"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

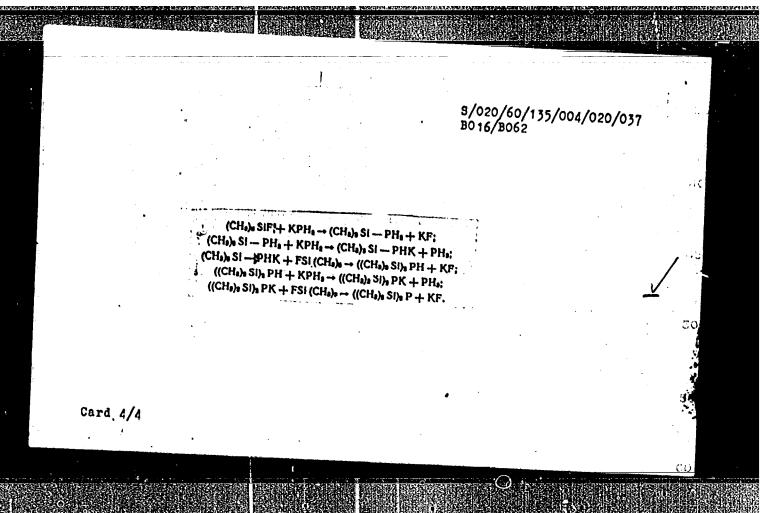
Synthesis of Elemental-organic Compounds in Which Silicon or Tin Are Directly Bound to B016/B062

[(CH₃)₃Sn]₃P. Mention is made of a paper by B. Arbuzov and coworkers (Ref. 1). N. Rodionova, S. Dubov, A. Khokhlova, and V. Pedotova examined and 1 British.

PRESENTED: June 24, 1960, by I. L. Knunyants, Academician

SUBMITTED: June 23, 1960

Card 3/4



BALASHOVA, L.D.; BRUKER, A.B.; SOBOROVSKIY, L.Z.

Interaction of silane and monoalkylsilanes with hydrohalides under overpressure in the absence of catalysts. Zhur.ob.khim. 32 no.9:2982-2983 S 162. (MIRA 15:9)

L 16076-66 EWT(m)/EWP(j) RM ACC NR: AP6005923 SOURCE CODE: UR/0079/66/036/001/0073/0075 AUTHOR: Balashova, L. D.; Bruker, A. B.; Soborovskiy, L. Z. ORG: none TITLE: Hetal organometallic compounds. Part 2. Synthesis of silyl- and alkylsilylphotophines SOURCE: Zhurnal obhachey khimii, v. 36, no. 1, 1966, 73-75 TOPIC TAGS: organosilicon compound organolithium compound, silane ABSTRACT: Silylphosphines in which the silicon atom is linked to alkyl-alkoxy or alkyl-dialkylamino groups, were synthesized. Thus, action of the corresponding dimethylalkoxychlorosilane on lithium methylhydrophosphide produced bis(dimethylmethoxysilyl)methylphosphine (I) and bis(dimethylisobutoxysilyl)methylphosphine (II): $2CH_3PHLI + 2CISI(CH_3)_2(OR) \longrightarrow CH_3P[SI(CH_3)_2(OR)]_3 + 2H_3PH_2 + 2LICI$ (1) R = CH, (II) R = 100-CaHg Reaction of bis(diethylamino)methylchlorosilane with lithium dihydrophosphide yield-UDC: 547.241 + 547.245 Card 1/3

L 16076-66 ACC MR: AP\$005923 ed bis(diethylamino)methyleilylphosphine (III): CH₀Si[N(C₀H₀b₀b₀Cl + LiPH₀ → H₀P - Si(CH₀)[N(C₀H₀b₀b + LiCl (II)) Similarly, bis(diethylamino)methylsilylmethylphosphine H CH₁ CH₂P - Si[N(C₀H₀b₁b₁ (IV). was obtained from the reaction of bis(diethylaminomethyl)chlorosilane with lithium methylhydrophosphide. When diethylaminodimethylchlorosilane reacted with lithium methylhydrophosphide, the products were (diethylaminodimethylsilyl)methylphosphine (V) and bis(diethylaminodimethylsilyl)methylphosphine (VI): N(C₁H₁b₁ | H S(CH₁b₁b₁ - CH + 3LHP - CH₂ - CH₁P | CH₁b₁b₁ + CH₂FH₁ + 3LiCl (3) (VI) Card 2/3

| | L 16076-66 | | | | | | | |
|------------|----------------------------|--------------------------------|---|-----------------|--------------------------------|-------------|----------------------|--|
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| Ace her | etofore under methylphosph | in the enol for cribed compour | | • | | -matoxaette | , and a ne (VII), | |
| | | H H(Can) | он, + и _в с_с_сп _в _ | → си°ьп³ + си°» | CH, N(C,H CO—81(CH (VII) | ale ele | | |
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| L 16077-6 | 66 ENT (m)/EMP(j) RM | |
|-----------------------------|--|--------|
| ACC HRI AP | SOURCE CODE: UR/0079/66/036/001/0075/0078 | |
| | uker, A. B.; Balashova, L. D.; Soborovskiy, L. Z. | |
| ORG: none | | |
| vith silico | al organometallic compounds. Part 4. Reaction of dialkyl disulfides n and tin phosphines and with alkali metal hydrophosphides | |
| SOURCE: 2h | urnal obshchey khimii, v. 36, no. 1, 1966, 75-78 | |
| TOPIC TAGS: organotin co | Cramosilicon compound | 1 12.3 |
| | The general scheme of reactions of alkali metal hydrophosphides and | |
| ABSTRACT: 7 alkylhydroph | MADIAYI GIBUITIdes can be represented as follows: | |
| ABSTRACT: 7 alkylhydroph | H ₂ PNe+3R'S-SR'→P(SR') ₂ +MeSR'+2HSR' | - |
| ABSTRACT: 7 alkylhydroph | can be represented as follows: | |

L 16077-66

ACC NR: AP6005924

The dialkyl disulfide splits to form the corresponding thiol esters of acids of trivalent phosphorus. When silicon and tin phosphines were reacted with dialkyl sulfides, trialkylsilicon and trialkyltin alkyl sulfides and thiol esters of acids of trivalent phosphorus were obtained. Depending upon the ratio of the reactants and temperature of the process, the trialkyltin or trilakylsilicon groups may be parethyloltin)phosphine CH₃P[Sn(C₂H₅)₃]₂ on diethyl disulfide at a molar ratio of 1:2 forms compound (II) and (C₂H₅)₃Sn-SC₂H₅. The compound (CH₃)₃Sn-SC₂H₅ was obtained of tris(trimethyloltin)phosphine with diethyl disulfide at 50°. Heating ing reaction:

 $P\{Si(Cil_3)_3l_3 + C_3il_4S - SC_3il_3 \rightarrow (Cil_3)_3SiP(SC_3il_4)_2 + 2(Cil_3)_3Si - SC_3il_4$

SUB CODE: 07/

SUBH DATE: 18Jan65/

ORIG REF: 003/

OTH REF: 000

Card 2/2/2

PPROVED FOR RELEASE! Wednesday, June 21, 2000

25607-66 EWT(m)/EWP(j) RM ACC NR AP6016701 SOURCE CODE: UR/0079/65/035/012/2207/2209 AUTHOR: Balashova, L. D.; Bruker, A. B.; Soborovskiy, L. Z. ORG: none 28 TITLE: Investigation of element-elementoorganic compounds. III. Synthesis of B SOURCE: Zhurnal obshchey khimii, v. 35, no. 12, 1965, 2207-2209 TOPIC TAGS: organic synthetic process, organotin compound, organolithium compound, organic ompound, organic phosphorus compound, chlorinated organic compound The preparation of the new compounds -- bis(trimethyltinmethyl) phosphine (I) and bis(triethyltinmethyl) phosphine (II) by two methods are described. The first method is by reaction of the corresponding trialkyltinhalide with sodium (or potassium) methylhydrophosphide in liquid ammonia or with lithium methylhydrophosphide in an ether solution according to the gen-2CH₂PHMe + 2XSnR₃ -> CH3P(SnR3)2 Compound (I) is prepared in an 80-90% yield from the reaction of trimethyltin bromide on lithium methylhydrophosphide in ether solution. Compound (II) is obtained in a 70% yield from the reaction of triethyltin chloride and lithium methylhydrophosphide. The second method is by the action of methylohlorophosphinenon

| ACC NR: AP6016701 the sodium derivative of trim the genural reaction: | A+1 | 0 | |
|---|---|---|----|
| the general reaction: | ethyltin or triethyltin acco | ording to F | |
| CH3PCl2 + 2NaSnR3 | CH3P(SnR3)2 + 2NaCl | | |
| The second method gives lower about 10-15%. In this case the number of side processes. The phosphine with the sodium derichloride (11%) and hexaethyldi | yields of compounds (I) and he reactions are accompanied us, in the reaction of methy | ldichlore | |
| CH3PCl2 + 2Nasn(C2H5)3 - | > CH3PNa2 + 2Clsn(C2H5)3 | | 0 |
| ne reaction of triethyltin oh riethyltin can lead to the fo | loride with the Na-derivative | | |
| (C2H5)38NNA + C16n(C2H5)3 | NaCl + (C2H5)3nsn(C | ^{12H} 5)3. | 3. |
| SUB CODE: 07 / SUEM DATE: 18Jan6 | | • | _ |
| rd 2/2 KV | | | - |

BALASHOVA, L. N.

