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BC

13

Nitration of halogen derivatives of pyridine. E. Plazek, A. Sokorowska, and D. Tokopka (Roczn. Chem., 1951, 25, 210–216).—KNO_3 in conc. HNO_3 added to 2-halogenopyridines in 10% oleum at 270°, yields 2-chloro-, m.p. 98°, 2-bromo-, m.p. 110°, and 2-iodo-5-nitropyridine, m.p. 198°. The orientation of these compounds is determined by reduction to NH_2-compounds, of which 2-iodo-5-aminopyridine, m.p. 70° (picrate, m.p. 253°), is new. Under similar conditions of nitration NO_2-derivatives of 2- and 4-halogenopyridines are not obtained. R. T.

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PROCESSES AND PROPERTIES INDEX

10

Direct chlorination of pyridine. Z. Rodewald and E. Plażek. *Roczniki Chem.* 18, 39-42 in German 43 (1938). —Chlorination of pyridine by a method analogous to Hoffmann-Blau's bromination method gives 3,5-dichloropyridine and 3-chloropyridine. M. Woiciechowski

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

10

Constitution of sulfonation products of 3-aminopyridine and 3-hydroxypyridine E. Plazek. *Roczniki Chem* 17, 97-100(1937)(in German 100); cf. C. A. 31, 1808[3].

Sulfonation of 3-aminopyridine as well as 3-hydroxypyridine occurs in position 2 (ortho). By the oxidation of 2-mercapto-5-nitropyridine with $KMnO_4$ there was obtained the K salt of 2-sulfo-5-nitropyridine, which was reduced with $SnCl_2$ to 2-sulfo-5-aminopyridine (I). I is different from that obtained by sulfonation of 3-aminopyridine, which was proved to be 2-sulfo-3-aminopyridine. By sulfonation of 3-hydroxypyridine, 2-sulfo-3-hydroxypyridine was obtained. M. Wojciechowski

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3-Hydroxypyridine. II. Nitration, iodination, 2,3-dihydroxypyridine. R. Plazek and Z. Rodewald. *Roczniki Chem.* 16, 502-8(in German 508)(1936); cf. *C. A.* 31, 1808[5].—By the nitration of 3-hydroxypyridine (I) in concd. H_2SO_4, 2-nitro-3-hydroxypyridine (II) is formed. By reduction of II, the aminohydroxy deriv. is obtained, which condenses with picryl chloride, forming 2,3-pyridyl-2,4'-dinitrobenzoxazine. By the diazotization of amino-hydroxypyridine, dihydroxypyridine is formed, which is identical with the product obtained by Kudernatsch by melting 3-hydroxypyridine with alkali. The authors have proved that this compd. is 2-amino-3-hydroxypyridine. By iodination of 3-hydroxypyridine, iodo-3-hydroxypyridine (III) was obtained. By heating III in a sealed tube with aq. NH_3, 2-amino-3-hydroxypyridine is formed,

thus proving that +++ is 2-iodo-3 hydhoxypyridine.

W.Wojciechowski

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Pyridine derivatives. Z. Rodewald and E. Plazek. *Roczniki Chem.* 16, 444-50(1936).—Pyridine-HCl and ICl at 250° for 7 hrs. gave *iodo-2-pyridylpyridine*, m. 209°, sol. in H_2O and hot EtOH, insol. in cold EtOH and PhH; picrate, long yellow needles, m. 136°. The I compd. with NH_3 forms 2 aminopyridine, white plates, m. 57°; picrate, m. 216°. 2-Iodopyridine with pyridine-HCl also gave iodo-2-pyridylpyridine and hence they detd. that the primary product in the 1st reaction is 2-iodopyridine which then adds on to pyridine. J. Z.

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Pyridines. I. A study of the amination and sulfonation of 3-hydroxypyridine. E. Plazek. *Roczniks Chem.* 16, 403-5(1936).—Five g. 3-hydroxypyridine (I) and 6 g. $NaNH_2$ in MeOH and *p*-cymene, resp., when heated at 210° for 4 hrs. gave *2,6-diaminopyridine*, m. 121° (from PhH), a reduction of the HO group having taken place. I (10 g.) with 50 g. of 100% H_2SO_4 and a vanadyl sulfate catalyst formed *3-hydroxypyridine-2(6)-sulfonic acid*, m. 302°, sol. in H_2O but practically insol. in org. solvents. The structure of the latter was detd. by diazotization of 3-aminopyridine-2(6)-sulfonic acid. John Zemba

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Aromatic halides. A study of the reaction rates of aromatic halides with ammonia and aliphatic amines. A. Marcinkow and E. Plazek. *Roczniki Chem.* 16, 395-402(1936).—Dissocn. consts. ($K \times 10^5$) were detd. for the following: NH_3 1.4, $MeNH_2$ 5, Me_2NH 7.4, iso-$BuNH_2$ 3.1, $(iso\text{-}Bu)_2NH$ 4.8, iso-$AmNH_2$ 5.10, $(iso\text{-}Am)_2NH$ 9.6. The lower aliphatic amines react regularly in accordance with their dissocn. const. but this regularity is lacking among the higher amines where unexpected yields are a rule. John Zemba

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3-Aminopyridine derivatives substituted in position 5. A. MARCINKÓW and E. PLAŻEK (Roczn. Chem., 1936, 16, 136—140).—3 : 5-Dibromopyridine (I) and NH_3 in MeOH in presence of $CuSO_4$ (135—140°; 20 hr.) yield *3-bromo-5-aminopyridine*, m.p. 63—64°, from which *3-bromo-5-hydroxypyridine* (II), m.p. 163—165°, is obtained by treating the diazo-derivative with boiling H_2O. (II) and aq. NH_3 in presence of $CuSO_4$ (135—140°; 20 hr.) yield *3-amino-5-hydroxypyridine*, m.p. 158—160°. (I) and aq. NH_2Me (200°; 20 hr.) afford *3-bromo-5-methylaminopyridine*, m.p. 87—89° (*picrate*, m.p. 182—184°), which with aq. NH_3 and $CuSO_4$ (135—140°; 20 hr.) gives *3-amino-5-methylaminopyridine*, b.p. 190—195°/10 mm. (*picrate*, m.p. 223—225°; 3 : 5-N-Ac_2 derivative, m.p. 162—163°). (I) and aq. $NHMe_2$ (200°; 20 hr.) yield *3-bromo-5-dimethylaminopyridine*, m.p. 175—177°, which affords *3-amino-5-dimethylaminopyridine*, m.p. 133—135° (*picrate*, m.p. 214—216°; 3-N-*Ac* derivative, m.p. 194—195°), with aq. NH_3 and $CuSO_4$ (135—140°; 20 hr.). R. T.

