiy) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.
(MITRAL VALVE--ABNORMITIES AND DEFORMITIES)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.V. (Moskva)

Quantitative electrokymography. Klin.med. 37 no.7:92-95 Jl '59. (MIRA 12:10)

1. Iz kafedry gospital'noy khirurgii (zav. - deystvitel'nyy chlen AMN SSSR prof.B.V.Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.
(KYMOGRAPHY)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.V. (Moskva)

Electrokymography in topical diagnosis of adhesive pericarditis. Klin.med. 36 no.1:67-72 Ja '58. (MIRA 11:3)

1. Iz kliniki gospital'noy khirurgii (zav.-chlen-korrespondent AMN SSSR prof. B.V.Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(PERICARDITIS, diag.
electrokymography in constrictive dis. (Rus)
(KYMOGRAPHY
electrokymography in diag. of constrictive pericarditis (Rus)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.V., Cand Med Sci —(diss) " Topical diagnosis and surgical therapy of compressing pericarditis". Moscow, 1958. 22 pp. (First Moscow Order of Lenin Med Inst im I.M.Sechenov). 200 copies. (KL, 38-58, 107).

42

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

3095. ZARETSKY V. V. *Topical diagnosis of adhesive pericarditis (Russian text)* Khirurgija 1957, 5 (126—131) Graphs 2 Illus. 5

The diagnostic value of heart catheterization in presence of experimentally induced adhesive and exudative pericarditis was tested in experiments on 28 dogs. The method of 'selective angiography' was developed in order to reveal the presence and the degree of stricture of the openings of the superior and inferior vena cava. Heart catheterization, selective angiocardiography and electrokymography were successfully used in topical diagnosis of adhesive processes of the pericardium in 20 patients with adhesive pericarditis. As a result of confirmation of the diagnosis the least dangerous and the most effective surgical operations were performed on these patients. (XVIII, 9)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZABETSKIY, V.V.

Electrokymography in the diagnosis of heart disease. Report No.2.
Klin.med. 35 no.10:123-132 O '57. (MIRA 11:2)

1. Iz kafedry gospital'noy khirurgii (zav. - chlen-korrespondent AMN SSSR prof. B.V.Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta.
(KYMOGRAPHY,
electrokymography, diag. value (Rus))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

PETROVSKIY, B.V., prof. (Moskva, ul. Gor'kogo, d.56, kv.100); ZARETSKIY, V.V., kand.med.nauk

Surgical treatment of chronic exudative pericarditis. Nov.khir.arkh. no.6:3-8 N-D '59. (MIRA 13:4)

1. Kafedra gospital'noy khirurgii 1-go Moskovskogo meditsinskogo instituta. 2. Deystvitel'nyy chlen AMN SSSR (for Petrovskiy).
(PERICARDITIS) (HEART--SURGERY)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.V. (Moskva)

Electrokymography; a preliminary report. Klin.med. 35 no.3:62-70 Mr '57. (MLRA 10:7)

1. Iz kliniki fakul'tetskoy khirurgii pediatricheskogo fakul'teta (zav. - chlen-korrespondent AMN SSSR prof. B.V.Petrovskiy) II Moskovskogo meditsinskogo instituta imeni I.V.Stalina.
(KYMOGRAPHY
electrokymography, technic (Rus))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, V.V.

Topical diagnosis of adhesive pericarditis [with summary in English]. Khirurgiia 33 no.5:126-131 My '57. (MLRA 10:8)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - chlen-korrespondent AMN SSSR prof. B.V.Petrovskiy) II Moskovskogo meditsinskogo instituta
(PERICARDITIS, ADHESIVE, diag.
topical diag., technics (Rus))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, Ya.S.; RASPOPOVA, L.V.; AVECHKO-ANTONOVICH, L.A.; FRIDLAND, V.M.; KIRPICHNIKOV, P.A.; TAGANTSEV, A.V.