Cand Med Sci - (diss) "Several types of remission and psychic defect in schizophrenia with favorable course. (In relation to tasks of work-construction)." Moscow, 1961. 14 pp; (Ministry of Public Health RSFSR, Gor'kiy Medical Inst imeni S. M. Kirov); 250 copies; price not given; (KL, 5-61 sup, 201)

FEDOTOV, D.D., prof., otv. red. SEGAL, B.M., zam. otv. red.;
AVERBAKH, Ya.K., red.; AVRUTSKIY, G.Ya., red.; ALEKSANDROVSKIY,
Yu.A., red.; BALASHOVA, L.N., red.; BELKIN, A.I., red.;
GUROVICH, I.Ya., red.

[Problems of exogenous and organic neuropsychic disorders; materials of the scientific conference of the State Scientific Research Institute of Psychiatry of the Ministry of Public Health of the R.S.F.S.R. March 1964] Voprosy ekzogennykh i organicheskikh nervno-psikhicheskikh rasstroistv; materialy nauchnoi konferentsii Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhiatrii MZ RSFSR. Mart 1964. 164, p. No.2. 1964. 164, p. (MIRA 17:9)

l. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut psikhiatrii. 2. Direktor Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR (for Fedotov). 3. Otdel psikhozov pozdnego vozrasta Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR (for Belkin). 4. Otdel ekzogennykh nervnopsikhicheskikh rasstroystv Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR (for Segal). 5 Gosudarstvennyy nauchno-issledovatel'skiy 'nstitut psikhiatrii Ministerstva zdravookhraneniya RSFSR (for Averbakh).

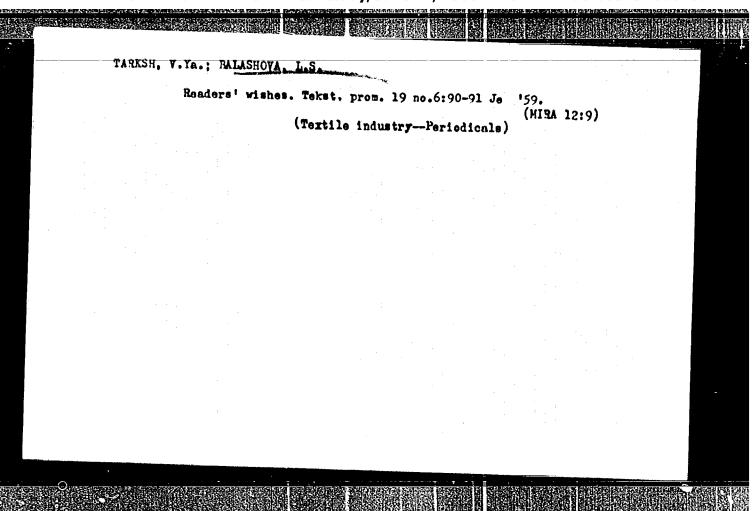
BALASHOVA, L.N.

Characteristics of the higher nervous activity in schizophrenia patients in a stage of remission. Vop.klin., patog. i lech. shiz. no.119-12 '64. (MIRA 18:5)

1. Otdel vrachebno-trudovoy ekspertizy (zav. - prof. D.Ye. Melekhov) Gosudarstvennogo nauchno-issledovatel skogo instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR.

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CIA-RDP86-00513R000103



ALESHINA, F.; KARACHNIK, Ya.; KUZNETSOVA, N.; VASILIYEVA, V.; BALASHOVA, M.;

Several results of an experimental study of budgets of workers' families. Biul.nauch.inform.: trud i zar. plata 3 no.12:24-48 '60.

(MIRA 14:3)

(Home economics-Accounting)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

BALASHOVA, M.M.; SAZONOVA, M.D.

New data on the stratigraphy and lithology of the terrigenous sediments in the Lower Carboniferous of the Southern part of the Kama arch. Neftegaz. geol. i geofiz. no. 5:33-37 163.

(MIRA 17:5)

B-5

USSR/ Physical Chemistry - Crystals

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11054 Author

: Balashova M.N., Shafranovskiy I.I. : Destribution of Minerals by Symmetry Forms Title

Orig Pub : Sbornik: Kristallografiya, No 5, Moscow, Metallurgizdat, 1956, 203-212

Abstract : A synopsis of the distribution of mineral crystals by symmetry forms

Card 1/1

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

USSR / Solid State Physics / Structural Crystallegraphy

Abs Jour : Ref Zhur - Fizika, No. 5, 1957 No. 11653

Author : Balashova, M. N. Shifranovskiy, I. I.
Inst : Distribution of Minerals by the Symmetry Type.

Orig Pub : Kristallografiya, Uyp. 5. M., Metallurgizdat, 1956, 203 - 212.

Abstract : A list of 1022 minerals is given, distributed by types of symmetry.

Card: 1/1

STULOV, M.N.; SHAFRANOVSKIY, I.I.; MOKIYAVSKIY, V.A.; POPOV, O.M.; BMTMEHTIN, A.G.; NIKOLAYEV, V.A.; ANSHELES, O.M.; GRIGOR'TEV, D.P.;
YEROFEYEV, B.N.; TATARSKIY, V.B.; SOLOV'YEV, S.P.; NIKITIN, V.D.;
RUDENKO, S.A.; DUBINIHA, V.H.; ALYAVDIN, V.F.; VLADIMIROV, B.N.;
KAZITSYN, Y.L.V.; YRANK-KAMEMETSKIY, V.A.; KALININ, A.I.* BAIASHOYA, M.N.; SAL'DAU, E.P.; DOLIVO-DOBRGVOL'SKAYA, G.H.; LAVRENT'YEV, M.F.

Viktor Ivanovich Mikheev. Zap. Vses. min. ob-va 86 no.2:317-320 (MIRA 10:6) (Mikheev, Viktor Ivanovich, 1912-1956)

BALASHOVA, N.N.; SALIDAU, E.P.

Scientific Session of the Fedorov Institute in conjunction with the All-Union Mineralogical Society. Zap. Vses. min. ob-va 87 no.5: 624-632 '58. (MIRA 12:1)

(Petrology)

RALASHOVA, M.N.; HOKIYEVSKIY, V.A.; SAL'DAU, E.P.

Joint scientific session of the Fedorov Institute and the All-Union Mineralogical Society. Zap. Vses. min. ob-va 89 no.5:611-620 '60.

(Mineralogy)

学**,是一个人,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,**

BALASHOVA, N.N.; SAL'DAU, B.P.; STULOY, H.H.

The Fedorov anniversary session. Zap. Vses.min.ob-va 86 no.5:632-639 157. (MIRA 10:10)

(Mineralogy)

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BALASHOVA, M.N.; SAL'DAU, E.P.; MOKIYKVSKIY, V.A.

Scientific session on crystallography dedicated to the 40th anniversary of death of Evgraf Stepanovich Fedorov. Zap. Vses. min. ob-va 88 no.5:615-632 '59. (MIRA 13:2) (Fedorov, Evgraf Stepanovich, 1853-1919) (Crystallography)

SHAFRANOVSKIY, I.I., prof. Prinimali uchastiya: MOKIYEVSKIY, V.A.; STULOV, H.N.; GENDELEV, S.Sh.; PIS'MENHYY, V.A.; BALASHOVA, M.N.; MIKHEYEVA, I.V.; SAL'DAU, E.P.; KALININ, A.I.; DOLIVO-DOBROVOL'SKAYA, Q.M. PIOTROVSKIY, G.L., dotsent, otv.red.; FURMAN, K.P., red.; MALYAVKO, A.V., tekhred.

[Lectures on the morphology of mineral crystals] Lektsii po kristallomorfologii mineralov. L'vov, Isd-vo L'vovakogo univ., 1960. 161 p. (MIRA 14:1)

1. Kafedra kristallografii Leningradskogo gornogo instituta (for Mokiyevskiy, Stulov, Gendelev, Pis'mennyy, Balashova, Mikheyeva, Sal'dau, Kalinin, Dolivo-Dobrovol'skaya).

(Minerals) (Crystals)

STEPANOV, I.V. (Kazan'); BALASHOVA, N.H. (Kazan'); SOKOLOVA, M.G. (Kazan')

Observation of lunar occulatations of stars at the Kazan Astronomical Observatory in 1959. Astron.teir. no.209:40-41 Mr '60. (MIRAL3:9)

(Occultations)

BALASHOVA, M.N.; SAL'DAU, E.P.; MOKIYEVSKIY, V.A.

Conference of the Fedorovskii Institute and the All-Union Mineralogical Society. Zap. Vses.min. ob-va 90 no. 5:616-628 61. (MIRA 14:10)

(Mineralogical societies)

BALASHOVA, M.N.; SALIDAU, E.P.; MOKIYEVSKIY, V.A.

