PASTEKA, LUDOVIT,
VACLAV STICHLIK, Chem. Zvesti 5, 145-57 (1951)

ALFOLDI, J.; PASTEKA, M.

Styrene grafing of acetyl cellulose. Chem prum 13 no.10:554-556 O '63.

1. Ustav dreva, celulozy a chemickych vlakien, Slovenska akademia vied, Bratislava.

L 33692-66 EWP(j) RM

ACC NR: AP6024209 SOURCE CODE: CZ/0043/65/000/011/0850/0853

45

AUTHOR: Alfoldi, Juraj--Alfeldi, Yu. (Engineer; Bratislava); Pasteka, Mikulas--Pashteka, M. (Engineer; Bratislava); Suchar, Gejza--Sukhar, G. (Engineer; Bratislava)

B

ORG: Cellulose Department, Chemical Institute, Slovak Academy of Sciences, Bratislava (Oddeleni cellulosy Chemickeho ustavu Slovenskej akademie vied)

TITLE: Spectrophotometric study of hydroxyethylcellulose oxidized with sodium periodate

SOURCE: Chemicke zvesti, no. 11, 1965, 850-853

TOPIC TAGS: spectrophotometric analysis, IR spectrum, cellulose, oxidation, absorption band

ABSTRACT: Dry air infrared spectra of hydroxyethylcellulose and cellulose after oxidation by sodium periodate were studied. Oxidation products of hydroxymethylcellulose show bands typical of C=O groups; these are not found in oxidation products of cellulose. With an increasing water content in oxidized hydroxyethylcellulose the intensity of the C=O absorption band decreases. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 06, 07 / SUBM DATE: 11Feb65 / SOV REF: 003 / OTH REF: 009

Card 1/1 PD

0975 1860

IZAKOVIC, V.; DANISKA, J.; PASTEKOVA, K.

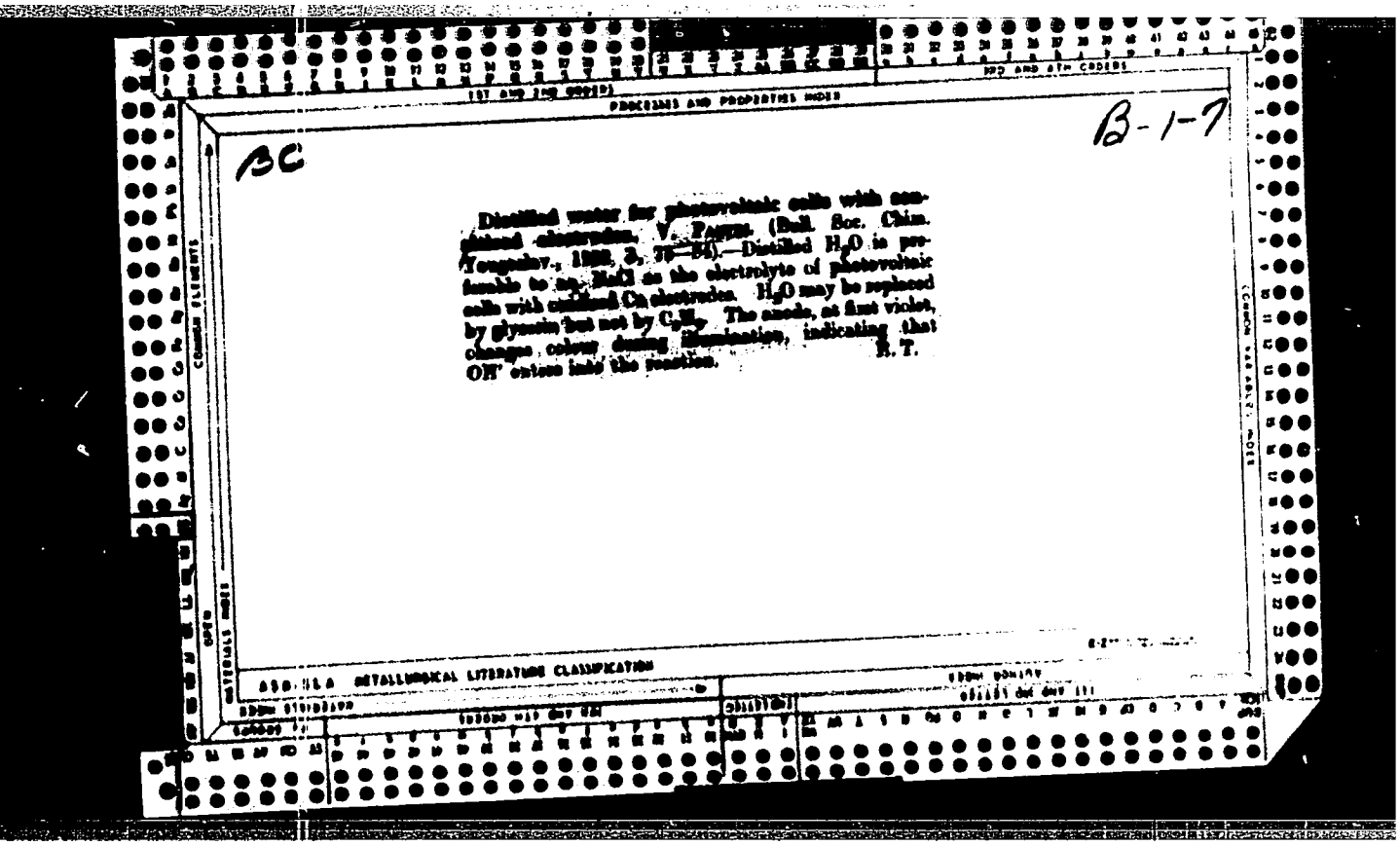
Apropos of the use of corticoids in the differential diagnosis of cholestatic jaundice. Bratisl. lek. listy 2 no.1:42-46 '64

1. Katedra vnutorneho lekarstva Slovenskeho ustavu pre doskolovanie lekarov v Trencine (veduci: doc. MUDr. D.Dieska); Infekcne oddelenie OUNZ v Trencine (veduca :MUDr. K.Getlikova) a Pediatricka katedra Slovenskeho ustavu pre doskolovanie lekarov (veduci: MUDr. A.Getlik).

GETLIKOVA, K., MUDr.; PASTEKOVA, K., MUDr.

Incidence of some infectious deseases in the course of [illegible] years. Cesk. zdrav. 13 no.10:508-512 O '65.

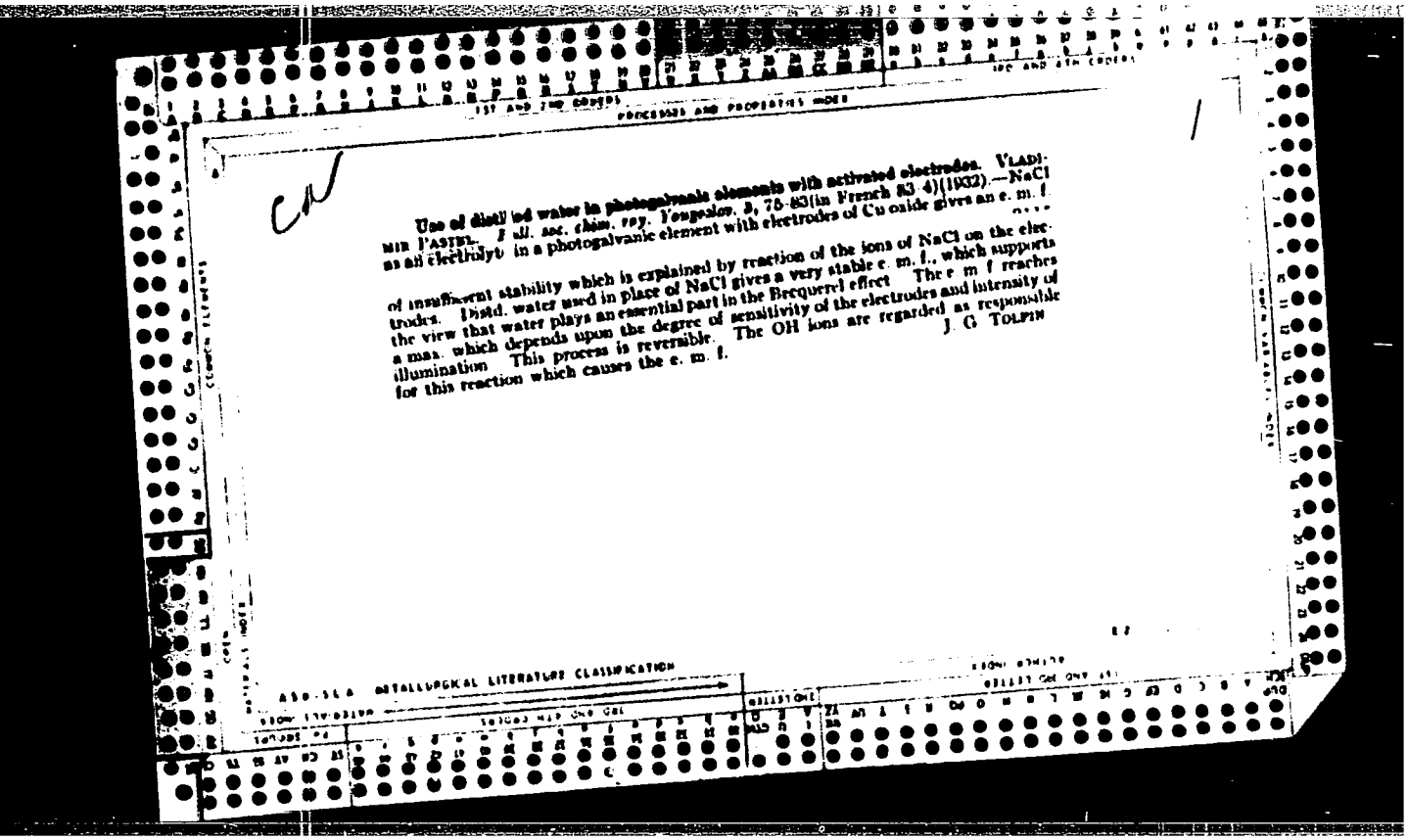
1. Infekcne oddelenie nemocnice Obvodniho ustavu narodniho zdravi v Trencine.