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3-Aminopyridine. III. Iodination. Z. RODEWALD and E. PLÁŠEK (Rocz. Chem., 1936, 16, 130—135).—3-Aminopyridine (I) and ICl in fuming HCl yield an additive *compound*, of variable composition, which, when boiled with H_2O, gives 2 : 6-*di-iodo*-3-*aminopyridine* (II), m.p. 153° (3-N-*Ac* derivative, m.p. 199—201°); also obtained when 3-aminopicolinic acid is taken in place of (I). (II) in EtOH-H_2SO_4 and $NaNO_2$ afford 2 : 6-*di-iodopyridine*, m.p. 130—145°, together with some 2 : 6-*di-iodo*-3-*ethoxypyridine*, m.p. 96—98°. 3-Acetamidopyridine (III) and ICl in AcOH afford an additive *compound*, m.p. 163°, from which (III) or 3-aminopyridine (IV) is obtained by the action of acids or alkalis. The hydrochloride of (IV) and ICl at 200° yield *dichloro*-3-*aminopyridine*, m.p. 118°. R. T.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Synthesis of some alkeine derivatives of mandelic and tropic acids. E. Plazek and Z. Rodewald. *Roczniki Chem.* **15**, 481-90(1935). Five g. PhCH(OEt)COCl (I) and 3.4 g. tropine in anhyd. Et_2O are mixed; the pptd. tropine-HCl is filtered off and the filtrate after removal of Et_2O and purifying by distn. under reduced pressure yields the pure ester (II) $b_{0.4}$ 169-71°; picrate of II, m. 216-17°; picrolonate, yellow, m. 155-6°. The Pr ester (III) prepd. from PhCH(OPr)COCl and tropine as for II, $b_{0.4}$ 170-2°; picrate of III, m. 206°; picrolonate, m. 164°. 8.5 g. I in 80 cc. anhyd. Et_2O and 4 g. $Me_2NCH_2CH_2OH$ (IV) in 40 cc. abs. Et_2O are mixed, set aside for 0.5 hr. and the Et_2O removed; the product, dissolved in a small amt. of H_2O, made alk. with K_2CO_3 and extd. with Et_2O, is distd. under reduced pressure after removal of the Et_2O. The resulting ester (V) $b_{0.7}$ 108-10°; the picrolonate of the methiodide of V, bright yellow, m. 139°. The Pr analog (VI) of V, $b_{0.2}$ 110-12°; picrate of the methiodide of VI, m. 162°. Esters of *O*-ethyl tropic and *O*-propyl tropic acids with IV are obtained in a manner analogous to that for the above alkeines. These latter tropic esters do not yield salts characterizing the compds.

C. T. Ichniowski

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3 Aminopyridine. II. (Methylated derivatives, acetylaminopyridine, formylaminopyridine.) E. Plazek, A. Marvinikow and Ch. Stammer. *Roczniki Chem.* **15**, 365-76(in German 376-7)(1935); cf. *C. A.* **29**, 2535[8]. The authors found that all derivs. of 3-aminopyridine are chemically more inactive than those of 2-aminopyridine. The following compds. were prepd.: 3-Methylaminopyridine, obtained in 4.5 g. yield by heating in a sealed tube to 125-135° for 20 hrs. 10 g. 3-bromopyridine and 25 cc. 40% aq. $MeNH_2$ with addn. of 1 g. $CuSO_4$ as catalyst. The product was extd. with ether and distd at 118-120° under 12 mm. pressure. 3-Acetylmethylaminopyridine, obtained in 9 g. yield by boiling 1 hr. 8 g. amine and 11 g. Ac_2O. The product b_{10} 145°; when crystd. from petr. ether, it m. 64°. 2,6-Dibromo-3-methylaminopyridine, obtained in 4.6 g. yield by adding to 1.96 g. amine in 5 g. AcOH 6.1 g. Br in 5 cc. AcOH; crystd. from $EtOH-H_2O$, it m. 69°. 3-Methylnitrosoamine, obtained in 4 g. yield by diazotization of 5 g. amine, b_{10} 135°. 3-Pyridylmethylhydrazine, obtained by the reduction of the nitroso compd. with [illegible] in AcOH, b_{10} 191°. 3-Methylnitroaminopyridine, obtained in 2.5 g. yield by adding at 0° to 4.5 g. amine in 10 cc. concd. H_2SO_4 a mixt. of 3 cc. HNO_3 (d. 1.52) and 5 cc. concd. H_2SO_4, m. 54-5°, $b_{0.4}$ 124-5°. 2-Nitro-3-methylaminopyridine, obtained in 2 g. yield by introducing slowly 5 g. 3-methylnitroamine into 25 cc. concd. H_2SO_4 at 0-5°, m. 110°. 3-Methylamino-2-aminopyridine, obtained by reduction of the 2-nitro compd. with $SnCl_2$ or by amidation of 3-methylaminopyridine with $NaNH_2$, m. 124°. 6-Amino-3-methylaminopyridine, obtained by heating at 110-15° for 20 hrs. 6 g. 3-bromo-6-aminopyridine with 15 cc. of 40% aq. $MeNH_2$ and 0.5 g. $CuSO_4$ as catalyst, m. 70°. Bromination of 3-dimethylaminopyridine gives 2,6-dibromodimethylaminopyridine, $b_{0.4}$ 113-15°, and bromo-3-dimethylaminopyridine, m. 64-6°. Formylaminopyridine obtained by boiling for 4 hrs. 5 g. 3-aminopyridine and 10 cc. HCOOH, b_{10} 200° under 25 mm pressure, m. 96°. There was also obtained 3-acetylaminopyridine nitrate, m. 165°. M. Wojciechowski

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC

a-3

Synthesis of alkaines derived from O-phenyl-lactic and -mandelic acid. E. Plazek, Z. Rodewald, and D. Kezysaniak (Rocz. Chem., 1935, 15, 360—364).—*O-Phenylmandelyl chloride*, b.p. 135°/0·6 mm., yields the *tropyl* ester, b.p. 206°/1 mm. (*picrate*, m.p. 171°; *picrolonate*, m.p. 187°), with tropine, and β-*dimethylaminoethyl* O-*phenylmandelate*, b.p. 148—150°/0·2 mm. (*picrolonate*, m.p. 141—142°), with $NEt_2 \cdot CH_2 \cdot CH_2 \cdot OH$. KOPh and $CHMeBr \cdot CO_2Me$ (2 hr.; 100°), followed by hydrolysis of the product with EtOH-KOH, yield O-*phenyl-lactic acid* (I), m.p. 114°, the *chloride*, b.p. 115°/20 mm., of which affords the *tropyl*, b.p. 140—150°/0·6 mm. (*picrate*, m.p. 175°; *picrolonate*, m.p. 200—202°), and β-*dimethylaminoethyl* esters of (I), m.p. 75° (*picrate*, m.p. 113°; *picrolonate*, m.p. 148°). R. T.

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Synthesis of "alkeines" derived from α-alkoxypropionic acid. Z. Rodewald and E. Plazek. *Roczniki Chem.* 15, 81-7(1935).—CHMeBrCO$_2$Me and NaOMe in MeOH are boiled for 3 hrs., NaOH is added, the soln. is heated for a further 30 min., and MeOCHMeCO$_2$H (I) is extd. from the product. The corresponding *Et* (II), b_{10} 99° (*chloride*, b_{10} 54-8°), and *Pr* (III) *esters*, b_{10} 105° (*chloride*, b_{10} 68°), are prepd. analogously. The *tropyl ester* of I, b_{10} 160° (*picrate*, m. 187°; *picrolonate*, m. 237°), of II, b_{10} 98-100° (*picrate*, m. 182-3°, *picrolonate*, m. 193°, *methiodide*, m. 256° (decompn.)), and of III, b_{10} 115° (*picrate*, m. 158°; *picrolonate*, m. 175°), are obtained by passing dry HCl through a fused mixt. of tropine and the appropriate acid at 110° (3 hrs.). The *chloride*, b_{10} 10°, of I and Me$_2$NCH$_2$CH$_2$OH in EtOH afford *β-dimethylaminoethyl α-methoxypropionate*, b_{10} 90-8° (*picrate* of methiodide, m. 64°), the corresponding *esters* of II, b_{10} 95-6°, and of III, b_{10} 112-15°, are prepd. similarly. B. C. A.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

BE

A-3

Phosphoro-pyridine compounds. E. Plażek and Z. Sasyk (Rocz. Chem., 1934, 14, 1198—1201).—2-Dimethylaminopyridine (I) and PCl_3 are heated at 100° for 8 hr., excess of PCl_3 is distilled off, aq. NaOH added to an alkaline reaction, excess of (I) removed by Et_2O extraction, the aq. solution evaporated, the residue dissolved in EtOH, and *2-dimethylamino-pyridine-5(?)-phosphinous acid* (II), m.p. 250—252° (decomp.), prepared from the Na salt crystallising from the EtOH solution. The analogous *phosphinic acid*, decomp. at > 300°, is obtained by oxidising (II) with EtOH–$HgCl_2$. R. T.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