Fedorov meeting on the occasion of the 50th anniversary of the discovery of X-ray diffraction. Zap.Vses.min.ob-va 91 no.5:621-634 '62. (MIRA 15:11) (X-ray crystallography)

BALASHOVA, M.N.; SALIDAU, E.P.

Session of the Feodorov Institute and the All-Union Mineralogical Society. Zap. Vses. min. ob-va 92 no.5:617-526 163. (MIRA 17:1)

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BALAGHOVA, M.N.; MORTYEVSKIY, V.A.; SALIDAU, E.P.

Joint meeting of the Fedorov institutes and minimum of the U.C.S.R. Zap.Vses.min.eb-va 93 no.6:727-735 164.

(MIRA 18:4) Joint meeting of the Fedorov Institute and Mineralogical Society

BALASHOVA, M.N., MOKTYEVSKIY, V.A., SALIDAU, E.P.

Joint session of the Fedorov Institute and the Mineralogical Society of the U.S.S.R. Zap. Vaes. min. ob-va 94 no.6; 737-748 '65. (MIRA 18:12)

1. Deystvitel'nyye chleny Vsesoyuznogo mineralogicheskogo obshchestva (for Mokiyevakiy, Sal'dau).

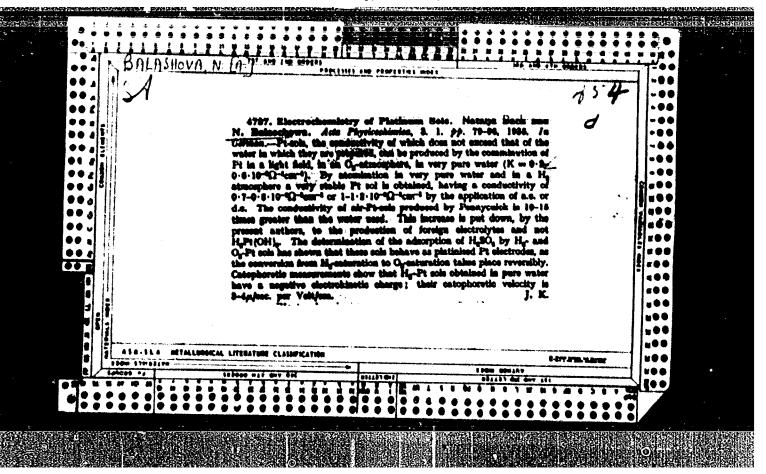
MARCHENKO, V.G.; TAUHE, A.M., prof.[deceased]; NEMIROV, I.A.; SHMID, V.A.; MOROZOVSKIY, N.G., kapitan dal'nego plavaniya kontradmiral, red.; BORISOV, V.V., red.; BALASHOVA, M.V., red.—leksikograf; BENDNIKOVA, N.D., red.—leksikograf; SAVIN, B.V., led.—leksikograf; KUZ'MIN, I.F., tekhm. red.

[English-Russian naval dictionary. Approximately 40, 000 words and phrases]Anglo-russkii voenno-morskoi slovar'. Pod red. N.G. Morosovskogo. Okolo 40,000 slov i sochetanii. Moskva, Voenizdat 1962. 851 p. (MIRA 15:12)

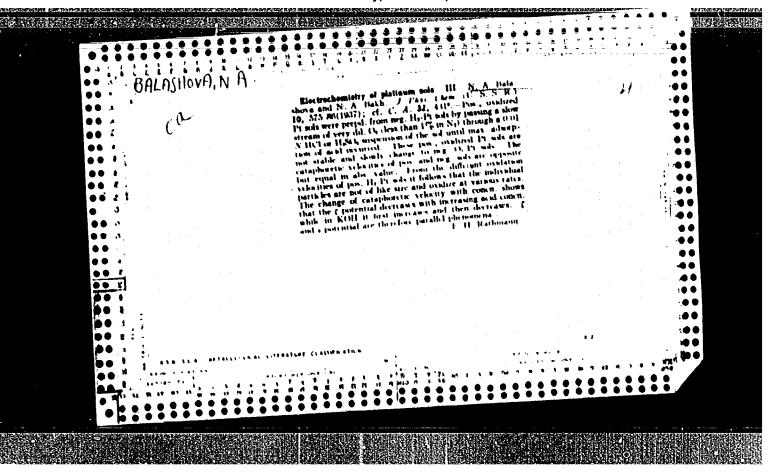
(Naval art and science—Dictionaries)
(English language—Dictionaries—Russian)

MILLER, Don Dzh. [Miller, D.J.]; PEYN, Tomas G. [Payne, T.G.]; GRIK, Dzh. [Gryc, George]; BALASHOVA, M.Y. [translator]; KALINKO, M.K., doktor geol.-miner. nauk; SHOROKHOVA, L.I., ved. red.; VORONOVA, V., tekhn. red.

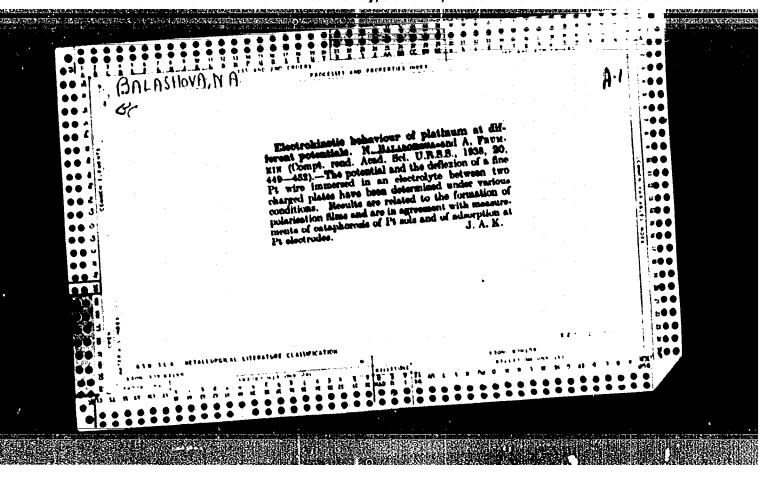
[Geology of possible petroleum provinces in Alaska] Geologiia neftegazonosnykh provintsii Aliaski. Pod red. i s dopolneniiami M.M. Kalinko. Moskva, Gostoptekhizdat, 1961. 181 p. (MIRA 16:6) (Alaska--Petroleum geology)



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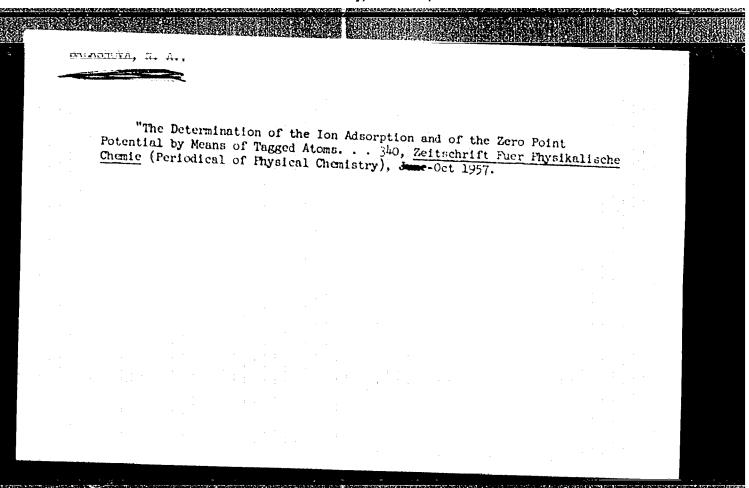


BALASHOVA, N.A.

Use of tagged atoms for studying the adsorption of sulfuric acid on platinized electrodes. Dokl. AN SSSR 103 no.4:636-642 Ag 55.

(MIRA 8:11)

1. Institut fizicheskoy khimii Akademii nauk SSSR. Predstavleno akademikom A.N.Frumkinym (Sulfuric acid) (Adsorption) (Electrochemistry)



BALASHOYA, N.A.; MERKULOVA, N.S.