B-1-7

BC

Distilled water for photovoltaic cells with combined electrodes. V. Pappas. (Bull. Soc. Chim. Yougoslav., 1958, 5, 75—84).—Distilled H_2O is preferable to any NaCl as the electrolyte of photovoltaic cells with combined Cu electrodes. H_2O may be replaced by glycerin but not by C_6H_6. The anode, at first violet, changes colour during illumination, indicating that OH' enters into the reaction. R. T.



Use of distilled water in photogalvanic elements with activated electrodes. VLADIMIR PASTEL. *J. chim. soc. chim. roy. Yougoslav.* 3, 78-83(in French 83-4)(1932).—NaCl as an electrolyte in a photogalvanic element with electrodes of Cu oxide gives an e. m. f. of insufficient stability which is explained by reaction of the ions of NaCl on the electrodes. Distd. water used in place of NaCl gives a very stable e. m. f., which supports the view that water plays an essential part in the Becquerel effect. The e. m. f. reaches a max. which depends upon the degree of sensitivity of the electrodes and intensity of illumination. This process is reversible. The OH ions are regarded as responsible for this reaction which causes the e. m. f.

J. G. TOLPIN

DEICH, S.; PASTEL'S, P.; KRYLOV, A.; SILIN, Yu.; RAVICH, M.

Comparative data on the absolute age of rocks in the Queen Maud Land (Antarctic). Dokl. AN SSSR 156 no. 3:554-557 '64. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut geologii Arktiki i Bryussel'skiy universitet, Bryussel', Bel'giya. Predstavleno akademikom D.I.Shcherbakovym.

PASTER,A., inzhener; ARSON,R., inzhener

Imitating gold. Prom.koop. no.7:35-39 Jl'55. (MLRA 8:11)
(Jewlery)

PASTER, I.D.; STRASHUNSKIY, A.M.; RODZEVICH, S.S., red.; ROZHIN, S.S., tekhn. red.

[Standardized control of mechanical drawings] Normalizatsionnyi kontrol' chertezhei. Moskva, Gos. izd-vo obor. promyshl., 1958. 71 p. (MIRA 11:9)

(Mechanical drawing--Standards)

PASTER, Iosif Davidovich; STRASHUNSKIY, Aleksandr Maksimovich; BEKHTEREV, V.V., inzh., retsenzent; MYSHENSKIY, N.I., inzh., red.; KUREPINA, G.N., red. izd-va; SHCHETININA, L.V., tekhn. red.

[Industrial standardization] Proizvodstvennaia normalizatsiia. Moskva, Mashgiz, 1963. 241 p. (MIRA 16:7)
(Standardization) (Simplification in industry)

PASTER, I.D.; [illegible], A.I.; [illegible], V.V., retsenzent.

[Standardization and control of drawings] Normalizatsiia i kontrol' chertezhei. [illegible], red. [illegible]. Moskva, Mashinostroenie, 1964. 104 p. (MIR, 18:1)

PETROVSKIY, M.I.[Petrovs'kyi, M.I.], dots., otv. red.; GRINOVETS, I.F.[Hrynovets', I.F.], dots., red.; LUSHCHIK, I.O. [Lushchyk, I.O.], dots., red.; MIKHAYLOV, V.I.[Mykhailov, V.I.],dots., red.; PASTER, P.I., red.; TIVONCHUK, I.O. [Tyvonchuk, I.O.], kand. ekon. nauk, red.; YAREMCHISHIN, B.M. [IAremchyshyn, B.M.], st. nauchn. sotr., red.; YAKIMTSOV, P.P., dots., red.; GRINSHPON, F.O.[Hrinshpon, F.O.], red.; KVITKO, I.S., red.

[Flourishing of the economy of the western provinces of the Ukrainian S.S.R., 1939-1964] Rozkvit ekonomiky zakhidnykh oblastei URSR (1939-1964 rr., L'viv, 1964. 126 p. (MIRA 17:11)

1. L'vov. Universytet.

PASTERNAK, Alfred, mgr inz.

The most important problems in hydraulic endineering and irrigation in the Krakow Voivodeship. Gosp wodna 20 no.5:194-196 My '60. (EEAI 9:9)

(Poland--Hydraulic engineering)

PASTERNAK Antoni

Distr: 4E2c

Determination of the electric resistance ratios in the cadmium-zinc system. Antoni Pasternak (Univ. Kraków, Poland). *Zeszyty Nauk. Uniw. Jagiell. Ser. Nauk Mat.-Przyrod., Mat., Fis., Chem.* No. 3, 97–108(1957)(English summary); cf. *C.A.* 48, 1097*i*.—A small soly. can be detd. by detg. the ratio, *r*, of elec. resistances at b.p. of H or N and at 0°. Samples of Cd-Zn alloys were kept at 255° for 2000 hrs., and *r* was detd. and plotted *vs.* at. % compn. Surprisingly poor reproducibility and large exptl. errors are attributed to some unknown internal structural factors. Solubilities of Cd in Zn and of Zn in Cd are estd. at 1.2 and 6 at. %, resp.

J. Stecki

PASTERNAK ANTONI

POLAND/Physical Chemistry. Solutions. Theory of Acids and Bases. B

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73373.

Author : Pasternak, Antoni.
Inst :
Title : Chemical Properties of Plutonium in Aqueous Solutions.

Orig Pub: Nukleonika, 1958, 3, No 1, 53-68.

Abstract: Review. Bibliography with 7 titles.

Card : 1/1

Symposium of the Radiochemical Department of the Institute of Nuclear Research

Pu^{III}. The value of the extraction coefficient is beyond 10,000 and for Th extrapolated near to 100,000. 2) Taube: Wplyw polarnosci rozcienczalnika na ekstrakcje plutonu do srodowiska organicznego (Influence of Diluent Polarity on the Extraction of Plutonium in Organic Media). The transition of Pu^{IV} from water-phase into organic phase was investigated. By experiments with TBP, DBP, TTA, TBAN the suggestion was confirmed that the extraction depends from the influence of the dipole moment of the solvent. The best solvent was found to be a mixture of $CHCl_3$ and benzene. 3) S. Siekierski, B. Kotlinska and I. Fidelis: Oddzielanie cyrkonu od niobu oraz od niektorych ziem rzadkich metoda chromatografii podzialowej (Separation Zirconium and Niobium and Rare Earth by Partition Chromatography). By means of a silicon-ized SiO_2 column, separation of the following isotopes with TBP-H_2O was successful: Zr-95, Nb-95 as well as

Symposium of the Radiochemical Department of the Institute of Nuclear Research

Nd-Pm, Pm-Eu and Eu-Y. Less successful was the separation of Ce^{III}-Pm.

