

PROCESSES AND PROPERTIES INDEX

Ferric compounds obtained by reducing nitrobenzene with metallic iron. I. L. Raskin. *J. Applied Chem. U.S.S.R.* 19, 118 (1946). The object was the investigation of the conditions controlling the color of the oxides formed by the reduction of PhNO₂ in the presence of Fe. The expts. were undertaken to investigate the possibility of using colored Fe oxides as pigments. The color and the nature of the ppt. obtained by this reduction process depend on the nature of the electrolyte. Electrolytes consisting of nonhydrolyzing heavy-metal salts (Fe, Mn, Zn) and salts of the alkali or alk. earth metals give a black ppt. formed either by Fe₂O₃ or by a mixt. of Fe₂O₃ and FeO. Electrolytes consisting of salts which hydrolyze (Al, Cr, Sn) give oxides whose compn. and color depend on the nature and concn. of the electrolyte. At low concns. the oxide formed is black Fe₂O₃; when the concn. is increased to a certain limit characteristic of each electrolyte yellow oxides appear. The shade of these oxides can vary from light yellow to reddish brown, depending on the different mixts. of oxides and hydroxides formed. These results and a preliminary investigation of direct interaction between various electrolytes and Fe lead to the following conclusions: The reduction of nitrobenzene is affected mainly by the products of hydrolysis of the electrolyte used in the reaction and not by the salts initially present in the soln. The color of the ppt. formed is unaffected by the hydroxides of metals which cannot hydrolyze but is detd. by the electrolytes which can hydrolyze; Al salts appear to be the most efficient. II. Light-yellow ferric hydrate methods of obtaining and technical properties. I. Raskin and T. Velikoslavinskaya. *Ibid.* 202-70. With AlCl₃ as the concn. is increased, the oxides formed pass from a mixt. of Fe₂O₃ and FeO (low concn.) to pure Fe₂O₃, and finally to a stable hydrated oxide which does not change on further increase of the concn. of AlCl₃. The color of the ppts., however, varies continuously even when the compn. remains const. With AlCl₃ + FeCl₃ the optimum color and compn. of the ppt. corresponding to 20% AlCl₃ can be reproduced with 7% AlCl₃ if an adequate amt. of FeCl₃ is present in the soln., the total amt. of Fe ions corresponding to the result of the reaction between Fe and 20% AlCl₃ in absence of FeCl₃. The presence of FeCl₃ in the electrolyte not only stimulates the reduction reaction but also conditions the color and the compn. of the desired ppt. When FeCl₃ is replaced by other types of chlorides, it becomes impossible to obtain iron hydroxide in general, and the yellow hydroxide in particular, even in presence of important proportions of AlCl₃. The presence of aluminum sulfate reduces the velocity of reduction (while iron sulfate does not); the ppt. is dull, and its color changes when it is mixed with oil. Impurities present in the Fe affect the shade and the purity of the color. The hydroxide formed in a mixt. of AlCl₃ + FeCl₃ gives a pigment whose oil absorption is low and whose covering capacity is higher than those of other com. metallic pigments. III. Influence of certain factors on the composition and color of

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METALLURGICAL LITERATURE CLASSIFICATION

SIGNATURE

REVISION

DATE

PROCESSES AND PROPERTIES INDEX

B-11-9

BC

Preparation of zinc chromates (zinc chromes, zinc yellow). II. J. HANSEN (with M. CHAMER). III. Use of sodium dichromate for preparation of zinc chromates. I. RASCH and G. PUGATSCHEVA (*J. Appl. Chem. Russ.*, 1939, **12**, 1691-1691, 1759-1759; *cf. B.*, 1940, 68).—II. The composition of the chromates obtained by treating ZnO with acid aq. $K_2Cr_2O_7$ varies between the limits $K_2O, 4ZnO, 6CrO_3, 3H_2O$ (I) and $4ZnO, CrO_3, H_2O$ (II). (I) is quantitatively converted into (II) by treatment with hot H_2O . The depth of colour, covering capacity, and light-fastness of yellow enamels increases as the K and CrO_3 contents of the complexes rise. III. Aq. $Na_2Cr_2O_7$ and $Zn(OH)_2$, $ZnCO_3$ or basic Zn salts give ppt. varying in composition from $4ZnO, CrO_3, 3H_2O$ to $4ZnO, 6CrO_3, Na_2O, 2H_2O$; the yield, colour intensity, covering power, and rate of sedimentation of the ppt. rise with increasing Na_2O and CrO_3 content. The best results are obtained when ZnO , $Na_2Cr_2O_7$, and HCl are taken in the proportions 1:1.5:6.2. The ppt. are more sol. than are the corresponding K salts. The solubility of the ppt. obtained with 1:1 $K_2Cr_2O_7-Na_2Cr_2O_7$ —that with $K_2Cr_2O_7$ alone. R. T.

METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL DIVISIONS

SUBJECT ONE ONLY LIST

1ST AND 2ND CROSES
PROCESSES AND PROPERTIES INDEX
3RD AND 4TH CROSES

BC 9-T-8

Preparation of zinc chromates. I. RISKIN (J. Appl. Chem. Russ., 1939, 12, 686-696).—The prep. of Zn chromates from ZnO, H₂SO₄ or HCl, and K₂Cr₂O₇ (I) is discussed. Part of the ZnO is pred. as the basic salt 4Zn(OH)₂ZnSO₄ or 4Zn(OH)₂ZnCl₂·H₂O and part remains in solution as ZnSO₄ or ZnCl₂. Chromates of different composition are obtained by adding varying quantities of (I) to ZnO pretreated with acid. The composition of the product is 4ZnO·CrO₃·(x/y)K₂O·3H₂O, where x is 1-4 and y = 4 for pigment-quality chromates. The mechanism of the process of formation of complex chromates in the reaction between aq. solutions of ZnSO₄ or ZnCl₂ with (I) is discussed. D. G.

438-31A METALLURGICAL LITERATURE CLASSIFICATION

GENERAL INDEX

1ST AND 2ND CROSES

3RD AND 4TH CROSES

Preparation of ferric oxide by various oxidation methods.
III. The oxidation of metallic iron by air in the presence of ferrous oxide and accelerators. I. Riskin and G. Pugacheva. *J. Applied Chem. (U. S. S. R.)* 11, 1085-9 (in German, 1000) (1938); cf. *C. A.* 33, 1810^g.—Addn. of AcOH or NaOAc (not more than 7% by wt. of FeSO₄·7H₂O) to the FeSO₄ or FeCl₃ soln. increased the velocity of oxidation by O of the air at 80° of Fe suspended into the soln. by 3.4 times. The product of the reaction had the

following compn.: Fe₂O₃ 87.5, SO₃ 1.2 and H₂O 10.12%. The reaction proceeded practically without utilization of FeSO₄ or soda. The expenditure of NaOAc was 10% of the wt. of hydrate obtained. The color and covering power of the hydrate obtained make it a very important product for the lacquer and paint industry. A. A. P.

AS W. S. S. R. METALLURGICAL LITERATURE CLASSIFICATION

2h

26

Preparation of zinc chromates. III. Application of sodium chromate for the preparation of zinc chromates. I. Riskin and G. Pugacheva. *J. Applied Chem. (U. S. S. R.)* 12, 1780 (1939); *U. S. A. 34, 7628*. Zinc chromates varying from $4ZnO \cdot CrO_3 \cdot 3H_2O$ to $12ZnO \cdot CrO_3 \cdot Na_2O \cdot 3H_2O$ can be obtained by the interaction of ZnO , $Zn(OH)_2$, $ZnCO_3$ and basic Zn salts and $Na_2Cr_2O_7$. The yield of the pigment increases with the increase of the content of CrO_3 and Na_2O and its properties are also improved. Not more than 18-22% HCl of the wt. of ZnO should be introduced in the prepn. of Zn chromates from $Na_2Cr_2O_7$. An increase of the amt. of acid increases the losses of $Na_2Cr_2O_7$ and Zn, which are carried off by the mother lye. The formation of chromates is more complete with HCl than with H_2SO_4 . Zn chromates prepd. from $Na_2Cr_2O_7$ are more sol. than those prepd. from $K_2Cr_2O_7$. The smallest amts. of water should be used in washing the chromates from $Na_2Cr_2O_7$ because of their high solv. Details of the expts. are given. A. A. B.

Ferric iron compounds obtained in reducing nitrobenzene with metallic iron. IV. Mechanism of formation of precipitates having different compositions and colors.

I. Reskin. *Applied Chem. (U.S.S.R.)* 19, 589 (1966). The presence of FeCl₃ in the electrolyte leads to the formation of hydrohematite. Al(OH)₃ is mainly responsible for the appearance of Fe₂O₃. The velocity of formation of Fe(OH)₂, which depends on the composition of the medium, affects the oxidation process because it regulates the concomitant action of the other agents present in the electrolyte. When the velocity of formation of Fe(OH)₂ is low the ppt. contains compounds of higher degree of oxidation and hydration than when the velocity of formation of Fe(OH)₂ is high. All three factors acting simultaneously affect the oxidation process and in particular lead to the formation of the light yellow Fe(OH)₂, difficult to obtain by ordinary means. These factors play the same role in the oxidation of Fe(OH)₂ by oxidizing agents and in the oxidation of iron by nitrobenzene; in the latter case, however, the amount of Al(OH)₃ necessary for the formation of Fe(OH)₂ is much smaller. The shades of the ppts. change without an appreciable variation in

the composition. *Mechanism of oxidation*. The order of increasing difficulty with which the various oxides are obtained is Fe₂O₃, Fe₃O₄, hydrohematite, Fe(OH)₂. The type of oxide depends on the composition of the electrolyte. The following general scheme of mechanism suggested for the oxidation is: Fe is converted to Fe(OH)₂, which is partially oxidized to yellow Fe(OH)₂ and to Fe(OH)₃; Fe(OH)₂ reacts with Fe(OH)₃ to give an unstable compound of the type Fe(OH)₂·nFe(OH)₃, which according to the conditions of oxidation yields either a stable Fe₂O₃ or an unstable Fe(OH)₂ that gives on heating Fe₂O₃ and hydrohematite.

N. Goldowski

ATM 514 METALS LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

1a

25

The crystal-optical constants of pigment dyes in relation to technical properties. I. I. Riskin and T. Zamat-skaya. *J. Applied Chem.* (U. S. S. R.) 43, 1500-1601 (in French, 1961)(1969). Eleven pigments of azo, indanthrene, algal and nitro dye groups were used. All the pigments were anisotropic and had high indexes of refraction, n_p . Insol. azo dye pigments had high double refraction. The detn. of optical constns. can be used (together with other methods) for identification of the pigment. The covering power of pigments is directly proportional to n_p .
A. A. Podbunov

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

B-I-8

Preparation of ferric oxide by various oxidative procedures. I. L. BURGIE (J. Appl. Chem. Res., 1958, 31, 21-24). Ferric oxide from basic sulphates or chlorides is obtained by passing air or O₂ through a solution of FeSO₄ or FeCl₂ containing Fe impurities at 100°C, or by heating the solution with KClO₃ at 50°C (1-2 hr.). The properties of the product vary widely, according to the conditions of the experiment (temp., [KClO₃], pressure, nature of anion). R. T.