COMMON ELEMENTS

CO

10

3-Aminopyridine. I. Bromination, sulfonation and methylation. E. Plazek and A. Marcinkow. *Recueil Chem.* 14, 326-34(1934).—3-Aminopyridine (I) affords *2,6-di-*, m. 142°, and *2,4,6-tri-bromo-3-aminopyridine*, m. 115°, with, resp., 2 and 3 parts of Br in MeOH; the Br_2 and Br_3 derivs. are not obtained by direct bromination. *3-Aminopyridine-2(6?)-sulfonic acid* (II), m. 283-5°, is obtained from $ClSO_3H$ and I, but not by direct sulfonation with H_2SO_4. II yields the internal *diazonium salt*, exploding on heating, on diazotization with AmONO, and the salt is converted into *pyridine-2-sulfonic acid*, m. 240°, by heating with HCO_2H and Cu. *3-Dimethylaminopyridine*, b_{15} 105-6° (*picrate*, m. 178-80°; *picrolonate*, m. 225-6°; *methiodide*, m. 101-2°), is prepd by passing MeOH and I vapors over Al_2O_3 at 380-420°.

B. C. A.

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BC

a-4

Arsenic derivatives of indazole. E. Płażek and E. Neymanówna (Rocz. Chem., 1932, **12**, 706—714).—*Indazole-6-arsinic acid*, m.p. 206—208°, produced, together with other unidentified products, by adding Na_2AsO_2 to diazotised 6-aminoindazole, yields *indazole-6-arsinoxide* (I), decomp. > 170°, on treatment with SO_2, *bis-6-arsenoindazole*, decomp. > 240°, on reduction, and *indazole-6-arsenious disulphide* on treatment with H_2S; *indazole-6-thioarsinoxide*, m.p. 170°, is obtained from H_2S and (I). *Indazole-7-*, m.p. 222—225°, *-5-*, solid at 340°, and *-4-arsinic acid*, m.p. 242°, 7-, decomp. 170°, 5-, m.p. 286°, and *4-arsenoindazole oxide*, decomp. 250°, *bis-7-*, m.p. 216°, and *bis-5-arsenoindazole*, unstable, are prepared analogously to the above compounds. Indazole-6- and -4-arsinic acids are much stronger acids than are the -7- and -5-compounds. R. T.

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CA

10

Synthesis of alkeine derivatives of methoxy acids. J. VON BRAUN AND E. PLAZEK *Roczniki Chem.* 11, 890-6(890 in German) (1931). *o*-Methylmandelyl chloride (I), prepd. from *o*-methylmandelic acid and $SOCl_2$, condensed with tropine yields *methyl homoatropine*, $C_{17}H_{23}O_3N$, $b_{0.5}$ 144-6° (dihydrate m. 50-5°; picrate m. 238°; picrolonate m. 226°; MeI deriv. m. 231°). *o*-Methyltropyl chloride (II) yields with tropine *o*-methylatropine, $C_{17}H_{21}O_2N$, $b_{0.5}$ 162-4° (picrate m. 203°; MeI deriv. m. 231°). Dimethylaminoethanol and I give *dimethylaminoethyl o-methylmandelate*, $C_{14}H_{21}O_3N$, $b_{0.5}$ 120-2° (MeI deriv. m. 250°; picrate of MeI deriv. m. 165°). II with dimethylaminoethanol yields similarly *dimethylaminoethyl o-methyltropate*, $C_{14}H_{19}O_2N$, $b_{0.5}$ 124-6° (MeI deriv. m. 256°; picrate of MeI deriv. m. 160-2°). I forms with 3-*N*-piperidylpropanol the corresponding *o-methylmandelate*, $C_{17}H_{23}O_3N$, $b_{0.5}$ 160-2° (MeI deriv. m. 140°), while II gives analogously the *o-methyltropate*, $C_{17}H_{21}O_2N$ $b_{0.5}$ 168-70° (MeI deriv. m. 137°). J. WIERTELAK

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PROCESSES AND PROPERTIES INDEX

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A-3

Chlorination and nitration in methyl-alcoholic solution. E. Pratek (Roczn. Chem., 1930, 10, 761—776).—Aromatic hydrocarbons and β-naphthol do not undergo chlorination in methyl-alcoholic solution, the chlorine entering into combination only with the solvent. Phenol, *m*-cresol, and anisole readily yield monochloro-derivatives, quinol yields a mixture of 2 : 3- and 2 : 5-dichloroquinol, with only traces of quinone, whilst pyrocatechol and resorcinol yield uncrystallisable, tarry products. Anthracene is converted into anthraquinone, veratrole gives a dichloro-derivative, guaiacol yields exclusively trichloroguaiacol, m. p. 107°, salicylic acid yields exclusively 5-chloro-2-hydroxybenzoic acid, 3-hydroxybenzoic acid is converted chiefly into 2-chloro-3-hydroxybenzoic acid, with the 6-chloro-derivative as a by-product, whilst 4-hydroxybenzoic acid gives a mixture of products containing 3 : 5-dichloro-4-hydroxybenzoic acid. *p*-Nitrophenol yields 2-chloro-*p*-nitrophenol, *o*-nitrophenol gives a mixture of 6- and 4-chloro-*o*-nitrophenol. Phenol-4-sulphonic acid, aniline, and *o*- and *p*-acetotoluidides yield the same products as in other solvents. *o*-, *m*-, and *p*-Diacetylphenylenediamines give exclusively dichloro-derivatives, *p*-nitroaniline yields 2-chloro-*p*-nitroaniline, with an admixture of 2 : 6-dichloro-*p*-nitroaniline; *o*-nitroaniline yields chiefly 4-chloro-*o*-nitroaniline together with 4 : 6-dichloro-*o*-nitroaniline, *m*-nitroaniline gives a mixture of 4-chloro-*m*-nitroaniline, 4 : 6-dichloro-*m*-nitroaniline, and 2 : 4 : 6-trichloro-*m*-nitroaniline; the last named is the sole product of exhaustive chlorination. *o*-Aminobenzoic acid does not undergo chlorination, whilst the *m*- and *p*-acids yield the same dichloro-derivatives as are obtained using ordinary solvents, together with some trichloroaniline resulting from decarboxylation of the original acid. On the whole, purer products are obtained in greater yield in methyl than in ethyl alcohol. Nitration can be performed in methyl-alcoholic solution only of phenolic substances; phenol gives a mixture of 2- and 4-nitrophenol, anisole yields 2- and 4-nitroanisole, 2- and 4-chlorophenols give respectively a mixture of 2-chloro-4- and -6-nitrophenol and 4-chloro-2-nitrophenol, veratrole yields 4-nitroveratrole, quinol dimethyl ether the 2-nitro-derivative, and *m*-cresol yields 4-nitro-*m*-cresol, together with the 2- and 6-nitro-derivatives. R. Truszkowski.

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acid I reacts with sodium hypophosphite and potassium iodide to yield *bis-3-arsenopyridine-2-carboxylic acid* $(CO_2H{\cdot}C_5H_3N{\cdot}As{\cdot})_2$. The *mono-* and *di-sulphides* of acid I (decomp. 250° and 231°) are prepared by the action of hydrogen sulphide respectively on the oxide and the acid. *2-Dimethylaminopyridine-5-arsinic acid*, m. p. above 300° (decomp.), is prepared by the action of arsenic trichloride on 2-dimethylaminopyridine. The corresponding *oxide*, m. p. 265°, *mono-* and *di-sulphides*, respective m. p. 205—206° and 118—120°, and *bis-5-arseno-2-dimethylaminopyridine*, $(NMe_2{\cdot}C_5H_3N{\cdot}As{\cdot})_2$, m. p. 288—290°, are prepared.