SUBMITTED: December 1958

Card 3/3

23648
P/046/61/006/002/001/002
D217/D303

21.3200

AUTHOR: Pasternak, Antoni

TITLE: Co-precipitation of plutonium with alizarin

PERIODICAL: Nukleonika, v. 6, no. 2, 1961, 113 - 125

TITLE: This is an investigation aimed at clarifying the mechanism advanced by V.I. Kuznetsov (Ref. 1: Zh. A. Kh., 9, 199 (1954), Sesiya AN SSSR Zased. Khim. Nauk, Iyul, 1955, str. 300) and V.I. Kuznetsov, and G.V. Myasoyedova (Ref. 2: Zh.A.Kh., 1, 579, (1956)) of co-precipitation of Pu III, IV and VI with alizarin with and without complexing agents which postulates the formation of a neutral complex between the cation and an organic ligand. Structural similarity between the orga~nic additive and the ligand is desirable though not essential. In the present work experiments were carried out chiefly with PuIV using alizarin both as the organic carrier and the ligand and keeping the pH between 0 and 7 as no precipitation was observed when the pH exceeded 8. The results are shown in Table 1. Radiometric

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methods of analysis were used in all cases. The effect of pH on the co-precipitation of Pu^{IV} with alizarin is shown in Fig. 1. The amount of Pu in the filtrate (Fig. 1, Curve 1) decreases to 4.2% which is not precipitated or adsorbed on the filter. The nature of this complex is unknown. Precipitation increases with basicity (curve 2) due to greater dissociation of alizarin at higher pH. Curve 3 is explained by adsorption of Pu on the carboxylic groups of the fiber although the cause of desorption at higher pH is not clearly understood. Co-precipitation of Pu^{III} and ^{VI} was investigated in the same manner. The effect of time on the co-precipitation of Pu III at pH 5 was also studied, finding that alizarin takes up increasing amounts of Pu during 24 hours although equilibrium is nearly reached in the first 2 hours. Behavior of Pu III, IV and VI is also illustrated, from which it may be seen that all 3 forms behave similarly. The influence of the initial concentration of Pu on the co-precipitation, studied to determine whether the latter is caused by adsorption is shown in Fig. 5. The influence of alizarin S,

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Co-precipitation of plutonium...

EDTA and TTA (as complexing agents) on the co-precipitation of PuIV with alizarin was investigated by adding at least stoichiometric amounts of the above reagents to solutions of Pu. This was followed by the usual addition of alc. alizarin and buffer. Alizarin S (10^{-4} - 10^{-5}M) appears to have the greatest effect. A pronounced influence of these additions (especially when $> 4 \times 10^{-7}$M) on the amount of Pu adsorbed on the filter was observed. The effect of increased amounts of alizarin on the co-precipitation was studied (a): in 20 per cent EtOH as before and (b) in 20 per cent aqueous dioxane. As regards PuIV, it is assumed that no disproportionation occurred in the solutions. After buffering, the Pu is thought to be distributed between complex formation and hydrolysis. The complex is taken out of the system by the ppt. Until equilibrium occurs, 2 forms of Pu occur in solution, only one of which is adsorbed on the filter, one of which desorbs only with difficulty. Up to pH3, Pu is preferentially adsorbed on the filter rather than on alizarin. This is reversed at higher pH. Curves in Fig. 1 are explained by the

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P/046/61/006/002/001/002
D217/D303

Co-precipitation of plutonium...

weak dissociation of alizarin. Composition of the violet complex precipitated at pH 4 and Pu concentration of 10^{-6} - 10^{-5}M is thought to be Pu: 4 Alizarin and its solubility product is evaluated at 4.1×10^{-34} or 4.1×10^{-35}. Addition of hydrophilic complexing agents (alizarins) inhibits co-precipitation as long as the concentration of alizarin ions predominates. This is true up to pH 5.5; at higher pH (up to 7) alizarin S decreases the co-precipitation. TTA - Pu and EDTA -Pu complexes form at low pH and promote the co-precipitation with alizarin in the pH range 0-3. This effect is reversed at pH > 3. These changes support Kuznetsov's mechanism although Fig. 5 indicated that adsorption is important. Selectivity of the adsorption was demonstrated by replacing alizarin with anthraquinone, when the co-precipitated Pu decreased by a factor of 10. An alternative explanation of the observed facts would be a change in the ligand of the Pu complexes, causing a change in the adsorption characteristics on alizarin. The author expresses his thanks to Master of Engineering Stanisław Lis for assistance with the experimental

Card 4/7

Co-precipitation of plutonium...

work. There are 8 figures, 3 tables, and 11 references: 5 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: C.W.C. Milner and J.L. Woodhead, Analyst 81, 427, (1956); J.G. Cunninghame and G.L. Miles, J. Inorg. Nucl. Chem..3. 54 (1956); K.A. Kraus, Geneva Conf. 1955 P/731, and G.B. Harvey, G.H. Head, A.G. Maddock and E.L. Rowley, J. Chem. Soc.. 1010 (1947).

ASSOCIATION: Polish Academy of Science, Institute of Nuclear Research, Warsaw, Department of Radiochemistry

SUBMITTED: November, 1960

Card 5/ 7

POL/046/61/006/003/004/005
D209/D303

21,3200

AUTHORS: Pasternak, Antoni, and Lis, Stanisław

TITLE: Adsorption and desorption of thorium, plutonium (III), and plutonium (IV) ions from a filter

PERIODICAL: Nukleonika, v. 6, no. 3 , 1961, 215-219

TEXT: This paper reports on an investigation into the pH dependence of adsorption on and desorption from a filter of Th^{4+}, Pu(III), and Pu(IV) in an attempt to explain results observed in previous experiments by A. Pasternak (Ref. 1: Nukleonika 6, 113, 1961) on the coprecipitation of Pu(IV) with alizarin. The conditions of the experiment were analogous to those of the previous work. The concentrations of solutions used were $5 \cdot 10^{-6}$, $1 \cdot 1 \cdot 10^{-6}$ M, and $1 \cdot 74 \cdot 10^{-6}$ M of Th, Pu(III) and Pu(IV) respectively. [Abstractor's note: The authors do not qualify the value $5 \cdot 10^{-6}$ of the thorium concentration] and they were prepared in nitric acid.

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Adsorption and desorption of ...

Th^{234} was used as a tracer in the thorium solution. Solutions of 0.1 M Ce^{3+} with a pH 1.5, 1 M nitric acid, and 0.1 M perchloric acid were used for desorption measurements. The required volume of the buffer solution followed by 0.5 gm. of filtration mass (made from Whatman-Ashless Floc chemically purified paper) was added to the appropriate solution, and the liquid was filtered off after 2 minutes. Desorption was performed by washing for not more than 5 minutes and the cations in the filtrate and eluate were estimated radiometrically. The results obtained are shown in Figs. 2, 3, and 4, which each represent the averages of 3 - 5 sets of measurements. The increasing adsorption of cations due to the rise in activation of carboxylic groups is clearly shown, and the thorium shows a saturation effect. The desorption results shows that the simple ions which are readily desorbed can exist up to pH values of about 2 and 3 for thorium and plutonium (III) respectively. Plutonium (IV), however, is already adsorbed as a complex ion at pH 1 as evi-

Adsorption and desorption of ...

denced by the absence of complete desorption. This is explained by the existence of polycharged complexes which are shown to be present by the decreased elution obtained with the Ce^{3+} solution. The fact that at high pH the total amount of plutonium apparently present in filtrate, alizarin and eluate is less than the amount originally present is explained principally by the formation of neutral complexes which are not adsorbed on the filter. The shape of the desorption curves indicates that the hydrolysis of plutonium (IV) in dilute solutions is complicated. There are 4 figures, and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Polish Academy of Sciences, Institute of Nuclear Research, Warsaw, Department of Radiochemistry.

SUBMITTED: November 1960

Card 3/4

Adsorption and desorption of ...