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

WATERGATE INDEX

GROUPS

LETTERS

GROUPS

LETTERS

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

BC

B-2-4

Optical constants of pigment dyes, and the relation between these and the technological properties of these dyes. L. I. Ribin and T. Zimovskaja (*J. Appl. Chem. Russ.*, 1940, 18, 1804-1808).—The crystals of a group of org. pigments exhibit marked anisotropy > that of H₂O-sol. dyes. The covering power of the pigments varies roughly parallel with the higher of the two n of a given dye. R. T.

COMMON ELEMENTS

COMMON VARIABLE INDEX

OPEN

MATERIALS INDEX

ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

SHAPIRO, I.S.; RISKIN, I.V.; GUREVICH, Ya.M.

[Technology of mineral pigments] Tekhnologiya mineral'nykh
pigmentov. Pod red. I.A.M.Gurevich. Leningrad, Red.khim.lit-ry,
1939. 271 p. (MLRA 7:2)
(Pigments)

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH ORDERS	
COMMON ELEMENTS		OPEN MATERIALS MODEL		COMMON ELEMENTS	
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	
BC					
RED FERRIC OXIDE PIGMENTS. I.V. Riskin, I.P. Kuroslavskaja, and G.I. Pugatsova (From. Eng. Chem., 1939, 6, 148-151).-- Fe ₂ O ₃ obtained from FeSO ₄ at 700° has a pure red colour, but contains small amounts of FeSO ₄ , necessitating extraction with hot H ₂ O. At 800° decamp. is complete, but the product has a greyish-blue tinge. Presence of Al ₂ (SO ₄) ₃ , ZnSO ₄ , or NaCl does not affect the results. In presence of Na ₂ CO ₃ , the optimum temp. is 600°. The same type of pigment is obtained by pptn. of Fe(OH) ₂ from aq. FeSO ₄ , followed by oxidation with KClO ₃ ; the Fe(OH) ₃ is dried and heated at 600-700°. A pigment of the type of Mars-red is obtained from light-coloured Fe(OH) ₃ (prepared by low-temp. oxidation with atm. O ₂), by heating at 400°. (R.T.)					
B-II-8					
A S B - S L A METALLURGICAL LITERATURE CLASSIFICATION					
1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH ORDERS	
COMMON ELEMENTS		OPEN MATERIALS MODEL		COMMON ELEMENTS	
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	