Tagged atom technique used for structural study of electric double layer and adsorption of ions on metals. Trudy Inst. fiz. khim. no.6:12-19 '57. (MIRA 11:10) (Tracers (Chemistry))

APROCESS AND APPEARANCE AND APPEARAN

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AUTHOR

by N.A. Balashova

PA - 2479

· TITLE

The Present Tasks of Electrochemistry

PERIODICAL

(Aktual'nyye voprosy elektrochimii, Russian) Vestnik Akademii Nauk SSSR 1957, Vol. 27, No. 1, pp. 107-110,

(USSR)

ABSTRACT

Received: 2 May 1957 Reviewed: 4 June 1957 The Division of Chemical Sciences and the Institute of Physical Chemistry of the Academy of Sciences of the USSR organized from 1 to 6 October 1956 a consultative assembly for the treatment of questions of the mechanism of electrochemical processes. This conference encountered greatest possible interest of many representatives of sciences, technology, and industry, and also attracted several renowned foreign scientists (from the United Kingdom, Hungary, the German Democratic Republic, China. Poland. the United States, the Federal Republic of Germany, France, etc.) With about 1000 delegates as participants, this conference was unique in the history of the Soviet Union. Sixty lectures were given during nine plenary meetings, and all lectures were devoted to the fundamental problems of electrochemistry. In addition, five sections were formed to deal with questions of electrochemical regeneration, processes of chemical sources of current, electrolysis of smelt, application of electrolysis in chemical

CARD 1/3

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The Present Tasks of Electrochemistry (Aktual'nyye voprosy elektrochimii, Russian)

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industry, electrodeposition in metals, etc. Altogether eighty lectures were given in the sections. A.H. Frumkin, Member of the Academy, emphasized in his opening lecture that during the last five years electrochemical kinetics has reached the peak of its development and has become a scientific branch of its own. As time passed by, an intensification took place in the attention devoted to phenomena of diffusion, to detailed investigations of the nature of elementary collisions which determine the velocity of electrochemical processes, as well as to the investigation of the structure of the double layer and of the effects of adsorbed ions, mioms and molecules on the kinetics of the reactions. Simultaneously, the relation between different branches of electrochemistry and related branches of science was strengthened. Most of the lectures dealt with general questions of electrotechnical kinetics, furthermore with problems of the processes of the electrochemical regeneration of different anions, of the mechanisms of the processes of the electrochemical oxidation, and with questions of passivism (activation of passive iron etc.) or with questions of electrocrystallization from aqueous solutions. For the first time in a public congress, one of the sections

CARD 2/3

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The Present Tasks of Electrochemistry (Aktual'nyye voprosy elektrochimii, Russian)

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dealth with the questions of electrolysis in the smelt. In addition to the discussions which had been scheduled in the program of the conference, different questions of electrochemistry were discussed in smaller groups of the Soviet and also foreign scientists; this led to a rapprochement of the different views and also helped to establish more intimate contacts between the participating scientists.

ASSOCIATION: PRESENTED BY: SUBMITTED:

AVAILABLE: Library of Congress

CARD 3/3

ne come percentar resulta master de la companya de AUTHOR BALASHOVA, N.A., IVANOV, V.A. and 20-2-37/62 KAZARINOV, V.YO. TITLE Dependence, of Adsorption of Cations on Platinum Electrode Potential. (Zavisimosť adsorbtsii kationov ot potentala platinovogo elektroda. - Russian) PERIODICAL Doklady Akademii Nauk SSSR 1957, Vol 115, Hr 2, pp 356-338 (U.S.S.R.) ABSTRACT For the majority of metals a study of the adsorption of cations on their surface is confileated by the phenomen of exchange between the cations of the metal and the own or foreign solution cations. Such an exchange was not noticed in the case of platinum. This renders the comparison of its electrochemical and adsorptive properties easy. No special studies of this problem are known. Some results by Erbacker and Lorenz do not permit any conclusions on the connection between the adsorption phenomena and the structure of a double electric layer on the surface of the metal. From a number of works with a mercury electrode it could be seen that the anordganic cations (with the exception of thallium ion) do not possess a specific adsorbability. For one-charge CARD 1/4 cations it was found that they even show a certain usga-

Departence of Adsorption of distion in Fraction has the protes

tive adsorption on the mercury of concentrated solutions. According to measurements of capacity the effect of a hyperequivalent adsorption as against a weakly negative charge was only proved for multi-charge cations of lanthanum and thorium. This was explained by the formation of anion-oution pairs which were adsorbed on the mercury surface in a manner that the autor was inclined to the solution. For a study of the structure of this double electric layer it was interesting to determine the dependence of cation adsorption on platinum electrode potential. This was done in the present paper by the method of labeled atoms. Ill. I shows a typical curve of dependence of the adsorption of cesium cations of a sulfurio acid solution on the potential of platinum. All potentials are relative to a normal hydrogen electrode. The results show that the mentioned dependence seems to be more complex than described in publications. A maximum value of cation absorption.occurs in the region of highest negative charge. It apparently somewhat surpasses the value which would be necessary for the formation of a double layer

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CIA-RDP86-00513R000103

Dependence of Adsorption of Cations on Platinum Electrode

on a shift of the potential in a positive direction. This decrease corresponds to the decrease in the negative surface charge. In the zero point, however, the cation adsorption does not amount to zero, In the 0.20-0,45 w. region of potential, which corresponds to the increase in positive surface charge, the adsorption of cations increases. This can be explained with regard to the specific adsorption of anions. That on positive charged platinum the author explains by the hyperequivalent adsorption of anions.

\$04 and \$ClO4 at these potentials. For the first case it was directly proved by the method of labeled atoms. The considerable adsorption of anions noticed in the case of megative and zero charges must lead to an adsorption of cations which must supass that which would correspond to a megative surface charge. The curves recorded for potentials higher

CARD 3/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA REPORT OF STREET

Dependence of Adsorption of Cations on Platinum Electrode Potential.

positive than 0,45 w. are most probably connected with the development of adsorbed oxygen on the surface. The amion adsorption must therefore lead to decrease in cation adsorption; as long as the surface charge remains positive. This explains the decrease of cation adsorption in the 0,45-0,55 region. In the case of greater quantities of adsorbed oxygen the potential shifts to the negative and the electrostatic adsorption of casions increases. After 0,7 w. is reached, the increase in quantity of the adsorbed oxygen is no longer capable of compensating the influence of the increasing positive change in potential. Now the cation adsorption again decreases. Surface oxides may perhaps be concluded from the observed minima and maxima. (2 Illustrations, 9 Slavio references) not given.

ASSOCIATION: PRESENTED BY:

SUMMITTED:

AVAILABLE:

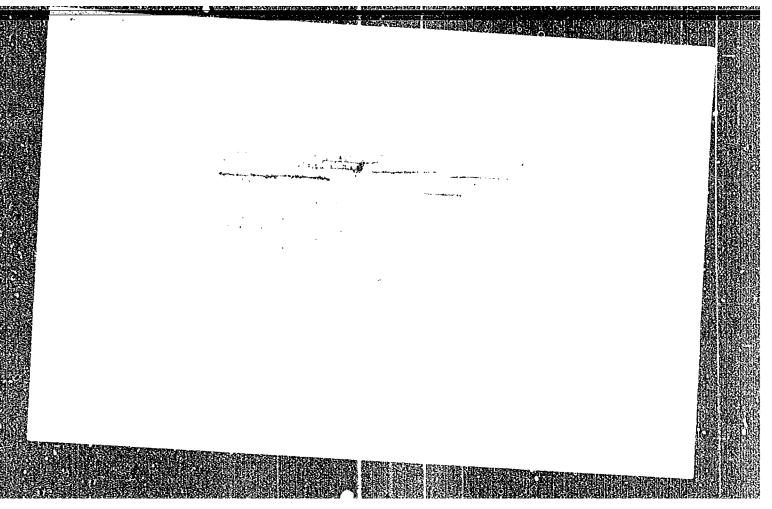
FRUMEIN A.M., Academician, March 8, 1957

Library of Congress.

CARD 4/4

APPROVED FOR RELEASE: Wednesday,

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103



5(4) AUTHOR:

Balashova, N. A.

507/76-32-10-7/39

TITLE:

Adsorption of the Bromide and Iodide Ions on Platinum (Adsorbtsiya ionov broma i yoda na platine)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 10, pp 2266-2273

ABSTRACT:

The investigation of the adsorption of surface active bromide and iodide ions on solid metals is especially important for the explanation of the structure of the binary electric layer in the presence of ions. Investigations in this field had already been carried out by Z. A. Iofa and G. V. Rozhdestvenskaya (Ref 7) and L. A. Mecvedeva and Ya. M. Kolotyrkin (Ref 8). In the present paper investigations of smooth and platinized platinum in acid solutions were carried out with the potential, the duration of the experiment, and the temperature having been modified. The desorption conditions of the bromide and iodide ions from the platinum surface as well as the penetration of the ions into the interior of the metal were also studied. The method of the radioactive indicators was used with I 151 and

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veamerary: June 21, 2000

Adsorption of the Bromide and Iodide Ions on Platinum

In each experiment first the total and then the irreversible adsorption were determined. The platinization was carried out according to a method described in reference 4, and the calculation of the actual surface of the platinized electrodes was carried out by means of data from work by Ershler (Ref 5). The maximum adsorption of iodide on platinized platinum was 3,7.10⁻⁹ gram equivalent/cm² at a potential of 0,4 Volt and after 30 minutes, for bromide it was -0,7.10 gram equivalent/cm2, whereas on smooth platinum a value almost 20 times higher was obtained for iodide. This high value is explained by the different adsorption properties of the smooth and platinized platinum. The increase in total adsorption with the time taking place at the expense of the irreversible adsorption so that both values agree after some hours is explained by an intensification of the bond of the anions with the platinum surface (clearer with iodide than with bromide). A decrease in the bromide and iodide adsorption with an increase in temperature is explained by a continuous migration of the adsorbed particles into the interior of the metal at a

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Adsorption of the Bremide and Iodide Ions on Platinum

velocity higher than that of the adsorption increase with the temperature. The adsorption depends to a great extent on the potential of the Pt electrode; it increases with an increase in positive charge, and it decreases with an increase in the negative charge of the electrode surface. Papers by A. I. Shlygin, A. N. Frumkin and V. I. Medvedovskiy (Ref 4), and by A. D. Obrucheva (Ref 15) are mentioned. There are 3 figures, 3 tables, and 15 references, 15 of which are Soviet.