POL/046/61/006/003/004/005
D209/D303

Fig. 2

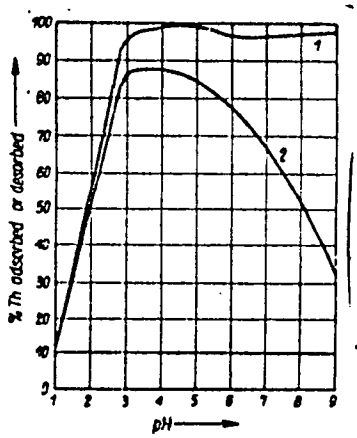


Fig. 2. Adsorption (1) and desorption (2) of thorium

Fig. 3

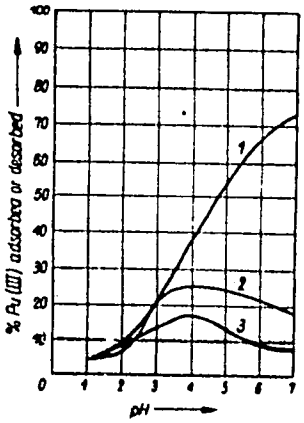


Fig. 3. Adsorption and desorption of plutonium(III)

1 — adsorption; 2 — desorption with 0.1 M $HClO_4$; 3 — desorption with 0.1 M Ce^{3+} of pH = 1.5

Fig. 4

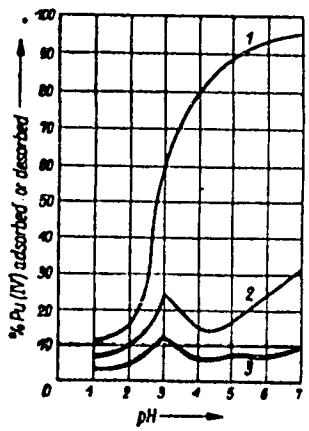


Fig. 4. Adsorption and desorption of plutonium(IV)

1 — adsorption; 2 — desorption with 0.1 M $HClO_4$; 3 — desorption with 0.1 M Ce^{3+} of pH = 1.5

Card 4/4

PASTERNAK, Antoni; ZELENAY, Krystyna

Separation of trace quantities of radioisotopes. Nukleonika 7 no.1:52-53 '62.

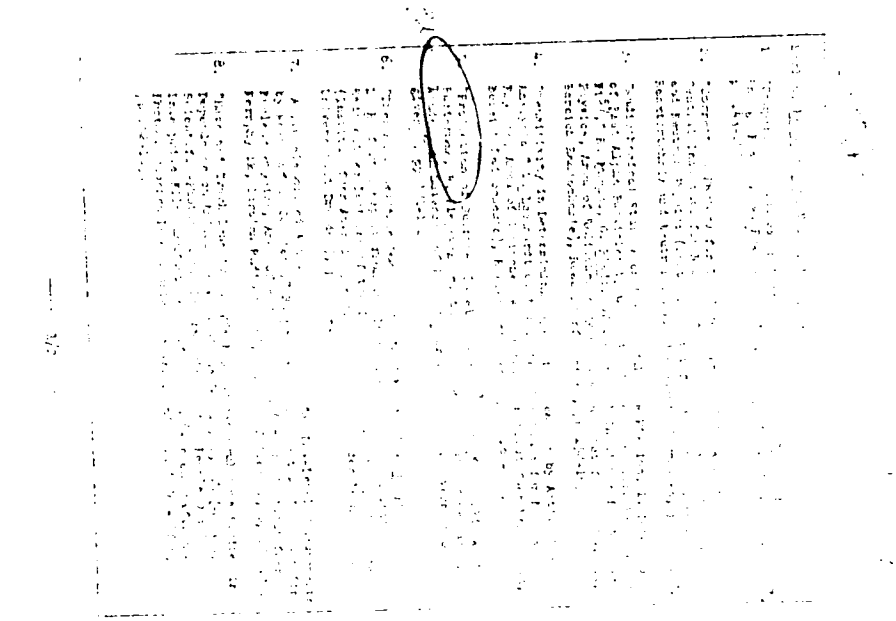
1. Instytut Badan Jadrowych PAN, Warszawa, Zaklad Technologii Izotopow Promieniotworczych i Zwiazkow Znaczonych

PASTERNAK, Antoni

Coprecipitation of plutonium with alizarin. Nukleonika 6 no. 2:113-126 '61.

1. Polish Academy of Sciences, Institute of Nuclear Research, Warszawa, Department of Radiochemistry.

PASTERNAK, A. A.



KRAVCHENKO, A.A. (Moskva); PASTERNAK, A.Ye. (Moskva); MARYSHKINA, T.F. (Moskva); VOL'FSON, M.T. (Moskva)

Occupational pathology of the otolaryngological organs in workers of cotton mills. Gig. truda i prof. zab. 4 no.6:41-43 Je '60. (MIRA 15:4)

1. Moskovskiy oblastnoy klinicheskiy institut imeni M.F.Vladimirskogo, Institut sanitarii i gigiyeny imeni F.F.Erismana i Kol'nitsa fabriki "Krasnyy tekstil'shchik".
(COTTON MANUFACTURE--HYGIENIC ASPECTS) (OTOLARYNGOLOGY)

KRAVCHENKO, A.A.; PASTERNAK, A.Ye.; LARCHENKO, R.M.; SOKOLOVA, L.I.

Diseases of the upper respiratory tract and ears in workers at the Serpukhov textile mills. Gig. i san. 24 no.6:48-51 Je '59. (MIRA 12:8)

1. Iz Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni Vladimirskogo, Moskovskogo nauchno-issledovatel'skogo instituta sanitarii i gigiyeny imeni F.F.Erismana i ob"yedinennoy bol'nitsy imeni Semashko Serpukhova.

(OCCUPATIONAL DISEASES
ear & upper resp. tract dis. in textile workers (Rus))
(EAR, dis.
occup., in textile workers (Rus))
(RESPIRATORY TRACT, dis.
same)

Pasternak, A. Ye.

PONOMAREVA, Ye.P., nauchnyy sotrudnik; FISHMAN, G.A., nauchnyy sotrudnik; PASTERNAK, A.Ye., nauchnyy sotrudnik

Bacterial air pollution in workshops of the "Krasnyi Tekstil'shik" spinning and weaving mill. Gig. i san., 22 no.8:77-79 Ag '57. (MLRA 10:9)

1. Iz Moskovskogo oblastnogo nauchno-issledovatel'skogo sanitarno-gigiyenicheskogo instituta

(AIR POLLUTION, determ.
bact., determ. in cotton textile factories)
(BACTERIA
in air, determ. in cotton textile factories)

LETAVET, A.; KHOTSYANOV, L.; ARKHIPOV, A.; SMELYANSKIY, Z.; KIMBAROVSKIY, Ya.; PASTERNAK, A.; PONGAUZ, M.; ARNOL'DI, I.; BYKHOVSKIY, B.; GORKIN, Z.; ZHISLIN, L.; ZAIDSHNUR, I.; KOYRANSKIY, B.; MILLER, S.; NAVTROTSKIY, V.

Professor S.M.Aranovskii; obituary. Gig. i san. 21 no.10:62 O '56. (MLRA 9:11)

(ARANOVSKII, SOLOMON MOISEEVICH, 1885-1956)

PASTERNAK, B.

Modernization of machine tools. Prof.-tekhn. obr. 13 no.3:19-20 Mr '56. (MIRA 9:7)

1.Mekhanik Gor'kovskogo oblastnogo upravleniya trudovykh rezervov.
(Lathes)

PASTERNAK, B.

Coordinating norms research work in an economic region.
Sots. trud 7 no.5:92-94 My '62. (MIRA 15:5)
(Gorkiy Province--Production standards--Research)

PASTERNAK, B.I.

In the Gorkiy Economic Region. Mashinostroitel' no.8:18-19 Ag '61. (MIRA 14:7)

(Gorkiy Province—Machinery industry—Production standards)

SUKHOTSKIY, V., dotsent; KRUGLENKO, N., dotsent; PASTERNAK, D., dotsent; DUBINSKIY, P., starshiy prepodavatel'; GNATKOV, M.

"Work organization of the merchant marine" by G.E.Gurevich. Reviewed by V.Sukhotskii and others. Mor. flot no.5:46 My '62. (MIRA 15:5)

1. Odesskiy institut inzhenerov morskogo flota (for Sukhotskiy, Kruglenko, Pasternak). 2. Uchenyy sekretar' Tekhnicheskogo soveta Ministerstva morskogo flota (for Gnatkov).
(Merchant marine)

DUBINSKIY, P.R., starshiy prepodavatel'; PASTERNAK, D.Ya., kand. tekhn. nauk

Selecting vessels for the transportation of packaged cargo. Ekon. i ekspl. mor. transp. no.1:21-28 '63. (MIRA 17:8)

1. Odesskiy institut inzhenerov morskogo flota.

PASTERNAK, F. A.