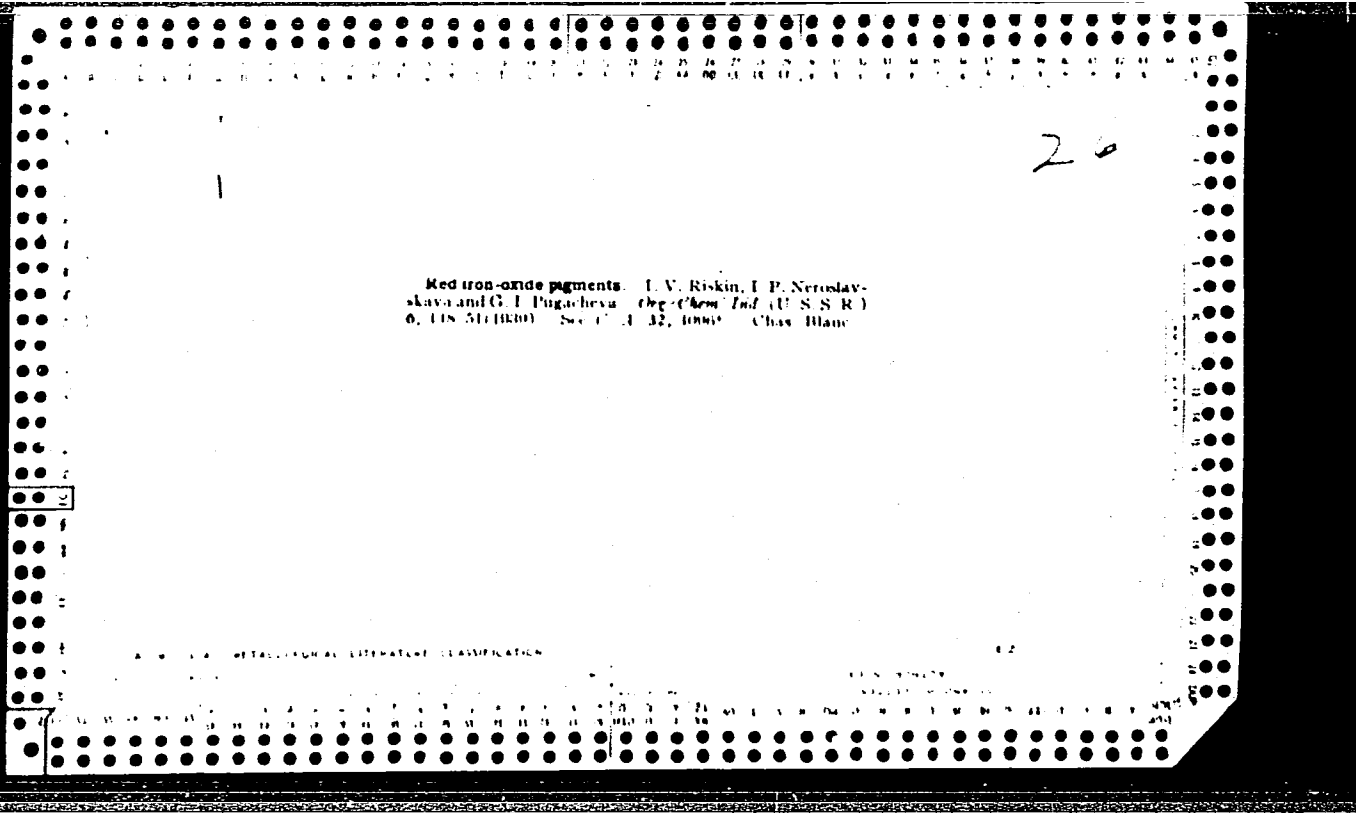
26

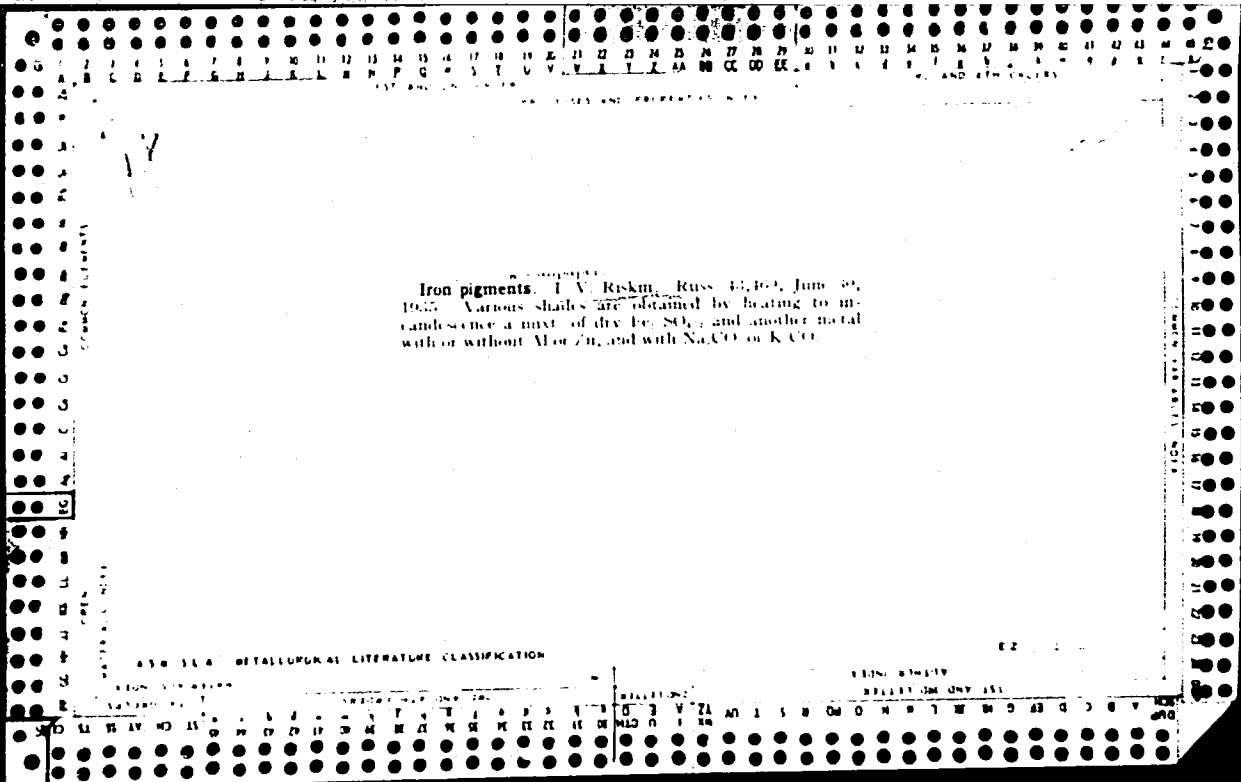
1A

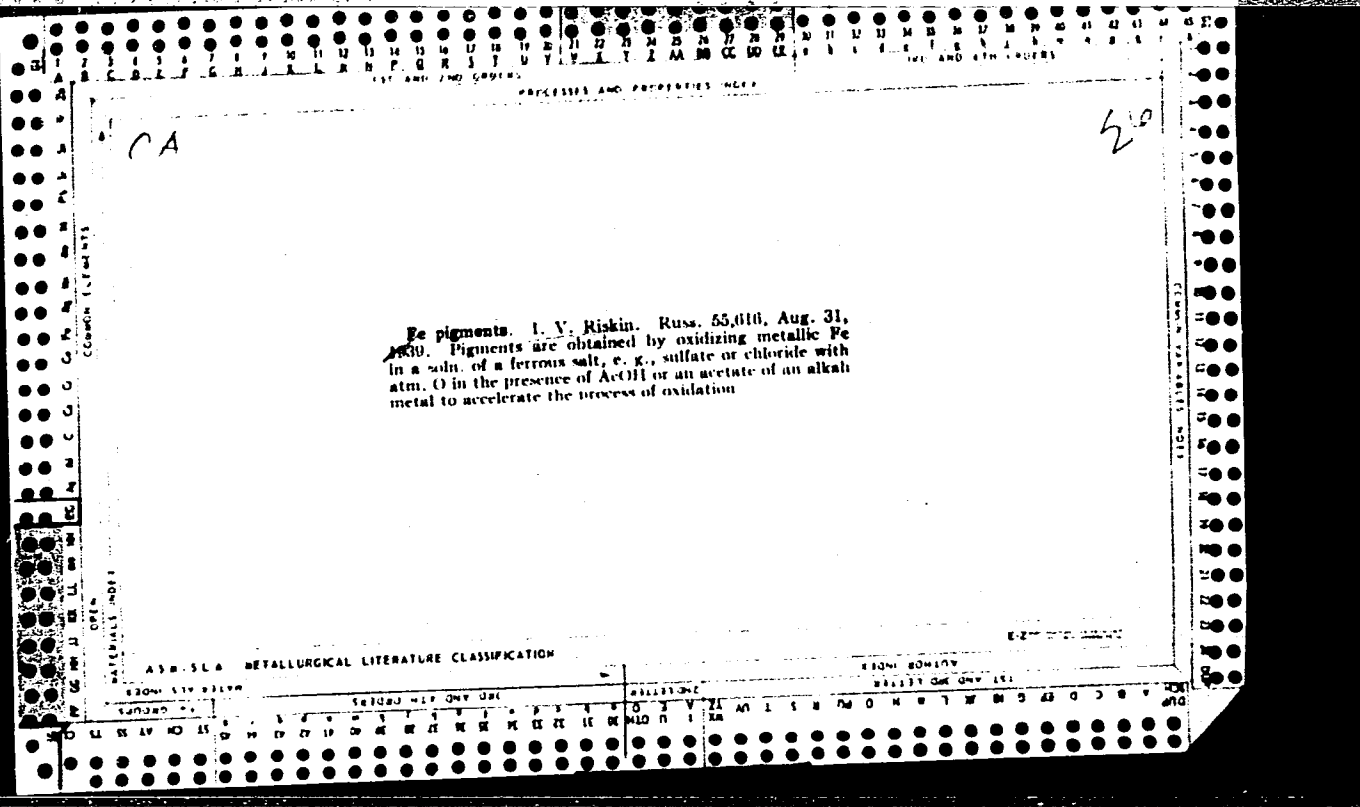
Preparation of zinc chromates. I. I. V. Riskin, G. Pugaheva and O. Gulvaeva. *J. Applied Chem.* (U.S.S.R.) 12, 683 (9) in German, 690 (1969). The conditions for prep. Zn chromates were investigated. Upon a treatment with HCl or H₂SO₄, the part of ZnO goes into soln. as ZnCl₂ or ZnSO₄ and part ppt. as 4Zn(OH)₂·ZnCl₂·H₂O or 4Zn(OH)₂·ZnSO₄. This distribution of ZnO depends on the amt. of acid used which should not be less than required by the ratio 5ZnO + 2HCl and 5ZnO + H₂SO₄. The reaction of ZnO with various amts. of Na₂Cr₂O₇ or K₂Cr₂O₇ yields Zn chromates of various compos. of general formula 4ZnO·xCrO₃·yK₂O·3H₂O, where x is varying from 1 to 1 and y = 4 for tech. valuable yellow pigments. The reaction between an aq. ZnSO₄ or ZnCl₂ solns. and K₂Cr₂O₇ or Na₂Cr₂O₇ can be represented by the equation: 4ZnSO₄ + 6K₂Cr₂O₇ + 3H₂O = 4ZnO·4CrO₃·K₂O·3H₂O + K₂Cr₂O₇ + 0.4K₂Cr₂O₇ + 4K₂SO₄ (ZnCl₂ reacts in the similar manner). In the beginning of the reaction as a result of hydrolysis, the Zn salts are transformed into basic salts and chromate into dichromate, then the basic Zn salt forms with dichromate the compd. 4ZnO·xCrO₃·K₂O·H₂O. A. A. Polkovny

AS 6 31 A METALLURGICAL LITERATURE CLASSIFICATION

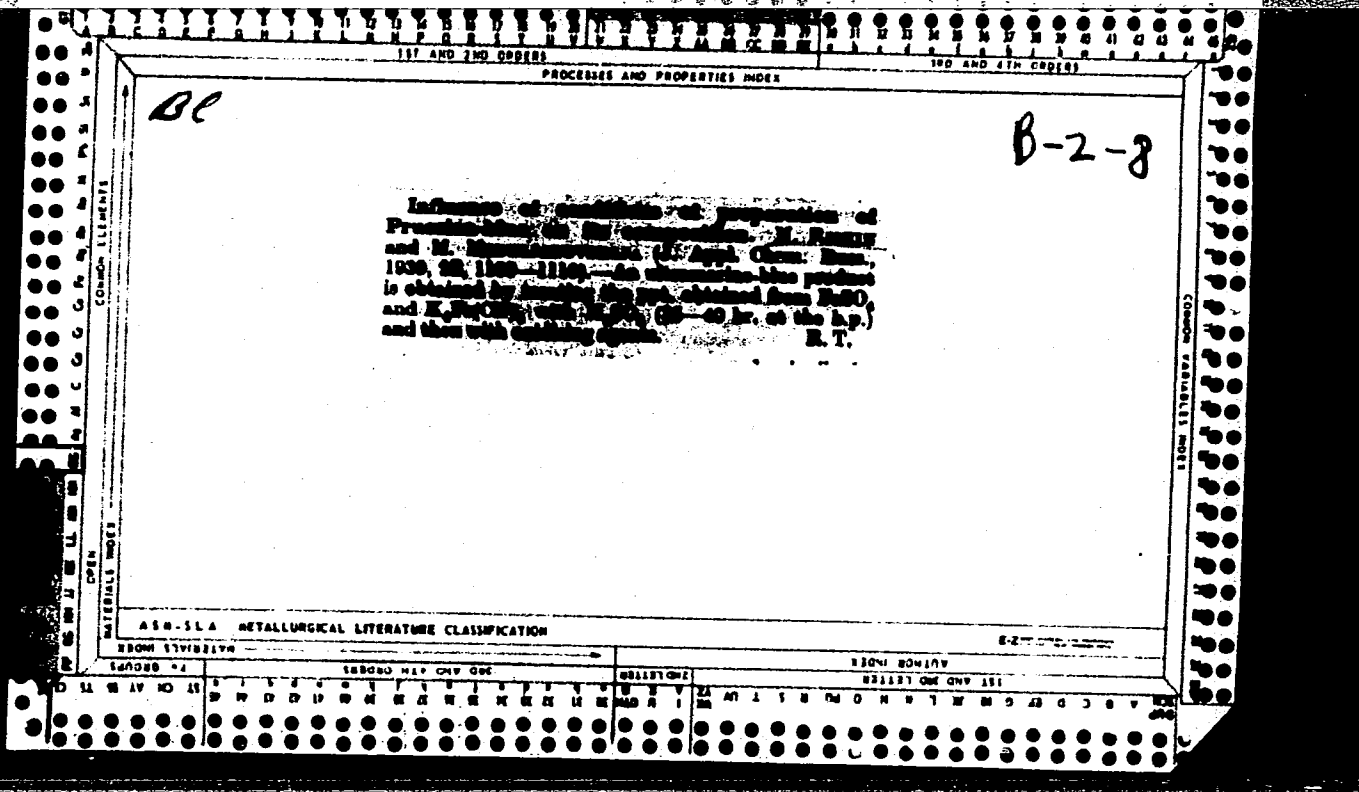
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... ..
... .., 1977, (11), 177, 178-179



RISKIN, M.A.; SHPIL'BERG, B.A.; GETSKIN, I.S.

First plant testing of a flow chart for refining siderite at
zinc plants. TSvet. met. 37 no.12/38-43 D 362 (MIRA 1842)

Riskin, V. Ya.
RISKIN, V. Ya., kand. tekhn. nauk.

Our achievements and tasks. Zav. lab. 23 no. 10:1243-1244
157

(MIRA 10:12)

1. Rukovoditel' gruppy eksperimental'nogo tsekha Moskovskogo
kombinata tverdykh splavov.
(Metallurgy)

AUTHOR: Riskin, V. Ya.

32-11-58/60

TITLE: On the Control of Quality in the Production of Hard Alloys (O kontrole kachestva pri proizvodstve tverdykh splavov).

PERIODICAL: Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1395-1395 (USSR).

ABSTRACT: The present paper deals with the organization of control in the course of production - in particular with respect to the production of carbide in which the presence of W_2C - carbide components in pure WC-carbide may lead to faults in production. The carbon content in the mixture of carbon and tungsten, which is used for the production of carbide, is determined after crushing the mixture in a special crushing device. A control sample is burned in a closed can with the activators (of which it is said here that they are not precisely described) in a special apparatus, a "Kombustron" by means of induction heating. The tungsten carbide obtained is examined as to its content of carbonic gas and carbon, and this is done by the weight method. In order to find out whether the process of carbide formation has been completed satisfactorily, the samples are investigated by the method of x-ray structural analysis. In this case an x-ray spectrometer with a Geiger counter and an electron automatic writing

Card 1/2

26

A new constant characterizing varnish asphalt. S. A. Ulanov and N. B. Riskina. *Russk. Khim. Opst. Tekhn. Zhurn.* 1940; No. 17, 10-21. A new const. F — only resins asphaltens carbonaceous is proposed. This const. is claimed to be characteristic of various bitumens and is claimed to be a measure of their usefulness in varnishes. Bitumens with F not less than 1 have better varnish properties than those having F less than 1 (and particularly if $F = 0.29-0.6$). Although $F = 0.7-0.8$ is satisfactory for natural bitumens, this value gives unsatisfactory varnishes for petroleum bitumens. D. A.

CLASS. METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

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26

Mixtures of Sadki asphaltite with petroleum resins.
 Uranov and N. B. Riskina. *Ryull. Obmen Opyt.*

Likokratichna Prom. 1940, No. 1, 23-4. Sadki asphaltite should be changed from a bitumen rich in compds. high in C to one having a higher proportion of oil-resin components. The data show that semiliquid petroleum resins when melted with Sadki asphaltite improve its solv. in oils. Good varnishes were obtained from asphaltite thus treated; it gelled, however, in white spirits and turpentine had to be used instead of white spirits. David Achony

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

LIST AND INDEX

Purification of Salkin asphaltite S. A. Ulanov, N. D. Ryskina and A. I. Frolova. *Byull. Odesk. Univ. Tekhnichesk. Prom.* 1939, No. 6-7, 316; cf. C. A. 34, 808. Heating of "Salkin" asphaltite until it has 40 meters of "horizon" at 350° lowers considerably its varnish qualities. Asphaltites with a horizon less than 40 m. possess better composition and varnish properties than those having more than 40-m. horizon. D. Aclony

ASB 35 A METALLURGICAL LITERATURE CLASSIFICATION

LIST AND INDEX

LIST AND INDEX

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

PROCESSING AND PDC STATION NUMBER

26

Investigation of the Sadkin asphaltite. S. A. Uranov and N. B. Riskina. *Byull. Loko-Krasnochnoi Prom.* 1938, No. 5, 24-8; *Khim. Referat. Zhur.* 2, No. 2, 120(1939).— Samples taken from a depth of from 17 to 35 m. showed that the Sadkin asphaltite is nearly pure bitumen contg. only 0.8% of ash. The content of the asphaltogenic acids varies from 0.77 to 2.37%. The combining power of asphaltite with linned oil is smallest at the ratio of 1:2. At 2:1 asphaltite combines with the oil practically completely.

