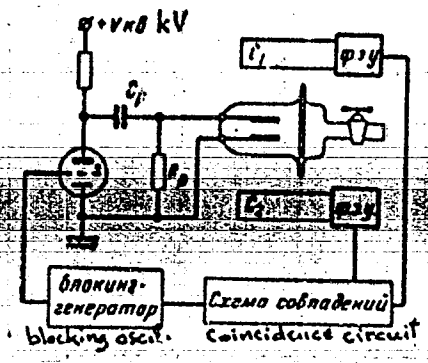
"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

S/120/63/000/001/006/072
E032/E314

Some characteristics of ....

SUBMITTED: April 2, 1962

Fig. 1:



Card 4/4

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AID Nr. 993-8 19 June

BAYUKOV, Yu. D

A NEW SPARK COUNTER (USSR)

Bayukov, Yu. D., G. A. Leksin, D. A. Suchkov, and V. V. Telenkov.
Pribory i tekhnika eksperimenta, no. 2, Mar-Apr 1963, 45-47.
S/120/63/000/002/009/041

A new spark counter with a high voltage power supply for recording secondary π-mesons generated in the reaction $\pi^- + p \rightarrow \pi^+ + n$ is described. The counter, characterized by the small amount of matter in the path of the inoident particles, consists of 8 electrodes, placed into a cylindrical brass case, forming 4 spark gaps. The electrodes are made of aluminum foil 7 μ thick stretched between steel rings. The spark counter is evacuated to a pressure of 10^{-1} to 10^{-2} mm Hg and then filled with neon gas until atmospheric pressure is reached. The sparks are photographed in two mutually perpendicular directions. The recovery time for the generator which produces the high-voltage pulses is about 1 sec. [CS]

Card 1/1

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BAYUL, Ye., inzh.; GRADIL', V., inzh.

Manufacturing stockings and socks from the "Elastic" fibers.
Prom. Arm. 4 no.7:53-55 Jl '61. (MIRA 14:7)
(Leninakan—Hosiery industry)

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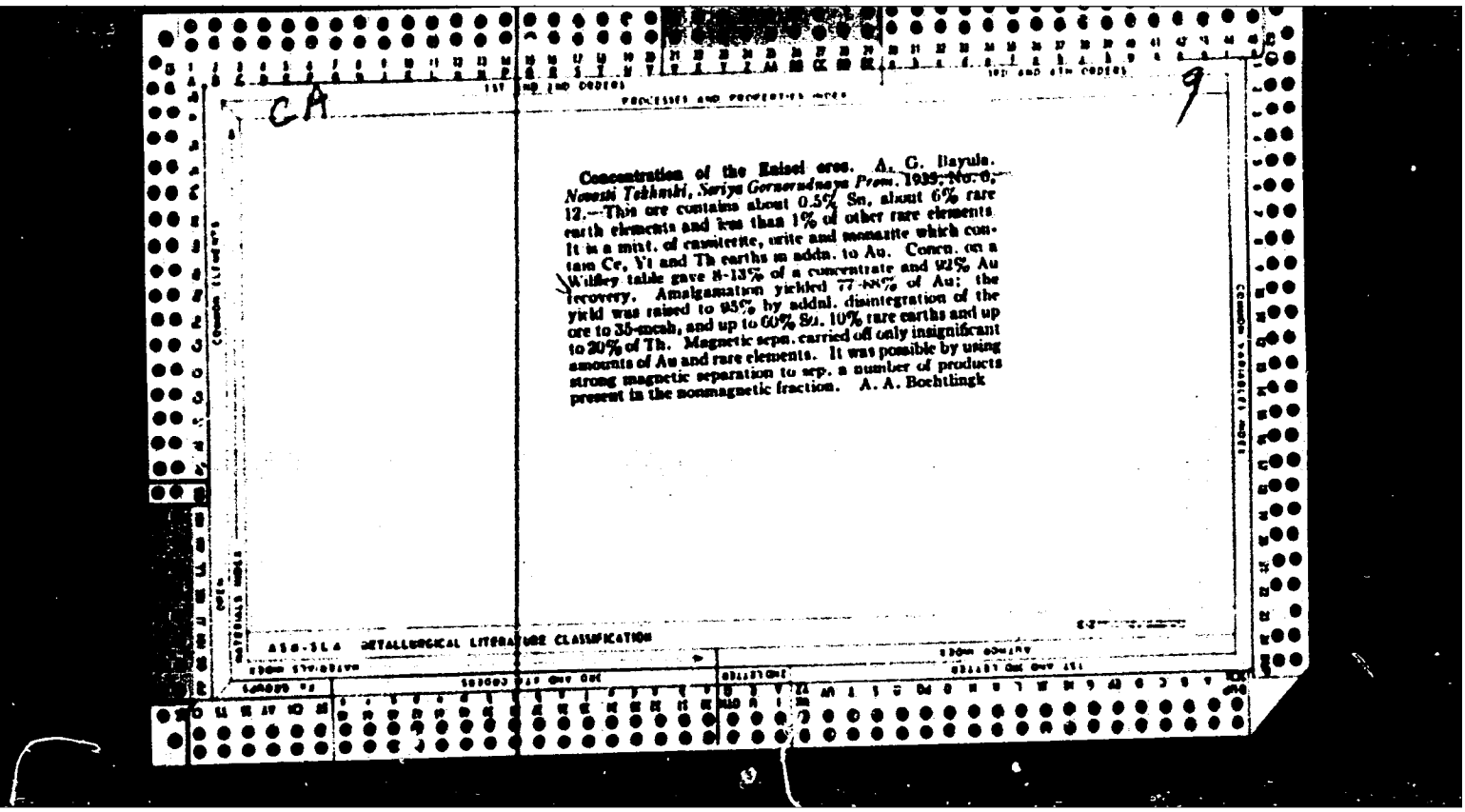

CA

9

PROCESSES AND PROPERTIES INDEX

Concentration of the Enisei ores. A. G. Bayula. *Novosti Tekhniki, Seriya Gornorudnaya Prom.* 1935, No. 6, 12.—This ore contains about 0.5% Sn, about 6% rare earth elements and less than 1% of other rare elements. It is a mixt. of cassiterite, orite and monazite which contain Ce, Yt and Th earths in addn. to Au. Concn. on a Wilfley table gave 8-13% of a concentrate and 92% Au recovery. Amalgamation yielded 77-88% of Au; the yield was raised to 95% by addnl. disintegration of the ore to 35-mesh, and up to 60% Sn, 10% rare earths and up to 20% of Th. Magnetic sepn. carried off only insignificant amounts of Au and rare elements. It was possible by using strong magnetic separation to sep. a number of products present in the nonmagnetic fraction. A. A. Boehtlingk

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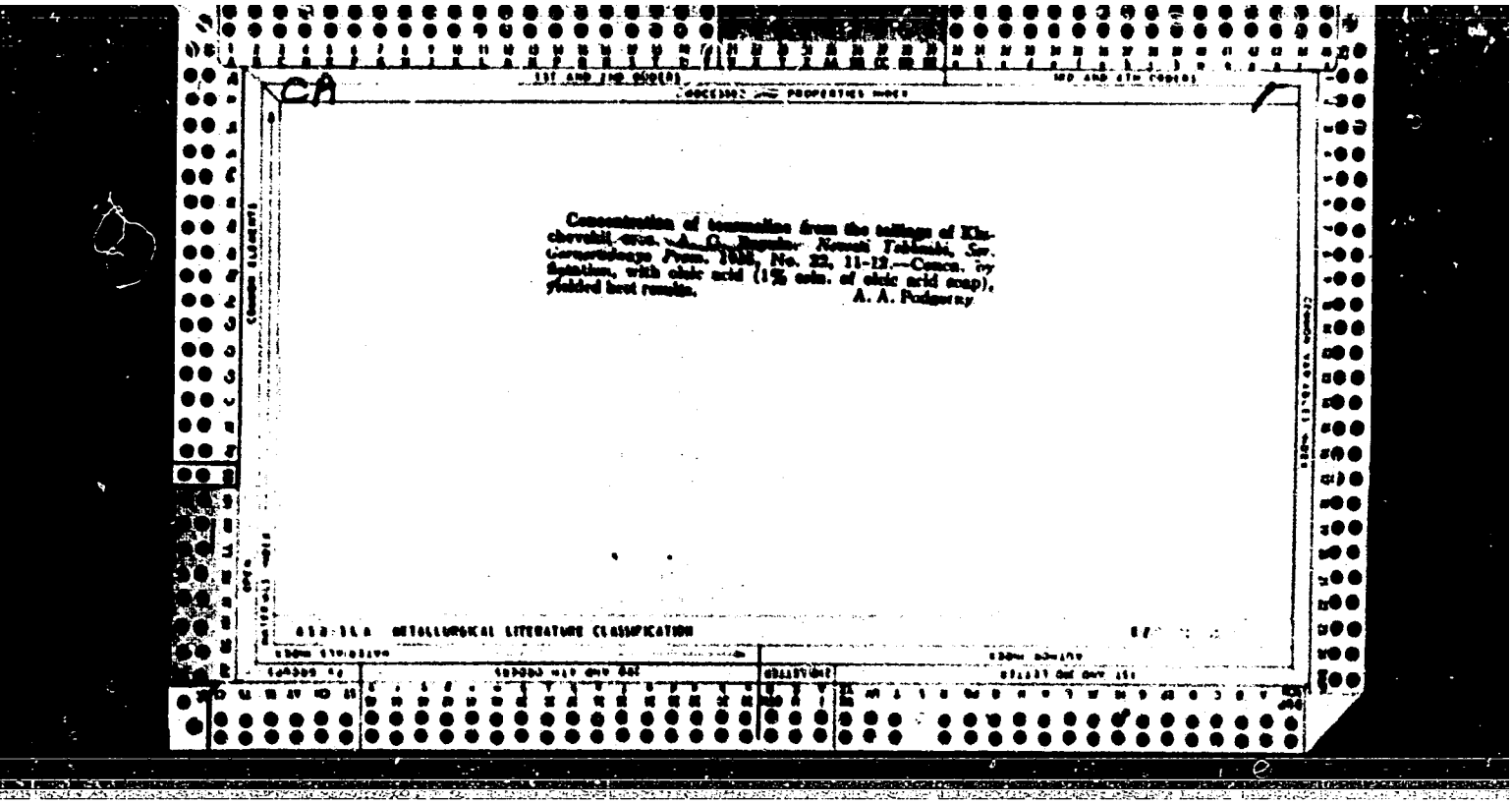
CA

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX



Concentration of tourmaline from the tailings of Kluchevskii [illegible]. A. G. [illegible] Novosti Tekhniki, Ser. Gornorudnaya Prom. [illegible], No. 22, 11-12.—Concn. by flotation, with oleic acid (1% soln. of oleic acid soap), yielded best results.

A. A. Podgorny

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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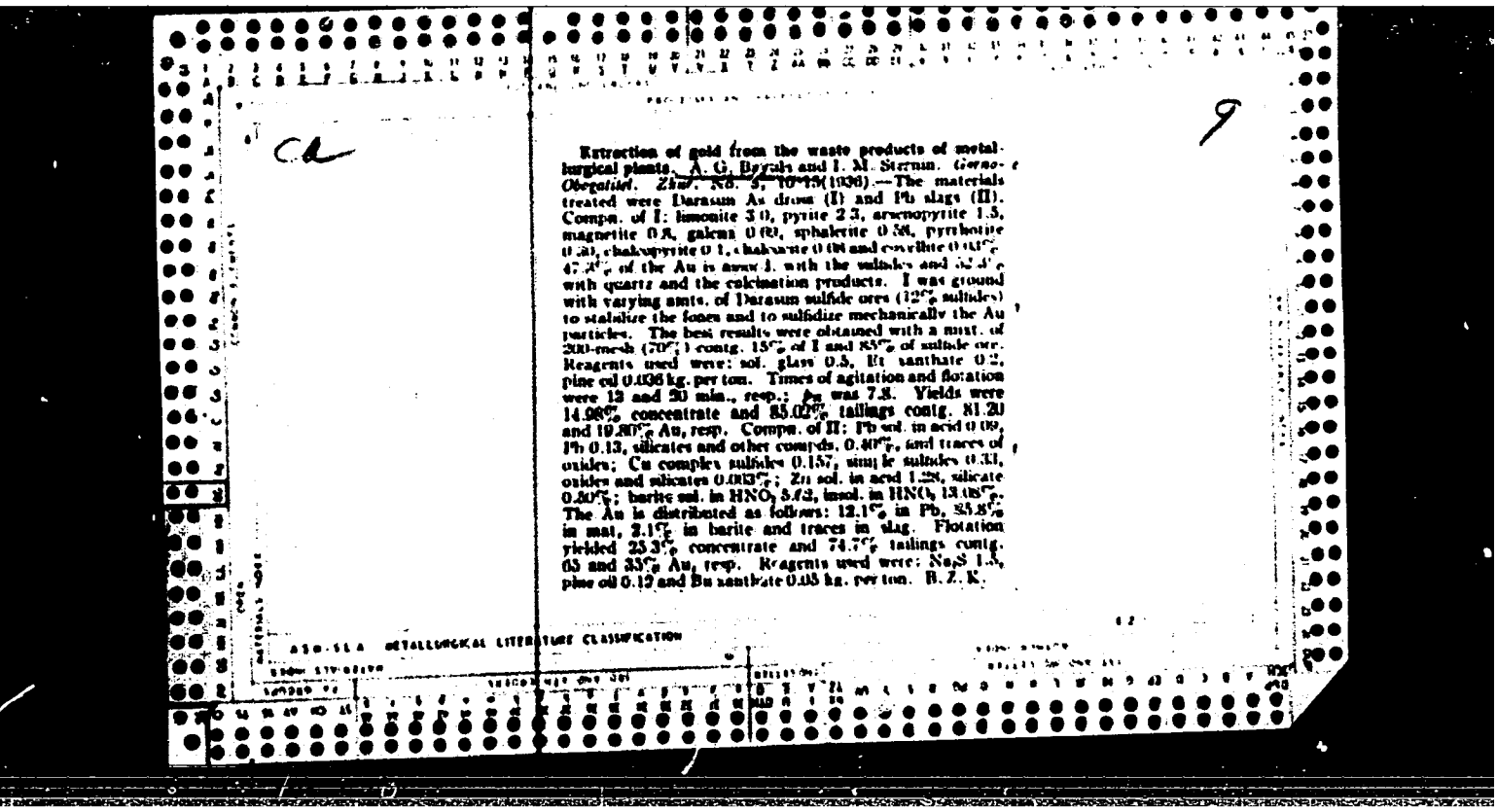