R. Truszkowski.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PLAVKOVA, O.

Good spirits on block twelve; a short story. p. 7. Television in Poland. p. 8.
Help for agitators. p. XXIX.
(LUDOVY ROZHLAS., Vol. 9, no. 19, Apr. 1953, Czechoslovakia)

SO: Monthly List of East European Accessions, Vol. 2 #8, Library of Congress,
August 1953, Uncl.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVKA, Ivan, inz.

Optimum parameters of nuclear electric power plants with a gas-cooled reactor. Energetika Cz 11 no.2:68-71 F '61.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

ZEINIK, Andrej, zast.doc., inž., CSc; RAJCOK, Matus, inž.; PLAVKA, Ivan, Inž.

Influence of ball charge on convection heat transfer. Strojn. cas 14 no.6:547-556 '63.

1. Strojnícka fakulta Slovenskej vysokej školy technickej, Bratislava.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVKA, A.

"The victorious February", P. 25., (SBORNIK, Vol. 30, No. 2, 1953, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions,(EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVKA, A.

10th anniversary of the Slovak Uprising. p. 225. KRASY SLOVENSKA. Bratislava. Vol. 31, no. 8, Aug. 1954.

SOURCE: East European Accessions List. (EEAL) Library of Congress. Vol. 5, No. 8, August 1956.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

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PLAVIUS, J.

Development of voluntary activity in children aged 3-4 1/2 years by verbal instruction from adults. Cesk. hyg. 8 no.4: 212-215 My '63.

1. Ustav hygieny Humboldtovy university, Berlin, oddeleni hygieny ditete.
(REFLEX, CONDITIONED) (LEARNING)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

ACC NR: AP6024341 SOURCE CODE: GE/0030/66/016/001/0069/0078

AUTHOR: Plavitu, C. N.

ORG: Faculty of Physics, University of Bucharest

TITLE: Some kinetic phenomena in impure ionic semiconductors

SOURCE: Physica status solidi, v. 16, no. 1, 1966, 69-78

TOPIC TAGS: semiconductor research, carrier scattering, semiconductor carrier, ionic crystal

ABSTRACT: An exact evaluation of the integrals entering into the expressions for the kinetic coefficients is made in order to find the regions in which the various scattering mechanisms of carriers are dominant. The scattering of carriers by ionized impurities and acoustic and optical phonons is considered. The analysis showed that scattering of carriers by optical phonons is predominant in impure semiconductors in the high temperature range. In the low temperature range (10^2-1°K), depending on the type of semiconductor, optical or acoustic phonon scattering mechanisms can be neglected, but two scattering mechanisms occur, usually including the impurity scattering mechanism. It is observed that the phonon drag contribution to some of the kinetic coefficients is only slightly modified when ionized impurity scattering is considered. Orig. art. has: 16 formulas.

SUB CODE: 20/ SUBM DATE: 31Mar66/ ORIG REF: 001/ OTH REF: 002
SOV REF: 002

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PLAVIT, P. Ya.

ROZENTUL, M.A., professor; VASIL'YEV, T.V., kand. med. nauk; SOKOLIN, A.I., kand.med.nauk; RAKHMANOVA, N.V., nauchn.sotr.; PRORVICH, L.V., nauchn. sotr.; ZLATKINA, A.R., nauchn.sotr.; ARNOL'D, V.A., vrach; PETRUSHEVSKIY, S.I., vrach; PLAVIT, P.Ya., vrach; VELICKHO, E.V., vrach; GLOBUS, R.E., vrach; GOL'DENBERG, M.M., vrach; TUNGUSKOVA, A.I., vrach

Results of treating syphilis according to the 1949-1951 programs. Vest. ven. i derm. no.1:22-25 Ja-F '55. (MLRA 8:4)

1. Bol'nitsa im. Korolenko (for Arnol'd, Petrushevskiy) 2. 1-y i 2-y kozhno-venerologicheskiye dispansery (for Plavit, Velichko, Globus, Gol'denberg, Tunguskova) 3. Iz otdela sifilidologii (zaveduyushchiy professor M.A.Rozentul) TSentral'nogo kozhno-venerologicheskogo instituta (direktor - kandidat meditsinskikh nauk N.M.Turanov) Ministerstva zdravookhraneniya SSSR.

(SYPHILIS, therapy
in Russia, pattern of ther.)

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PLAVIT, P.Ya.

SMELOV, N.S.; YEGOROV, G.I.; KOKOLIN, A.I.; KSANFOPULO, P.I.; RAKHMANOVA, N.V.; KRYLOVA, Ye.Ye.; RYKOVA, L.K.; PER, M.I.; PETRUSHEVSKIY, S.I.; PUSTOVAYA, A.I.; TUNGSKOVA, A.I.; VELICHKO, Ye.V.; PLAVIT, P.Ya.; GOL'DENBERG, M.M.

Evaluation of results of the treatment of early syphilis according to 1949 scheme. Vest. vener., Moskva No.1:29-33 Jan-Feb 52. (CIML 21:4)

1. Professor for Smelov and Per. 2. Central Skin-Venerelogical Institute (Director--N.M. Turanov) for Smelov, Yegorov, Sokolin, Ksanfopulo, Rakhmanova, Krylova and Rykov; Hospital imeni Korolenko (Head Physician Docent V.P. Volkov) for Per, Petrushevskiy; First Venereological Dispensary (Head Physician--K.A. Vinogradova) for Pustovaya and Tunguskova); Second Venereological Dispensary (Head Physician--V.G. Bronshteyn) for Velichko, Plavit and Gol'denberg.

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PLAVINSKIY, V.A.; VASIL'YEV, Yu.N.

Fuel system of free piston gas generators. Biul.tekh.-ekon. inform. Tekh.upr.Min.mor.flota 7 no.10:57-70 '62. (MIRA 16:9)

1. Nachal'nik otdela uchebnykh zavedeniy Glavnogo upravleniya sudovogo khozyaystva i sudoremontnykh zavodov (for Plavinskiy).
2. Starshiy inzh. otdela uchebnykh zavedeniy Glavnogo upravleniya sudovogo khozyaystva i sudoremontnykh zavodov (for Vasil'yev).
(Marine gas turbines)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PODSHIVALOV, Boris Dmitriyevich; KOCHUROV, Pavel Nikhaylovich; PLAVINSKIY, Yuriy Eduardovich; MALOZEMOV, N.A., doktor tekhn. nauk, retsenzent; PARAMONOV, A.A., inzh., retsenzent; PAVLUSHKOV, E.D., inzh., red.; KISELEVA, N.P., inzh., red.; KHITROV, P.A., tekhn. red.

[Production organization in diesel locomotive repair plants] Organizatsiia proizvodstva na teplovozoremontnykh zavodakh. Moskva, Vses. izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1961. 189 p. (MIRA 14:12)

(Diesel locomotives--Repais) (Railroads--Repair shops)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINSKIY, V.I.

BARAT, I.Ye, kandidat tekhnicheskikh nauk; PLAVINSKIY, V.I., kandidat tekhnicheskikh nauk; GLADKIY, V.F., inzhener, retsenzent; OSTOL'-SKIY, Vs.I., kandidat tekhnicheskikh nauk, redaktor; TIKHONOV, A.Ya. tekhnicheskiy redaktor

[Cable cranes] Kabel'nye krany. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 347 p. (MLRA 7:10)
(Cranes, derricks, etc.)

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PLAVINSKIY, V. I.