W. R. Henn

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

PROCESSING AND PDC STATION NUMBER

RISKINA, S.R.
ca

11D

Variations in the enzymic content of different varieties of sugar beets at the germination period. S. R. Riskina. *Trans. Central Sci. Research Inst. Sugar Ind. (U.S.S.R.)* No. 12, 36-43 (in German 43) (1961). Three different types of beet seed, germinated in darkness on filter paper and quartz sand at 21°, were dried in a vacuum desiccator and powdered. Amylase, invertase, catalase and peroxidase were detd. in samples taken on the 2nd, 4th, 6th and 8th days of germination. The results show that increase of the above enzymes in forage beet is steadier than in sugar beet. The increase in the enzyme content in all the beets investigated is very irregular, but characteristic in each type of beet seed. It may be possible to det. the type of beet seed by detn. of the enzymic content at the germination period. Twenty-eight references. N. N. Menshik

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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RISKINA, S.R.
ca

NATURE OF THE CATABOLIC PROCESSES IN THE SILAGE STAGE.
A. V. Blagoveshchenskii, S. R. Riskina and R. V. Penk-
sova. *Trans. Central Sci. "Khimich" Inst. Sugar Ind.*
(U. S. S. R.) No. 12, 44-53 (in German 53) (1933).
Foliage of oats and beans in equal parts was cut, mixed
together and divided into 5 portions. Part one was
immediately analyzed; the second part was stored for 5 days
in a glass jar with a safety valve. No chemicals were
added. The third part was stored in a hermetically sealed
jar with toluene, the fourth with lactic acid and the fifth
with a mixt. of lactic acid and toluene. Analysis for total
N did not give pos. results owing to formation of volatile
nitrogenous compounds. Analysis for albumin and pep-
tome N indicated strong decomposition during the silage
stage. Amino acid content increased. Silaged beet foliage
showed no decrease in albumin N, but diminished amino
acid content. Carbohydrate content is sharply de-
creased with normal silage. Addn. of antiseptics in-
creases the carbohydrate content. The above expts. show
that antiseptics minimize the loss of organic substances
during the silage stage. N. N. Menshik

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND CATEGORIES

3RD AND 4TH CATEGORIES

5TH AND 6TH CATEGORIES

7TH AND 8TH CATEGORIES

9TH AND 10TH CATEGORIES

11TH AND 12TH CATEGORIES

13TH AND 14TH CATEGORIES

15TH AND 16TH CATEGORIES

17TH AND 18TH CATEGORIES

19TH AND 20TH CATEGORIES

21ST AND 22ND CATEGORIES

23RD AND 24TH CATEGORIES

25TH AND 26TH CATEGORIES

27TH AND 28TH CATEGORIES

29TH AND 30TH CATEGORIES

31ST AND 32ND CATEGORIES

33RD AND 34TH CATEGORIES

35TH AND 36TH CATEGORIES

37TH AND 38TH CATEGORIES

39TH AND 40TH CATEGORIES

41ST AND 42ND CATEGORIES

43RD AND 44TH CATEGORIES

45TH AND 46TH CATEGORIES

47TH AND 48TH CATEGORIES

49TH AND 50TH CATEGORIES

51ST AND 52ND CATEGORIES

53RD AND 54TH CATEGORIES

55TH AND 56TH CATEGORIES

57TH AND 58TH CATEGORIES

59TH AND 60TH CATEGORIES

61ST AND 62ND CATEGORIES

63RD AND 64TH CATEGORIES

65TH AND 66TH CATEGORIES

67TH AND 68TH CATEGORIES

69TH AND 70TH CATEGORIES

71ST AND 72ND CATEGORIES

73RD AND 74TH CATEGORIES

75TH AND 76TH CATEGORIES

77TH AND 78TH CATEGORIES

79TH AND 80TH CATEGORIES

81ST AND 82ND CATEGORIES

83RD AND 84TH CATEGORIES

85TH AND 86TH CATEGORIES

87TH AND 88TH CATEGORIES

89TH AND 90TH CATEGORIES

91ST AND 92ND CATEGORIES

93RD AND 94TH CATEGORIES

95TH AND 96TH CATEGORIES

97TH AND 98TH CATEGORIES

99TH AND 100TH CATEGORIES

RISKINA, S. R.

PROCESSES AND PROPERTIES INDEX

The ensilage of sugar-beet leaves. S. R. Riskina. *Problems Animal Husbandry* (U. S. S. R.) 1930, No. 11, 29-30 (in English 30).—Washed beet leaves ensilage well, but unwashed leaves are readily attacked by putrefactive bacteria until this decompn. is stopped by the acidity due to lactic acid from the fermentation of sugars. To speed up the formation of an acid medium 0.25% of the wt. of the leaves of tech. (25%) HCl or 1% molasses are added. In the latter case the sugars of the molasses are unaffected while the sugars of the live vegetable cells are unaffected. S. A. Karjala

12

AS & SLA METALLURGICAL LITERATURE CLASSIFICATION

NEMCHINOV, Vladimir Petrovich; SHUKHARDIN, S.V., otv. red.;
RISKINA-RYSKO, S.Ya., red.

[Expansion of coal mining techniques; effect of technical
progress on the development of methods of coal breaking
in mines] Razvitie tekhniki dobychi uglia: vliianie tekhnicheskogo progressa na razvitie sposobov razrusheniia uglia v shakhtakh. Moskva, Nauka, 1965. 212 p.
(MIRA 18:12)

RISKINE, A. A. Un procédé d'analyse des phénomènes transférentiels dans les quadripôles linéaires en régime linéaire. *Electrotechnica*, I. B. S. S., Sept. 1960, pp. 1067-1071. La méthode de calcul basée sur le calcul opérationnel, l'intégrale de Duhamel et la méthode d'amplitudes lentement variables de Van der Pol, est appliquée au cas d'un quadripôle linéaire quelconque. Cette généralisation permet de résoudre non seulement des problèmes radioélectriques, mais aussi des questions d'intérêt plus vaste du domaine de l'électrotechnique générale. M. W. 34103

ASW 114 METALLURGICAL LITERATURE CLASSIFICATION

HERMANN, Bela, dr.; IZSAK, Tibor, dr.; SZENTESZKY, Ilona, dr.;
 BENCZE, Gyula, dr.; RISKÓ, Rezső, dr.

Determination of vital capacity in bronchial asthma between
 diseases of the cardiovascular and respiratory
 systems following application of atropine. **APPROVED FOR RELEASE: Tuesday August 01, 2000** CIA-RDP86-00513R0014
 18-492-494 1 May 55.

1. A Gyulai Megyei Korház Belgyógyászati Osztályának (foorvos: Hermann, Bela dr.) közleménye.
 (RESPIRATION,
 vital capacity in asthma & cardiovascular & resp. dis., eff. of atropine.)
 (ASTHMA, physiology,
 vital capacity, eff. of atropine.)
 (CARDIOVASCULAR DISEASES, physiology,
 vital capacity, eff. of atropine.)
 (RESPIRATORY TRACT, diseases,
 vital capacity in, eff. of atropine.)
 (ATROPINE, effects,
 on vital capacity in asthma & cardiovascular & resp. dis.)

A-512/77
RISKO, Tibor; VARGA, Laszlo

Significance of radiological symptoms in the therapy of psoas abscess.
Magy. radiol. 9 no.4:220-224 Dec 57.

1. Az Allami Fodor Jozsef Tbc Gyogyintezet (igazgato-foorvos: Risiko Tibor) kozlemenye.

(MUSCLES, PSOAS, abscess
diag., x-ray (Hun))

EXCERPTA MEDICA Sec 15 Vol 12/12 Chest Dis. DEC 59

2809. RESULTS OF THE COSTO-VERTEBROTOMY-SPONDYLODESIS OPERATION (CVS OPERATION) - Costo-vertebratomia-spondylodesis műtéteink eredményei - Riskó T. and Novoszel T. Állami Fodor József Tbc. Gyógyint., Budapest - ORV.HETIL. 1959, 100/13 (466-472) Illus. 9

Between 1953 and 1956, CVS operations were carried out in 103 patients with tuberculous spondylitis. On the basis of their experience, the authors recommend operative evacuation of the foci followed immediately, or after a short interval, by spondylodesis. It is stated that the conditions of survival are better for the extrafocally than for the intrafocally grafted strips of bone and, therefore, spondylodesis is to be preferred to corpectomy. The moment the operation is performed is an important element. Emphasis is laid on the responsibility which the orthopaedic surgeon shoulders when he treats suppurating, sequestrating processes with spondylodesis only, instead of with evacuation of the foci. By doing so, he lowers the chance of subsequent formation of a block vertebra after evacuation of the foci, which at a later stage becomes unavoidable anyhow. A report is given of the results of operation 2-5 yr. later; in 76% of the cases the abscess shadow had disappeared and in 57% of the cases a block vertebra was formed during the observation period. The importance of the time element is stressed: in 31 patients whose cases have been reported in 1956, there has been further improvement in the course of the last 2 yr. The complications of the operation are concisely discussed. (IX, 15, 19)

EXCERPTA MEDICA Sec.15 Vol.11/4 Chest Diseases April 58

959. COMBINED OPERATION OF SPONDYLITIS TUBERCULOSA THORACALIS -
Über die kombinierte Operation des Spondylitis tuberculosa thoracalis -
Riskó T. and Deák P. Staatl. 'Fodor József' Tuberk. Heilanst.,
Budapest - SCHWEIZ. Z. TUBERK. 1957, 14/3 (193-204) Tables 6 Illus. 8
The authors combine the vertebrotomy of Kastert with the grafting operation
(spondylodesis). Results on 37 cases. (XV, 9*)

RISKO, Tibor, dr.

Certain problems related with surgical therapy of semi-malignant tumors of the bone localized on the lower extremities. Orv. hetil. 102 no.18:827-830 30 Ap '61.

1. Allami Fodor Jozsef Tbc Gyogyintezet, I Sebeszeti osztaly.

(LEG neopl)

RISKO, Tibor, dr.

General diagnostic problems of chronic spinal osteomyelitis in adults. Grv. hetil. 106 no.47:2233-2234 21 N '65.

1. All. Fodor Jozsef Tbc Gyogyintezet, I. Sebeszeti Osztaly.

HEVER, Odon, dr.; RISKO, Tibor, dr.; DARVAS, Jenő, dr.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001

Concentrations of streptomycin in the blood in abscesses. Tuberkulózis 12 no.12:271-274 D '59.

1. Az All. Fodor Jozsef Tbc Gyogyintezet (igazgato-foorvos: Sebok Lorand dr.) Laboratoriumanak (foorvos: Hever Odon dr.), I. Sebeszeti osztalyanak (foorvos: Risko Tibor dr.) es Chincin Gyogyszer es Vegyeszeti Termekek Gyara Mikrobiologiai Laboratoriumanak (osztalyvezeto: Darvas Jenő dr.) kozlemenye.