ASSOCIATION:

Akademiya nauk SSSR, Institut elektrokhimii, Moskva (Moscow Institute of Electrochemistry, AS USSR)

SUBMITTED:

April 18, 1957

Card 3/3

AUTHORS:

Balashova, N. A., Kabanov, B. N.

SOV/20-121-1-35/55

TITLE:

The Electrochemical Behaviour of Zirconium in Sulfurio Acid (Elektrokhimicheskoye povedeniye tsirkoniya v sernoy

kislote)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr. 1,

pp. 126 - 128 (USSR)

ABSTRACT:

In the present paper a report is made on the investigation of the cathodic and anodic behaviour of zirconium and of the no-current time variation of its potential in 1N $\rm H_2SO_4$ at 250. The experiments were performed in a hermetically sealed glass device at a rodlet of zirconium. According to the experimental results the oxide film which had formed on the surface of zirconium when kept in air for some time displaces the stationary potential towards the positive side. For cleaned electrodes the displacement towards the positive side amounts to 0,10 - 0,16 V. The laws found on occasion of cathodic and anodic polarisation of zirconium in 1N H₂SO₄

Card 1/3

speak for a great influence of the oxide films. The cathodic

The Electrochemical Behaviour of Zirconium in Sulfuric Acid

SOY/20-121-1-35/55

curves show a break in the range of potentials from -0,6 to -0,2 V. On both sides of the break the curve of the excess-voltage of hydrogen satisfies the Tafel' equation. The zero point of zirconium according to the work function of the electron seems to be near -1 V. Beginning at very low current densities (1 - 2,10⁻⁵ amperes/cm²) zirconium is very much passivated by an anodic polarisation. At a current density exceeding 10⁻⁴ amperes/cm² a gold-colored film with an effective ohmic resistance of the order of some dozens of ohms is produced. In the case of an inverse course of the curve of anodic polarisation a strong hysteresis can be observed. The oxide film obtained on zirconium by anodic polarisation reduces the velocity of hydrogen separation on zirconium. There are 3 figures and 7 references, 4 of which are Soviet.

ASSOCIATION:

Institut elektrokhimii Akademii nauk SSSR (Institute of Electrochemistry AS USSR)

Card 2/3

The Electrochemical Behaviour of Zirconium in Sulfuric Acid

SOV/20-121-1-35/55

PRESENTED:

March 11, 1958, by A.N.Frumkin, Member, Academy of Sciences,

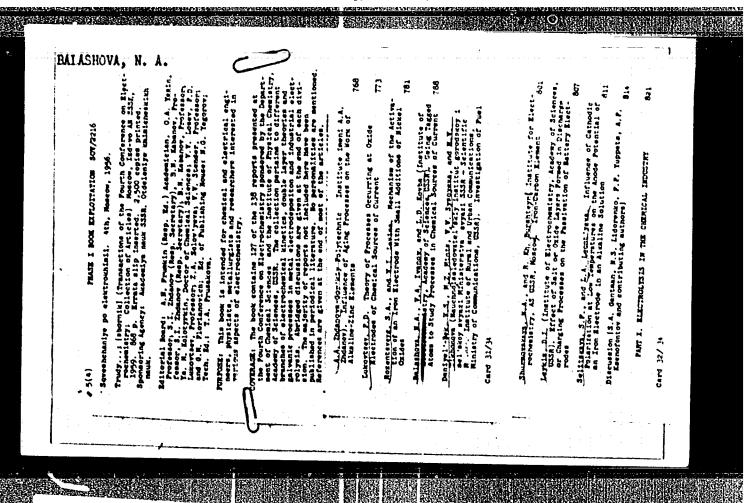
SUBMITTED:

March 7, 1958

1. Zirconium-Electrochemistry 2. Sulfuric acid-Chemical effects

3. Work functions

Card 3/3



APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103

Daren da An

| 5(4), 5(2) AUTHORS: | Kovba, L. D., Balashova, N. A. S07/78-4-1-38/ |
|------------------------|--|
| TITLE: PERIODICAL: | The Determination of the Solubility of Silver Oxides in Alkaline Solutions by the Method of Radioactive Indicat (Opredeleniye rastvorimosti okislov serebra v shcheloch rastvorakh metodom radioaktivnykh indikatorov) Zhurnal neorganicheskov khimii, 1959, Vol 4, Nr 1, pp 225-226 (USSR) |
| ABSTRACT: | in colubility tamperature dependence of all var oxides in active indicators. The radioactive isotope as |
| | after 70-80 hours. At higher temperatures saturation is tained after 10-15 hours. The solubility of Ag ₂ 0 in alka with the data by Johnston and Laue. The dependence of the |
| Card 1/2 | solubility of Ag ₂ O on the concentration of alkali lye at is shown in figure 1. The solubility of Ag ₂ O increases |

The Determination of the Solubility of Silver Oxides in Alkaline Solutions by the Method of Radioactive Indicators

considerably with a rise of the concentration of lye of from 1 to 5 n. In 10 n KOH the solubility of $A\varepsilon_2$ 0 is 6.0.10⁻⁴ equiv./1000 g H₂0. With rising temperature the solubility of Ag₂O increases. At 78° the solubility is four times higher than at 25°. The increase of solubility is not proportional to the rise of temperature. The presence of zinc ions does not influence the solubility of AgO and Ag20. Expariments of the solubility of AgO in alkali solutions did not yield any quantitative results. The authors thank B. N. Kabanov for his assistance. There are 2 figures and 5 references, 1 of which is Soviet.

SUBMITTED:

October 20, 1957

Card 2/2

Wednesday, June 21, 2000

24087

S/186/60/002/006/012/026 A051/A129

21.4200 AUTHORS:

Balashova, N. A., Merkulova, N. S.

TITLE:

The advorption-electrochemical method of separating radioactive

zircomum and niobium

PERIODICAL: Radiokhimiya, v. 2, no. 6, 1960, 699 - 703

The authors, investigated in 1953 a method for separating radioactive zirconium and niobium in aqueous solutions containing in many cases low concentrations of stable isotopes of these elements. The method is based on the use of the difference between the adsorption properties of the zirconium and niobium ions under specially chosen experimental conditions. These conditions are determined by the different state of the ions of these elements in the electrolyte solutions. Nitrate and fluoride solutions of zirconium and niobium salts were used in the experiments. It was noted that in strong cathode polarization pure niobium is deposited on platinum or stainless steel from nitrate or fluoride solutions of a mixture of zirconium and niobium salts, whereas zirconium remains in solution. The hydrogen deposit potential on pla-

Card 1/3

S/186/60/002/006/012/026 A051/A129

The adsorption-electrochemical method

tinum from the acid solution of potassium fluoride was 0.03 M containing niobium and zirconium in concentrations of the order of 10-10 M. Tests showed that the greatest quantity of niobium passes to the electrode at the lowest positive value of the potential. Experiments on separation of niobium from solutions where zirconium is present showed that pure niobium or niobium with various contents of zirconium can be produced.depending on the potential and concentration of these elements in the solution. The deposition of zirconium and niobium in several stages shows the best results. Attention is drawn to the fact that niobium95 is produced in the solution due to the radioactive decay of zirconium95 thus causing impurities in zirconium. If oxalate ions are present in solution the method mentioned cannot be applied. It is suggested that first the oxalate ion be destroyed by oxidation on the anode, then to continue the electrolysis with deposition of niobium. The results obtained led to the conclusion that complete separation of zirconium and niobium is possible by the method suggested. This method is also recommended for a rapid qualitative radiochemical analysis of the isotope mixture of 2r95 and Nb95 at low concentrations of the latter in the solution. In this case it is suggested depositing niobium on the cathode and carrying out a separate analysis of cathode

Card 2/3

The adsorption-electrochemical method

24087 \$/186/60/002/006/012/026 A051/A129

and solution. Various methods are considered for the removal of niobium from the platinum or steel cathodes. One of these is the use of the action of nitric acid to transfer niobium to the solution. It is pointed out that an incomplete transfer of pure niobium is achieved here with only 70 - 90 % of the initial amount removed in one hour. There are 4 figures and 20 references: 12 Scriet-bloc and 8 non-Soviet-bloc. The references to the most recent English language publications read as follows: R. E. Connick, W. H. Reas, J. Am. Chem. Soc., 73, 3, 1171, 1951; B. A. J. Lister, L. A. Mac-Donald J. Chem. Soc., 4315, 1952; E. M. Larsen, A. Gammil, J. Am. Chem. Soc., 72, 8, 3615, 1950; M. E. Holt, J. Electroch. Soc., 98, 1, 33, 1951.

SUBMITTED: January 11, 1960.