PASTERNAK, F. A. - "Monographs on Roe Deer." Sub 21 Apr 52, Moscow City Pedagogical Inst imeni V. P. Potemkin. (Dissertation for the Degree of Candidate in Biological Sciences)

SO: Vechernaya Moskva January-December 1952

SHCHAPOVA, T.F.; MOKIYEVSKIY, O.B.; PASTERNAK, F.A.

Flora and fauna of the littoral zones of Putyatin Island (Sea of Japan). Pt. 1: Qualitative composition. Trudy Inst. okean. 23: 67-101 '57. (MIRA 11:3)

(Putyatin Island--Marine biology)

PASTERNAK, F.A.

SHCHAPOVA, T.F.; MOKIYEVSKIY, O.B.; PASTERNAK, F.A.

Littoral flora and fauna of western Sakhalin; preliminary communication. Trudy Inst. okean. 23:102-111 '57. (MIRA 11:3)
(Sakhalin--Marine biology)

PASTERNAK, F.A.

Quantitative distribution and faunistic groups of benthos in Sakhalin Gulf and adjacent regions of the Sea of Okhotsk. Trudy Inst. okean. 23:237-268 '57. (MIRA 11:3)
(Sakhalin Gulf--Marine fauna)

PASTERNAK, F.A.

Deep-sea Antipatharia of the Kurile-Kamchatka Trench. Trudy Inst. okean. 27:180-191 '58. (MIRA 11:4)
(Okhotsk, Sea of--Antipathidea)

PASTERNAK, F.A., kand. biolog. nauk.

Finding the antipatharian Bathypathes patula Brook in the high latitudes of Antarctica. Inform. biul. Sov. antark. eksp. no.9: 40-42 '59 (MIRA 13:3)

1. Institut okeanologii Akademii nauk SSSR.
(Princess Ragnhild Coast--Anthozoa)

PARIN, N.V.; PASTERNAK, F.A.

Zoological investigation during the 33d expedition of the ship Vitiaz'. Zool.zhur. 41 no.1:155-160 Ja '62. (MIRA 15:4)
(Zoologic research)

GUSEV, A.V.; PASTERNAK, F.A.

Some remarks concerning the botton fauna of Antarctic waters.
Dokl.AN SSSR 123 no.5:841-844 D '58. (MIRA 12:1)

1. Zoologicheskiy institut AN SSSR, Institut okeanologii AN SSSR.
Predstavleno akademikom Ye.N. Pavlovskim.
(Antarctic regions--Marine fauna)

3(9) SOV/20-123-5-20/50

AUTHORS: Gusev, A. V., Pasternak, F. A.

TITLE: Some Observations on the Benthic Fauna of Antarctic Waters (Nekotoryye zamechaniya o donnoy faune antarkticheskikh vod)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 841-844 (USSR)

ABSTRACT: The authors first mention earlier expeditions concerning this subject. The authors took part in the first (1955-1956) and in the second (1956-1957) voyage of the Sovetskaya morskaya antarkticheskaya ekspeditsiya (Soviet Maritime Antarctic Expedition) on board the Diesel electric vessel "Ob'". During these 2 voyages of "Ob'", collections of bottom fauna were carried out at 128 stations in depths of from 28 to 5370 m. The water layer down to 100 m was left nearly uninvestigated. The authors took 107 quantitative and 37 qualitative samples by dredging the ground and 25 trawl samples. The results of these 2 voyages already make it possible to draw conclusions concerning the bionomic character of the bottom fauna of the Indian Sector of the Antarctic and the nature of its depth distribution could be detected. The characteristic features of the Antarctic shelf (which are discussed in short) determine

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Some Observations on the Benthic Fauna of Antarctic Waters

the properties of its fauna. The names of the species found are listed. There are the following differences between the fauna of the Antarctic shelf and that of the shelf in the northern hemisphere: 1) There is a great number of various groups in the Antarctic shelf, but none of them predominates. 2) The appearance (shape) of various kinds is rather similar. The overwhelming majority of the organisms found in depths of 100-500 m belong to the category of sedentary sestonophagues. In spite of the enormous weight of the total biologic mass of the bentose, their nutritive quality is relatively low because of the high weight of the skeletons of the dominating non-nutrient bentose. The fauna of the Antarctic Ocean is very sparse. There are 1 figure and 5 Soviet references.

ASSOCIATION: Zoologicheskiy institut Akademii nauk SSSR
(Zoological Institute of the Academy of Sciences, USSR)
Institut okeanologii Akademii nauk SSSR
(Institute of Oceanology of the Academy of Sciences, USSR)

PASTERNAK, F.A.

PHASE I BOOK EXPLOITATION SOV/5462

Sovetskaya antarkticheskaya ekspeditsiya, 1955.

Vtoraya morskaya ekspeditsiya na d/e "Ob'" 1956-1957 gg.; nauchnyye rezul'taty (Second Marine Expedition on the Diesel-Electric Ship "Ob'", 1956-57, Scientific Results) Leningrad, Morskoy transport, 1960. 163 p. (Series: Its: (Materialy) no. 7) 1,200 copies printed.

Sponsoring Agency: Mezhdunarodnyy geofizicheskiy god and Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

Ed. (Title page): I.V. Maksimov, Doctor of Geographical Sciences, Professor; Ed.: Ye. I. Oksenova; Tech. Ed.: O. I. Kotlyakova.

PURPOSE: This book is intended for marine geologists and hydrologists.

COVERAGE: This is a collection of 9 articles on the hydrogeological and geological findings of the Second Soviet Marine Expedition, sponsored by the Arctic and Antarctic Scientific Research Institute of the Ministry of the Merchant Marine of the USSR as part of the International Geophysical Year program. The expedition, conducted on the diesel ship "Ob'" during 1956-57, covered the entire Indian Ocean and the coast of Antarctica between 0 and 120° east longitude. The present volume, the seventh and last in a series on the Second Expedition, describes the work of the Expedition in investigating the following: The geomorphology of the sea bottom, by means of sounding devices; the geological structure and profile of the East Antarctic waters and the southern part of the Indian Ocean, through the collection of benthic deposits; the seismic-acoustical determination of the thickness of friable bottom deposits; analysis of surface and depth suspensions; the relief of the bottom of the Davis Sea and the area north of it; the Gauss-Kerguelen underwater range; the continental slope and shelf of Antarctica between 20 and 100° east longitude and 40 and 70° south latitude; the geomorphology of Queen Maud Land and Queen Mary Coast; glacier exaration; seasonal quantitative and qualitative longitudinal and latitudinal distribution of plankton in the Antarctic sector of the Indian Ocean; arctic fauna, including whales, seals, birds, fish, marine parasites, and microorganisms. The articles are written by members of the Institut okeanologii AN SSSR (Institute of Oceanology AS USSR), Institut geografii AN SSSR (Institute of Geography AS USSR), Zoologicheskiy institut AN SSSR (Zoological Institute AS USSR), and Institut rybnogo khozyaystva i okeanografii (Institute of Fish Industries and Oceanography). No personalities are mentioned. Each article is accompanied by references.

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Second Marine Expedition (Cont.)

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BEKLEMISHEV, K.V.; PASTERNAK, F.A.

Quantitative estimation of flying fish in the Atlantic Ocean and evaluation of the productivity of tropical waters. Vop.ikht. no.14:71-77 '60. (MIRA 13:8)

1. Institut okeanologii Akademii nauk SSSR.
(Atlantic Ocean--Flying fish)
(Phytoplankton)

PASTERNAK, F.A.

Deep-sea pennatulaceans of the Bering Sea and the Kurile-Kamchatka Trench. Trudy Inst. okean. 34:329-335 '60. (MIRA 13:10)
(Bering Sea--Alcyonaria) (Japanese Trench--Alcyonaria)

PASTERNAK, F.A.

Recent data on the species and distribution of deep-sea pennatularians of the genus Kophobelemnon in the northern part of the Pacific Ocean. Trudy Inst.okean. 45:240-258 '61. (MIRA 15:2)
(Pacific Ocean--Sea pens)

PASTERNAK, F.A.

Pennatularians of the genus Umbellula Cuvier (Coelentarata Octocorallia from Antarctic and sub-Antarctic waters. Issl. fauny mor. 1:105-128 '62. (MIRA 17:9)

1. Institut okeanologii AN SSSR.

SOKOLOVA, M.N.; PASTERNAK, F.A.