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Kabel'nye Krany (Cable cranes, by) I. Ye. Barat i V. I. Plavinskiy. Moskva, Mashgiz, 1954.
347 p. illus., diagrs., tables.
"Ispol'zovannaya literatura": p. 344- (345).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINSKIY, V.I., kand.tekhn.nauk

Technological development of the hoisting and conveying machinery industry. [Trudy] MVTU no.74:3-8 '58. (MIRA 11:10)
(Hoisting machinery) (Conveying machinery)

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MAZEL', Zinoviy Yevgen'yevich, kand.tekhn.nauk; USKOV, Anatoliy Pavlovich, inzh.; YAKOBSON, Andrey Genrikhovich, inzh.; PLAVINSKIY, V.I., kand.tekhn.nauk, nauchnyy red.; PETROV, G.D., inzh., nauchnyy red.; AKULOV, D.A., red.; SOKOL'SKIY, I.F., tekhn.red.

[Cableways on construction sites of the Stalingrad Hydroelectric Power Station] Kanatnye dorogi na stroitel'stve Stalingradskoi GES. Moskva, Gidroproekt, 1959. 72 p. (MIRA 13:6)
(Stalingrad Hydroelectric Power Station) (Cableways)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

KORNEYEV, Grigoriy Koz'mich, kand. tekhn. nauk; PLAVINSKIY, V.I., kand. tekhn. nauk, nauchnyy red.; GORDEYEV, P.A., red. izd-va; VDOVENKO, Z.I., red. izd-va; GOL'BERG, T.M., tekhn. red.

[Installation of elevators in apartment houses, public buildings and industrial plants] Ustanovka liftov v zhilykh, obshchestvennykh i promyshlennykh zdaniiakh. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 110 p.

(MIRA 14:6)

(Elevators)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

ALEYNER, A.L.; ANAN'YEV, A.A.; KOGAN, I.Ya.; LANG, A.G.; NIKOLAYEVSKIY, G.M.; PLAVINSKIY, V.I.; SAMOYLOVICH, P.A.; GORBACHEV, A.I., inzh., retsenzent; DUKEL'SKIY, A.I., prof., doktor tekhn. nauk, red.; SKOMOROVSKIY, R.V., kand. tekhn. nauk, red.; MITARCHUK, G.A., red.izd-va; VASIL'YEVA, V.P., red.izd-va; SPERANSKAYA, O.V., tekhn. red.

[Handbook on cranes] Spravochnik po kranam. Pod red. A.I. Dukel'skogo. Moskva, Mashgiz. Vol.3. [Characteristics of cranes, maintenance and installation] Kharakteristiki kranov, tekhnicheskaia ekspluatatsiia i montazh. 1963. 340 p. (MIRA 16:8)

(Cranes, derricks, etc.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

MEKLER, Abram Grigor'yevich, kand. tekhn. nauk; PLAVINSKIY, V.I., red.

[Automatic control of hoisting and conveying machines and systems] Avtomatizatsiia upravleniia pod"emno-transportnymi mashinami i sistemami. Leningrad, 1964. 22 p.
(MIRA 17:7)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

FRANTSUZOV, Yakov Leonovich; BELYAYEV, Leonid Mikhaylovich; PLAVINSKIY, V.I., kand. tekhn. nauk, retsenzent; VOYTSEKHOVSKIY, R.I., inzh., red.; GALANOVA, M.S., inzh., red. izd-va; UVAROVA, A.F., tekhn. red.

[Assembly and operation of suspended cableways] Montazh i ekspluatatsiia podvesnykh kanatnykh dorog. Moskva, Mashgiz, 1962. 275 p. (MIRA 15:3)

(Cableways)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

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IVANOVSKIY, Konstantin Yevgen'yevich; PLAVINSKIY, V.I., kand. tekhn. nauk, red.

[Loading and unloading devices for conveyer lines, Pere-gruzochnye ustroistva konveiernykh linii. Leningrad, 1964. 35 p. (MIRA 17:9)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

SUKHANOV, Donat Konstantinovich, kand. tekhn. nauk; [illegible], V.I., kand. tekhn. [illegible], red.

[Modern monorail [illegible]] Sovrem[illegible] [illegible] transport. Leningrad, 1964. 40 p. (MIRA 18,[illegible])

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BARAT, I.Ye.; D'YACHKOV, V.K.; MEKLER, A.G.; NIKOLAYEVSKIY, G.M.; OLEYNIK, A.M.; SEGAL', I.S.; SPITSINA, I.O.; PLAVINSKIY, V.I., red.; CHANGLI, I.I., red.; OSIPOVA, L.A., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[Present state of the hoisting and conveying machinery industry] Sovremennoe sostoianie pod"emno-transportnogo mashinostroeniia. By Kollektiv sovetskikh, chekhoslovatskikh i nemetskikh avtorov. Moskva, Mashgiz; Prague, SNTL; Berlin, VT, 1961. 420 p. (MIRA 14:11)
(Hoisting machinery) (Conveying machinery)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINSKIY, V.I., kand. tekhn. nauk.

International congress on cableways. Mekh.stroi. 15 no.10:3 of cover O '58. (Cableways) (MIRA 11:11)

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PLAVINSKIY, V.A.; VASIL'YEV, Yu.N.

Shipbuilding industry in Japan. Biul.tekh.-ekon.inform. no.2:33-36 (MIRA 11:4)

(Japan--Shipbuilding)

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PLAVINSKIY, V.A.; VASIL'YEV, Yu.N.

Manufacture of marine diesel engines and gas turbines in Japan.
Biul.tekh.-ekon.inform. no.7:93-96 '58. (MIRA 11:9)
(Japan--Gas turbines) (Japan--Marine diesel engines)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINSKIY, F.I.

AKOP'YAN, A.A., starshiy prepodavatel'; KRUGLOV, A.S., starshiy prepodavatel'; PLAVINSKIY, F.I., starshiy prepodavatel'.

Basic and determining problems in manufacturing instruments. Priborostroenie no.10:19-20 O '57. (MIRA 10:11)

1. LIAP

(Instrument industry) (Automatic control)

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Water Supply of Moldavia

99-1-4/10

in conjunction with two experimental farms. There are 7 photographs.

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Plavinskiy, A.I.

99-1-4/10

AUTHORS: Bikus, D.I., Lisitsyn, Yu. A., Plavinskiy, A.I., and Pozdenko, N.I., Engineers

TITLE: Water Supply of Moldavia (Vodnoye khozyaystvo Moldavii)

PERIODICAL: Gidrotekhnika i Melioratsiya, 1958, # 1, pp 19-25 (USSR)

ABSTRACT: The diversity of soil and climatic conditions prevailing in the Moldavian SSR demand intensive application of irrigation as well as drainage. Excellent results were obtained with irrigation at the Scientific-Research Institute for Irrigational Farming. Existing systems were expanded, and several new systems were recently built. At the end of the sixth Five-Year Plan a total of 34,000 ha are to be put under irrigation. According to state plans, 250,000 ha will be irrigated by 1970, at an expenditure of 1,785,000,000 rubles.

The diking and draining of the Dnestr lowlands and the island of Turunchuk, comprising a total of 27,000 ha, was started in 1951. In July 1957, the Moldavian Scientific-Research Institute for Irrigation Farming was established

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BIKUS, D.I. inzh.; LISITSYN, Ye.A.; PLAVINSKIY, A.I., inzh.; POZDENKO, N.I., inzh.

Water management in Moldavia. Gidr. i mel. 10 no.1:19-25 Ja '58.
(Moldavia--Irrigation) (MIRA 11:2)

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PLAVINSKIY, A.A.

Attachment for anesthetizing equipment for active inspiration and expiration. Zdrav. Bel. 7 no.3:67 Mr '61. (MIRA 14:3)

1. Iz khirurgicheskoy kliniki Belorusskogo instituta usovershenstvovaniya vrachey (zaveduyushchiy kafedroy - prof. A.M.Boldin).
(ANESTHESIA--EQUIPMENT AND SUPPLIES)

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BOLDIN, A.M., professor; PLAVINSKIY, A.A.