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Card 3/3

KAZARINOV, V.Yo.; BALASHOVA, N.A.

Tracer study of iodine adsorption and desorption on smooth platinum. Dokl.AN SSSR 134 no.4:864-867 0 '60. (MIRA 13:9)

1. Institut elektrokhimii Akademii nauk SSSR. Predstavleno akad.
A.H.Frumkinym.
(Iodine--Isotopes) (Platinum--Isotopes) (Sorption)

KAZARINOV, V.Ye.; BALASHCVA, N.A.

Interaction of oxygen with the anions adsorbed on platinum from solution. Dokl. AN SSSR 139 no.3:641-644 Jl *61. (MIRA 14-7)

1. Institut elektrokhimii aN SSSR. Predstavleno akademikom A.N. Frumkinym.

(Cxygen) (Anions) (Adsorption)

APPROVED FOR RELEASES Was needed June 21, 2000.

BALASHOVA, N.A.; ZIMAKIN, G.G.

Extent of ion adsorption on platinum as affected by the thermal and mechanical treatment of the surface. Dokl. AN SSSR 143 no.2:358-361 Mr '62. (MIRA 15:3)

1. Institut elektrokhimii AN SSSR. Predstavleno akademikom A.N.Frumkinym.

(Adsorption) (Metals—Finishing)

BALASHOVA, N.A.; RASHKOV, St.

Effect of the electrolyte acidity on the properties of cobalt electrodeposits. Dckl. AN SSSR 152 no.4:896-898 0 '63.

1. Institut elektrokhimii AN SSSR. Predstavleno akademikom A.N. Frumkinym.

BALASHOVA, N.A.; KABAROV, B.N.; KOVHA, L.D.

Lead transfer in a positive electrode of a lead accumulator.

Zhur. prikl. khim. 37 no. 4:906-908 Ap '64. (MfRA 17:5)

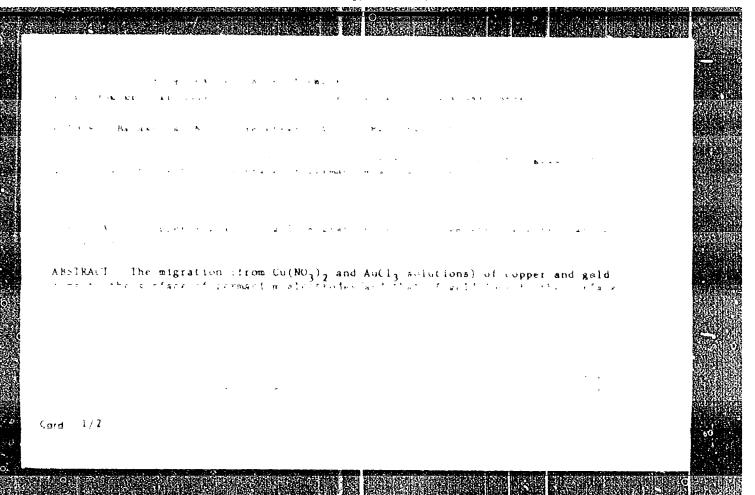
KAZARINOV, V.Ye., BALASHOVA, N.A.

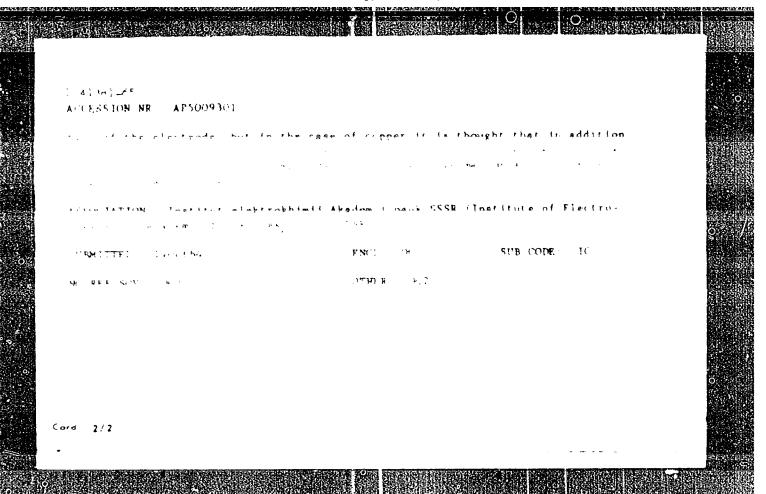
Adsorption of ions as dependent on platinum potential. Dokl. AN SSSR 157 no.5:1174-1177 Ag 164. (MIRA 17:9)

1. Institut elektrokhimii AN SSSR. Predstavleno akademikom A.N. Frumkinym.

PATACHOMA, M.T. Wenhanism of the effect of bivalent cations on the electromediation of caygen on platinum. Electromities in nagrities. (MISA 1816)

1. Indianat elektrokhimis AN 9356.





BALMSHOVA, N.A., KATARINOV, V.Ye.

Relation between the advorption of cations and among on platinum from acid solutions at different potentials. Elektrokhimiza 1 no.5:512-516 Fy 165. (MPA 18:6)

1. Institut elektrokhimil all berff.

KAZARINOV, V.Yo.; RALASHOVA, N.A.; KULEZNEVA, M.I.

Structure of the surface layer on platinum in alkaline solutions. Elektrokhimiia 1 no.8:975-978 Ag 465. (MIRA 18:9)

1. Institut elektrokhimii AN SSSR.

templare of the double electric layer on platinum studied by the medicactive-tracer technique. Uprakhim. 34 no.101771-1772 C 165.

N. Institut elektrokhimii AN SSIR.

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CZECHOSLOVAKIA

and the state of t

KAZARINOV, V. E.; BALASIDVA, N. A.

Institute of Electrochemistry, USSR Academy of Sciences (Institut Elektrokhimii, Akademiia Nauk 885R), Moscow (for both)

Prague, Collection of Casehoslovak Chemical Communications, No 12, Dec 1965, pp 4184-4192

"Study of sulfurie and phespheric acid adsorption on platinum."

BALASHOVA, N.A.; YELETSFIY, V.V.; MEDYNTSEV, V.V.

Effect of various factors on the transfer of copper and gold from aqueous solutions to the surface of germanium and silicon. Elektrokhimia 1 no.3:274-278 Mr 165.

1. Institut elektrokhimii AN SSSR.

(MIRA 18:12)

BALASHOVA, N.A.; KAZARINOV, V.YG.

Electrochemical method of preparation of radioactive solutions of carrier-free iodate. Radiokhimiia 7 no.6:739-741 '65.

(MIRA 19:1)

BALASHOVA, N.A.; PANGAROV, N.A.; SEMFROVA, 2.V.

Connection between the structure of electrolytic deposits of cobalt and their corrosion resistance in sulfuric acid. Zashch, met. 2 no.1:80-84 Ja-F '66. (MIRA 19:1)

1. Institut elektrokhimii AN SSSR. Submitted July 27, 1965.

CZECHOSLOVAKIA

FROMEIN, A.N.; MANSUROV, G. N.; KAZARINOV, V.E.; BALASHOVA, N. A.

Electrochemical Institute, Soviet Academy of Sciences (Institut elektrokhimii, Akademiia nauk SSSR), Moscov (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 2, Peb 1966, pp 806-813

"Study of the adsorption of cadmium cations on a platinum electrode."

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R000103

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L 34392-66 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD/HW/WB
ACC NR: AP6003324 SOURCE CODE: UR/0365/66/002/001/0080/0084

AUTHOR: Balashova, N. A.; Pangarov, N. A.; Semenova, Z. V.

a? B

ORG: Institute of Electrochemistry, AN SSSR (Institut elektrokhimii AN SSSR)

TITLE: Relation between the structure of electrolytic deposits of cobalt and their resistance to corrosion 19 27

SOURCE: Zashchita metallov, v. 2, no. 1, 1966 80-84

TOPIC TAGS: cobalt, electrolytic deposition, corrosion resistance, cobalt compound, crystal orientation, cubic crystal, cathode polarization, boric acid, sulfuric acid

ABSTRACT: The relation between the structure of electrolytic deposits of Co and their resistance to corrosion was investigated with samples precipitated from electrolytes containing pure CoSO4 (500 g/l CoSO4.7H2O), 500 g/l CoSO4 + 45 g/l H3BO3, and 500 g/l CoSO4 + 45 g/l H3BO3 + halide (4 x 10-3 N KCl, KBr, or KI). The temperature, pH of the electrolyte, and the current density varied during the experiments. Two parallel Co plates, with Pt cathode (surface 2 cm²) between them were used as anodes. The electrolysis was made for 2 - 2.5 hr at constant mixing of the electrolyte. Card 1/3