Quantitative distribution of the bottom fauna in the northern part of the Arabian Sea and in the Bengal Bay. Dokl.AN SSSR 144 no.3:645-648 My '62. (MIRA 15:5)

1. Institut okeanologii AN SSSR. Predstavleno akademikom N.M. Strakhovym.

(Indian Ocean—Marine fauna)

SOKOLOVA, M.N.; PASTERNAK, F.A.

Quantitative distribution and tropical zoning of the bottom fauna in Bay of the Bengal and the Andaman Sea. Trudy Inst. okean. 64:271-296 '64. (MIRA 17:7)

PASTERNAK, F.A.

Deep-sea pennatularians (Octocorallia) and antipatharians (Hexacorallia) collected by the "Vitiaz' " expedition in the Indian Ocean and the resemblance of the fauna of deep-sea pennatularians of the Indian and Pacific Oceans. Trudy Inst. okean. 69:183-215 '64.
(MIRA 17:9)

L 28507-66 EWT(1) GW

ACC NR: AP6014290 (N) SOURCE CODE: UR/0213/66/006/002/0379/0386

AUTHORS: Belousov, I. M.; Ivanov, Yu. A.; Pasternak, F. A.; Rass, T. S.; Rossov, V. V.

27
B

ORG: none

TITLE: Oceanographic investigations of the Soviet-Cuban marine expedition

SOURCE: Okeanologiya, v. 6, no. 2, 1966, 379-386

TOPIC TAGS: oceanographic ship, oceanographic expedition, biology, ocean floor topography, ocean property

ABSTRACT: This paper discusses results of a joint expedition by the Academies of Sciences of the Soviet Union and of Cuba in 1964—65 to study the marine waters about Cuba and in the Gulf of Mexico. The main objective was a study of biological features, particularly from an economic viewpoint. The studies were made on the Soviet ship Academician A. Kovalevskiy. Participating organizations were the Marine Hydrophysical Institute of UkrSSR (under the direction of V. V. Rossov), the Biological Institute of the South Seas, AN UkrSSR, the Institute of Geological Sciences, AN UkrSSR, the Institute of Oceanography, AN SSSR (under the direction of I. M. Belousov), and the Zoological Institute, AN SSSR. The base of the expedition was the Oceanographic Institute of the Cuban Academy of Sciences. A. Nunez Jimenez,

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L 28507-66

ACC NR: AP6014290

President of the Cuban Academy of Sciences, D. Gitart, Director of the Institute, and S. Gonzalez, Assistant Director, participated and encouraged the work. The routes taken by the ship are shown on a map. Results have led to improvement of bathymetric charts, better understanding of bottom sediments (the Campecho banks contain chiefly organogenic detritus), and refinement in knowledge of the cause and nature of water circulation and currents and of the distribution of most productive biological zones. Details of biological zones are given. Phytoplankton are most abundant in the southern Gulf of Mexico, and the distribution of zooplankton follows practically the same pattern. Zones of strongly, moderately, and weakly ascending water are plotted on a map. A band of most strongly ascending water lies east--west in Florida Strait. Results of the expedition have been reported at two conferences organized by the Cuban Academy of Sciences: February 1965 and July 1965. Orig. art. has: 3 figures and 1 table.

SUB CODE: 08/ SUBM DATE: none

Card 2/2

AID P - 5456

Subject : USSR/Aeronautics - training

Card 1/1 Pub. 135 - 2/29

Authors : Pasternak, F. S., Eng.-Maj. and R. Sh. Batalov, Major

Title : Controlling a flight of bombers at night

Periodical : Vest. vozd. flota, 2, 10-14, F 1957

Abstract : The authors describe how a formation of bombers in a flight strength, when flying at night or in daytime in clouds, can be controlled with the aid of ground radar stations. Three photos. The article merits attention.

Institution : None

Submitted : No date

KUROPYATNIK, O.N.; PASTERNAK, P.O.; TSIPERFIN, I.M.

Automatic punching of piston-ring locks. Mashinostroitel' no.9:15 S '60. (MIRA 13:9)

(Forging) (Automatic control)

PASTERNAK, G.

On the front line. Okhr. truda i sots. strakh. 5 no.8:26 Ag '62.
(MIRA 15:7)

1. Tekhnicheskiy inspektor Krasnodarskogo kraysovprofa.
(Krasnodar Territory—Swine) (Agriculture—Hygienic aspects)

PASTERNAK, G.; HÖLZER, B.

Demonstration of immunological differences between Graffi- and Gross-virus induced mouse leukemias in vivo and in vitro. Neoplasma (Bratisl.) 12 no.4:339-355 '65.

1. Institut fur Krebsforschung der Deutschen Akademie der Wissenschaften. Bereich: Experimentelle Krebsforschung, Berlin-Buch, DDR.
Submitted October 24, 1964.

PASTERNAK, H.

POLAND/Chemical Technology - Chemical Products and Their Application, Part 3. - Fats and Oils, Waxes, Soaps, Detergents, Flotation Agents. H-24

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22916

Author : H. Pasternak
Inst : -
Title : Detergents for Wool.

Orig Pub : Przem. spozywczy, 1957, 11, No 6, 273

Abstract : Concentrated H_2SO_4 is added little by little at 45 to 55° to a mixture of coconut oil and glycerin in a reactor, the content of the reactor being rapidly stirred in the duration of 4 to 5 hours. The esterification of the oil together with the simultaneous sulfonation of the produced esters take place at this occasion. The acid sulfonation product is poured little by little in a 30%-ual NaOH solution. During the alkali treatment (at a temperature not above 30°) the reactor content is vigorously

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ACC NR: AP7002575 (A,N) SOURCE CODE: UR/0413/66/000/023/0073/0073

INVENTOR: Solov'yeva, N. A.; Yudkevich, M. I.; Pasternak, I. I.

ORG: none

TITLE: Iron-nickel base alloy. Class 40, No. 189151 [announced by the Central Scientific-Research Institute of Ferrous Metallurgy im. I. P. Bardin (Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 73

TOPIC TAGS: iron nickel alloy, cobalt containing alloy, manganese containing alloy, silicon containing alloy, THERMAL EXPANSION

ABSTRACT:

This Author Certificate introduces an iron-nickel alloy with a low coefficient of thermal expansion, which remains constant at temperatures up to 300C. The alloy contains 37.5—38.5% nickel, 1.5—2.5% cobalt, 0.05% max carbon, 0.30% max silicon, and 0.40% max manganese.

SUB CODE: 11/ SUBM DATE: 25Oct65/ ATD PRESS: 5113

Card 1/1 UDC: 669.15'24-194:669.018.47

PASTERNAK, G. [deceased]

Cow barns for the loose housing of cattle on peat litter with standardized feeding. Sel. stroi. no.4:24 Ap '62. (MIRA 15:8)

1. Uchenyy sekretar' nauchno-tekhnicheskogo soveta Ministerstva sel'skogo khozyaystva SSSR.

(Dairy barns)

PASTRNYAK, I., Candidate of Phys- Math Sci -- (diss) "Optical Properties of Cuprous Oxide," Leningrad, 1959, 12 pp (Leningrad Institute of Physics and Technology. Academy of Sciences, USSR) (K [redacted], 7-60, 107)

PASTERNAK, I.Z.

Pay greater attention to economy in pipeline construction. Stroi. pred. neft. prom. 3 no.6:4-6 Je '58. (MIRA 11:7)
(Pipelines)

PASTERNAK, J., kapitan

Psychotechnical tests in aviation. Wojsk przegl 13 no.11:27-28 N '60.

PASTERNAK, Jozef

The notion of children and parents as reflected in the decree on general old age pensions. Praca zabezp spol 4 no.3:66-69 Mr '62.

PASTERNAK, Jozef; CHLIPALSKI, Jan

On cases before the Social Insurance Tribunal. Praca i zabezp spol 4 no. 5:70-73. My '62

PASTERNAK, Jozef

Are there one or two pensions for disabled persons provided in the Statute on the Universal Retirement Fund? Praca zabezp spol 5 no.10:9-23 0'63

PASTERNAK, Jozef

Specific legal concurrence of a title to Soviet old age pension with a title to Polish pension. Praca zabezp spol 5 no.1:45-49 Ja '63.

PASTERNAK, Kazimierz, dr

Geological and pedological characteristics of the upper basin of the Vistula River. Acta hydrobiol 4 no.3/4:277-299 '62.

1. Zaklad Biologii Wod, Polska Akademia Nauk, Krakow.

PASTERNAK, K.

Apportionment of passenger cars to repair shops.

P. 269. (PRZEGLAD KOLEJOWY MECHANICZNY) (Warszawa, Poland) Vol. 9, no. 9, Sept. 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

[illegible]AK, K.

