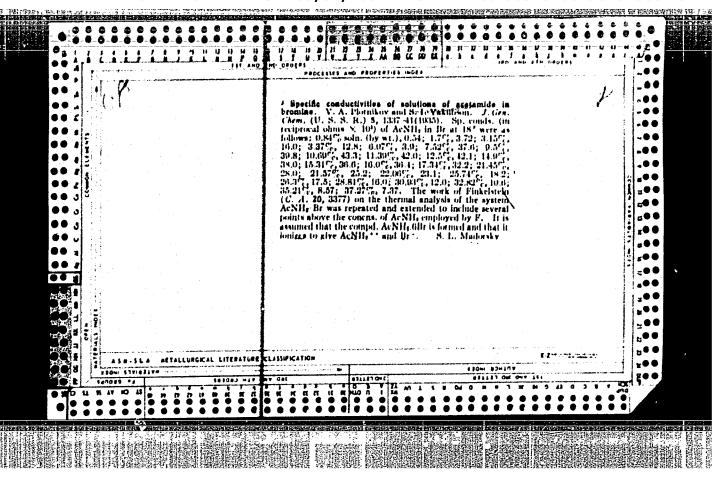
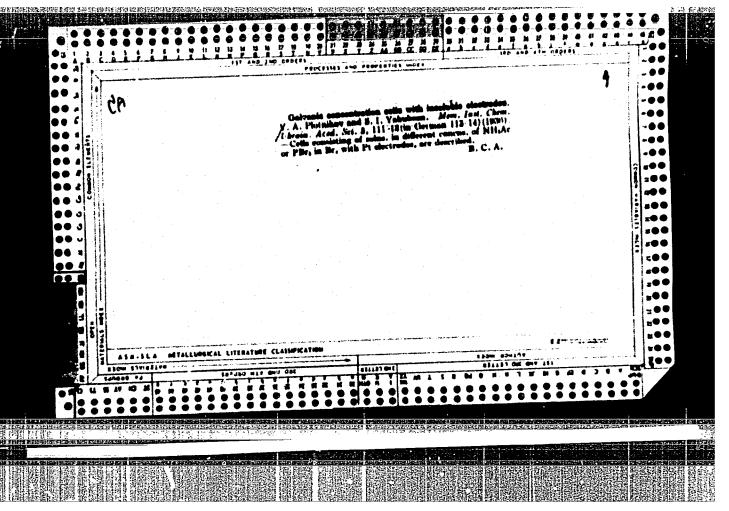
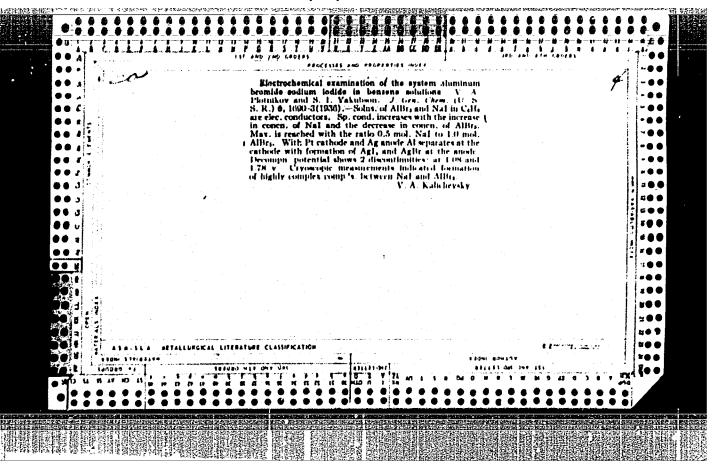


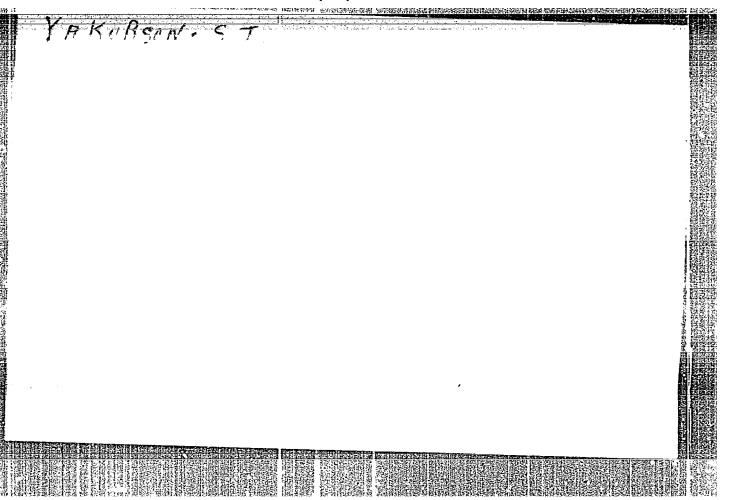
"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962020002-9