Anesthesia in the stage of analgesia. Zdrav. Bel. 7 no. 4:59-61 Ap '61. (MIRA 14:4)

1. Iz khirurgicheskoy kliniki Belorusskogo instituta usovershenstvovaniya vrachey (zaveduyushchiy kafedroy - professor A.M. Boldin).
(ANESTHESIA)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

NISENBAUM, L.I.; PLAVINSKIY, A.A.

Intubation anesthesia in urological practice. Zdrav. Bel. 8 no.4:48-50 Ap '62. (MIRA 15:6)

1. Iz urologicheskoy kliniki (zaveduyushchiy - prof. A.I. Mikhel'son) Belorusskogo instituta usovershenstvovaniya vrachey na baze Minskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach M.I. Kotovich).

(UROLOGY)
(INTRATRACHEAL ANESTHESIA)

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PLAVINSKIY, A.A.

Biliary peritonitis. Zdrav. Bel. 9 no.8:84-85 Ag'63 (MIRA 17:3)

1. Iz khirurgicheskoy kliniki Belorusskogo gosudarstvennogo instituta usovershenstvovaniya vrachey (zav. kafedroy - prof. A.M. Boldin)

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PLAVINSKIY, A.A.

Psychic factor in the administration of nitrous oxide anesthesia. Zdrav. Bel. 7 no.12:44 D '61. (MIRA 15:2)

1. Iz khirurgicheskoy kliniki (zaveduyushchiy kafedroy - prof. A.M. Boldin) Belorusskogo instituta usovershenstvovaniya vrachey.
(NITROUS OXIDE)

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BOLDIN, A.M., prof.; PLAVINSKIY, A.A.

Intubation technic in anesthesia. Zdrav.Bel. 8 no.2:57-58 F '62. (MIRA 15:11)

1. Kafedra khirurgii Belorusskogo gosudarstvennogo instituta usovershenstvovaniya vrachey (zav. kafedroy - prof. A.M.Boldin).
(INTRATRACHEAL ANESTHESIA)

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DENISOVSKIY, G.K.; KLIONSKIY, S.I.; PLAVINSKIY, A.A.

Traumatic rupture of the spleen in combination with severe brain injury. Zdrav. Bel. 7 no.6:62 Je '61. (MIRA 15:2)

1. Iz khirurgicheskoy kliniki Belorusskogo usovershenstvovaniya vrachey (zaveduyushchiy kafedroy - prof. A.M.Boldin).
(SPLEEN--RUPTURE) (BRAIN--WOUNDS AND INJURIES)

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PLAVINSKIY, A.A.

Inclusion of an automatic respiratory apparatus for work in a semiclosed anestheric system. Zdrav.Bel. 9 no.2:57-58 F'63. (MIRA 16:7)

1. Iz khirurgicheskoy kliniki Belorusskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey (zaveduyushchiy kafedroy prof. A.M.Boldin).
(ANESTHESIOLOGY--EQUIPMENT AND SUPPLIES)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINSKIY, A.A.

Pathology of Meckel's diverticulum as a cause of "acute abdomen." Zdrav.Belor. 4 no.3:61 Mr '58. (MIRA 13:6)

1. Iz khirurgicheskoy kliniki Belorusskogo instituta usovershenstvovaniya vrachey (zaveduyushchiy kafedroy - professor A.M. Boldin).
(ILEUM--DISEASES) (ABDOMEN--DISEASES)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINSKIY, A.A.

Free skin transplantation with flaps of varying thickness. Zdrav. Belor. 5 no.1:55 Ja '60. (MIRA 13:5)

1. Iz kafedry khirurgii Belorusskogo instituta usovershenstvovaniya vrachey (zaveduyushchiy kafedroy - professor A.M. Boldin).
(SKIN GRAFTING)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINSKIY, A., inzh.; KHRONOPULO, G., inzh.

Mechanized crib-type storage barn for potatoes. Sel'. stroi. 16 no.1:insert:7-8 Ja '62. (MIRA 16:1)
(Potatoes—Storage)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

KUDRYAVTSEV, A. V., PLAVINSKAYA, V. I. (Leningrad NIVI)
Vet Bact Lab, Main Admin Animal Husbandry, MinState Farms USSR
Agglutination

Comparative evaluation of the classical method of agglutination reaction and of the accelerated colloidal antigen method. Veterinariia 29 no. 3, '52.

Authors compared the results given by the classic method of reaction of agglutination with those of the accelerated method of colloidal antigen. The reaction was modified. They took antigen, used in the classic method, and added to it 12 percent chemically pure salt and 15 percent chemically pure glycerine.
U-4863, 19 Oct 1953

9. Monthly List of Russian Accessions, Library of Congress, July 1953. Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

DANILIN, V.A., dots. PLAVINSKAYA, N.Ya., kand.med.nauk

Clinical picture of acute leukoses. Sov.med. 22 no.5:49-54 My '58

1. Iz kliniki gospital'noy terapii (zav. - prof. A.I. Germanov) i kliniki propedevticheskoy terapii (zav. - prof. S.V. Shestakov) Kuybyshevskogo meditsinskogo instituta.
(LEUKEMIA, manifest.
clin. manifest. (Rus))

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

GENES, S.G.; PLAVSKAYA, A.A.; YURCHENKO, M.Z. (Khar'kov)

Potentiating action of the new sugar-reducing, perorally effective preparation, chlorisopropamide. Probl.endok.i gorm. no.4:3-10 '62. (MIRA 15:11)

1. Iz otdela patofiziologii (zav. - zasluzhennyy deyatel' nauki prof. S.G. Genes) Ukrainskogo instituta eksperimental'noy endokrinologii (dir. - kand.med.nauk S.V. Maksimov).
(PROPIONAMIDE)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

BARAT, I.Ye., kand. tekhn. nauk; FLAVINSKIY, V.I., kand. tekhn. nauk; Prinimal uchastiye MEKLER, A.G., kand. tekhn. nauk; KROMBERG, A.A., prof., retsenzent

[Cable cranes] Kabel'nye krany. Moskva, Mashinostroenie, 1964. 340 p. (MIRA 18:1)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINAS, B.

About visible light and audible sound. Nauka i zhyttia 13 no.10: 36-39 N '63. (MIRA 16:12)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

barrier may be overcome by a tunnel effect or a thermal transfer of an electron over the barrier. At the beginning of a discharge the barrier dominates; at the end of it, when the barrier has become low, the volume resistivity and recombination processes dominate. On these assumptions the discharge in zinc-oxide layers is studied. The authors thank V. M. Fridkin for discussions. There are 3 figures.

ASSOCIATION: Institut fiziki i matematiki Akademii nauk SSSR (Institute of Physics and Mathematics of the Academy of Sciences USSR) Nauchno-issledovatel'skiy institut elektrografii, Vil'nyus (Scientific Research Institute of Electrography, Vil'nyus)

PRESENTED: December 11, 1961, by A. V. Shubnikov, Academician

SUBMITTED: December 1, 1961

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

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24.2130
24.2600

S/020/62/143/004/011/027
B104/B102

AUTHORS: Levinson, I. B., and Plavina, I. Z.

TITLE: The formation of a latent electrophotographic image in zinc oxide layers

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 4, 1962, 822 - 824

TEXT: A discharge mechanism of the surface charges is suggested which is related to the surface potential barriers. The charges on the surface are in potential wells and separated from the volume by a Debye barrier. The height V of this barrier is determined from the surface charge Q, the barrier width from the Debye screening length $d = (\varepsilon kT/e^2 n)^{1/2}$, where n is the volume concentration of free electrons. The surface discharge is described by $dQ/dt = -wQ$, where w is the escape probability of an electron from the potential well. If no barrier exists and the charge is due to volume effects only $w = 1/\tau$, where $\tau = \varepsilon/\sigma$ is the Maxwell relaxation time. $\sigma = e\mu n$ is the volume conductivity, μ the carrier mobility. n as a function of time is determined from relaxation processes. The "resistance" of a

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

MESHKUOTENE, E.A.; PLAVINA, I.Z.