(STREPTOMYCIN metab)
(TUBERCULOSIS metab)

RISKO, Tibor, dr.; LISZKA, Viktor, dr.

Problems in the therapy of tuberculosis of the hip and knee joints by arthroplasty. Tuberk. kerdesei 9 no.5:229-234 Oct 56.

1. Az Allami Fodor Jozsef Tbc. Gyogyintezet, Budapest, (igazgato-foorvos: Risiko, Tibor, dr.) kozlemenye.
(TUBERCULOSIS, OSTHOARTICULAR, surg.
hip & knee, arthroplasty (Hun))

RISKO, Tibor, Dr.; NOVOSZEL, Tibor, Dr.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 ^{our surgical results} ^{costo-vertebratomy-spondylodesis, Gray histol} CIA-RDP86-00513R001

100 no.13:466-472 29 Mar 59.

1. Az Allami Fodor Jozsef Tbc. Gyogyintezet, Budapest (igazgato-foorvos: Sebok Lorand dr.) I. sz. Sebeszeti Osztalyanak (foorvos: Risiko Tibor dr.) kozlemenye.
(TUBERCULOSIS, SPINAL, surg.
costo-vertebratomy-spondylodesis, technics ' results
(Hun))

RISKO, Tibor, dr.

The significance of radiological changes of the knee in tuberculous coxitis in children. *Gyermekgyógyászat* 5 no.11: 346-352 Nov 54.

1. Az Allami Fodor Jozsef TBC *gyógyintézet* (Budapest) közleménye.
(KNEE, radiography
in tuberc. coxitis in child.)
(TUBERCULOSIS, OSTEOARTICULAR, in inf. & child)
hip, knee x-ray manifest. in)

RISKO TIBOR, Dr.; NOVOSZEL, T. Dr.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001

Abductive resection in surgery of the hip. *Magy. sebészet* 10 no.2 p. 133-137 Apr-June 57.

1. Az Allami Fodor Jazsef Tbc. Gyógyintézet (Budapest) közleménye
Igazgató-foorvos: Risko Tibor dr.
(HIP, surg.
abductive resection, technic (Hun))

RISKO, Tibor, Dr.

Surgery of coxitis tuberculosa in adults. Tuberkulozis 10 no.7-9:145-148 July-Sept 57.

1. Az Allami Fodor Jozsef Tbc. Gyogyintezet, Budapest (igazgato foorvos: Risiko Tibor dr.) kozlemenye.

(TUBERCULOSIS, OSTEOARTICULAR, surg.
hip, indic. & technics (Hun))

Parturition in women with bone tuberculosis. Orv.hetil. 101
no.41:1450-1452 9 0 '60.

1. Allami Fodor Jozsef Tbc. Gyogyintezet, I. sz. Sebeszeti
Osztaly.

(TUBERCULOSIS OSTEOARTICULAR in pregn)

RISKO, Tibor, dr.; technikai munkatars: STOLZ, Laszlo, dr.

A device for bone biopsy. Orv.hetil. 102 no.35:1663-1664 27 Ag '61.

1. Allami Fodor Jozef TBC Gyogyintezet, I. Sebeszeti Osztaly.

(BONE AND BONES pathol) (BIOPSY equip & supply)

RISKOL, E. L.

1951, p. 4.

The shape and spatial orientation of dark nebulae.

Astronomical Journal
Vol. 57, No. 6, 1950, p. 342.

From Bull. of R. Astr. Soc., Vol. 2, Sept. 1951, p. 7.

YUGOSLAVIA/Human and Animal Physiology. Metabolism.

T

NIKOLIC, A
Abs Jour: Ref Zhur-Biol., No 8, 1958, 36092,

Author : Nikolic, V.P., Nikolic, B.P., Pavlovic, D., Riskovic, A.
Inst :

Title : Comparative Studies of Serum Proteins in Some Domestic
and Laboratory Animals.

Orig Pub: Glasnik biol. sek Hrvatsko prirodosl. društvo, 1953
(1955), Ser 2B, 7, 284-286.

Abstract: The total content of albumin, gamma-globulins (I), and various protein fractions (microelectro-phoresis) was determined in fresh nonhemolyzed serum (from 15-30 animals) of cows, sheep, horses, pigs, dogs, cats and rabbits. The content of total protein in the serum of all the investigated animals was in accord with data in the literature. Individual and species variations were

Card : 1/3

YUGOSLAVIA/Human and Animal Physiology. Metabolism.

T

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36092.

noted to a considerable degree in the protein fractions content. The value of I obtained by the turbidity method of Popper and Erg as compared with those obtained by the method of electrophoresis were nearly the same for sera of horses, dogs, and cats; smaller for sera of pigs and cows by the first method, greater for sera of pigs and cows by the first method, greater for sera of sheep and rabbits. The values of I, when determined by the method of Kunkel, were much lower in all the investigated animals, with the exception of cows, than in man. The comparison of data for I obtained by the method of precipitation by $CdSO_4$, as modified by the authors, and by the coagulation test of Wattman, with the data obtained by electrophoresis, demonstrated that the data of the first two methods depended not only on the content of the

Card : 2/3

YUGOSLAVIA/Human and Animal Physiology. Metabolism.

T

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36092.

varicus protein fraction in the serum but also on the
physicc-chemical condition and the colloido-chemical
stability of the whole system of serum protein.

Card : 3/3

7

RISLO, T.; LISZKA, V.

Problems of the therapy of knee and hip tuberculosis by mobile joint.
Acta med. hung. 11 no.1:73-85 1957.

1. Staatliche Fodor Jozsef tbc. Heilanstalt, Budapest.
(TUBERCULOSIS, OSTEOARTICULAR, surg.
hip & knee, arthroplasty, value of various methods (Ger))

HEICZINGER, J.; ROSENTHAL, S.; RISKO, T.

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R00144

On the relationship between the dispensary and the district
physician in the prevention of tuberculosis. Crv. hetil. 105
no.35:1671-1672 Ag 30 1964.

L 19722-65 EEO-2/FSS-2/EWT(1)/EWA(d)/EWA/EED-2/FCS(k) AFWL
ACCESSION NR: AP5000724

S/0018/64/000/012/0061/0063

AUTHOR: Risman, I. (Lieutenant Colonel)

TITLE: Artillery fire control⁵ with the aid of an airplane

SOURCE: Voyenny* vestnik, no. 12, 1964, 61-63

TOPIC TAGS: artillery, artillery fire control, fire control instrument, aerial fire control, aerial spotting

ABSTRACT: The organization of reconnaissance and artillery spotting by aerial observation requires that the adjustment time be reduced to a minimum. Gross errors occur in determination of azimuth corrections when adjusting with sequential controls relative to compass points on a grid. The author therefore proposes adjustment with sequential controls relative to compass points by the use of a grid on the fire control instrument. This method will provide more accurate corrections (azimuth of 0-01 and range of 0-10 meters) and will take only one half to one third as much time. The additional 2 minutes for preparation of the fire control instrument, as now indicated in the Kurs strel' b (Handbook for Firing), is not required. A four-quartered grid (division value of 2 mm = 50 m, marked at 100 m intervals) is made on tracing paper or celluloid and fastened to the lower part of the instrument. The grid orientation relative to compass points must coincide with the fire

Card 1/2

L 19722-65

ACCESSION NR: AP5000724

control instrument's orientation. The center of the grid is considered to be the center of the target. Fire positions and estimated range and azimuth corrections are entered on the instrument, as are the target coordinates as received from the aircraft navigator. Range and declination from the base azimuth are determined. After the fire command is given and while the crews are loading, the range straight-edge is fixed and a line is drawn across it, opposite the fire position. The mobile sector slide is fixed at the zero indicator of the immobile sector. Data received from the navigator during adjustment provides the center point of the bursts which is entered on the grid and by shifting the range straightedge to that point the correction is determined. Azimuth corrections are read directly from the angular scale opposite the indicator slide. Orig. art. has: 1 table and 1 drawing.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MS

NO REF SOV: 000

OTHER: 000

Card 2/2

RISMAN, I., kapitan.

Training mortar. Voen.VEST. 36 no.5:70-71 My '56. (MIRA 9:8)
(Russia--Army--Artillery) (Ballistic instruments)

RISMAN, N.B. [Rysman, N.B.]; BAKALOV, M. Yu.; SHKOL'NIKOVA, N.B. [Shkol'-nykova, N.B.]; GRABOVSKIY, P.A. [Hrabovs'kiy, P.A.]

Fusion sealing of seams and cuts on articles made from nylon fabrics. Leh. prom. no.2:51-52 Ap-Je'64 (MIRA 17:7)

ANDRONOVICI, Gh.; BADENSKI, A.; OLARIU, Tr.; IONESCU, R.; JONESCU, M.;
RISNICU, V.

Epidemiological studies of an epidemic of dysentery in a
community. Rev. igiena microb. epidem., Bucur. 1:26-40
Jan-Mar 55.

1. Lucrare efectuata in cadrul Sanepidului central al Capitalei.
(DYSENTERY, epidemiol.
epidemic in school in Rumania, etiol., develop. &
prev. measures.

GOROKH, A.V.; KLOKOTINA, L.I.; RISPEL', K.N.

Behavior of molybdenite and its dissociation products on heating. Dokl.
AN SSSR 158 no.5:1183-1185 O '64. (MIRA 17:10)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii. Predstavleno akademikom N.V.Belovym.

MOROZOV, A.N.; CHIRKOV, N.A.; FIRSOV, S.G.; KRASHCHENKO, L.S.; Primali
uchastnye: RISPEL', K.N.; VAYNSHTEYN, O.Ya.; BUSHUYEV, A.P.;
SNFZHKO, B.Ya.; MEL'NICHENKO, A.A.; ZHURAVLEV, V.M.

Alloying open-hearth steel with exothermic ferroalloys in the
ladle. Stal' 25 no.5:412-414 My '65. (MIRA 18:6)

RISPEL', K.N.; DUBROVIN, A.S.

Exothermic materials with chromium and manganese for alloying steel in the ladle. Stal' 23 no.4:315-320 Ap '63. (MIRA 16:4)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii. (Steel—Metallurgy) (Iron-chromium-manganese alloys)

USSR Approved Release: Tuesday, August 01, 2000

CIA-RDP86-00513R001444

Abs Jour : Ref zhur - Khimiya, No 7, 1957, 22095

author : A.J. Risol', L.N. Utavskiy
Inst : Not given
Title : The duplication of the metal structure by aid of titanium films.

Orig Pub : zavod. Laboratoriya, 1956, 22, No 5, 567-569

Abstract : This is a description of a method of obtaining a single-stage replica of the surface of metals by way of dusting technically pure (99%) Titanium on the sample under examination. A conical basket made of W-wire with a diameter of 0.5 m/m and a spread of 2 m/m between coils is used as a vaporizer. Ti-films possess a high chemical stability and a mechanical endurance. The disadvantage of Ti-replica lies in the possibility of a deposit of impurities on some parts of the electronic microscope, possibly resulting from the evaporation of Ti during the examination of the sample.