Extraction of gold from the waste products of metallurgical plants. A. G. Bergeh and I. M. Sternin. *Gorno-Obogatitel. Zhur.* No. 5, 10-15(1936).—The materials treated were Darasum As dross (I) and Pb slags (II). Compn. of I: limonite 3.0, pyrite 2.3, arsenopyrite 1.5, magnetite 0.8, galena 0.62, sphalerite 0.58, pyrrhotite 0.31, chalcopyrite 0.1, chalcocite 0.08 and covellite 0.01%; 47.3% of the Au is assoc'd. with the sulfides and 52.7% with quartz and the calcination products. I was ground with varying amts. of Darasum sulfide ores (12% sulfides) to stabilize the foam and to sulfidize mechanically the Au particles. The best results were obtained with a mixt. of 200-mesh (70%) contg. 15% of I and 85% of sulfide ore. Reagents used were: sol. glass 0.5, Et xanthate 0.2, pine oil 0.036 kg. per ton. Times of agitation and flotation were 12 and 20 min., resp.; pH was 7.8. Yields were 14.98% concentrate and 85.02% tailings contg. 81.20 and 19.80% Au, resp. Compn. of II: Pb sol. in acid 0.09, Pb 0.13, silicates and other compds. 0.40%, and traces of oxides; Cu complex sulfides 0.157, simple sulfides 0.31, oxides and silicates 0.083%; Zn sol. in acid 1.28, silicate 0.80%; barite sol. in HNO_3 5.73, insol. in HNO_3 13.08%. The Au is distributed as follows: 12.1% in Pb, 85.8% in mat., 2.1% in barite and traces in slag. Flotation yielded 25.3% concentrate and 74.7% tailings contg. 65 and 35% Au, resp. Reagents used were: Na_2S 1.5, pine oil 0.12 and Bu xanthate 0.05 kg. per ton. B. Z. K.

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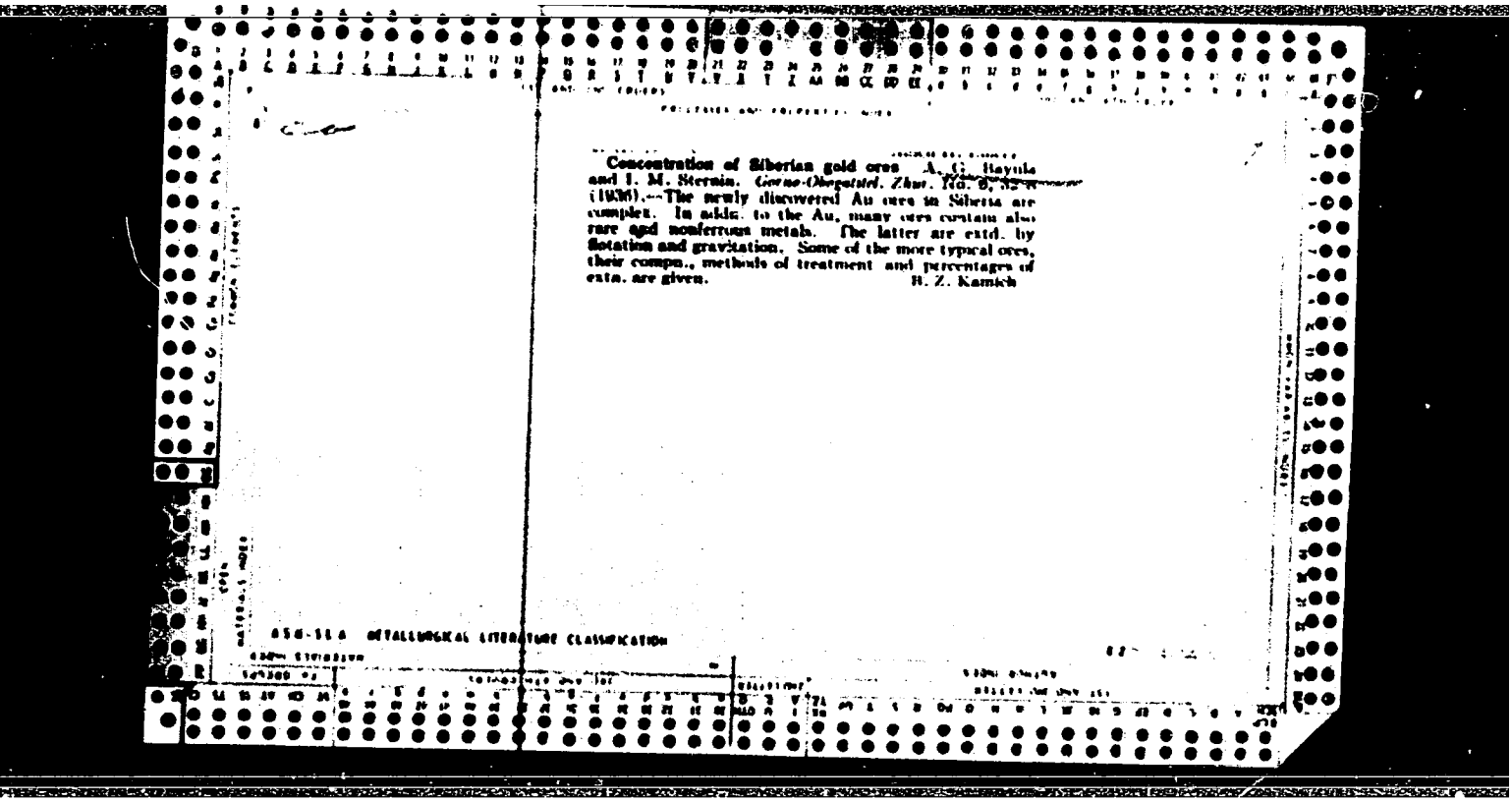

Concentration of Siberian gold ores A. G. Bayula and I. M. Sternin. *Gorno-Obogatitel. Zhur.* No. 6, 32-8 (1936).—The newly discovered Au ores in Siberia are complex. In addn. to the Au, many ores contain also rare and nonferrous metals. The latter are extd. by flotation and gravitation. Some of the more typical ores, their compn., methods of treatment and percentages of extn. are given. B. Z. Kamich

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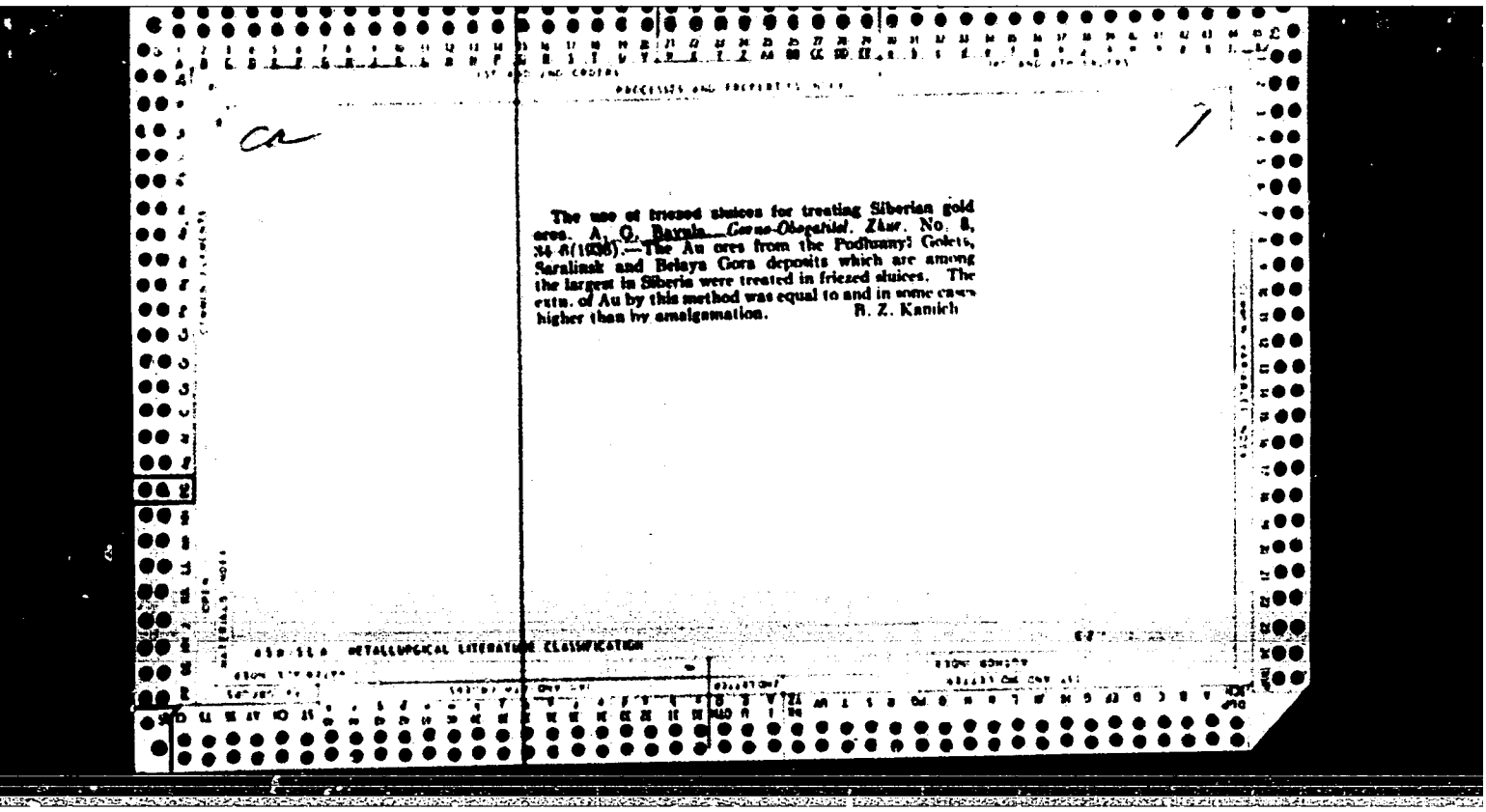
PROCESSES AND PROPERTIES INDEX

Ca

1



The use of friezed sluices for treating Siberian gold ores. A. G. Bayula. *Gorno-Obogatitel. Zhur.* No. 8, 34-6(1936).—The Au ores from the Podlunnyi Golets, Saralinsk and Belaya Gora deposits which are among the largest in Siberia were treated in friezed sluices. The extn. of Au by this method was equal to and in some cases higher than by amalgamation. B. Z. Kamich