Tasks of the Railroad Rolling Stock Repair Shops in the field of car repair.

P. T. [illegible] Warszawa, Poland, Vol. , No. , Jan. 1958

S: Monthly Index of East European Accession (EEI), LC Vol. , No. ,

PASTERNAK, Kazimierz, inz.

Working organization in the Railroad Rolling Stock Repair Shops.
Przegl kolej mechan 13 no.8:241-244 Ag '61.

PASTERNAK, K.

Mediterranean lines of the Polish Ocean Lines. Techn gosp morska 14 no. 6:187-133 Je '64.

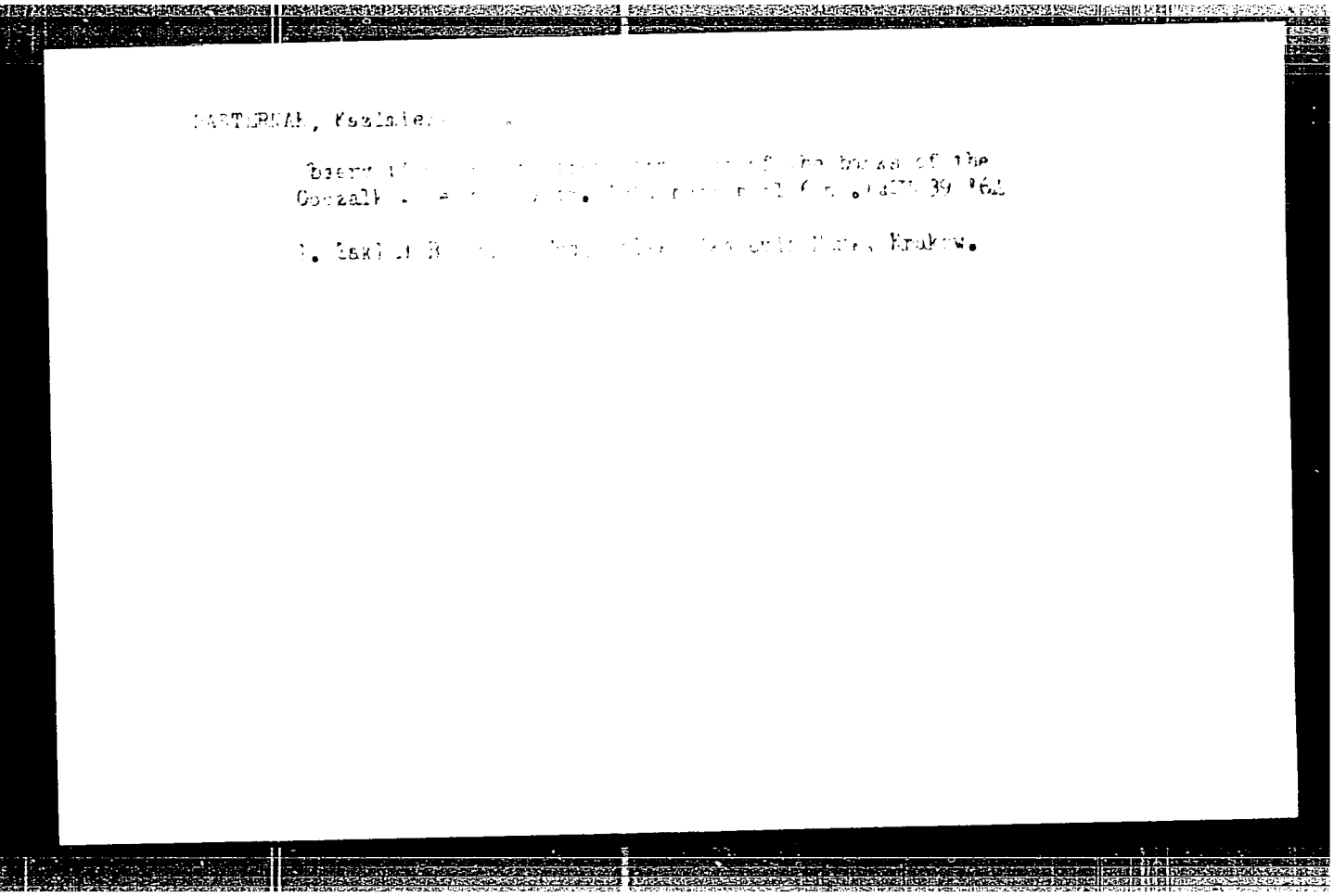
PASTERNAK, K.

Foreign agencies of Polish overseas shipping enterprises.
Tech gosp morska 14 no.2:61-62 F '64.

PASTERAK, Kazimierz, dr

Preliminary research on the possibilities of using phosphorite powder from Poland as fishpond fertilizer. Acta hydrobiol 5 no.4.403-433 '63.

1. Zakład Biologii Wód, Polska Akademia Nauk, Kraków.



PASTERNAK, Kazimierz, dr

Geologic and pedologic characteristics of the San River Basin.
Acta hydrobiol 6 no.3:289-307 '64.

1. Institute of Water Biology, Polish Academy of Sciences, Krakow.

PASTERNAK, Kazimierz, dr

Pond soils formed from siltations. Acta hydrobiol 7 no.1:1-26 '65.

1. Institute of Hydrobiology, Krakow, of the Polish Academy of Sciences. Submitted March 10, 1964.

PASTERNAK, Krystyna

A regular North American Line of the Polish Ocean Lines.
Tech gosp morska 13 no.12:378-379 D'63.

PASTERNAK, L.G.

"Soviet Buryat-Mongolia" by B.R. Buiantuev; G.Sh. Radnaev. Reviewed by L.G.Pasternak. Kraeved. sbor. no.2:165-170 '58.
(MIRA 13:2)

(Buryat-Mongolia--Economic conditions)
(Buiantuev, B.R.) (Radnaev, G.Sh.)

BASHKUYEV, Budda Vasil'yevich; PASTERNAK, Leonid Grigor'yevich; DARMAYEVA, M.O., red.; RADNAYEV, A.N., tekhn. red.

[Geography of the Buryat A.S.S.R.; textbook for the 8th grade] Geografiia Buriatskoi ASSR uchebnoe posobie dlia 8 klassa. Ulan-Ude, Buriatskoe knizhnoe izd-vo, 1963. 76 p. (MIRA 17:3)

PROCESSES AND PROPERTIES INDEX

BC

2-4

Changes in blood-p_H in cancer. M. PASTERNAK (J. méd. Ukraine, 1939, 9, 167—180).—In [illegible] cases of cancer the average val. for p_H was 7·4[illegible]; in inoperable cases it was 7·[illegible]; dissolved CO_2 was diminished while combined CO_2 remained normal; CO_2 pressure in venous blood was also diminished. The same changes were seen in experimental cancer and in some precancerous conditions (mastopathy, intestinal polyposis, but not in gastric ulcer and erosion of uterine cervix). H. L.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

PASTERNAK, Mariya.

For the benefit of consumers. Sov.profsoiuzy 4 no.8:49-50 Ag '56.
(MLRA 9:10)

1.Gruppovoy organizator professional'nogo soyuza magazina no.40 Frunzenskogo raypishchetorga.
(Kuybyshev Province--Retail trade)

PASTERNAK, Mieczyslaw

A case of systemic amyloidosis. Pol. tyg. lek. 17 no.13:488-489 26 Mr '62.

1. Z Oddzialu Wewnetrznego Szpitala Miejskiego w Skarzysku-Kamiennej; ordynator oddzialu: dr med. Marian Uracz.

(AMYLOIDOSIS case reports)

PASTERNAK, M.D.

Use of pulsating electric current (electrosleep) in the treatment of pregnancy toxemias. Akush. i gin. 40 no.1:70-74 Ja-F '64. (MIRA 17:8)

1. Kafedra akusherstva i ginekologii (zav. - prof. I.I. Yakovlev) I Leningradskogo meditsinskogo instituta imeni Pavlova.

GLANTS, R.M., prof.; PANCHENKO, N.I.; PASTERNAK, M.G.

Effect of isohemotransfusion on the content of sulfhydryl groups in some animal organs and tissues. Probl. gemat. i perel. krovi 8 no.11:41-44 N '63. (MIRA 17:12)

1. Iz fiziologicheskoy laboratorii (zav.- prof. R.M. Glants) i biofiziko-khimicheskoy laboratorii (zav. N.I. Panchenko) Ukrainskogo instituta perelivaniya krovi i neotlozhnoy khirurgii (direktor L.A. Ripyakh).