New thiokol sealers for the construction industry. Stroi. mat. 10 no.3:8-9 Mr '64. (MIRA 17:6)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

S/0080/64/037/007/1504/1512

ACCESSION NR: AP4041799

AUTHOR: Zaretskiy, Ye. M.

TITLE: Stress corrosion of Mg-Al-Zn-Mn alloy in various media

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 7, 1964, 1504-1512

TOPIC TAGS: magnesium MA3 alloy, AISI AZ61 alloy, zinc containing alloy, magnesium aluminum alloy, manganese containing alloy, alloy stress corrosion susceptibility, stress corrosion, corrosion rate, alloy cathodic polarization, alloy anodic polarization

ABSTRACT: The stress corrosion and corrosion rate of MA3-type magnesium alloy, containing 6.53% Al, 0.80% Zn, 0.31% Mn, 0.09% Fe, 0.07% Cu, and 0.014% Si in solutions of various concentrations of H_2SO_4, Na_2CO_3, NaCl, and NaCl + $K_2Cr_2O_7$, and in distilled water has been investigated. Test specimens were cut from rolled alloy sheets 1.2mm thick. Those for the stress corrosion tests (160 x 15mm) were stress relieved at 420C for 3 hr and then bent into loops; the tests were terminated with the appearance of the first crack. All tests were

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ACCESSION NR: AP4041799

conducted at 25 ± 1C. It was found that the susceptibility of the MA3 alloy to stress corrosion is determined to a considerable extent by the amount of the corroded metal and by the uniformity of corrosion attack. With an increasing concentration of sulfuric acid, the weight loss of the MA3 alloy increases, while its susceptibility to stress corrosion first increases and then decreases. Intense corrosion but no cracking occurs at the 0.4—0.5n concentration of H_2SO_4. The alloy susceptibility to stress corrosion and the rate of corrosion in Na_2CO_3 solutions are the lowest at about a 0.05-n concentration. In NaCl solutions the MA3 alloy susceptibility to stress corrosion and the corrosion rate increase continuously with increasing NaCl concentration. With a $K_2Cr_2O_7$ concentration of 0.025 mol in the NaCl solution, the alloy susceptibility to stress corrosion is at its highest, decreasing at higher concentrations. At a sufficiently high concentration (unspecified) the stress corrosion stops. With $K_2Cr_2O_7$ additions to a 0.01 mol NaCl solution, the weight loss first increases and then decreases; it decreases continuously, however, in more concentrated NaCl solutions. A solution of 0.5 mol NaCl + 0.05 mol $K_2Cr_2O_7$ is recommended for the express determination of the susceptibility of magnesium alloys to stress corrosion. Both cathodic and anodic polarization of

Card 2/3

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ACCESSION NR: AP4041799

MA3 alloy are quite high in a $K_2Cr_2O_7$ solution, but are insignificant in 0.5 mol NaCl solutions. Accelerated stress corrosion of magnesium alloys in NaCl solutions with additions of $K_2Cr_2O_7$ appears to result from the localization and, consequently, intensification of corrosion attack, and also from concentration of stresses at the bottom of the minute corrosion centers formed. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 20Jul62 ATD PRESS: 3062 ENCL: 00

SUB CODE: MM NO REF SOV: 006 OTHER: 004

Card 3/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

KLINOV, I.Ya., doktor tekhn.nauk, prof.; ZARETSKIY, Ye.M., kand. tekhn. nauk

Review of the book "Inhibitors of the corrosion of metals" by I.N. Putilova, S.A. Balezin, V.P. Barannik. Reviewed by I.IA. Klinov, E.M. Zaretskii. Khim. mash. no.2:47-48 Mr-Ap '59. (MIRA 12:7)

(Corrosion and anticorrosives)
(Putilova, I.N.) (Balezin, S.A.)
(Barannik, V.P.)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

KLINOV, I.Ya., doktor tekhn. nauk, prof.; ZARETSKIY, Ye.M., kand. tekhn. nauk, dots.