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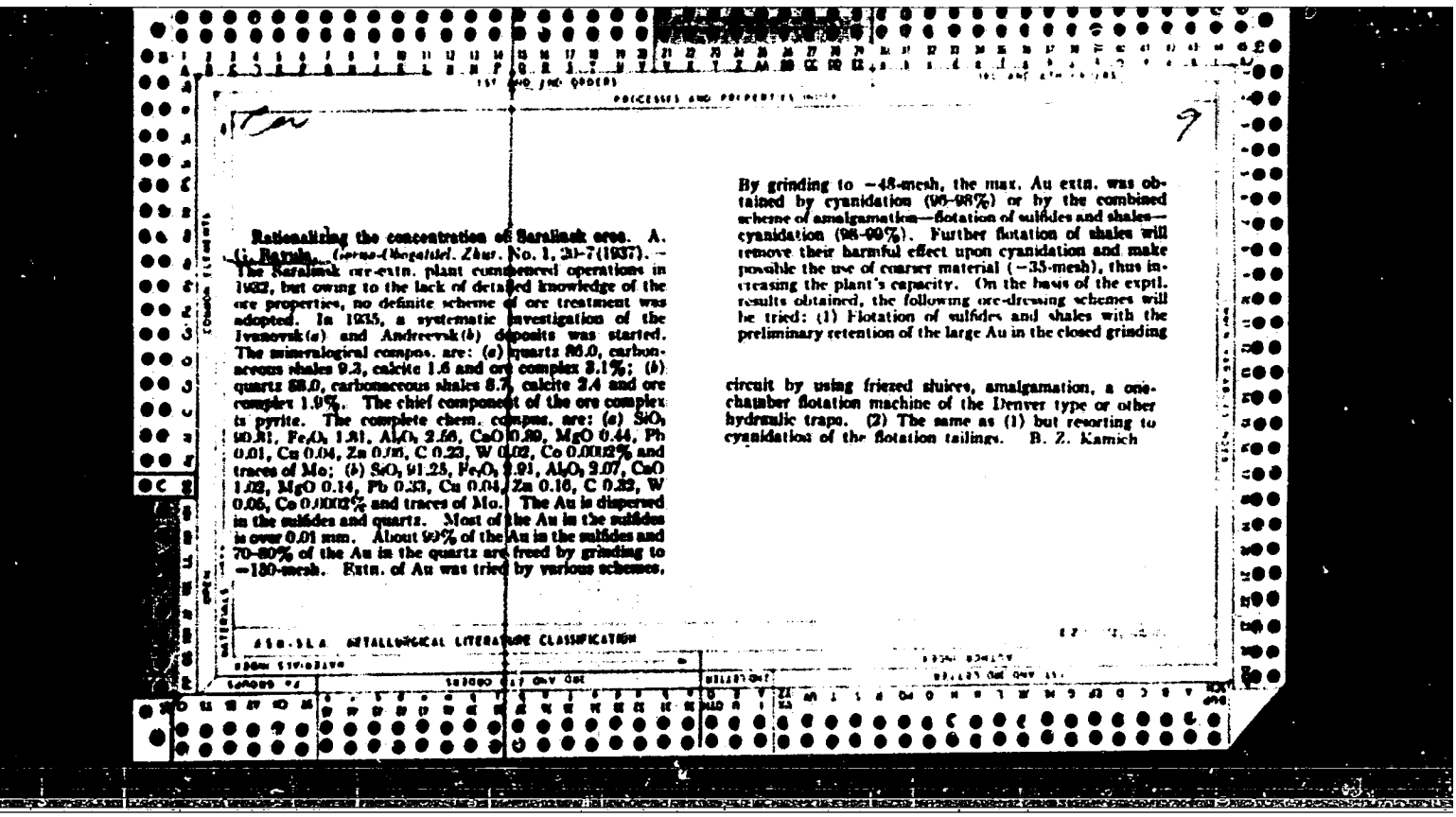
1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

9



Rationalizing the concentration of Saralinsk ores. A. G. Bayula. *Gorno-Obogatitel. Zhur.* No. 1, 20-7(1937). — The Saralinsk ore-extn. plant commenced operations in 1932, but owing to the lack of detailed knowledge of the ore properties, no definite scheme of ore treatment was adopted. In 1935, a systematic investigation of the Ivanovsk(*a*) and Andreevsk(*b*) deposits was started. The mineralogical compos. are: (*a*) quartz 86.0, carbonaceous shales 9.3, calcite 1.6 and ore complex 3.1%; (*b*) quartz 88.0, carbonaceous shales 8.7, calcite 2.4 and ore complex 1.9%. The chief component of the ore complex is pyrite. The complete chem. compos. are: (*a*) SiO_2 90.81, Fe_2O_3 1.81, Al_2O_3 2.56, CaO 0.89, MgO 0.44, Pb 0.01, Cu 0.04, Zn 0.06, C 0.23, W 0.02, Co 0.0002% and traces of Mo; (*b*) SiO_2 91.25, Fe_2O_3 2.91, Al_2O_3 2.07, CaO 1.02, MgO 0.14, Pb 0.33, Cu 0.04, Zn 0.16, C 0.32, W 0.05, Co 0.0002% and traces of Mo. The Au is dispersed in the sulfides and quartz. Most of the Au in the sulfides is over 0.01 mm. About 99% of the Au in the sulfides and 70-80% of the Au in the quartz are freed by grinding to −180-mesh. Extn. of Au was tried by various schemes. By grinding to −48-mesh, the max. Au extn. was obtained by cyanidation (96-98%) or by the combined scheme of amalgamation—flotation of sulfides and shales—cyanidation (98-99%). Further flotation of shales will remove their harmful effect upon cyanidation and make possible the use of coarser material (−35-mesh), thus increasing the plant's capacity. On the basis of the exptl. results obtained, the following ore-dressing schemes will be tried: (1) Flotation of sulfides and shales with the preliminary retention of the large Au in the closed grinding circuit by using friezed sluices, amalgamation, a one-chamber flotation machine of the Denver type or other hydraulic traps. (2) The same as (1) but resorting to cyanidation of the flotation tailings. B. Z. Kamich

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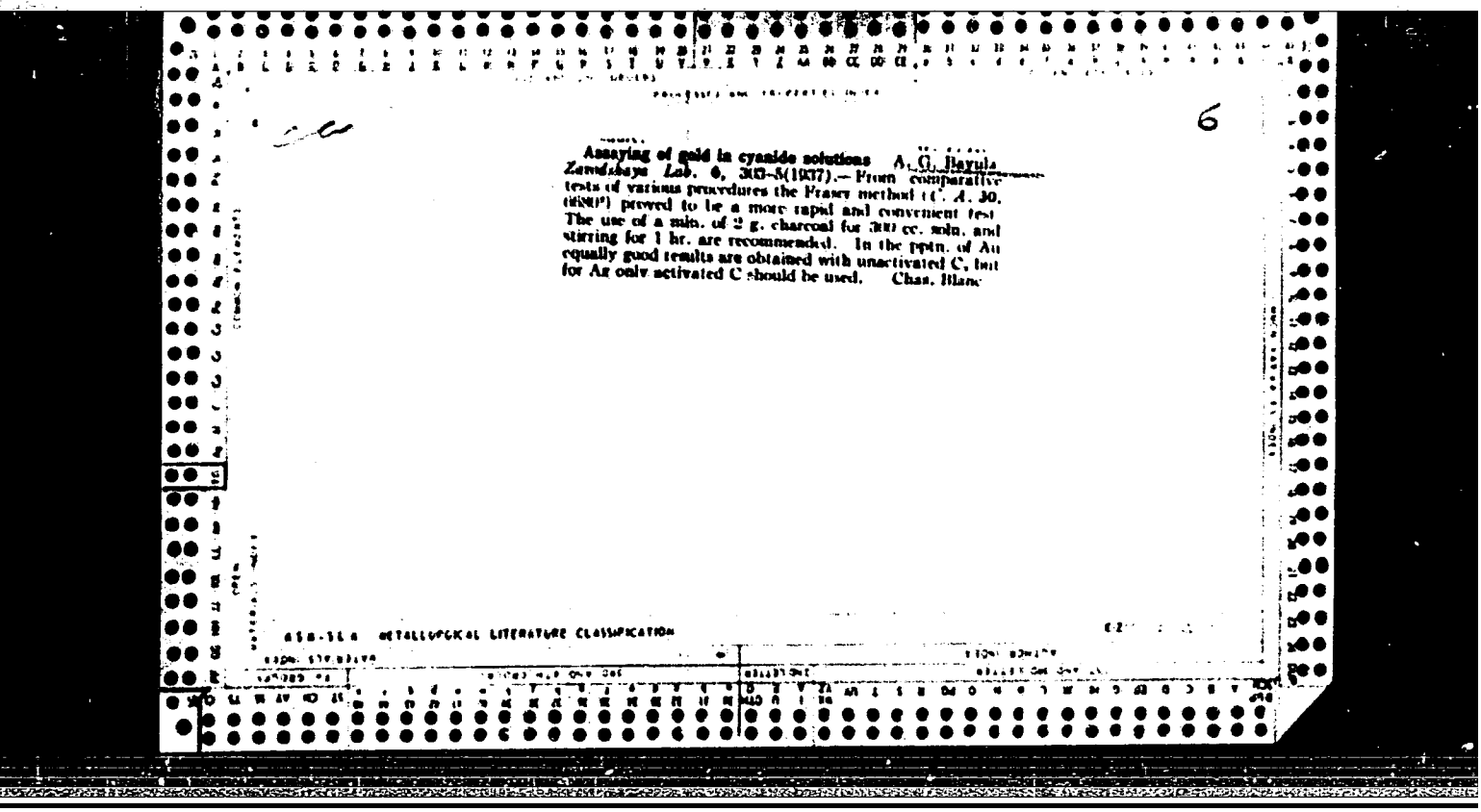

6

Assaying of gold in cyanide solutions A. G. Bayula *Zavodskaya Lab.* 6, 303–8(1937).— From comparative tests of various procedures the Fraser method (*C. A.* 30, 6801) proved to be a more rapid and convenient test. The use of a min. of 2 g. charcoal for 300 cc. soln. and stirring for 1 hr. are recommended. In the pptn. of Au equally good results are obtained with unactivated C, but for Ag only activated C should be used. Chas. Blanc

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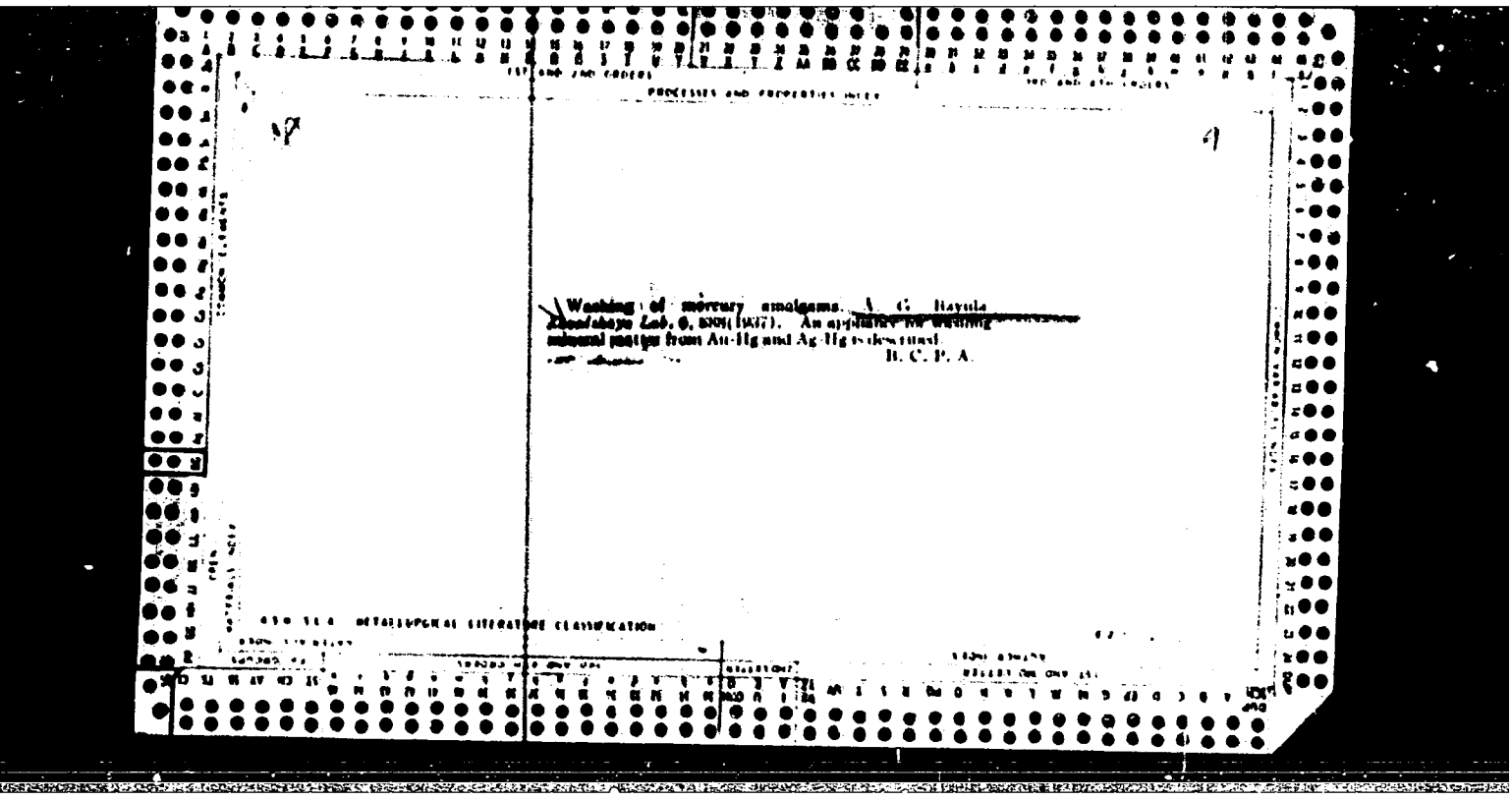
PROCESSES AND PROPERTIES INDEX



Washing of mercury amalgams. A. G. Bayula. Zhoolshaya Lab. 6, 8301(1937). An appliance for washing mineral matter from Au-Hg and Ag-Hg is described.