PASTERNAK, M. G., Cand. Medic. Sci. (diss) "Effect of Heterogenic Blood Substitutes on Functional Condition of Sympathetic-Adrenal System," Khar'kov, 1961, 16 pp. (Khar'kov Med. Inst.) 300 copies (KL Supp 12-61, 287).

PASTERNAK, M.G. (Khar'kov)

Influence of heterogeneous blood substitute BK-8 and LSB on some aspects of adrenergic substance metabolism in the brain, the transversostriated muscles, and the spleen of white rats. Vrach.delo no.8:835-838 Ag '59. (MIRA 12:12)

1. Eksperimental'nyy otdel (rukovoditel-starshiy nauchnyy sotrudnik R.M. Glants) Ukrainskogo nauchno-issledovatel'skogo instituta pereli-vaniya krovi i neotlozhnoy khirurgii.
(BLOOD PLASMA SUBSTITUTES) (ADRENALINE)

MAKARCHENKO, A.F.; DINABURG, A.D.; PASTERNAK, M.N.; MEL'NICHENKO, A.V.

Experimental allergic encephalomyeloradiculitis. Zhur. nevr. i psikh. 62 no.3:361-366 '62. (MIRA 15:3)

1. Otdel nevrologii i neyrofiziologii Instituta fiziologii imeni A.A. Bogomol'tsa (dir. - prof. A.F. Makarchenko) AN USSR, Kiyev.

(NERVES, SPINAL—DISEASES)
(ENCEPHALOMYELITIS) (ALLERGY)

PASTERNAK, N.A.; RAVICH, I.V.; GUSLITS, S.V.

Treatment of diphtherial carriers with antibiotics of the tetracycline series with ecmoline. Antibiotiki 3 no.2:82-85 Mr-Ap '58. (MIRA 12:11)

1. Kafedry mikrobiologii i epidemiologii TSentral'nogo instituta usovershenstvovaniya vrachey.

(DIPHTHERIA, transmission,
prev. ther. of carriers with ecmoline with tetracycline (Rus))
(TETRACYCLINE, ther. use,
diphtherial carriers, with ecmoline (Rus))
(ANTIBIOTICS, therap. use,
ecmoline ther. of diphtherial carriers, with tetracyclines (Rus))

POMOMAREV, Viktor Aleksandrovich; PASTERNAK, Nina Aleksandrovna; YERENBURG, Yelizar Yefimovich; CHERNYSKIY, Ye.A., retsenzent; SILAYEV, A.F., red.; UVAROVA, A.F., tekhn. red.

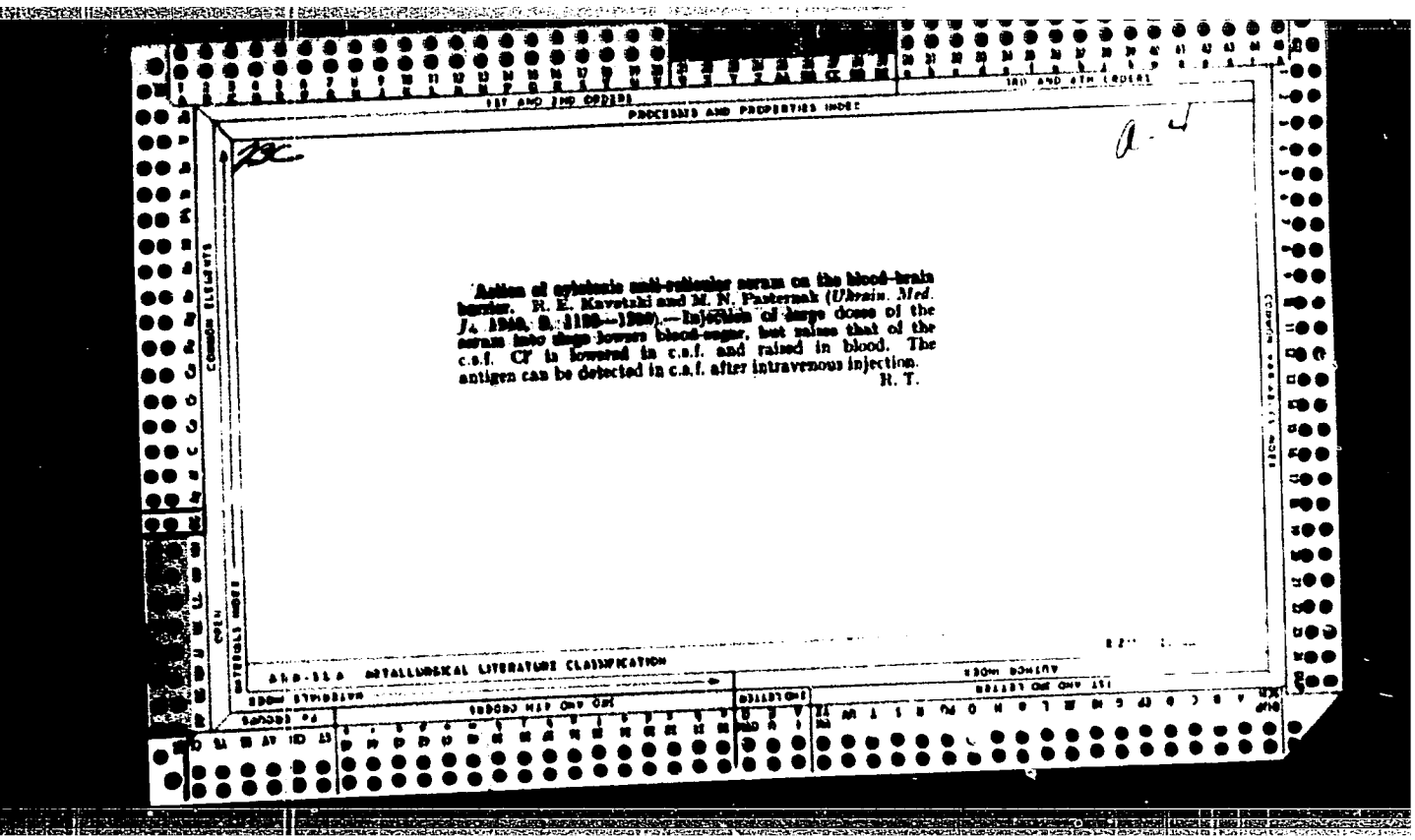
[Increasing labor productivity in casting sections] Povyshenie proizvoditel'nosti truda v liteinykh tsekhakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 249 p. (Iron founding) (MIRA 11:9)

MASLENNIKOV, F.I., kandidat tekhnicheskikh nauk, dotsent; PASTERNAK N.A., inzhener, redaktor; MODEL', B.I., tekhnicheskiy redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor.

[Laboratory manual on metals] Laboratornyi praktikum po metallovedeniiu. Izd.2-oe, perer. i dop. Moskva, Gos.nauchno-tekhn. izd-vo, mashinostroitel'noi lit-ry, 1955. 251 p. (MLRA 8:12)
(Metallurgy)

GULYAYEV, A.P.; PETUNINA, Ye.V.; PASTERNAK, N.A., inzhener, retsenzent; MATVEYEVA, Ye.N., tekhnicheskiy redaktor.

[Metallographic investigation of the austenite to margensite transformation] Metallograficheskoe issledovanie prevrashcheniia austenita v martensit. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1952. 90 p. (Moscow.TSentral'nyi nauchno-issledovatel'skii institut tekhnologii i mashinostroeniia [Trudy]. no.47) (MLRA 10:2)
(Steel--Metallography) (Austenite) (Martensite)



Action of cytotoxic anti-cerebellar serum on the blood-brain barrier. R. E. Kavetzki and M. N. Pasternak (*Ukrain. Med. J.*, 1940, 8, 1188—1200).—Injection of large doses of the serum into dogs lowers blood-sugar, but raises that of the c.s.f. Cl' is lowered in c.s.f. and raised in blood. The antigen can be detected in c.s.f. after intravenous injection.
R. T.

PASTERNAK, M.D., aspirant

Use of the electric slepp method in the treatment of women with phenomena of early toxicosis and toxemia in the late periods of pregnancy; preliminary report. Sbor.nauch.trud.Kaf.akush. i gin. 1 LMI no.2:253-256'61. (MIRA 16:7)
(ELECTRICITY—PHYSIOLOGICAL EFFECT)
(SLEEP THERAPY) (PREGNANCY, COMPLICATIONS OF)