MASAGUTOV, R.M.; GIMAYEV, R.N.; DANILOVA, R.A.; RISOV, B. a.;
OLEFIP, N.A.

Test run of a high-temperature catalytic cracking unit using
vacuum gas oil as the raw stock. Trudy BashNII NP no.7:29-35 '64.
(MIRA 17:9)

MASAGUTOV, R.M.; BERG, G.A.; RISOV, B.Ya.; KONDARKOV, D.I.; GOLENKOVA, M.V.;
KULINICH, G.M.; SKUNDINA, L.Ya.

Using gases of hydroforming processes. Trudy BashNII NP
no.6:5-10 '63.

Using hydrogenation to purify a hydroforming product of
catalysis. Ibid.:10-14 (MIRA 17:5)

RISOVANYY, V. A. Cand Med Sci -- (diss) "On the problem of the pathogenesis and treatment of after-effects of intestinal obstructions." Rostov-on-Don, 1988. 18 pp (Rostov-on-Don State Med Inst), 200 copies (KL, 52-58, 108)

SPITSYN, I.N., konstruktor; MIKHALEV, V.D., konstruktor; RISOVANNYY,
A.I., konstruktor

Mechanical loader for loading bulk materials in railroad
cars. Suggested by I.N.Spitsyn, V.D.Mikhalev, A.I.Risovannyi.
Rats.1 izobr.predl.v stroi. no.11:23-25 '59.

(MIRA 13:3)

1. Po materialam TSentral'nogo byuro tekhnicheskoy informatsii
Permskogo sovnarkhoza.

(Loading and unloading) (Building materials--Transportation)

KOROBTSOV, I., dotsent; RISOVICH, A., starshiy gruppovoy inzhener

Objectives in the increase of labor productivity and the overall mechanization in ship repairs. Mor. flot 22 no.5:28-29 My '62. (MIRA 15:5)

1. Odesskiy institut inzhenerov morskogo flota (for Korobtsov). (Merchant ships--Maintenance and repair)

~~RISOVICH, A. I.~~

Experimental study of the efficiency of streamlined ribs for GTU regenerators. Inzh.-fiz.zhur. no.5:24-30 My '60. (MIRA 13:8)

1. Institut inzhenerov morskogo flota, Odessa. (Heat exchangers--Testing)

RISOVICH, A.I., inzh.

Optimum arrangement of heating surfaces consisting of circular tubes.
Teploenergetika 9 no.2:32-35 F '62. (MIRA 15:2)

1. Odesskiy institut inzhenerov morskogo flota.
(Heat--Transmission)

82589

S/170/60/003/005/004/017
B012/B056

24.5200

AUTHOR: Risovich, A. I.

TITLE: Experimental Investigation of the Efficiency of Streamlined Ribs for Regenerators of Gas Turbine Plants 23

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 5,
pp. 24 - 30

TEXT: The problem of using streamlined ribs is investigated here. For the experiments described here, two series of rib profiles shown in Fig. 1 were developed: with a thickened nose and laminar profiles. In both cases, a smooth and continuous flow round the respective body was warranted. The calculations carried out showed that the efficiency of the rib round which the flow leads has a distinctly marked maximum. The position of the maximum is determined by the chord of the profile, the rate of the coolant, and the heat transfer coefficient of the rib metal. The investigation was carried out for the purpose of determining the thermal and aerodynamic characteristics of streamlined rib-packets, on the basis of which the most favorable form of ribs may be selected.

Card 1/3

82589

Experimental Investigation of the Efficiency of S/170/60/003/005/004/017
Streamlined Ribs for Regenerators of Gas Turbine B012/B056
Plants

The experiments were carried out by the method of local thermal model-tests. Here, the method of dividing the convective heat exchange and the passage of heat through the rib metal was used. The scheme of the experimental arrangement is shown in Fig. 2 and described. The experiments are briefly described. The model ribs were made from polystyrene. Fig. 3 shows the evaluations of experiments in the form of $Nu_f/Pr^{1/3} = f(Re_f \cdot 10^{-3})$. A comparison of the rib-types investigated gave the following results: 1) Within the range of $Re = 6000 \div 15,000$, all rib-variants have the same efficiency. 2) With $Re_f < 6000$, the rib with a laminar profile is considerably less efficient. 3) With $Re_f > 15,000$, the profile with a thickened nose and a corridor-shaped distribution has the most favorable characteristics. 4) The use of artificial turbolizers deteriorates the characteristics of the ribs. Summarizingly, it is found that within the range of $Re_f = 3000 \div 20,000$, the ribs with a thickened nose and a checkerboardlike distribution are to be preferred. The

Card 2/3

82589

Experimental Investigation of the Efficiency of Streamlined Ribs for Regenerators of Gas Turbine Plants S/170/60/003/005/004/017 B012/B056

results obtained here are compared in Fig. 4 with other shapes of surfaces (Refs. 3,4). It is shown that streamlined ribs have a high efficiency. Preliminary calculations showed the following: The use of streamlined ribs with a chord length of 10 mm makes it possible, in comparison with a surface with through-going plate ribs, to decrease the volume by the 2- to 2.5-fold, and the surface of the regenerator front by the 2-fold of its former size (with conditions otherwise remaining equal). In comparison to a needle-shaped surface with a rib-diameter of 1 mm, this is possible by the 1.8- and 1.5-fold, respectively. In the scheme of Fig. 2 micromanometers by MMN and TsAGI are mentioned. There are 4 figures and 4 references: 2 Soviet and 2 US.

ASSOCIATION: Institut inzhenerov morskogo flota, g. Odessa (Institute of Engineers of the Merchant Marine, Odessa)

Card 3/3

KROBTSCV, I., prepodavatel'; RISOVICH, A., prepodavatel'

Ways of increasing the effectiveness of the over-all mechanization
and automatization of ship repairing. Mor.flot 21 no.1:35-38
Ja '61. (MIRA 14:6)

1. Kafedra organizatsii i tekhnologii sudoremonta Odesskogo
instituta inzhenerov morskogo flota.
(Ships--Maintenance and repair)
(Automatic control)

RISOVICH, A.I., inzh.

Heat transfer and resistance of bundles of streamlined profiles and their effectiveness as elements of the finned surface of regenerators in gas turbine installations. Izv.vys. ucheb.zav.; energ. 3 no.3:110-118 Mr '60. (MIRA 13:3)

1. Odesskiy institut inzhenerov morskogo flota. Predstavlena kafedroy sudovykh silovykh ustanovok.
(Gas turbines)

PODGORNIK, Anton, dr. inž., docent; RESTOVSKI, Petar, inž.; ROSEC,
Ladislav, inž.

Relations between the structural phenomena, parameters of
basic cells, and hardening in the aging process of aluminum
alloy with copper. Rud met zbor no. 2:139-142 '63.

1. Oddelek za montanistiko, Askerceva ul. 20, Ljubljana.

KALINCHEV, Ye. L., inzh.; RISP, S.M., kand.tekhn.nauk

Determining the time of cooling of the product in a mold in
the extrusion of plastics. Khim.mash. no.2:22-26 Mr-Ap '60.

(MIRA 13:6)

(Plastics--Thermal properties)

L 27304-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP4047951

S/0020/64/158/005/1183/1185

15
18
B

AUTHOR: Gorokh, A. V.; Klokotina, L. I.; Rispel', K. N.

TITLE: The behavior of molybdenite and the products of its dissociation during heating

SOURCE: AN SSSR. Doklady*, v. 158, no. 5, 1964, 1183-1185, and insert facing p. 1184

TOPIC TAGS: molybdenite, molybdenum refining, sintered molybdenite, molybdenum sulfide

ABSTRACT: Five samples of powdered Balkhash molybdenite concentrate were heated for 1 to 7 hrs. at 760C and 1-37 mm Hg and the oven temperature was gradually raised to 1170-1200, 1450-1520, 1470-1550, 1540-1650, and 1500-1700C, using alundum and molybdenum crucibles, in a study of the mechanism of molybdenite thermal dissociation. The sintered products, found to be in different stages of decomposition, were investigated microscopically, chemically and with the use of x-ray structural analysis. Thermal decomposition of molybdenite to Mo_2S_3 , found to be complete in a reducing atmosphere at 760 mm and 1500C, was intensified by high-vacuum at lower temperatures. The Mo_2O_3 began to dissociate at temperatures in excess of 1500C at atmospheric pressure and at 1250-1300C at 1 mm Hg. The samples melted as the Mo/S ratio approached unity, and the

Card 1/2

L 27304-65

ACCESSION NR: AP4047951

formation of a metallic phase of dendritic or irregular form, the final product of dissociation, was observed as the ratio reached a value of 4:3. In a high vacuum of 1×10^{-2} to 1×10^{-4} mm Hg, dissociation of Mo_2S_3 was also found to take place in the solid phase at 1100 - 1200C. Orig. art. has: 5 photomicrographs and 1 table.

ASSOCIATION: Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii (Chelyabinsk metallurgical scientific research institute)

SUBMITTED: 09May64

ENCL: 0

SUB CODE: IC, MM

NO REF SOV: 003

OTHER: 000

Card 2/2

CHIRKOV, S.A.; BUDNIKOV, I.D.; MEDVEDEV, A.P.; NISPEL', K.N.

Production of 5KhNV steel with the use of siliconthermic and
complex tungsten-containing briquets. *Stal'* no. 3:22.
1961, No. 165. (MIRA 18:4)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii
i Chelyabinskiy stankostroitel'nyy zavod.