B. C. P. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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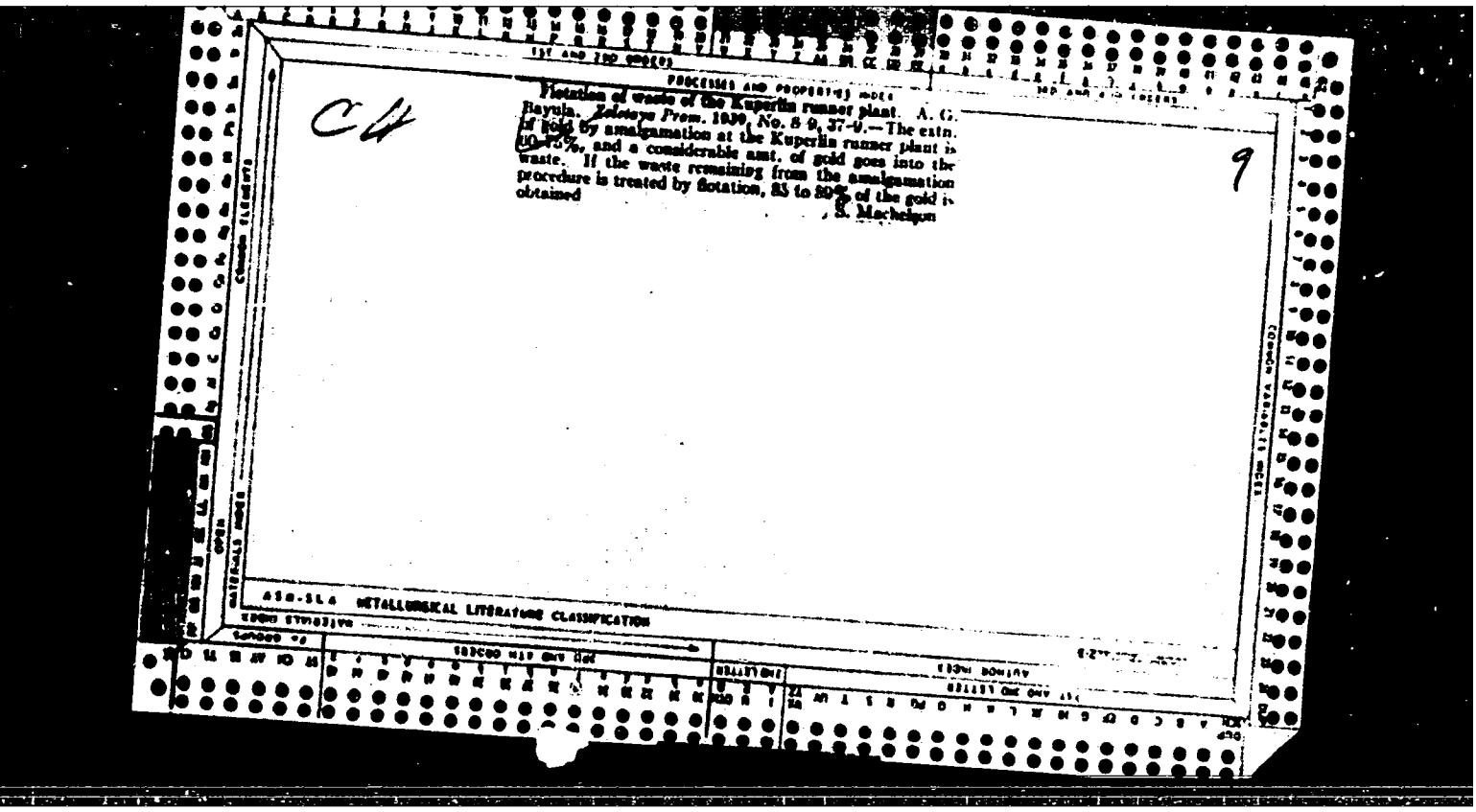

C4

9

Flotation of waste of the Kuperlin runner plant. A. G. Bayula. *Zolotaya Prom.* 1939, No. 8 9, 37-9.—The extn. of gold by amalgamation at the Kuperlin runner plant is 60-75%, and a considerable amt. of gold goes into the waste. If the waste remaining from the amalgamation procedure is treated by flotation, 85 to 89% of the gold is obtained

S. Machelgin

A58-SL4 METALLURGICAL LITERATURE CLASSIFICATION

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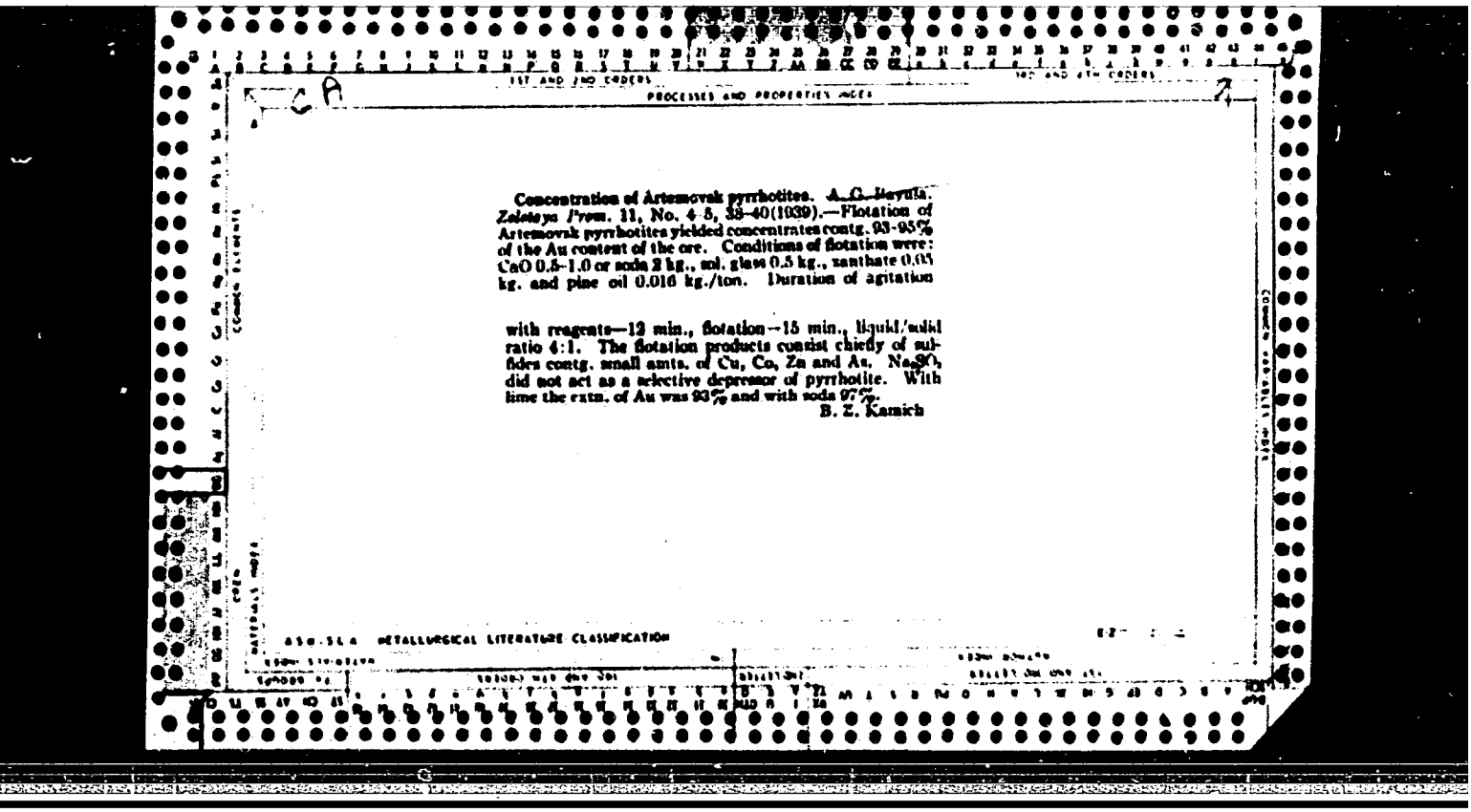

PROCESSES AND PROPERTIES INDEX

Concentration of Artemovsk pyrrhotites. A. G. Bayuta. *Zolotaya Prom.* 11, No. 4-5, 38-40(1939).—Flotation of Artemovsk pyrrhotites yielded concentrates contg. 93-95% of the Au content of the ore. Conditions of flotation were: CaO 0.5-1.0 or soda 2 kg., sol. glass 0.5 kg., xanthate 0.03 kg. and pine oil 0.016 kg./ton. Duration of agitation with reagents—12 min., flotation—15 min., liquid/solid ratio 4:1. The flotation products consist chiefly of sulfides contg. small amts. of Cu, Co, Zn and Au. Na_2SO_3 did not act as a selective depressor of pyrrhotite. With lime the extn. of Au was 93% and with soda 97%.

B. Z. Kamich

METALLURGICAL LITERATURE CLASSIFICATION

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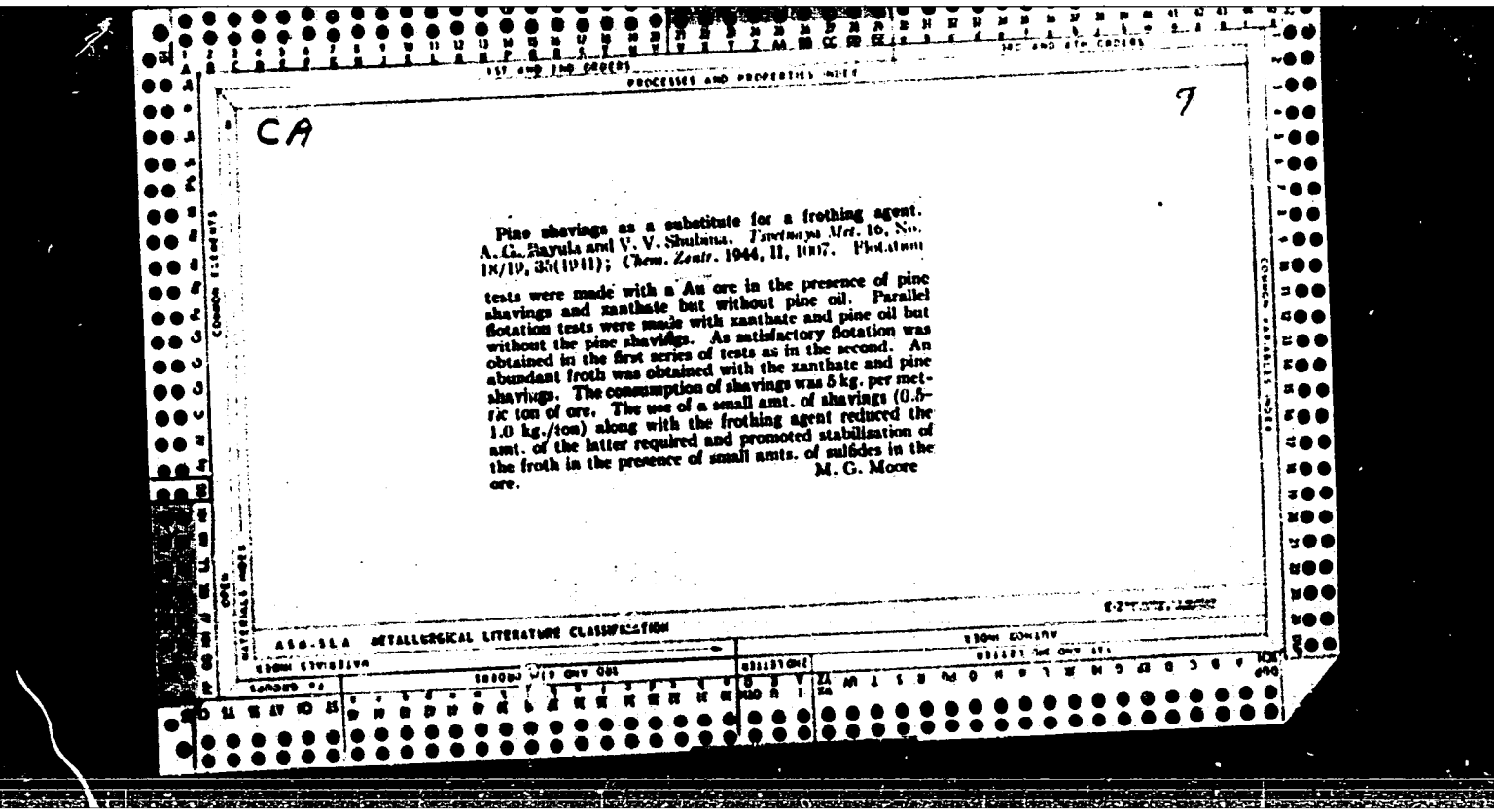

CA

7

Pine shavings as a substitute for a frothing agent. A. G. Bayuls and V. V. Shulaina. *Tsvetnye Met.* 16, No. 18/19, 35(1941); (*Chem. Zentr.* 1944, II, 1017. Flotation tests were made with a Au ore in the presence of pine shavings and xanthate but without pine oil. Parallel flotation tests were made with xanthate and pine oil but without the pine shavings. As satisfactory flotation was obtained in the first series of tests as in the second. An abundant froth was obtained with the xanthate and pine shavings. The consumption of shavings was 5 kg. per metric ton of ore. The use of a small amt. of shavings (0.5–1.0 kg./ton) along with the frothing agent reduced the amt. of the latter required and promoted stabilization of the froth in the presence of small amts. of sulfides in the ore.