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CIA-RDP86-00513R000103

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ACC NR: AP6003324

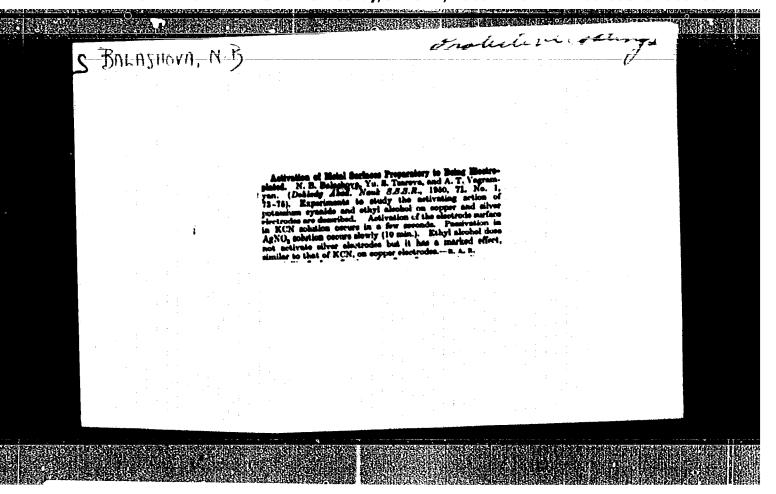
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The deposits were rinsed with bidistilled H2O, subjected to a X-ray diffraction study, and then dissolved in 5 \overline{N} H₂SO₄ at 20 - 23C in the atmosphere. All deposits obtained had hexagonal lattice with different planes of prodominant orientation. The temperature, pH, and composition of the electrolyte considerably affected the direction and perfection of the deposit structure. In an ordinary CoSO4 electrolyte with the addition of $H_{7}BO_{7}$, the deposit was oriented predominantly by face (1010) parallel to the cathode surface. An increase of the pH from 1.6 to 5 improved the structure orientation and decreased the scattering of the deposit particles. In the electrolyte without HyBO3, the plane of the base (0001) was parallel to the cathode surface. No cubic modification of Co crystals was formed during the experiment. The predominant orientation of the Co crystals correlated with the changes of overvoltage of the discharge of Co ions: the cathode polarization was 200 - 300 mv higher during the formation of deposits, having an orientation (0001), than in deposits with the orientation (1010). The rate of dissolving of Co deposits in H2SO4 changed correspondingly. The predominant orientation in the direction (0001) provided for higher stability of the Co deposits than the orientation (1010). The single-phase deposits of hexagonal Co with the orientation (1010) were formed in the presence of Cl- and Br- ions. In iodide solutions the

Card 2/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R000103



BALASHOVA N.I.; LOVACHEVA, M.V.; SELIVANOVA, Ye.P.; ZHIVILIN, N.N.;
MANYAKIN, V.I., red.; SLEMZIN, A.A., red.; PYATAKOVA, H.D., tekhn.red.

[Certified seed sowing in the U.S.S.R. (grain and sunflower); a statistical manual] Sortovye posevy SSSR (zernovye kul'tury i podsolnechnik); statisticheskiy sbornik. Moskva, Gos.stat. izd-vo, 1957. 422 p. (MIRA 11:1)

1. Chlen Kollegii Wentral'nogo statisticheskogo upravleniya SSSR (for Manyakin). 2. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye upravleniye.

(Field crops)

KRZHEMINSKIY, S.A., kand.tekhn.nauk; KRYZHANOVSKIY, B.B., inzh.; KAMEYKO, V.A., kand.tekhn.nauk; LEVIN, N.I., kand.tekhn.nauk; BALASHOVA, N.H., inzh.; SHUTILO, L.I., inzh.

The technology and basic physicomechanical properties of air-entrained silicate and air-entrained cinder silicate used as insulating materials. Sbor. trud. ROSNIIMS no.20:36-51 '61.

(MIRA 16:1)

(Insulating materials) (Sand-lime products)

APPROVED FOR RETEASE Wednesday time 21 2000 CTA-RDP86-00513R000103

KAZNACHEY, B.YA.; BALASHOVA, N.N.

Manufacture of the first original disk (stamper) from a recording disk. Trudy VNAIZ no.5:97-109 159. (MIRA 15:4) (Phonorecords)

S/137/62/000/009/025/033 A006/A101

AUTHORS:

Kaznachey, B. Ya., Balashova, N. N., Rozhdestvenskaya, A. K.

TITLE:

Electrodeposition of nickel with low internal stresses out of sul-

famic electrolytes

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 9, 1962, 122, abstract 91791 ("Tr. Vses. n.-i. in-ta zvukozapisi", 1961, no. 9, 157 - 168)

TEXT: Internal stresses in Ni deposits obtained out of sulfamic electrolytes without admixtures, are much lower (by 1,000 - 2,000 kg/cm²) than in deposits obtained from sulfuric acid electrolytes. In this connection sulfamic electrolytes are recommended for galvanoplastics and precipitation of thick Ni deposits. Contamination of sulfamic electrolytes with mechanical organic and metallic impurities increases internal stresses. A method is mentioned for electrolyte refining. Internal stresses in Ni deposits obtained in sulfamic electrolytes increase with higher $D_{\rm C}$ and pH of the electrolyte and decrease at elevated temperatures. The considerable proneness to pitting in sulfamic electrolytes is explained by high surface tension of the electrolyte (as compared to sulfuric

Card 1/2

Electrodeposition of nickel with ...

8/137/62/000/009/025/033 A006/A101

acid electrolyte). The addition of 0.1 - 1.0 g/l Na-laurylsulfate (I) reduces surface tension and eliminates pitting. (I) can be well combined with admixtures to reduce internal stresses. Hydrolysis of sulfamic electrolytes increases internal stresses in Ni-deposits. Refining of sulfamic electrolytes from SO2-ions may be performed by Ba(OH)2 precipitation. There are 17 references.

Authors' summary

[Abstracter's note: Complete translation]

Card 2/2

Selashova, C. C.

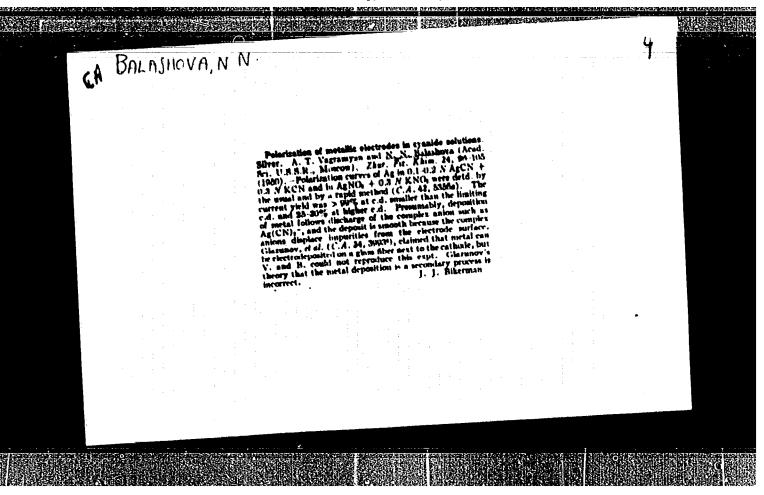
Dissertation: "Blackroclytis Reposition of Retals."

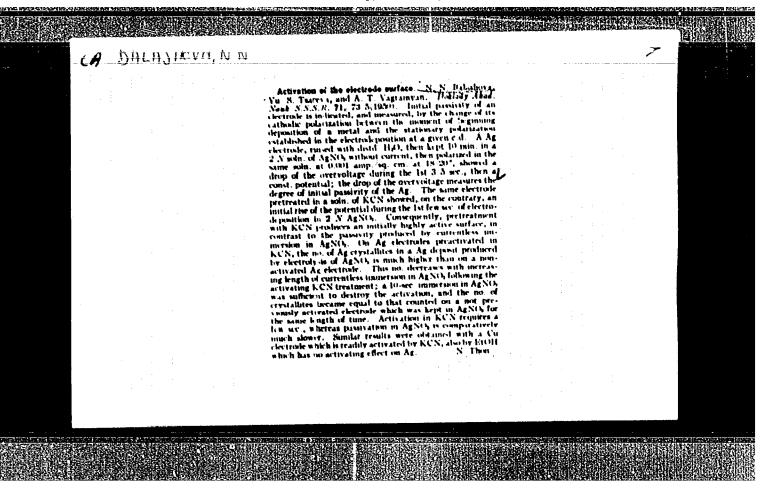
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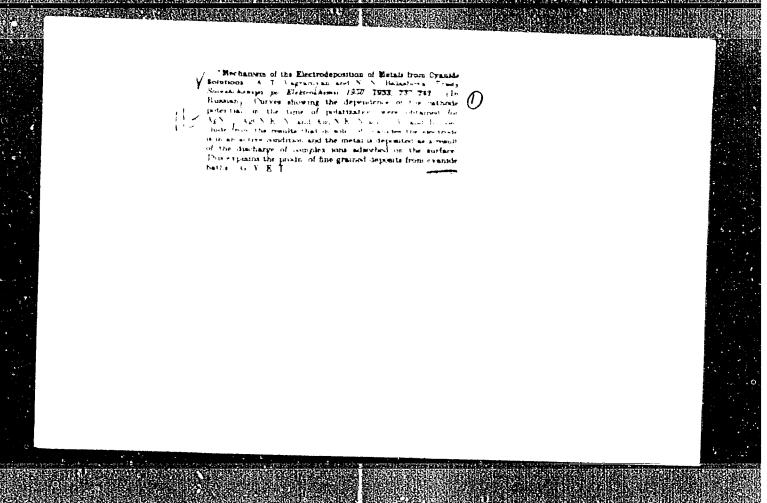
Roscow Order of Lenin Themicotechnolo, ical Inst iment D. I. Bendels ev.