Sensitometric characteristics of the latent electrophotographic image on zinc oxide layers. Zhur.nauch.i prikl.fot.i kin. no.5:380-381 S-O '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut elektrografii, Vil'nyus.
(Lithuania--Xerography) (Photographic sensitometry)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

LEVINA, F.A.; PLAVINA, I.Z.

Spectral characteristics of sensitized electrophotographic layers. Zhur.nauch.i prikl.fot.i kin. 7 no.4:262-267 Jl-Ag '62. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut elektrografii, Vil'nyus.
(Xerography)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINA, I.A., Cand Phys Math Sci -- (dis) "Electrif[illegible] detected after the contact of two bodies." Len, 19[illegible], 1[illegible] pp (Len Order of Lenin State Univ im A.A. Zhdanov)

(KL, 50-58, 120)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVINA, I.Z.

Conformity to the reciprocity law of zinc oxide electrophotographic layers. Zhur.nauch.i prikl.fot.i kin. 8 no.1: 57-58 Ja-Feb '63. (MIRA 16:2)

1. Nauchno-issledovatel'skiy institut elektrografii, Vil'nyus.
(Zerography)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

ZUNDE, B.Ja.; PLAVIN, I.K.; TRINKLER, M.F.; ZVERTE, A.K.

Kinetics of internal luminescent centers of alkali halide crystals activated with thallium. Chekhosl fiz zhurnal 13 no.3:222-225 '63.

1. Institut fiziki Akademii nauk Latviyskoy SSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

TSAREV, V., inzh. (Astrakhan'); NIKOL'SKIY, V.; POPOV, Yu., starshiy master; ARKHIPOV, I., malyar (g. Cheboksary); PINDYURIN, F. (g. Biysk); PLAVIN, B.M., mekhanik; LOGINOV, B.

Advertising board. Izobr.i rats. no.2:32-33 F '62. (MIRA 15:3)

1. Rostovskiy-na-Donu kotel'no mekhanicheskiy zavod (for Popov).
(Technological innovations)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVIN, B.M.

Logarithmic nomogram. Vych. [illegible] no.3:80-84 '64. [illegible]

1. Vil'nyusskiy filial instituta Litpromproyekt.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

GEL'FOND, M., inzh.; PLAVIN, B., inzh.

Vibrating forms for prefabricating stairs. Stroitel' no.5:18 My '60. (MIRA 13:9)
(Stair building) (Vibrators)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

SHILYAYEV, M.; PLAVIN, B., inzh.; CHERTKOV, N.; CHARKIN, P.; BURNAZYAN, G.; MIKHAYLIK, P.; GONCHAROV, A.; CHAPLIN, I., inzhener-tekhnolgo; KROPOTIN, N., starshiy tekhnolog

Around the country. Izobr.i rats. no.6:32-33 Je '59. (MIRA 12:9)

1. Predsedatel' soveta Vsesoyuznoy organizatsii izobretateley i ratsionalizatorov stankostroitel'nogo proizvodstva, g.Izhevsk (for Shilyayev). 2. TSentral'noye byuro tekhnicheskoy informatsii g.Vil'nyus (for Plavin). 3. Sekretar' soveta Vsesoyuznoy organizatsii izobretateley i ratsionalizatorov Adzharskoy ASSR, g.Batumi (for Chertkov). 4. Chlen Yaroslavskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Charkin). 5. Sekretar' Armyanskogo respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Yerevan (for Burnazyan). 6. Chlen prezidiuma L'vovskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Mikhaylik). 7. Predsedatel' zavodskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Leningrad (for Goncharov). 8. Novo-Kramatorskiy mashinostroitel'nyy zavod, g.Kramatorsk (for Cahplin). 9. Izhevskiy mashinostroitel'nyy zavod, g.Izhevsk (for Kropotin).

(Efficiency, Industrial)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVIN, B.; AUSKER, D.

Combined closet and drying room. Stroitel' 9 no.2:27-28 F '63.
(MIRA 16:2)

(Drying apparatus)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVIL'SHCHIKOV, N. N. DECEASED 1963/3

BIBLIOGRAPHY (C1962)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVIL'SHCHIKOV, N.N. [deceased]; ANUFRIYEV, L.A.

A new species of the genus Phymatodes (Coleoptera, Cerambycidae). Zool. zhur. 43 no.10:1565-1569 '64. [illegible]

1. Zoologicheskiy muzey Moskovskogo gosudarstvennogo universiteta i Primorskaya plodovo-yagodnaya stantsiya.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

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T 28404-66

ACC NR: AT6013789

the process of the anodizing of Ti the oxides form on the hydride layer of Ti. The thickness of the hydride layer then is hardly affected. In the course of anodic oxidation, diffusion of Ti ions takes place from the metal across the hydride layer. The relative corrosion resistance of Ti in the solutions of acids in which corrosion occurs with hydrogen depolarization is due to hydride-oxide passivity. Orig. art. has: 11 figures, 1 table

SUB CODE: 07, 11 SUBM DATE: 19Jul65/ ORIG REF: 013 OTH REF: 008

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

L 28404-66

ACC NR: AT6013789

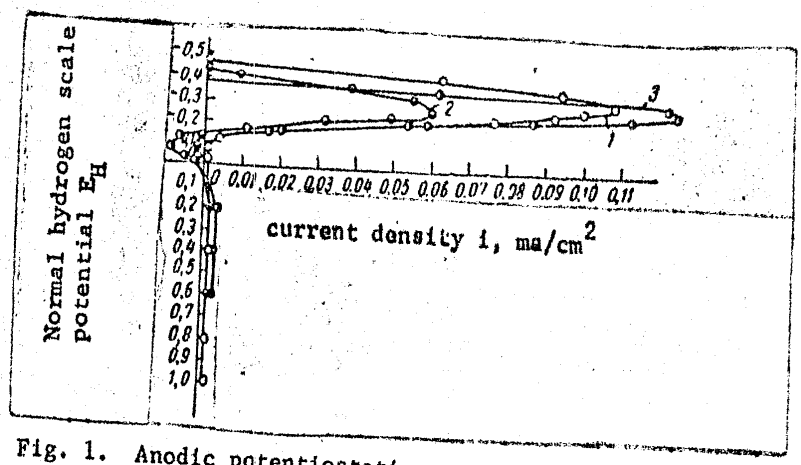

Fig. 1. Anodic potentiostatic curves plotted for Ti in 3% H_2SO_4 solution:

1 - titanium with a hydride layer produced after 1 hr of cathodic polarization at i = 50 ma/cm^2 and $\delta \approx 2$ μ; 3 - titanium after 18 hr of cathodic polarization at i = 5 ma/cm^2, $\delta \sim 10$ μ

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T 28404-66

ACC NR: AT6013789

possibility of the existence of both the hydride and the oxides of Ti at the surface of Ti over a broad range of potentials, the more so as it is known that not only the oxides but also the hydride of Ti usually inhibit the corrosion rate of Ti in acids. It has also been observed that prior cathodic polarization inhibits in certain cases the anodic dissolution of Ti. In this connection the authors investigate the effect of the hydride layer, forming on Ti during its corrosion or cathodic polarization, on the electrochemical dissolution and oxidation of Ti. To this end, the anodic potentiostatic curves were plotted for Ti with various duration of prior cathodic polarization of its surface. On comparing curves 1 and 2 in Fig. 1 it can be seen that the hydride layer produced during 1 hr of cathodic polarization sharply inhibits the process of the anodic dissolution of Ti: the limiting passivation current is reduced nearly in half. If this prior cathodic polarization is prolonged for 18 hr, however, an opposite effect is produced: the maximum anodic current increases (curve 3). This is due to the loosening and augmentation of true surface area of Ti owing to the absorption of hydrogen. In the region of active anodic dissolution the surfaces of Ti (whether pure or with hydride layer) get oxidized. The degree of this oxidation increases as the potential changes from its normal value to a positive (anodic) value. Studies of the corrosion resistance of Ti oxides show that the oxides forming in the presence of a potential of +1.0 v in a 3N H_2SO_4 solution, and particularly in diluted 0.5N or 0.1N H_2SO_4 solutions, are relatively resistant in the region of active anodic dissolution and in conditions of cathodic polarization. In

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L 28404-66 EWT(m)/EWP(t)/ETI IJP(c) JD/WB/GD

ACC NR: AT6013789 (N) SOURCE CODE: UR/0000/65/000/000/0080/0102

AUTHOR: Tomashov, N. D. (Doctor of chemical sciences, Professor); Modestova, V. N.; Plavich, L. A.; Averbukh, A. B.