M. G. Moore

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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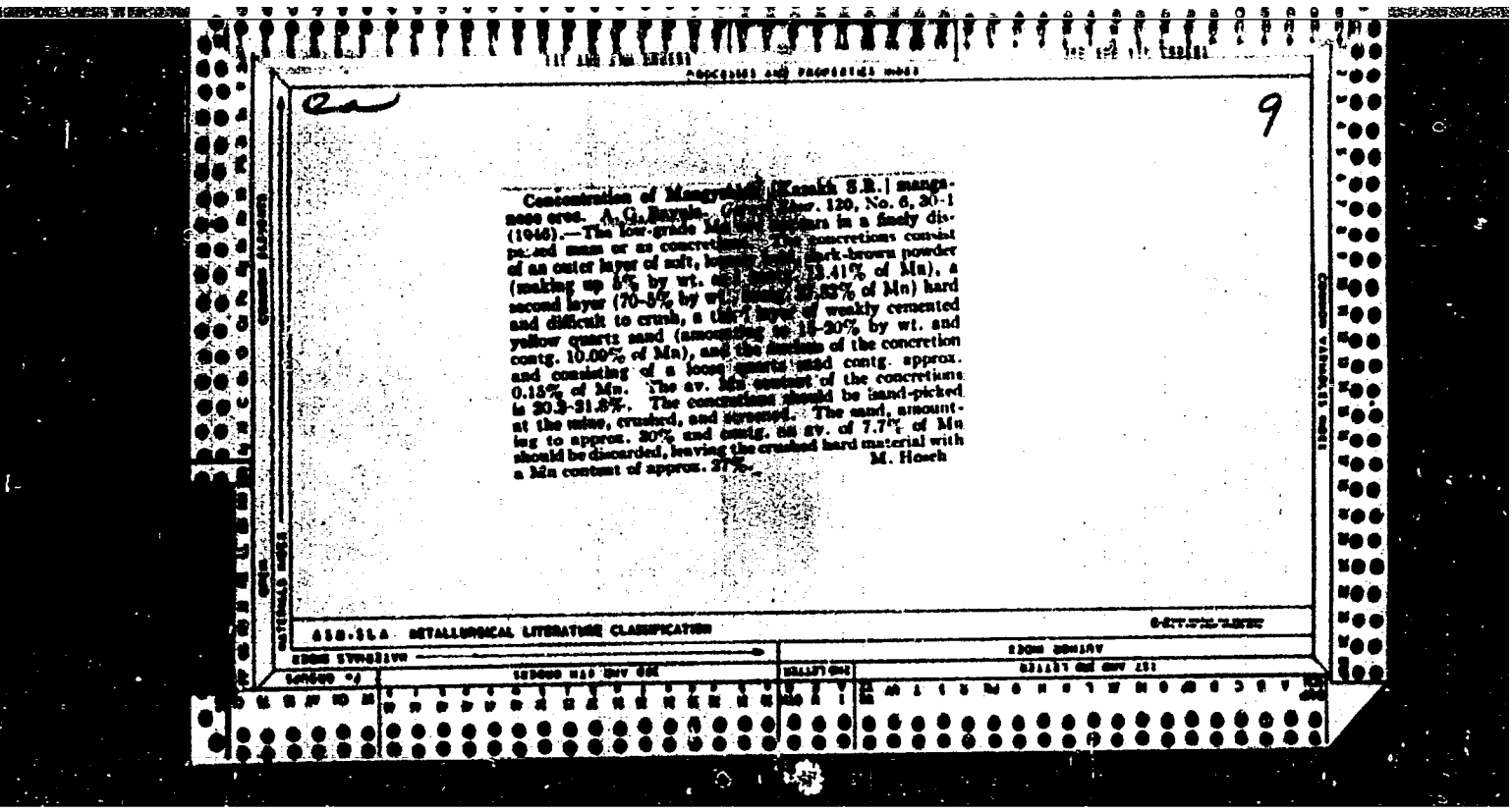

PROCESSES AND PROPERTIES INDEX

2a

9

Concentration of Mangyshlak [Kazakh S.R.] manganese ores. A. G. Bayula. Gornyi Zhur. 120, No. 6, 30-1 (1946).—The low-grade Mn [illegible] occurs in a finely dispersed mass or as concretions. The concretions consist of an outer layer of soft, loosely [illegible] dark-brown powder (making up 5% by wt. and [illegible] 13.41% of Mn), a second layer (70-5% by wt. [illegible] 37.82% of Mn) hard and difficult to crush, a third layer of weakly cemented yellow quartz sand (amounting to 15-20% by wt. and contg. 10.09% of Mn), and the [illegible] of the concretion and consisting of a loose quartz sand contg. approx. 0.15% of Mn. The av. Mn content of the concretions is 20.3-21.8%. The concretions should be hand-picked at the mine, crushed, and screened. The sand, amounting to approx. 30% and contg. on av. of 7.7% of Mn should be discarded, leaving the crushed hard material with a Mn content of approx. 27%.

M. Hosch

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BAYULA, A.G.

Height of riffles on concentration tables. Soob. DVFAN SSSR no.7: 12-16 '55. (MLRA 10:4)

1. Dal'nevostochnyy filial im. V. L. Komarova AN SSSR.
(Ore dressing)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G., kandidat tekhnicheskikh nauk.

Feasibility of establishing an index of technical effectiveness and best indexes for the ore dressing process. Ugol' 31 no.10:33-36 O '56. (MLRA 9:11)

1. Dal'nevostochnyy filial Akademii nauk SSSR.
(Ore dressing)

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137-58-6-11336

Flotation of Settling-tank Residues at Plants Milling Complex Ores

ethyl xanthate 0.05, acidol 0.15. The Pb and Zn concentrates obtained after roasting and flotation contain 42-45% Pb or Zn respectively.

A.Sh.

1. Ores--Processing 2. Ores--Floation

Card 2/2

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MOROZOVA, O.V.; BAYULA, A.G.; VINOKUROVA, Ye.A.; KOZLOV, V.N.

Frothing agents from wates of gum-turpentine production. Gidroliz. i lesokhim. prom. 10 no.8:10-12 '57. (MIRA 10:12)

1. Dal'nevostochnyy i Ural'skiy filialy AN SSSR.
(Flotation) (Turpentine industry)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.; SHMEL'KOVA, O.P.; ALEKHINA, K.N.

Flotation of liptobiolithic and humus types of coal. Soob. DVFAN SSSR no.9:35-41 '58. (MIRA 12:4)

1. Dal'nevostochnyy filial im. V.L.Komarova AN SSSR.
(Coal preparation) (Flotation)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.

Efficient arrangement for the flotation of ores of nonferrous metals. Soob.DVFAN SSSR no.9:43-51 '58. (MIRA 12:4)

1. Dal'nevostochnyy filial im. V.L.Komarova AN SSSR.
(Nonferrous metals) (Flotation)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.

Behavior of accessory minerals on the concentration table. Izv. Sib.otd.AN SSSR no.12:43-48 '59. (MIRA 13:5)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR.
(Ore dressing)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.; YAMPOL'SKAYA, M.Ya.; L'VOVA, R.T.

Flotation of fluorite from silicate ores of the Far East. Izv. Sib.otd.AN SSSR no.2:38-45 '60. (MIRA 13:6)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR.
(Fluorite) (Flotation)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.

Efficient systems for concentrating ores containing tin. Soob.DVFAN SSSR no.10:135-141 '59. (MIRA 13:11)

1. Dal'nevostochnyy filial imeni V.L.Komarova Sibirskogo otdeleniya AN SSSR.
(Tin--Metallurgy) (Ore dressing)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.; ALEKHINA, K.N.

Application of the phase analysis of lead and zinc compounds to a study of mixed ores of nonferrous metals. Soob.DVFAN SSSR no.10:264-268 '59. (MIRA 13:11)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR.
(Lead ores) (Zinc ores)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.; LOZINSKAYA, V.S.

Studying the effect of arsenic on the results of determining tin by the iodometric method. Sooh.DVFAN SSSR no.12:49-52 '60.
(MIRA 13:11)

1. Dal'nevostochnyy filial imeni V.L.Komarova Sibirskogo otdeleniya AN SSSR.
(Arsenic) (Tin--Analysis) (Iodometry)

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.; LOZINSKAYA, V.S.

Studying the possibility of producing lightweight sintered materials from andesite basalts of the Maritime Territory. Soob.DVFAN SSSR no.13:51-55 '60. (MIRA 14:3)

1. Dal'novostochnyy filial im. V.L.Komarova Sibirskogo otdeleniya AN SSSR.
(Maritime Territory—Basalt) (Stone, Cast)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.; GRYAZNOVA, V.T.

Use of chlorinated roasting for the production of highly standardized tin products from polymetallic ores of the Maritime Territory. Soob. DVFAN SSSR no. 15:43-46 '62. (MIRA 17:9)

1. Dal'nevostochnyy filial imeni Komarova Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

S/032/62/028/002/010/037
B101/B110

AUTHORS: Bayula, A. G., and Mel'nikova, N. M.

TITLE: Determination of tin in materials of high silicic acid content

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 2, 1962, 166

TEXT: To eliminate the effect of silicic acid, and to lower its adsorption properties, tin is reduced with the twofold excess of metallic aluminum (2 - 4 g of Al for a weighed portion of 1 g). In this case, separation of silicic acid is not necessary. To increase the accuracy of tin titration by iodine, oxygen is kept off by a simple vessel stopper. [Abstracter's note: Complete translation.]

ASSOCIATION: Dal'nevostochnyy filial Sibirskogo otdeleniya Akademii nauk SSSR (Far Eastern Branch of the Siberian Department of the Academy of Sciences USSR)

Card 1/1

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.; CHUPAKHIN, N.I.; ZAKASOVSKAYA, M.V.; YAROSHEVSKAYA, N.F.

Concentration of poor carbonate-phosphate ores of the Tigrovaya Pad' deposit. Soob. DVFAN SSSR no.17:27-31 '63.
(MIRA 17:9)

1. Dal'nevostochnyy filial im. V.L. Komarova Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYULA, A.G.; MEL'NIKOVA, N.M.

Possibility of a complex dressing of collective concentrates using chlorinated roasting at low temperatures. Soob. DVFAN SSSR no.17: 33-37 '63. (MIRA 17:9)

1. Dal'nevostochnyy filial im. V.L. Komarova Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

S/075/60/015/004/027/030/XX
B020/B064

AUTHORS: Bayulescu, G., Lazár, C., and Cristescu, C.

TITLE: The Problem of Organic Reagents for Osmium

PERIODICAL: Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 4, pp. 505 - 506

TEXT: L. Chugayev (Ref. 1) showed that a red color appears when solutions containing osmium in the form of OsO_4 or chlorosmate are heated in the presence of thiourea and some drops of HCl, due to the formation of the compound $[Os(H_2N - CS - NH_2)_6]Cl_3 \cdot H_2O$. Z. Bardodëj (Ref. 5) regards >CS as the functional-analytical group for Os and Ru. He found that OsO_4, together with $(H_2N)_2CS$, $CS(NHC_6H_5)_2$, and $H_2NCSNHNH_2$, gives a red color, and with $H_2NCSNHC_6H_5$, $CS(NHCH_3)_2$, $SC[N(CH_3)_2]_2$, NH_4SCN, and $NaCSN(C_2H_5)_2$ a violet color The authors aimed at studying the reactions of osmium with two substituted thiourea

Card 1/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

The Problem of Organic Reagents for Osmium

S/075/60/015/004/027/030/XX
B020/B064

derivatives: 4-acetyl amino benzaldehyde thiosemicarbazone (I) and 4-nitrobenzaldehyde semicarbazone (II). Compound I is used for the treatment of tuberculosis, under the name "Tebezon" or TB_1. Reagent I is used as a 0.1% solution in 1% NaOH, and reagent II, as a 0.05% solution in 1% NaOH. Both solutions are used when still fresh. Under the above-described conditions, osmium, together with reagent I, forms a brown precipitate which dissolves after the addition of ethyl alcohol to a yellow-brown solution whose color depends on the osmium concentration. A red-brown solution results from reagent II after the addition of ethyl alcohol. A perpendicular Pulfrich photometer was used to determine osmium. The maximum optical density was obtained in both cases with the filter M_{43} (4360 A). The results are given in a table and in Figs. 1 and 2. When using reagent I it is possible to determine 1.2 - 14.7 γ Os/ml, and with reagent II, 0.49 - 8.60 γ Os/ml. Both reagents are more sensitive than thiourea which permits the determination of 8 - 40 γ Os/ml. The increase in sensitivity may be explained by the presence of the nitro group causing an increase of the polarity of groups in the para position. There are 2 figures 1 table, and

Card 2/3

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

The Problem of Organic Reagents for Osmium

S/075/60/015/004/027/030/XX
B020/B064

6 references: 1 French, 2 US, 1 Austrian, 1 Czech, and 1 German.