SO Vecheryaya Moskva

Sum 71







HALIVKIN, D.V., akademik, redaktor; MENHER, V.V., redaktor; RAUZER-CHER-HOUSOVA, D.M.; REYTLINGER, Ye.A.; BALASHOVA, M.H.; DALMATSKAYA, I.I.; CHERNOVA, Ye.I.

. ער ער דוארוניין דואר אויי

[Regional stratigraphy of the U.S.S.R.] Regional nais stratigraflia SSSR. Vol. 2. [Stratigraphy of the middle carboniferous deposits in the central and eastern parts of the Russian Platform;
on the basis of foraminifera study] Stratigrafiia srednekamennougol'nykh otloshenii tsentral'noi i vostochnoi chastei Russkoi platformy; na osnove isucheniia foraminifer. Pt. 1. [The Moscow Basin]
Moskovskaia sineklisa, Glav. red. D.V. Walivkin, V.V. Menner. Moskva, Isd-vo Akademii nauk SSSR. 1954. 270 p. (MIRAS:2)

1. Akademiya nauk SSSR. Institut geologicheskikh nauk. (Moscow Basin--Geology, Stratigraphic)

APPROVED FOR REEKSE WEINGSON JUNE 2 - TORCE TO BE TURBOUT BROOM OF

15-57-5-5769

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,

p 9 (USSR)

and the the North

AUTHORS: Reytlinger, Ye. A., Balashova, N. N.

TITLE:

Stratigraphy of the Middle Carboniferous Strata in Rzhev Volga District (Stratigrafiya srednekamennougol'-

nykh otlozheniy Rzhevskogo Povolzh'ya)

V sb: Regional'naya stratigrafiya SSSR, Vol 2, Moscow, Izd-vo AN SSSR, 1954, pp 121-200. PERIODICAL:

ABSTRACT: Bibliographic entry

Card 1/1

32-7-23/49

O.

AUTHORS:

Rachkulik, V.J., Berman, M.L., Balashova, N.N.

TITLE:

Short Reports

(Korotkiya soobshcheniya)

711 - Ar ...

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol.23, Nr 7, pp. 829 - 829 (USSR)

ABSTRACT:

On this basis of the investigation of the luminescence properties of rubber mixtures and - ingredients used in the cable industry the advantages offered by the method of luminescence for an accelerated control of the quality of rubber mixtures and ingredients are determined. By means of this method it is possible to determine the purity and quality of the component of rubber admixtures and to detect serious faults existing in these mixtures; furthermore, it is possible to sort out rubber and rubber substances of apparently similar character. N.N. Balashova developed a method for the determination of the strength of galvanically applied silver coatings. A solution of 10 g chrome anhydride in 1 litre 0,1-h sulphuric acid was used for the coating of copper, brass, iron, nickel, and other metals with silver without any destructive effects.

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

32-7-23/49

Short Reports

ASSOCIATION:

Tashkent Branch of the Cable Industry Institute (Tashkentskoye otdeleniye instituta kabel'noy promyshlennosti)

Scientific Research Institute for the Recording of Sound

(Nauchno-issledovatel'skiy institut zvukozapisi)

AVAILABLE:

Library of Congress

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

BALASHOVA, N.N., mladshiy nauchnyy sotrudnik

Resistance of table peas to the lima bean pod borer. Zashch. rast. ot vred. i bol. 6 no.12:45 D '61. (MIRA 16:5)

1. Moldavskiy institut oroshayemogo zemledeliya i ovoshchevodstva, Tiraspol!.

ACCESSION NR: AP4018073

S/0119/64/000/002/0012/0013

AUTHOR: Balashova, N. N.; Smagunova, N. A.; Tovpinets, Ye. I.

TITLE: Reducing porosity of nickel coating

SOURCE: Priborostroyeniye, no. 2, 1964, 12-13

TOPIC TAGS: nickel plating, nickel coating, nickel coating porosity, nickel electroplating, electroplating

ABSTRACT: An experimental investigation of the effect of additives to (a) nickel electrolytes or (b) cleaning liquors upon the porosity of nickel coating is described. Cation-active, anion-active, and nonionogen additives were tested; each test was conducted with power on and power off, and the results were evaluated by a microscopic count of visible pores per 1 cm². These results with additions to the electrolyte are reported:

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| ACCESSION | NR: | AP401 | 8072 |
|-----------|-----|-------|------|
| | | | |

| Additive: | Power | |
|---|-------------------|-------------------|
| vaditiAe: | On | Off 10-15 sec |
| None Sodium lauryl sulfate French tipol | 500 500 500 | 500 120 130 |

And with additions to cleaning liquors:

| Class: | Additive: | Pore Count: Power | |
|-------------------------------|---|------------------------|-------------------------|
| | 110011140: | On | 110 |
| Cation Anion Nonionogen | None Alkamon D Sodium lauryl sulfate OP-7 | 500 90 500 28 | 500 330 390 23 |

Cord 2/3

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It is recommended that the parts to be nickel-plated be washed in a water bath to which 1-1.5 g/lit of OP-7 or OP-10 has been added. Orig. art. has: 2 figures

ASSOCIATION: NIIChasprom (Scientific Research Institute of Clock Industry)

SUBMITTED: 00

DATE ACQ: 18Mar64

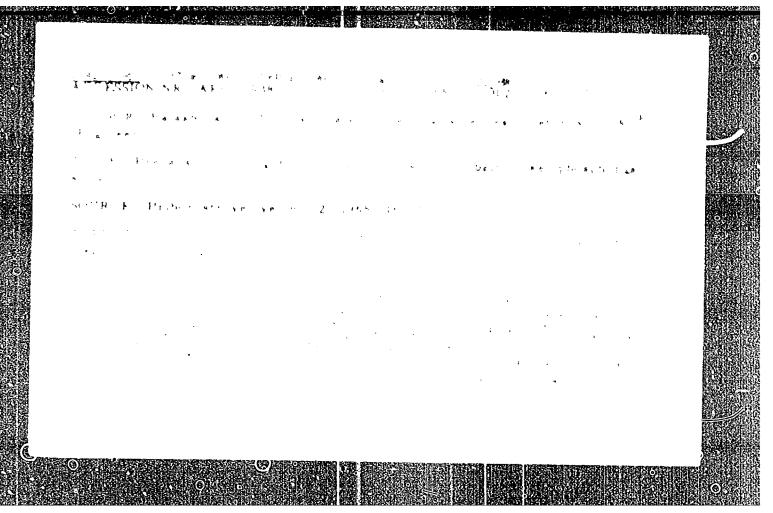
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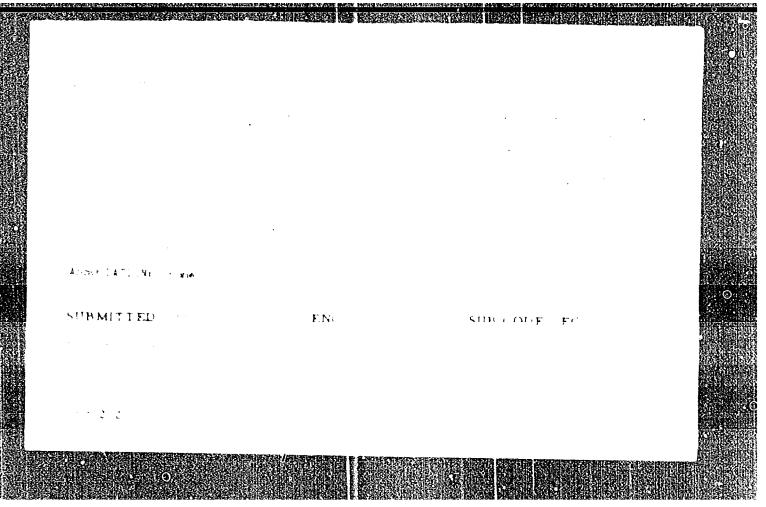
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NO REF SOV: 004

OTHER: 004 '

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BALASHOVA, N.N.; YEFIMOV, I.A.

Improvement of the method for determining the surface tension at the solution - air interface. Zav. lab. 30 no.11:1367-1368
(MIRA 18:1)

1. Opytno-konstruktorskoye byuro avtomatiki.

BulkSheva, b.h.

Effect of surface-active agents on the percently of micetrolytic zine contings. There fire kein. 3d no.7:1830-1833 of tea. (USFA 18:3)

1. Vsesoyuznyy racchnyy politekhaicheskiy institut.

BALASHOVA, N.N., kand. khim. nauk; YEFIMOV, J.A., inzh.

Obtaining bright electrolytic depositions from cobalt-nickelphosphor alloy. Priborostroenia no.2:16-17 F '65.

(MIRA 18+3)

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