ORG: none

70
68
B+1

TITLE: Study of the electrochemical behavior of titanium 21

SOURCE: Korroziya metallov i splavov (Corrosion of metals and alloys), no. 2 Moscow, Izd-vo Metallurgiya, 1965, 80-102

TOPIC TAGS: electrochemistry, corrosion, titanium, electric potential, anodization, sulfuric acid, titanium oxide

ABSTRACT: Ti is an electronegative metal. The standard electrode potential of its dissolution in the form of divalent ions Ti^{2+} is -1.63 v, and in the form of trivalent ions Ti^{3+}, -1.21 v. Nevertheless, the intense corrosion of Ti, as well as its anodic dissolution in solutions of non-oxidizing acids, occurs in the presence of potentials that are approx. 1 v more positive than the above values, i.e. at -0.45 and -0.25 v. This indicates that the dissolution of Ti during corrosion and anodic depolarization occurs with an exceptionally high anodic inhibition. In studies of the electrochemical behavior of Ti allowance must be made for the thermodynamic

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L 30367-66

ACC NR: AT6012381

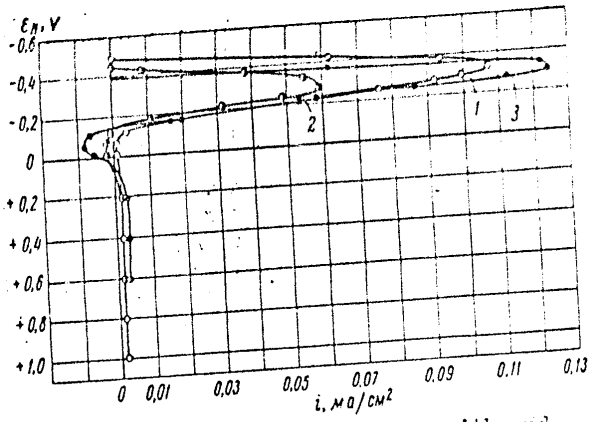

Fig. 1. Anodic potentiostatic curves plotted in 3-N solution of H_2SO_4: 1 - titanium; 2 - titanium with cathode polarization for 1 hr with a current of 5 mA/cm^2; 3 - same, after 18 hrs of cathode polarization.

In the range of active anodic dissolution, the surface of the titanium with and without a hydride layer was oxidized. In anodization of titanium with a hydride layer, an oxide is formed on the hydride layer. In anode oxidation, the titanium ions are chiefly diffused from the metal through the hydride layer. The relative stability of titanium in solutions of acids where corrosion occurs with hydrogen depolarization is due to hydride-oxide passivity. Orig. art. has: 1 table and 5 figures.

SUB CODE: 11/ SUBM DATE: 02Dec65/ ORIG REF: 010/ OTH REF: 006

Card 2/2 CC

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

L 30367-66 EWT(m)/EWP(t)/ETI IJP(c) JD/WB

ACC NR: AT6012381 SOURCE CODE: UR/0000/65/000/000/0130/0137

AUTHORS: Tomashov, N. D.; Modestova, V. N.; Plavich, L. A.; Averbukh, A. M.

ORG: none

TITLE: The effect of hydrogen absorption on the electrochemical behavior of titanium

SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); trudy soveshchaniya. Moscow. Izd-vo Nauka, 1965, 130-137

TOPIC TAGS: titanium, cathode polarization, anodic oxidation, sulfuric acid, corrosion resistance, electrode potential, hydrochloric acid / VT1 titanium

ABSTRACT: The effect of preliminary cathode polarization on the subsequent anodic dissolution and anodic oxidation of titanium is studied. The specimens were prepared from VT1 titanium with the impurities (wt %): 0.03 Fe, 0.03 Si, 0.05 C, 0.06 Cl, 0.03 N, and 0.1 O. The specimens were annealed for 2 hrs at 800C. Potentiostatic curves were plotted for titanium and titanium with a hydride layer in a 3-N solution of H_2SO_4 (see Fig. 1). Anodic dissolution of titanium with a hydride layer was found to occur with greater retardation than that of titanium without a layer.

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PLAVEL'SKIY, I.V.

PLAVEL'SKIY, I.V., gornyy inzh.

Selecting minefield development methods for mining single, thin, and average thickness seams in Karaganda Basin. Ugol' 33 no.1:13-18 Ja '58. (MIRA 11:2)

1. Karagandagiproshakht.
(Karaganda Basin--Coal mines and mining)

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVEL'SKIY, I.V., gornyy inzhener.

Determining the length of the stope area and that of the panel strike in mining sloping Karaganda Basin seams. Ugol' 31 no.1: 12-14 Ja '56. (MLRA 9:4)

1.Karagandagiproshakht.
(Karaganda Basin--Mine examination)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVEL'SKIY, I.V.

Using haulage drifts in series in mining flat coal seams. Trudy Inst. gor. dela AN Kazakh. SSR no.3:24-33 '58. (MIRA 11:6)
(Coal mines and mining)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

MYURBERG, V.K., inzh.; PLAVEL'SKIY, I.V., inzh.

Sectional reinforced-concrete supports made of thin-walled, three-dimensional elements for lining major mine workings. Krepl. gor. vyr. ugol'. shakht no. 1:133-140 '57. (MIRA 11:7)

1. Karagandagiproshakht.
(Mine timbering)
(Reinforced concrete construction)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

JEREMIC, D.; dr; PLAVEC, V.:dr; BERIC, M.: dr.

Echinococcosis and tuberculosis of the left kidney. Med.pregl., Novi Sad 7 no.6:476-479 1954.

1. Urolosko odeljenje Glavne pokrajinske bolnice, Novi Sad. Sef: dr. D.Jeremic. Prosektura Glavne pokrajinske bolnice, Novi Sad, Sef: dr V. Plavec.

(ECHINOCOCCOSIS,
kidney, with tuberc.)
(KIDNEYS, diseases,
echinococcosis, with tuberc.)
(TUBERCULOSIS, RENAL, complications,
echinococcosis)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

PLAVEC, VLADIMIR

PUTNIK, Milan; PLAVEC, Vladimir; SOLDATOVIC, Svetislav

Case of hypernephroma malignum. Srp arhiv lekar 82 no.2:254-259 F '54. (KEAL 3:7)

1. II Hirursko odeljenje Glavne pokrajinske bolnice u Novom Sadu, v.d. sefa: dr. Milan Putnik; Prosektura Glavne pokrajinske bolnice u Novom Sadu, sef: dr. Vladimir Plavec. (Rad je Urednistvo primilo 10-VII-1953 god.)

(ADRENAL GLANDS, neoplasms
*hypernephroma)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200021-6

JAKOVLJEVIC, Vladimir, prim. dr.; KRAGUJEVIC, Milodar, dr.; PLAVEC, Vladimir, dr.

The problem of etiology of cholecystitis; experimental surgery. Med. pregl., Novi Sad 7 no.5:357-360 1954.

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YUGOSLAVIA

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