ASSOCIATION: Universitet im. K. I. Parkhona, Bukharest (Rumyniya)
(C. I. Parhon University, Bucharest (Rumania))

SUBMITTED: November 25, 1959

Card 3/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

SEREBROV, M.A., kand.meditsinskikh nauk; BAYUN, V.N., starshiy nauchnyy sotrudnik

Potentiated anesthesia as a method for combatting shock. Ortrop. travm.i protez. 21 no.4:66-67 Ap '60. (MIRA 13:9)

1. Iz mediko-fiziologicheskogo otdela (nach. - M.A. Serebrov) TSentral'noy nauchno-issledovatel'skoy laboratorii po gornospasatel'noy delu (nach. - K.Yu.Kaminskiy).
(SHOCK) (ARTIFICIAL HIBERNATION)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

SKREBROV, M.A.; GORDEYEVA, A.P.; BAYUN, V.N.

True rupture of the healthy heart. Khirurgiia 36 no.3:120-121 Mr '60. (MIRA 13:12)

(HEART—DISEASES)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYUNCHIKOV, V. A., NOVIKOV, B. A.

"Possibilities in Applying a Hydraulic Percussion Turbo-Drill in Geological Exploration"

(New Developments in the Methods and Techniques of Geological Exploration) Leningrad, Gostoptekhizdat, 1958. 423 p. (Series: Its: Sbornik trudov I)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYUNCHIKOV, V.A.; NOVIKOV, B.A.

Possibility of using the hydraulic perforation method in geological prospecting. Trudy VITR no.1:413-421 '58. (MIRA 12:1)

(Boring machinery)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

SHITIKHIN, V.V.; KURMASHEV, A.M.; BAYUNCHIKOVA, Z.V.; STOLYAROV, A.G., red.izd-va; BYKOVA, V.V., tekhn.red.

[Exploratory directional drilling] Burenie napravlennykh geologorazvedochnykh skvazhin. Moskva, Gosgeoltekhizdat, 1960. 119 p. (MIRA 15:5)

(Boring)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYUNOV, V.I.; PODMOSHENSKIY, V.P.

High-voltage pulse generator using high-frequency magnetic materials for charge ignition. Zav.lab. 28 no.5:627-628 '62. (MIRA 15:6)

(Electric generators)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYUKOV, V.I.; DEMIDOV, M.I.; FOMOSHENSKIY, I.V.

Spectrochronograph with image converter. Usp.nauch.fot. 9:76-78 '64. (MIRA 18:11)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

L 11061-66 EWT(1)/EWA(h) IJP(c)

ACC NR: AT5001388 SOURCE CODE: UR/3180/64/009/000/0076/0078

AUTHOR: Bayunov, V. I.; Demidov, M. I.; Podmoshenskiy, I. V.

61
B+1

ORG: none

TITLE: Spectrochronograph with an image converter

SOURCE: AN SSSR. Komissiya po nauchnoy fotografii i kinematografii. Uspekhi nauchnoy fotografii, v. 9, 1964. Vysokoskorostnaya fotografiya i kinematografiya (High-speed photography and cinematography), 76-78 and insert facing page 81

TOPIC TAGS: image converter, plasma diagnostics, spectrographic camera

ABSTRACT: Using PIM-type converters with an amplifier, the authors constructed an attachment to mass produce spectrographs for the high speed recording of various portions of the spectrum, i. e., they developed an electron optical spectrochronograph. In order to make the instrument as versatile as possible, a high degree of variation was provided for in camera speed and scanning speed. The resulting complexity of the electronic control circuits required the use of 50 electron tubes, 9 semiconductor triodes, and 62 diodes. The instrument permits the photographing of portions of the spectrum up to 10 mm long at frequencies from 1 thousand to 10 million frames/sec for a total number of frames of 3 to 16 and linear scanning with a time resolution to up 10^{-9} sec. Other features and the operation of the apparatus are described. Experi-

Card 1/2

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

L 11061-66
ACC NR: AT6001388

ence with the spectrochronograph shows that the high sensitivity of instruments with image converters and the reliable electrical synchronization with the phenomenon being photographed make them irreplaceable in optical studies of plasma. Orig. art. has: 4 figures.

SUB CODE: 17,14 SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 000

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

GRINENKO, G.S.; BAYUNOVA, V.I.; PODOBRAZHNYKH, S.D.; MAKSIMOV, V.I.

Cyclization of 5-methyl-3-(p-anisyl)-2-carbomethoxy-1-ketocyclopentane-2-acetic acid and its derivatives. Part 15. Zhur. org. khim. 1 no. 12:2140-2146 D '65 (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni Ordzhonikidze. Submitted November 12, 1964.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYUROVA, A. S.

23688

RANNEYE VYYAVLENIYE RAKA SHEYKI MATKI PUTEM MASSOVYKH PROFILAKTIChESKIKH OSMOTROV ZHENSHChIN. AKUSHERSTVO I GINEKOLOGIYA, 1949, No. 4, s. 13-18.

SO: LETOPIS' NO. 31, 1949.

Translation - Earlier Detection of Cancer of the Uterine Neck through Mass Prophylactic Examination of Women," ★

Obstetrical and Gynecological Clinic, Stalingrad Medical Inst.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

5628. BAYUS E. and NIKOLOFF N. * The importance of myotonography and myotonometry in surgery and traumatology - especially in the evaluation of muscular atrophy
KHIRURGIA (Sofia) 1954, 7/5 (264-272) Graphs 7 Illus. 2 (Bulgarian text)

The importance and practical value of myotonographic and myotonometric methods in the evaluation of changes taking place in the muscles are exposed. Two apparatuses, the Sirmay myotonometer and the myotonograph have been employed to this end. The mechanisms as well as the technique in using them are briefly described. This method has served the authors in estimating the state of muscles in atrophy, oedema, endarteritis, after transplantations etc., and has also contributed to building up a correct prognosis, which sometimes was not possible with the clinical data alone.

Conforty - Sofia

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

SIRMAY, Ye., doktor med.; BAYUS, Ye. (Budapesht)

Letter to the editor. Arkh.anat.gist.i embr. 33 no.3:102 Jl-S '56. (MIRA 12:11)
(BUDAPEST--PHYSIOLOGICAL LABORATORIES)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYUSHEVA, M.I.

BAYUSHEVA, M.I.

Conditions for formation and methods of calculation of maximum runoff in the territories of northern and central Kazakhstan. Trudy GGI no.61:262-286 '57. (MIRA 10:12)

(Kazakhstan--Runoff)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYUSHEVA, M.I.

Experimental study of factors controlling the runoff resulting from the melting of snow. Trudy GGI no.71:87-95 '59.
(MIRA 12:5)

(Runoff) (Plowing)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYUSHEVA, M.I.; PAVLENKO, G.V.

Average annual and maximum runoff of rivers in the southern regions of Western Siberia. Trudy Transp.-energ.inst. Sib. otd. AN SSSR no.13: 15-49 '61. (MIRA 15:6)

(Siberia, Western--Runoff)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

KHAYKIN, G.; BAYUSHKIN, A.

Our labor productivity is growing. Sel'.stroi. 16 no.2:21-22 F '62. (MIRA 15:12)

1. Predsedatel' soveta Kalininskoy oblastnoy mezhkolkhoznoy organizatsii (for Khaykin). 2. Glavnyy inzhener Kalininskoy oblastnoy mezhkolkhoznoy organizatsii (for Bayushkin).
(Construction industry—Labor productivity)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

ALEKSEYEV, A.G.; BAYUSHKIN, S.N.; MARKELOV, V.V.; NEBESNYY, A.D.; SOKOLOV, D.V., inzh., red.; VOLNYANSKIY, A.K., glav. red.; TARAN, V.D., red.; SEREBRENNIKOV, S.S., red.; MIKHAYLOV, K.A., red.; STAROVEROV, I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya., red.; CHEKHOVSKAYA, T.P., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Concise manual on electric wiring operations] Kratkii spravochnik proizvoditelia elektromontazhnykh rabot. Pod red. D.V.Sokolova. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 311 p. (MIRA 14:10)

1. Moscow. Gosudarstvennyy proyektnyy institut Tyazhpromelektroproyekt.
(Electric wiring—Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYVAROVSKAYA, Yu.V.; PREOBRAZHENSKAYA, A.I.; STARKOVA, L.M.; SEVAST'YANOVA, Ye.S.

Obtaining a growth stimulant from the oils of Perm Province.
Nefteper. i neftekhim. no.7:8-9 '63 (MIRA 17:7)

1. Permskiy neftepererabatyvayushchiy zavod.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYVAROVSKAYA, Yu.V.; ZUBKOVA, N.A.; PREOBRAZHENSKAYA, A.I.

Efficient rectification of gasoline and the sampling of aromatic hydrocarbons in catalytic reforming. Neftepер. i neftekhim. no.4: 26-27 '65. (MIRA 18:5)

1. Permskiy neftepererabatyvayushchiy zavod.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

KORSUNSKIY, M.I., doktor fiziko-matematicheskikh nauk, professor; LAGUNOV, A.S., kandidat tekhnicheskikh nauk; BAYVEL', L.P., kandidat tekhnicheskikh nauk; SINEL'NIKOV, A.N., kandidat tekhnicheskikh nauk.

Indicator for registering changes in clearances in steam turbines. Energomashinostroenie 3 no.5:26 My '57. (MLRA 10:6)
(Steam turbines)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

S/115/60/000/05/25/034
B007/B011

AUTHORS: Korsunskiy, M. I., Lagunov, A. S., Bayvel', L. P., Sinel'nikov, A. N.

TITLE: Use of Radioactive Isotopes for the Measurement of Vapor Moistness

PERIODICAL: Izmeritel'naya tekhnika, 1960, No. 5, pp 50-52

TEXT: A method of measuring vapor moistness is offered here. It bases on the determination of vapor density after absorption of β-particles. A radioactive sulfur isotope was used for the purpose. Investigations were first conducted in the laboratory. Source activity and counter were selected, the optimum distance between isotope and counter as well as the absorption coefficient were determined. The experimental setup shown in Fig. 1 served for the investigations. The setup is briefly described along with the investigation course. An aluminum vessel prepared for the purpose and shown in Fig. 2 was used as source. Radiometer B-2 (B-2) served as recording device. To determine the vapor density it was necessary to determine the mass absorption coefficient of

Card 1/3

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electrons for which no data were found in publications. The mass absorption coefficient μ' was first determined in the experimental way in the laboratory as the tangent of the inclination angle of curve $\ln \frac{I}{I_0} = f(\varrho d)$. I_0 is the intensity of the electron beam before passing through the material layer, and I the intensity after passing through a layer of a thickness d. ϱ is the absorber density. In this way, $\mu' = 197$ cm^2/g was found for overheated vapor. The vapor density ϱ was then determined from formula (4). With a view to testing the method described here, the system shown in Fig. 3 was assembled at the Khar'kovskiy turbinnyy zavod (Khar'kov Turbine Works). The section through the measured portion is shown in the same figure and described. In this test, $\mu' = 200$ cm^2/g was found for overheated vapor which fits the value obtained in the laboratory. The moistness degree φ was determined from the μ' and ϱ values obtained. It is pointed out in conclusion that the investigations carried out have proven the possibility of measuring the mean moistness in a vapor flow without drawing off,

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

Use of Radioactive Isotopes for the Measurement of Vapor Moistness

S/115/60/000/05/25/034
B007/B011

irrespective of the state and the drop size of the moistness contained in the vapor. There are 3 figures and 1 table.

V
C

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APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

KORSUNSKIY, M.I.; LAGUNOV, A.S.; BAYVEL', L.P.; SINEL'NIKOV, A.N.

Using radioisotopes in measuring the humidity of steam.
Izm.tekh. no.5:50-52 My '60. (MIRA 14:5)
(Radioisotopes--Industrial applications)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYVIL, L. P., KORSUNSKIY, M. I., and LOGUNOV, A. S.

"The Application of Radioactive Isotopes for the Control of Parameters of Moving Wet Steam"

paper presented at the All-Union Seminar on the Application of Radioactive Isotopes in Measurements and Instrument Building, Frunze (Kirgiz SSR), June 1961)

So: Atomnaya Energiya, Vol 11, No 5, Nov 61, pp 468-470

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

KORSUNSKIY, M.I.; LAGUNOV, A.S.; BAYVEL', L.P.

Using induction transducers in measuring displacements at high temperatures. Izm. tekh. no.8:16-19 Ag '63. (MIRA 16:10)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYVEL', L.P., [illegible]zh.; ZIL'BER, T.M., inzh.; KOSYAK, Yu.F., inzh.; LAGUNOV, A.S., inzh.; NAKHMAN, Yu.V., inzh.

Some results of the measurement of the degree of steam moisture using an experimental low-pressure steam turbine. Energomashinostroenie 10 no.8:37-39 Ag '64. (MIRA 17:11)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

sciences, Docent): Bayvel', L. P. (Engineer)

induction sensor was closed by a moving surface (as in a turbine), the reading of the recorder connected to the sensor depended on the speed of motion of the surface. An experimental outfit consisting of two induction sensors (sketch present[illegible] and an adjustable-rpm air turbine was built to investigate the above

Card 1/2

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

ACCESSION NR: AP5002403

the disk speed is equivalent to an increase in the gap (by 10 -60%). For a given speed the above effect is lower for lower magnetic field strength. For a given larger gaps. It is recommended that the induction sensors used in power turbines be calibrated for speed. Orig. art. has: 3 figures, 4 formulas, and 3 tables.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina (Khar'kov Polytechnic Institute)

SUBMITTED: 10Feb64 ENCL: 00 SUB CODE: PR, EM

NO REF SOV: 003 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

L 08611-67 EWP(m)/EWT(1)/EWT(m) WW

ACC NR: AR6029468 SOURCE CODE: UR/0196/66/000/006/G006/G006

AUTHOR: Lagunov, A. S.; Bayvel', L. P.