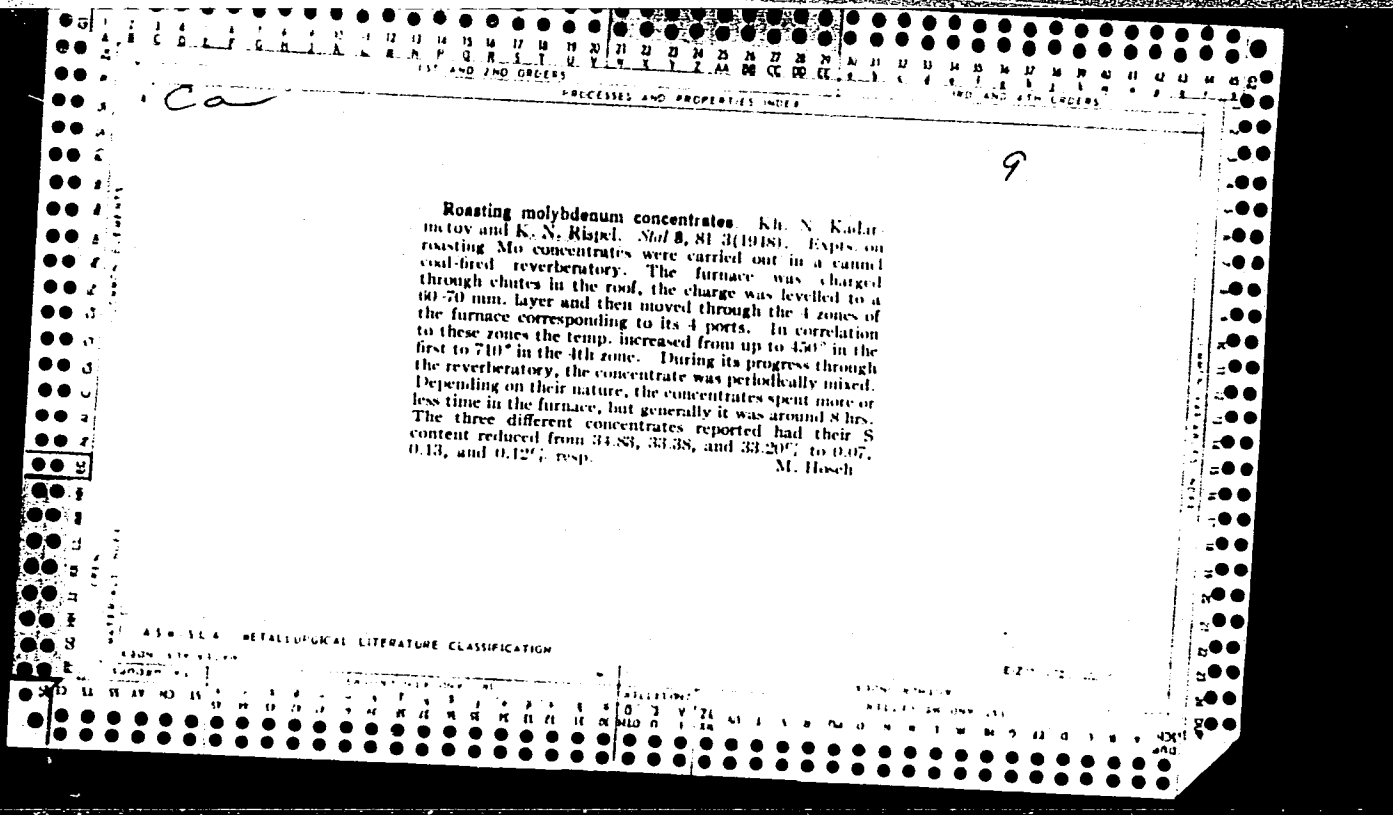
SECRET, III

La V., Jalisco: Plant Ferrous Metals, -cl-5-

"Amber metal ore concentrates," Staff, No. 1, 191

REDEL, K. W.

"Burning Molybdenum Concentrates", Stal', No 1, 1948.



KOPYAIN, I.A.; RANNEV, G.G.; SMIRNOV, Yu.D.; CHERNOV, G.I.;
BOGATEENKOV, V.F.; BOKOV, I.I.; TSIPUNOV, A.G.; RISPTEL', K.M.;
AGARKOVA, N.A.; DAYKER, A.L.

Research by the Chelyabinsk Metallurgical Research Institute.
Stal' 22 no.7:604,620-621,667,670 JI '62. (MIRA 15:7)
(Metallurgical research)

RISPOLOCHENSKY, M. I.

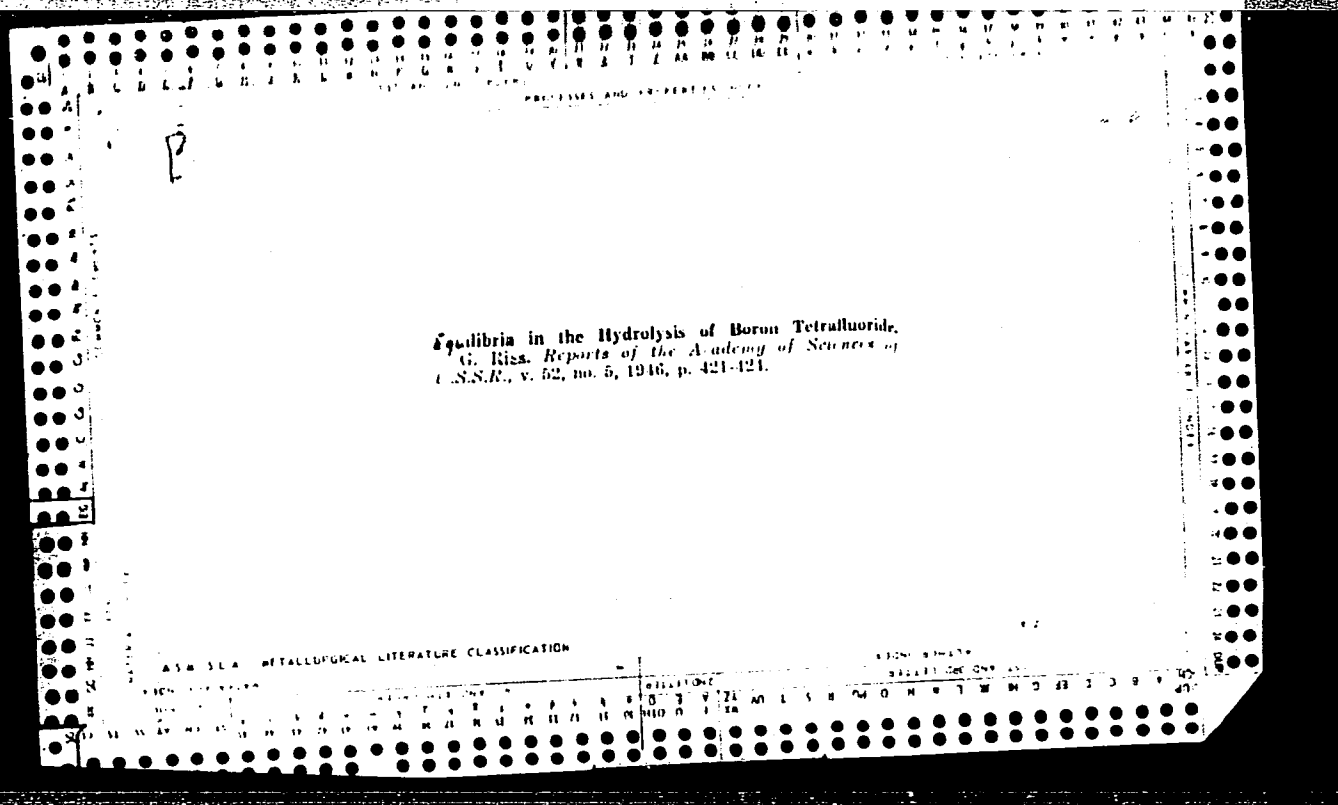
M. E. Islausov, Y. M. Zorostrova and M. I. Rispolochensky, About obtaining of some cyclic ethers of phosphorus acid and their properties. P. 263.

SO: Bulletin of the U.S.S.R. Academy of Sciences (Chemistry Series)
Izvestia Akad. Nauk, S.S.S.R., No.2, 1948.

1150, P.

"On Some Basic Concepts of the General Theory of Linear Functionals" Uspekhi Matemat,
Nauk 1, No. 2, 1946

Report U-1493, 27 Sep 1951



10

4-1

Preparation of crystalline chromic anhydride from calcium chromate. I. G. Kiss, A. E. Zajarni, and A. I. Zelianskaja (*J. Appl. Chem. Russ.*, 1941, **14**, 46-62). - CaCl_2 is added in 20% excess to aq. Na_2CrO_4 at 100° , and the ppt. of CaCrO_4 is collected after 1 hr. The solubility of CaSO_4 in aq. CrO_3 rises with increasing $[\text{CrO}_3]$ to a max. at ~ 30 g. of CrO_3 per 100 g. H_2O , thereafter falling rapidly (25, 60, and 95). 65% H_2SO_4 is added to an aq. suspension of CaCrO_4 at 100° , in such amount as to give a $[\text{CrO}_3]$ of 32%, and the solution is filtered. The filtrate is evaporated to a $[\text{CrO}_3]$ of 81%, again filtered, and cooled, when pure CrO_3 separates in good yield.
R. T.

PROCESSES AND PROPERTIES INDEX

BC

Dissociation of magnesium chromate. I. G. Rina and R. G. Umrikalva (Compt. rend. Acad. Sci. U.R.S.S., 1964, 4, 213-217).—The prep. of pure anhyd. $MgCrO_4$ is described. Thermal decomp. follows the reaction $2MgCrO_4 \rightarrow 2MgO \cdot Cr_2O_3 + 1/2O_2$; $2MgO \cdot Cr_2O_3 \rightarrow MgO + MgO \cdot Cr_2O_3$. H_2 reacts at 300° with $MgCrO_4$. The dissociation pressure of $MgCrO_4$ is given by $\log p_{O_2} = -10,469/T + 23,871$; the heat of dissociation is 78,870 g.-cal. per mol. of O_2 .
 K. S. H.

ASM 31A METALLURGICAL LITERATURE CLASSIFICATION

COMMON 1434811-2511

BC

B-I-8

Inflammability of pyrites and flotation tailings. I. G. Riso, T. G. SAURAVLEVA, and V. N. Sunlov (J. Chem. Ind. Russ., 1935, 12, 560-564).—The flash point of pyrites dust rises sharply from 340° for material passing 70-mesh to 401-406° for 30-60-mesh dust. The flash point is raised by admixture of clay to the pyrites, but is unaffected by SiO₂, for which reason powdered pyrites and flotation tailings have the same flash point (365-390°), in spite of the smaller diam. of the particles of the latter. R. T.

ASH-31A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1ST AND 2ND COLUMNS 3RD AND 4TH COLUMNS

PROCESSES AND PROPERTIES INDEX

BC A-1

Hydrolysis coefficient of the silicofluoride ion, and the potentiometric titration of fluorides with calcium nitrate in presence of silicofluoride. (A) I. G. Rym. (B) N. V. Iljin (Zavod. Lab., 1937, 6, 1163-1166, 1166-1167).—(A) Polunina, in reply to Iljin (*ibid.*, 621). (B) A reply. R. T.

COMMON ELEMENTS

COMMON VARIABLE UNIT

OPEN MATERIALS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND COLUMNS 3RD AND 4TH COLUMNS

1ST AND 2ND COLUMNS 3RD AND 4TH COLUMNS

BC

A-1

Potentiometric titration of fluorides. I. G. Rias and N. G. BAKINA (Zaved. Lab., 1937, 8, 172-177).—Excess of Na_2SiF_6 is added to the solution of fluoride, which is titrated (quinhydrone electrode) with $\text{N-Ca}(\text{NO}_3)_2$. SO_4^{2-} does not interfere. R. T.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTERS

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7TH AND 8TH LETTERS

9TH AND 10TH LETTERS

11TH AND 12TH LETTERS

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95TH AND 96TH LETTERS

97TH AND 98TH LETTERS

99TH AND 100TH LETTERS

PROGRESSIVE AND PROPERTIES INDEX

BC H I

Thermodynamic relation between dissociation pressure and solubility of complex strong electrolytes. I. G. Riss (J. Phys. Chem. Russ., 1939, 13, 547--550).--A relation has been derived permitting the relative thermal stabilities of a series of salts with a common dissociating complex ion to be calc. from the solubilities and activity coeffs. of the original salt and the product of its dissociation.