Review of the book: "Corrosion and the protection of metals. Calculations". Reviewed by I.IA. Klinov, E.M. Zaretskii. Khim. mash. no.6:47 N-D '59. (MIRA 13:3)

(Corrosion and anticorrosives)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

S/081/61/000/011/018/040
B105/B203

AUTHORS: Salem, R. R., Zaretskiy, Ye. M., Klinov, I. Ya.

TITLE: Slit corrosion of low-carbon steel

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 11, 1961, 290-291, abstract 11Ж160 (Tr. Mosk, in-ta khim. mashinostr., 1960 22, 63-74)

TEXT: The authors studied the distribution and diffusion of O_2 dissolved in the electrolyte in slits formed by metal with inert surface, and clarified the distribution of corrosions inside the slit with respect to position and time. They used for their experiments carbon steel of the type Ст.3 (St. 3), and an air-saturated 0.5 N NaCl solution as corrosive medium. To prevent thermal convection, the experiments were made at constant temperature. The investigations showed that O_2 was mainly consumed in the first 30 min from the start of immersing the specimen in the slit into the solution. In slits of >1.0 - 1.5 mm, the concentration

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of dissolved O_2 decreases along the depth of the slit more uniformly than in narrow slits, and complete consumption of O_2 in the depth of the slit occurs much later. In narrow slits (0.05-0.2 mm), the amount of dissolved O_2 decreases rapidly, and at a distance of 5-6 mm, its quantity is 5-6 times smaller than at the inlet of the slit after 10-15 min from the beginning of the experiment. The behavior of the metal in the slit, when there is no contact with the metal which is in a free O_2 current, shows that in a wide slit the cathode surface occupies a much larger area than in a narrow one; therefore, the rate of corrosion (RC) is higher in the wide slit. It is stressed that the RC is even lower in the narrow slit, when there is no contact with the metal in the electrolyte, than the RC of the same metal which is in a free current of dissolved O_2. In a contact of the metal in the slit with the metal in the electrolyte which is freely flown around by the O_2 of the solution, the metal surface in the slit becomes completely anodic very quickly, and is destroyed the more intensively, the larger the cathode surface. An increase in the surface

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

Slit corrosion of low-carbon steel

S/081/61/000/011/018/040
B105/B203

of the contacting metal in the volume of the electrolyte increases the RC of the metal in the slit. [Abstracter's note: Complete translation.]

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

ZARETSKIY, Ye.M.

28064 S/137/61/000/004/039/039
A056/A101

5.1310

AUTHOR: ~~Zaretskiy, Ye. M.~~

TITLE: Examination of anodizing of the magnesium alloy MVI-5 (ML-5)

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1961, 70, abstract 41534 ("Tr. Mosk. in-ta khim. mashinostr.", 1960, 22, 190-207)

TEXT: The author examines the anodizing of the ML-5 alloy by d-c in alkaline-phenol-silicate and alkaline fluoride electrolytes (composition given). During anodizing of samples at 50 - 80°C, D_a = 1 - 2 a/dm^2 and a processing time of 25 - 50 min, in the alkaline-phenol-silicate electrolyte, the weight of the coating formed increases rectilinearly. The prolongation of anodizing to 120 min gives a friable coating, peeling easily off the sample. The current yield decreases in proportion with the electrolyte temperature lowering, the increase of D_a and the duration of the process. In anodizing of samples in the alkaline-fluoride electrolyte at D_a = 0.5 - 3 a/cm^2 and temperature 50°C, the coating weight depends not much on D_a and is chiefly determined by the amount of electricity consumed. At a constant D_a, the voltage at the bath terminals increases from 30 to 80 v. With the production of a definite thickness, independently of

Card 1/2

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"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9

28064 S/137/61/000/004/039/039
A056/A101

Examination of anodizing of the manganese ...

D_a, after having let through approximately the same quantities of electricity, the coating is ruptured. No relation between Da, the quantity of electricity consumed and the quantity of Mg passing into the electrolyte was established. The author proposes a mechanism of anodic oxidization of Mg at its anodizing in the alkaline-fluoride electrolyte.

Ye. L.

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820012-9"