TITLE: Investigation of the two phase medium flow through pipes by observing the attenuation of Beta radiation

SOURCE: Ref. zh. Elektronika i energetika, Abs. 6G35

REF SOURCE: Vestn. Khar'kovsk. politekhn. in-ta, no. 2(50), 1965, 91-96

TOPIC TAGS: pipe flow, flow analysis, flow characteristic, beta radiation

ABSTRACT: The flow of wet steam was studied by directing a narrow beam of β-radiation through the cross section of a pipe. The source of radiation and the radiation receiver were placed on the opposite sides of the steam pipe directly on its inner walls. The water film thickness on the pipe surfaces was determined by comparing the calculated absorber surface density with the density found by radiation attenuation. According to the experimental data, the film thickness is a function of pressure and water content of the steam and is independent of the steam velocity. [Translation of abstract] M. Vinogradov

SUB CODE: 20

Card 1/1 UDC: 532.542

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

[redacted], A.; VONDRAK, E.

Regeneration of the articular cartilage following transarticular osteosynthesis with metal wire. Ortop., travm.i protez. no.7: 32-35 '61. (MIRA 14:8)

1. Iz kafedry patologicheskoy anatomii (zav. - dotent V. Valakh) i khirurgicheskoy kliniki (dir. - prof. V. Rapant) meditsinskogo fakul'teta Universiteta im. Palatskogo, Olomuts, Chekhoslovakiya.

(INTERNAL FIXATION IN FRACTURES) (CARTILAGE)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYEROVA, G. [Bayerova, G.]; BAYYER, A. [Bayer, A.]; MALINSKIY, I. [Malinsky, J.]; ZAPLETAL, B.

Functional significance of the epiphysial pigment (electron-optical study). Arkh. anat., gist. i embr. 48 no.1:18-21 Ja '65. (MIRA 18:11)

1. Kafedra gistologii (zav.- dotsent M. Obruchnik), kafedra patologicheskoy anatomii (zav.- dotsent V.Valakh), neyrokhirurgicheskoye otdeleniye fakul'tetskoy bol'nitsy Universiteta imeni Palatskogo (zav.- B.Zapletal), gorod Olomouts, Chekhoslovakiya.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, B.Yu.

Use of Uryvaev's rating flume. Trudy GGI no.77:122-128 '60. (MIRA 13:5)
(Flow meters--Testing)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

SUKHOTKIN, M.I., kand.tekhn.nauk; TOKAREVA, L.G., inzh.; RAYYER, I.Ye., inzh.

Concrete supports for potassium mine shafts. Mont.i spets.rab. v stroi. 24 no.12:17-19 D '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.
(Potassium) (Mine timbering) (Concrete--Corrosion)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER,K, Cand Chem Sci—(diss) " Interaction of alpha-nitroketons with nitroolefins." Len, 1958. 12 pp (Min of Education RSFSR. Len State Pedagogical Inst im A.I.Gertsen. Chair of Organic Chemistry), 150 copies (KL,49-58, 120)

-12-

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, M.Ya., inzh.

In reference to the letter from the Candidate of Engineering Sciences B. V. Ovsiannikov published in "Energomashinostroenie" no.5, 1958. Energomashinostroenie 5 no.3:22,41 Mr '59. (MIRA 12:3)
(Hydraulic turbines)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, O.N.

Nonsaturation method of ammonium sulfate production. Koks i khim. no.11:50-53 '62. (MIRA 15:12)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy koksokhimicheskoy promyshlennosti.
(Coke industry--By-products) (Ammonium sulfate)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

STOMAKHIN, A.Ya. (Moskva); BAYYER, P. (Moskva); POLYAKOV, A.Yu. (Moskva)

Nitrogen solubility in liquid nickel and in alloys of nickel with chromium, molybdenum, and tungsten. Izv. AN SSSR. Met. no.4:37-45 Jl-Ag '65. (MIRA 18:8)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, Peter, arkhitektor

Electrical lighting of the Leipzig Opera House. Svetotekhnika 9 no.5:13-15 My '63. (MIRA 16:7)

(Leipzig—Electric lighting)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

L 2754-66 EWT(m)/T/EWA(m)-2
ACCESSION NR: AP5024343 UR/0367/65/002/002/0287/0293

AUTHOR: Bayyer, V. M.; Khoze, V. A.

TITLE: Photon emission during annihilation of heavy particles

SOURCE: Yadernaya fizika, v. 2, no. 2, 1965, 287-293

TOPIC TAGS: particle annihilation, heavy particle, fermion, photo emission, strong nuclear interaction

ABSTRACT: The authors study some of the characteristics of photon emission which takes place when a pair of fermions is annihilated into another pair of fermions. It is shown that hard photons are emitted chiefly by the original particles. Photon emission is analyzed in the center-of-mass system for the case of electromagnetic annihilation of a pair of fermions, since this makes the easiest example for tracing this type of emission process. Point fermions are assumed to be annihilated into an electron-positron pair. It is shown that the appearance of a peak in the cross section of the radiation by the original particles may be interpreted as conversion of a photon into an electron-positron pair during two-quantum annihilation of the pair of original particles. This same phenomenon is then analyzed in the

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

L 2754-66
ACCESSION NR: AP5024343

6

laboratory coordinate system. Formulas are derived for the cross section of the process with regard to strong interactions, since this process may be used for studying the electromagnetic structure of the proton. "The authors are very grateful to V. M. Galitskiy for consultation." Orig. art. has: 3 figures, 28 formulas.

44,55

ASSOCIATION: Novosibirskiy gosudarstvennyy universitet (Novosibirsk State University)

44,55

SUBMITTED: 17Mar65 ENCL: 00 SUB CODE: NP, OP

NO REF SOV: 002 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

L 5336-66 EWT(1)

ACCESSION NR: AP5021132 UR/0056/65/049/002/0661/0671

AUTHOR: Bayyer, V. N.; Galitskiy, V. M. 44,55

TITLE: Emission of two photons in electron collisions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 2, 1965, 661-671

TOPIC TAGS: bremsstrahlung, particle collision, photon emission

ABSTRACT: This is a continuation of earlier work by the authors (Phys. Lett. v. 13, 355, 1964), in which the cross section for emission of classical quanta was calculated. In the present paper the authors calculate the cross section for double bremsstrahlung in the center-of-mass system of the colliding particles, under the assumption that one of the photons is soft but the other can have arbitrary energy. The electron energy is assumed quite high, so that expansion in powers of the electron emission angle is possible. The principal terms of the expansions are calculated and the correction terms are estimated. The resultant expressions are useful for the calculation of various processes involving photons. By way of an example, the authors calculate to logarithmic accuracy the single-bremsstrahlung cross section for electron-electron or electron-positron collisions. Orig. art. has: 4 figures and 57 formulas.

Card 1/2

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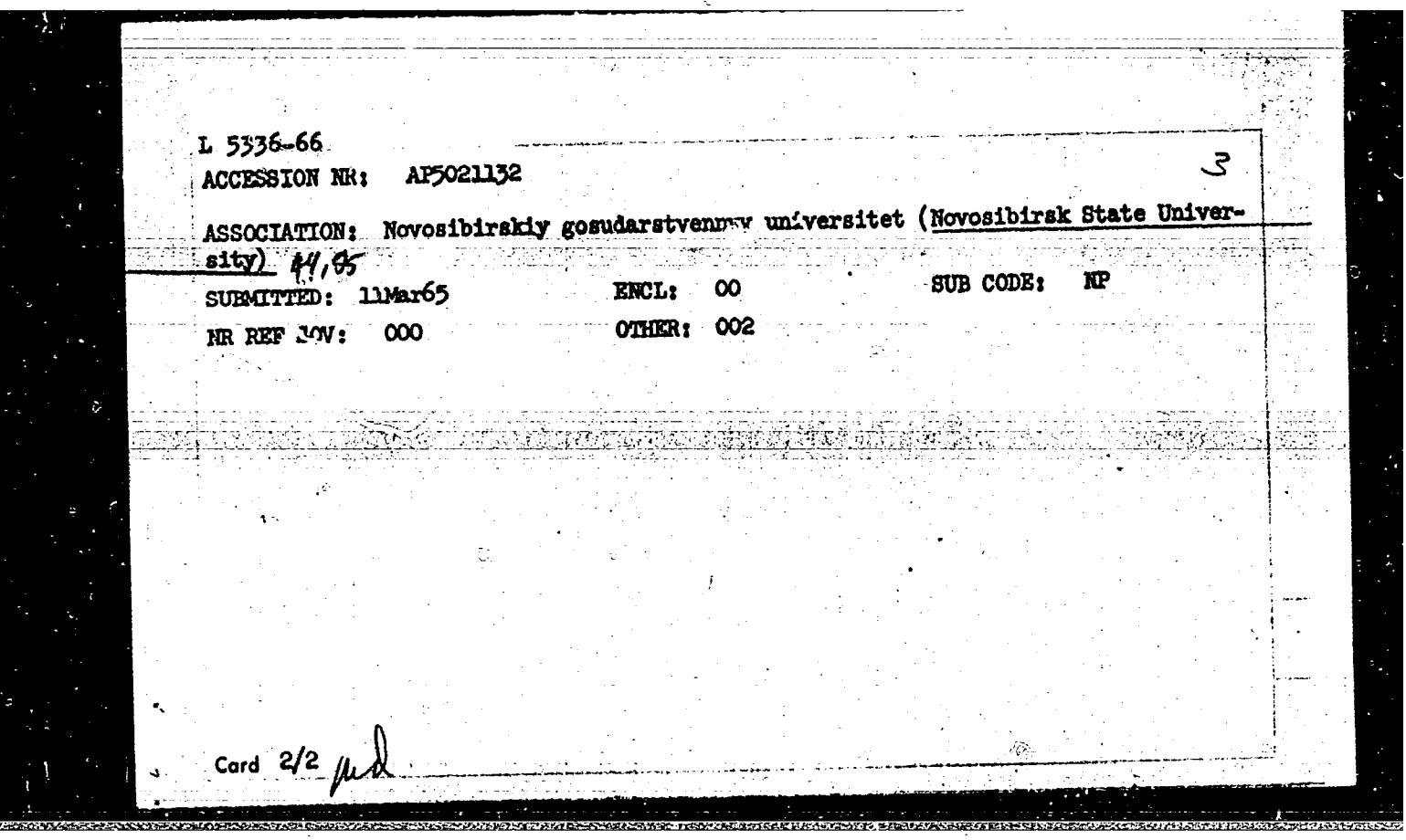
APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1



L 5336-66

ACCESSION NR: AP5021132 3

ASSOCIATION: Novosibirskiy gosudarstvennyy universitet (Novosibirsk State University) 44,05

SUBMITTED: 11Mar65 ENCL: 00 SUB CODE: NP

NR REF SOV: 000 OTHER: 002

Card 2/2 pd

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, V.N.; KHOZE, V.A.

Photon emission due to the production of muon pairs in electron-positron collisions. Zhur. eksp. i teor. fiz. 48 no.3:946-951 Mr '65. (MIRA 18:6)

1. Novosibirskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, V.N.; KHOZE, V.A.

Emission in two-particle electron-positron annihilation. Zhur. eksp. i teor. fiz. 48 no.6:1708-1716 Je '65. (MIRA 18:7)

1. Novosibirskiy gosudarstvennyy universitet.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYER, V.N.[translator].; SYROVATSKIY, S.I., red.; BURTSEV, A.K., red.; SOKOLOVA, T.S., tekhn. red.

[Electromagnetic structure of atoms and nucleons; a collection of articles][translated from the English] Elektromagnitnaia struktura iader i nuklonov; sbornik statei. Moskva, Izd-vo inostr. lit-ry, 1958. 204 p. (MIRA 11:11)

(Nuclear physics)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

Category : USSR/Theoretical Physics - Quantum Field Theory B-6

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 174

Author : Bayyer, V.N.
Inst : Physics Institute, Ukraine SSR Academy of Science
Title : Nucleomesodynamics with Strong Coupling. II. Ground and Isobar States, Charge and Spin of the Nucleon.

Orig Pub : Zh. eksperim. i teor. fiziki; 1956, 30, No 2, 317-329

Abstract : The author considered a strong interaction of the symmetrical pseudo-vector type for the nucleon in a pseudo-scalar meson field. The nucleon is considered extended and infinitely heavy. In the calculation of the eigenvalues of the energy of the system it turns out that the two types of excitation that are most probable in the nucleon-mesons system are the creation of free mesons and the transitions to the isobar state. Unlike Part I, where all the calculations were made in the adiabatic approximation, the authors take approximate account of the non-adiabaticity, using perturbation theory. The methods developed by the authors make it possible to calculate the scattering of mesons by nucleons and the electromagnetic constants (anomalous magnetic moments) of the nucleons.