R. C.

ASAC 514 METALLOGICAL LITERATURE CLASSIFICATION

SECTION 514-1174

SECTION 514-1174

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

BC

6-1

Virtual entropy of silicon fluoride calculated from the molecular constants. I. G. Rias (Comp. Rend. Acad. Sci. U.R.S.S., 1990, 24, 568-569).—The entropy of SiF₄ from 25° to 300° is tabulated. (S₂₉₈)₂₉₈ = 67.430 g.-cal. per degree per mol. O. D. S.

COMMON ELEMENTS

MATERIALS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

2ND AND 6TH ORDERS

BC

A-1

Viscosity of solutions of sodium chromate and of technical chromate solutions. I. G. Russ, (J. Appl. Chem. Russ., 1939, 12, 1787-1789).— η -conc'n. and η -temp. curves are given for Na_2CrO_4 solutions. R. T.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

5TH AND 6TH ORDERS

7TH GROUP

8TH GROUP

9TH GROUP

10TH GROUP

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100TH GROUP

GTRSPV Vol. 5-No. 1 Jan. 1952

1952, 114. M. I. G. Vitukhnovskaya, M.M. and Vitukhnovskaya, B.S. (I.V. Stalin Dnepropetrovski Institute of Metallurgy). Equilibrium in the system sodium fluoride-borax-water at 25°, 287-9

Akademiya Nauk, S.S.S R., Doklady Vol. 78, No. 2

1ST AND 3RD COLUMNS PROCESSES AND PROPERTIES INDEX 2ND AND 4TH COLUMNS

B-I-2

(A) Explosivity of pyrites-air mixtures. (B) Inflammability of carboniferous pyrites. I. G. Riss, T. G. SURYAVLVA, and B. N. SUSLOV (J. Chem. Ind. Russ., 1938, 12, 683-686, 696).—(A) Suspensions containing 0.4 g. of pyrites per litre of air explode at 255°; higher or lower concns. have a higher flash point. Under factory conditions, explosions are possible only during the moment of loading the dust into the furnaces; suggestions are made for minimizing such risks.

(B) The flash point of carboniferous pyrites dust is slightly < that of ordinary pyrites for equal particle size, but the greater coarseness of the particles renders the risk of explosion of the former < that of the latter.

R. T.

A S B - S L A METALLURGICAL LITERATURE CLASSIFICATION

FROM STEELING	FROM BOILING	FROM BOILING	FROM BOILING
S A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	S A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	S A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	S A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

RISS, J.; KLIR, J.

"Terminology in the field of electronic computers." P. 403.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV).
Praha, Czechoslovakia, Vol. 20, No. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

RISS, J.

TRIP LOG

periodicals: SREKSI TEKNIKA Vol. 6, no. 9, Sept. 1958

RISS, J. Analogue multiplier using the Hall Effect. p. 346.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
May 1950, Unclass.

RISS, J.

RISS, J. The number of brook trout should be increased by building a reservoir at the source of the Vistula River. p. 11. Vol. 7, no. 9, Sept. 1955, GOSPODARKA RYBNA. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

PROCESSING AND PREPARATION INDEX

A-1

BC

Thermal dissociation of chromium trioxide.
 J. G. Riss and A. I. SELJANSKAYA (Acta Physicochim. U.R.S.S., 1958, 8, 623-640).—The thermal decomp. of cryst. CrO₃ is a very slow process. At <180° decomp. of liquid CrO₃ is undetected even on prolonged heating; at 240°, however, the dissociation pressure is ~1 atm. The first decomp. product, Cr₂O₁₂ (Cr₂O₃·6·5CrO₃), is produced in a unimol. reaction having activation energy of 33,970 g.-cal. and log. $k = -7427.55/T + 13.1246$. Other intermediate oxides, Cr₂O₁₁ (Cr₂O₃·5CrO₃), Cr₂O₁₀ (Cr₂O₃·4CrO₃), and Cr₂O₉ (Cr₂O₃·3CrO₃), are formed. Cr₂O₁₂ decomposes autocatalytically to Cr₂O₃ at 400°. Quartz and cast Fe have no significant catalytic activity; H₂SO₄ and H₂SO₄ increase the decomp. velocity very sharply owing to salt formation. W. R. A.

A 58-11A METALLURGICAL LITERATURE CLASSIFICATION

E-2

MATERIALS INDEX										REGIONAL INDEX									
GROUPS										SUBGROUPS									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

RISS, O. V.

25611 RISS, O. V. Vydayushchiysya Ruskiy 'oryak-Geograf A. I. Chirikov. (K 200-Letiyu So Dnya Smerti). Voprosy Geografii, SB 12, 1949, S 243-46

So: Letopis' Zhurnal'nykh Statey, Vol. 34, Moshva, 1949

RISS, O. V.

25611 RISS, OV Vydayushchiysya Russkiy Moryak-Grograf A.I. Chirikov. (K 200-Letiyu so dnua smerti). Voprosy Geografii, SB 12, 1949. S. 243-46.

S): Letopis' Zhurnal' Nykh Statey, Vol. 34, Moskva, 1949.

Plu, A. Y.

05011

Yed-pushlyaya Ruskiy Moryak-Geograf A. I. Shirikob (X 200- I tija 00 D. a. S. rti).
V. voly S. profil, no. 12, 1949, C. 243-44.

of: 000 010 No. 24

RISS, S.M.

Basic problems of liver cirrhosis. *Suvr. med.* 13 no.6:3-12 '62.

1. Iz terapevtichnata klinika pri Leningradskiaia Sanitarno-khigienen institut (Zavezhdasht prof. S.M. Riss). *Chlen-korespondent pri AMN SSSR.*
(LIVER CIRRHOSIS)

RISS, V.P.

FRASE I BOOK REFORMATION

807/1660

Zachno-tekhnicheskiye obshchestvo mashinostroitel'noy promyshlennosti. Tsentral'noye pravleniye. Sektzia remonta i modernizatsii obratnizatsiya modernizatsiya i remont obratnizatsiya mashinostroitel'nykh sredstv (Modernization and Repair of Machine-Building Plant Equipment) Moscow, Maschi, 1959. 281 p. Krata slyp inered. 6,100 copies printed.
Ed. (Title page): R.A. Moskvin, Candidate of Technical Sciences; Ed. (Inside cover): A.T. Popov, Engineer; Tech. Ed.: V.D. El'vind, Managing Ed. for Literature: M.A. Kuznetsov and Machine-Tool Construction (Mashst): R.D. Bystrykh, Ed. for Editorial Work: R.A. Moskvin (Chairman), Candidate of Technical Sciences; Ya.S. Borikov, Engineer; V.D. Pichner, Engineer; V.I. Mikhaylovskiy, Engineer and V.P. Golov, Engineer.

PURPOSE: This collection of articles is intended for technical personnel dealing with modernization and overhaul of equipment.
CONTENTS: The articles in this collection deal with the basic trends and a number of specific problems in the modernization of the machine industry. Modernization of foundry, forging-shop, and crane equipment and problems in the automation of equipment repair are discussed. Information is given on the use of unitized subassemblies in the modernization of metal-cutting machine tools, on methods for prolonging the life of forging hammers, on methods of automatic vibration electric hard facing of worn parts, on sulfidation, and on vibration of forging-hammer foundations. No personalities are mentioned. References to several of the articles.

TABLE OF CONTENTS:

- Manusov, I.Z. [Engineer]. Basic Trends in the Modernization of Press Equipment
- Shaynold, Ye.M. [Engineer]. Prolongation of the Life of [Piston] Rods for Forging Hammers
- Donskoin, V.M. [Engineer, MILLINASH]. Basic Trends in the Modernization of Foundry Equipment
- Golovner, M.K. [Engineer]. Automation of Metal-Cutting Machine Tools
- Ivanov, Y.M. [Engineer, VPI]. Organization of Heavy Repair of Jig Boxy's and Inspection of Repair-Work Quality
- Pilshchikov, M.Y. [Engineer, Dneprovskiy zavod transportnykh mashinostroyeniya imeni V.I. Lenina (Kharkov Plant of Transportation Machinery Construction and Machines)]. Repair of Worn Ways of Metal-Cutting Machine Tools by External Broaching
- Parvov, S.A. [Engineer, Romashinst]. Use of Unitized Subassemblies in the Modernization of Metal-Cutting Machine Tools
- Almudjry, P.S. [Candidate of Technical Sciences, STDremash]. Basic Trends in the Modernization of Woodworking Equipment
- Mikhaylovskiy, G.M. [Candidate of Technical Sciences, VPIITPMASH]. Basic Trends in the Modernization of Existing Crane Equipment
- Riss, V.P. [Engineer]. Modernization and Repair of Crane Equipment
- Shibkin, Ye.I. [Engineer, Uralsbazar]. Modernization of Unique Equipment

S/169/62/000/012/026/095
D228/D307

AUTHOR: Riss, Yu.A.

TITLE: First trial small-scale geophysical surveys using air transport in the almost impenetrable areas of West Siberia

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 40, abstract 12A328 (Tr. In-ta geol. i geofiz. Sib. otd. AN SSSR, no. 11, 1961, 167-174)

TEXT: In conditions of the almost impenetrable areas of the West Siberian Plain regional surveys on a scale of 1:1,000,000 can be expediently carried out with the use of air transport, principally helicopters. Light hydroplanes or AN-2 (AN-2) aircraft with floats may also be employed in areas with a developed system of lakes. AN-2 aircraft on skis can be used in winter in polar regions. In swampy areas personnel and equipment are landed from hovering helicopters. The simultaneous use of 3 gravimeters is recommended for surveying purposes; the best is the ГAK-3M (GAK-ZH)

Card 1/2

First trial small-scale ...

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D228/D307

with a scale value of 6-8 milligals/revolution. The observation grid density was 1 point over 200 km². The grid was made twice as dense in areas adjoining trunk rivers; along these rivers it was brought to the requisite density for 1:200,000-scale surveying. The distance between points was 10-15 km on the ordinary grid and 100-150 km on the reference grid. Ordinary grid observations were made in 1-day traverses. These were begun and closed at reference grid points and represented a loop like a figure of 8 with a repetitive observation at the point of intersection. 1-2 points of previous traverses were usually included in the traverse polygon as control and repetitive points. In the precision of their determinations ordinary grid points correspond to the Class II reference points used in 1:200,000-scale surveying. The determinations at reference points can be regarded in their accuracy as being Class I reference points. In plan, the observation points may be tied in through 1:100,000-scale topographic maps and air-photo survey material. Barometric leveling with 3 aneroids is recommended for tying in the points in elevation.

[Abstracter's note: Complete translation]

Card 2/2