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APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

VIL'SON,Dzh. [Wilson, J.G.], red.; BAYYER, V.N. [translator]; MAKSIMENKO, V.M. [translator]; SARYCHEVA, L.I. [translator]; BIRGER, N.G., red.; ROZENTAL', I.L., red.; NAKHIMSON, I.G., red.; KHAR'KOVSKAYA, L.M., tekhn.red.

[Physics of cosmic rays; modern achievements] Fizika kosmicheskikh luchei; sovremennye dostizheniia. Sost. gruppoi avtorov. Pod red. Dzh.Vil'sona. Moskva, Izd-vo inostr.lit-ry. Vol.3. 1958. 444 p. Translated from the English. (MIRA 13:6)
(Cosmic rays)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, V. N., CAND PHYS-MATH SCI, "PROBLEMS OF THE THEORY OF ELECTRON INTERACTION UNDER HIGH ENERGIES." NOVOSIBIRSK, 1960. (ACAD SCI, USSR, SIBERIAN DEPT, JOINT ~~ACAD~~ COUNCIL FOR PHYS-MATH AND TECH SCIENCES). (KL, 3-61, 202).

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

86913

S/056/60/039/005/030/051
B006/B077

24.6900

AUTHORS: Bayer, V. N., Khriplovich, I. B.

TITLE: A Scheme of Weak Interactions With Neutral Currents

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 5(11), pp. 1374 - 1380

TEXT: In order to eliminate experimentally forbidden processes from the weak interaction scheme, new prohibitions have been introduced. (e.g., the prohibition of neutral currents by Feynman and Gell-Mann); it is of interest to possess a scheme where, on one side, the class of possible weak interactions can be expanded, while forbidden processes are automatically excluded on the other. Such a scheme has been suggested by Bludman (Ref.3). It contains a number of new processes, and agrees with the known experimental data. Of course, there are other schemes available. This one is employed to examine the behavior of neutral currents introduced into the theory of weak interactions. Strange particles are neglected here. A space of charge of weak interactions is introduced, where the dublets ($\nu\mu$), (νe), and (pn) are studied assuming that

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

A Scheme of Weak Interactions With Neutral Currents

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B006/B077

the weak interaction is invariant with respect to rotations in this space. Lepton-lepton and lepton-nucleon processes, and also nucleon-nucleon scattering are investigated. The scattering and annihilation cross sections due to weak interaction are calculated for collisions with particles of the same type. The Lagrangian of these processes is represented by $L = L_{\pm} + L_3$, where $L_{\pm}$ is the ordinary Lagrangian of weak interaction, and L_3 is the new Lagrangian containing the interaction of neutral currents:

$$L_3 = (\bar{p}p)(\bar{\nu}\nu) - (\bar{n}n)(\bar{\nu}\nu) - \frac{1}{2}(\bar{p}p)(\bar{e}e) + \frac{1}{2}(\bar{n}n)(\bar{e}e) - \frac{1}{2}(\bar{p}p)(\bar{\mu}\mu) + \frac{1}{2}(\bar{n}n)(\bar{\mu}\mu) + \frac{1}{4}(\bar{p}p)(\bar{p}p) + \frac{1}{4}(\bar{n}n)(\bar{n}n) + (\bar{\nu}\nu)(\bar{\nu}\nu) + \frac{1}{4}(\bar{e}e)(\bar{e}e) + \frac{1}{4}(\bar{\mu}\mu)(\bar{\mu}\mu) + \frac{1}{2}(\bar{\mu}\mu)(\bar{e}e) - \frac{1}{2}(\bar{p}p)(\bar{n}n) - (\bar{\mu}\mu)(\bar{\nu}\nu) - (\bar{e}e)(\bar{\nu}\nu).$$

The cross sections are calculated, and the degree of longitudinal polarization in such nucleon-nucleon scattering events is estimated. The values obtained are 10^{-6} - 10^{-7} at energies of 200-300 Mev; a similar estimate for the lepton-lepton and lepton-nucleon scatterings

Card 2/3

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

86913

A Scheme of Weak Interactions With Neutral Currents

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B006/B077

yields values of the order of 10^{-3} - 10^{-4} at energies of some Bev. Ya. B. Zel'dovich is mentioned. There are 9 references: 4 Soviet, 3 US, 1 British, and 1 Italian.

SUBMITTED: June 15, 1960

Card 3/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

S/056/61/040/002/033/047
B112/B214

AUTHORS: Bayyer, V. N., Kheyfets, S. A.

TITLE: Electron-electron scattering at large energies

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 2, 1961, 613-615

TEXT: An approximate calculation of the electron-electron scattering cross section at high initial energies E and at an angle of scattering $\vartheta \gg m/E$ is made in the present paper following a method proposed by A. A. Abrikosov (Ref. 3: ZhETF, 30, 96, 386, 1956). In the determination of the cross section by the method of perturbation it is not possible to restrict oneself to the lowest order because the higher approximations contain the high value $e^2\ln^2(E/m)$. According to a suggestion of Abrikosov, only those terms are taken into account, in which the highest powers of $e^2\ln^2(E/m)$ appear. For selecting such terms, certain conditions are formulated. If ω is the maximum energy of the emitted photon, the differential scattering cross section is given by: $d\sigma = d\sigma_0 \exp\left[-\frac{8e^2}{\pi}\ln\frac{E}{\omega}\ln\frac{E}{\ell}\right]$.

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For $\omega = E$ this formula goes over into the scattering cross section formula of Møller. The energy distribution of the emitted photons is given by $dn(\omega) = \frac{8e^2}{\pi} \frac{d\omega}{\omega} \ln \frac{E}{m}$. For electrons with the energy ε, the probability of energy loss in the interval $\varepsilon \div \varepsilon + d\varepsilon$ is $dN(\varepsilon) = \frac{8e^2}{\pi} \ln \frac{E}{m} \frac{d\varepsilon}{\varepsilon} \exp\left\{-\frac{8e^2}{\pi} \ln \frac{E}{m} \ln \frac{E}{\varepsilon}\right\}$. A. A. Abrikosov is thanked for criticizing the paper. There are 1 figure, 1 table, and 3 Soviet-bloc references.

SUBMITTED: August 20, 1960 (initially)
November 19, 1960 (after revision)

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, V.N.; KHEYFETS, S.A.

Behavior of the cross section of electromagnetic particle production at the threshold. Zhur. eksp. i teor. fiz. 40 no.2:715-717 F '61. (MIRA 14:7)
(Particles (Nuclear physics))

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, V.N.; SOKOLOV, V.V.

Presence of π^0-mesons in electromagnetic processes. Zhur. eksp. i teor. fiz. 40 no.4:1233-1234 Ap '61. (MIRA 14:7)
(Mesons) (Electromagnetic theory)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, V.N.; SYNAKH, V.S.

Formation of bimuonium in electron-positron collisions. Zhur. eksp. i teor. fiz. 41 no.5:1576-1581 N '61. (MIRA 14:12)

1. Institut yadernoy fiziki Sibirskogo otdeleniya AN SSSR.
(Collisions (Nuclear physics))
(Mesons)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

S/053/62/078/004/003/004
B102/B186

AUTHOR: Bayer, V. N.

TITLE: Electron-positron interactions at high energies

PERIODICAL: Uspekhi fizicheskikh nauk, v. 78, no. 4, 1962, 619-652

TEXT: The author discusses the most important results of high-energy accelerator experiments on electron-electron collisions and the conclusions from treating these problems by quantum electrodynamics. The results of the most important papers published in this field between 1951 and 1962 are reviewed. The following topics are treated: Head-on collision experiments on electron accelerators; Applicability of quantum electrodynamics at small distances (Calculation of radiative corrections to electrodynamic cross section; radiative corrections in higher perturbation-theoretical approximations; radiative corrections due to strong interactions; phenomenological investigation of the applicability of quantum electrodynamics at small distances); particle production in electron-positron collisions, investigation of structure and cross section of the process (Production of muon pairs; production of pion pairs; processes in which π^0-mesons are involved;

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

Electron-positron interactions...

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B102/B186

production of K-mesons and baryons in electron-positron collisions; pair production of new particles (cf. Phys. Rev. 124, 1577, 1961)); Investigation of weak interactions in collision experiments with oppositely directed electron beams. There are 19 figures and 109 references.

Card 2/2

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

BAYYER, V.N.; KHRIPLOVICH, I.B.

Neutrino radioactivity and its role in astrophysical processes. Astron. zhur. 40 no.5:785-787 S-O '63. (MIRA 16:11)

1. Institut yadernoy fiziki Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1"

"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

TITLE: Colliding electron-electron, positron-electron, and proton-proton beams

TOPIC TAGS: high energy interaction, high energy plasma,

ABSTRACT: In the Institute of Nuclear Physics, Siberian Department, Academy of

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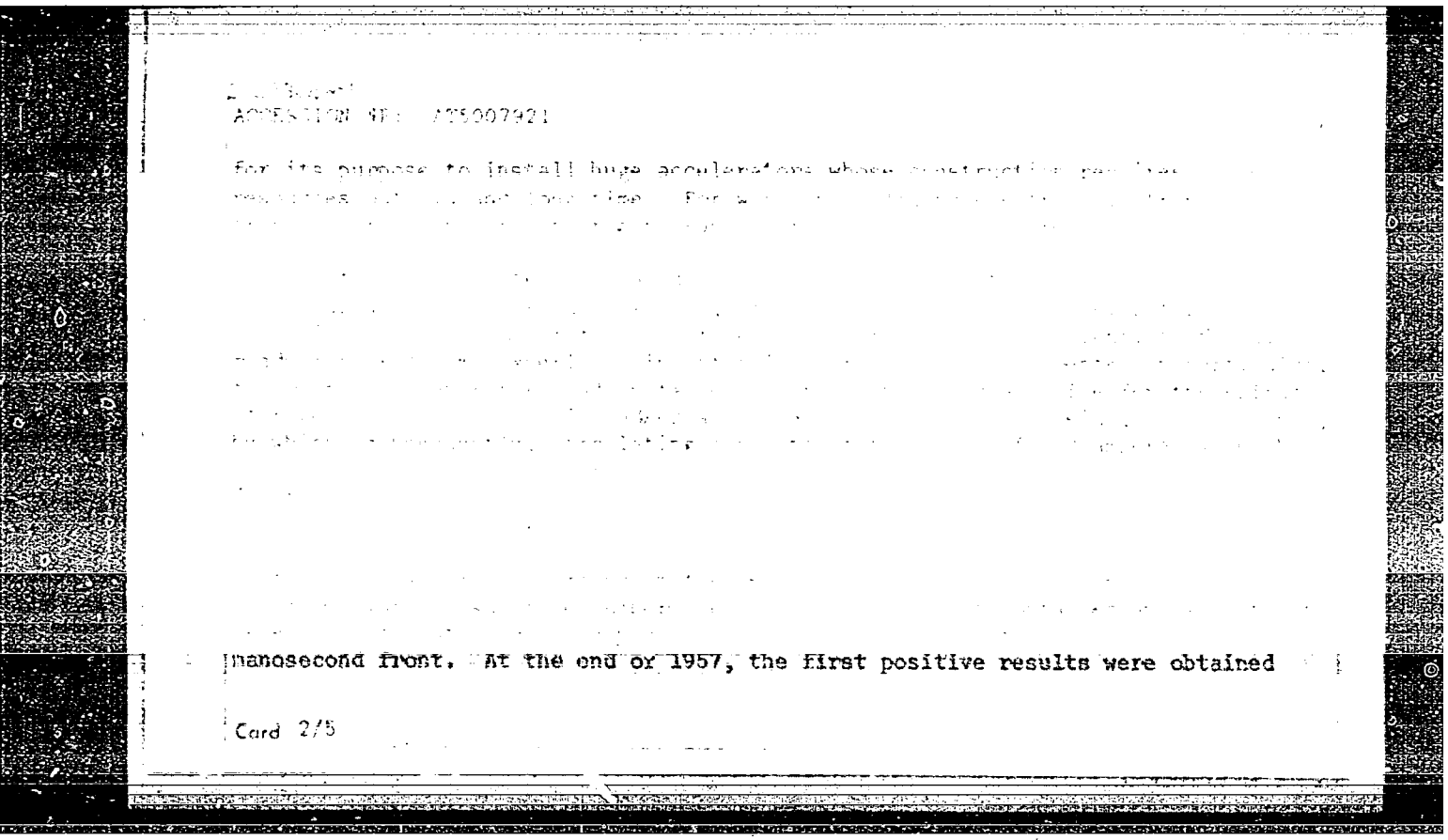
"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1



ACCESSION NR: AT5007921

for its purpose to install huge accelerators whose construction [illegible]

nanosecond front. At the end of 1957, the first positive results were obtained

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

L 47304-65
ACCESSION NR: AT5007921

with a packing discharger of 100 kilovolts, and work stopped on the variant with

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

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ACCESSION NR: AT5007921

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held in 1956. The presence of a field with two directions in an iron-less accelerator with central busbar permits the acceleration of protons toward [illegible]

[illegible]

[illegible]

[illegible]

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"APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204110002-1

ACCESSION NR: AT5007921

ASSOCIATION: Institut yadernoy fiziki SO AN SSSR (Institute of Nuclear Physics, SO AN SSSR)

SUBMITTED: 25May64 ENCL: 00 SUB CODE: NP

NO REF SOV: 012 OTHER: 003

Card 5/5

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