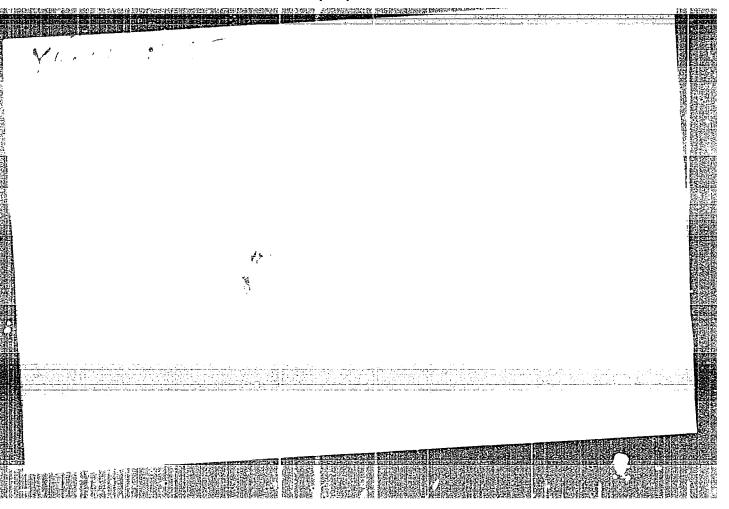




APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962020002-9"

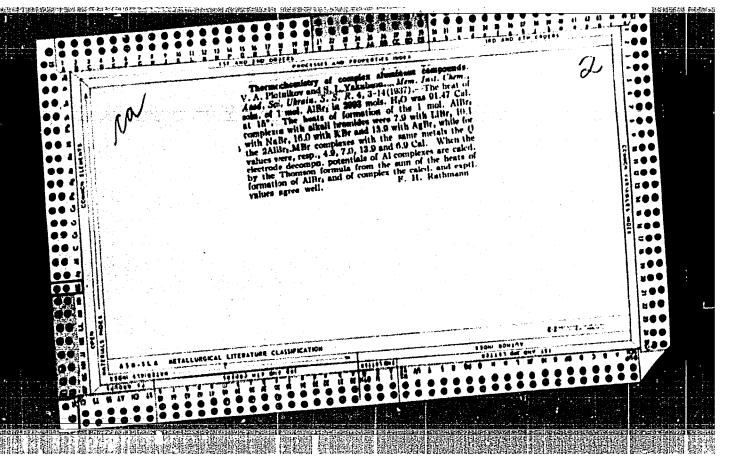


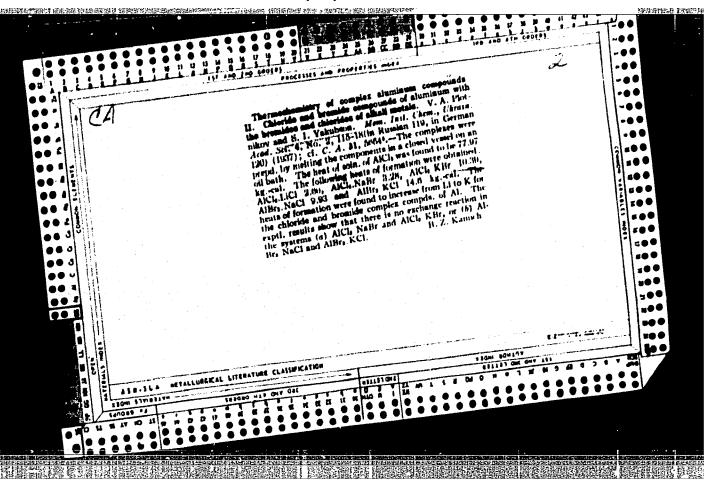


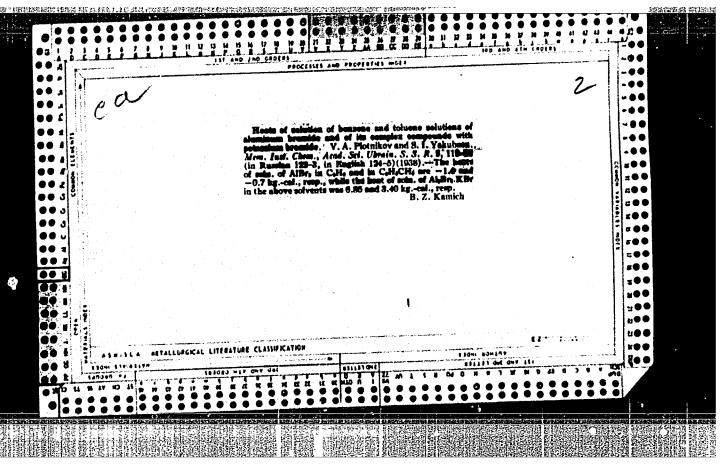


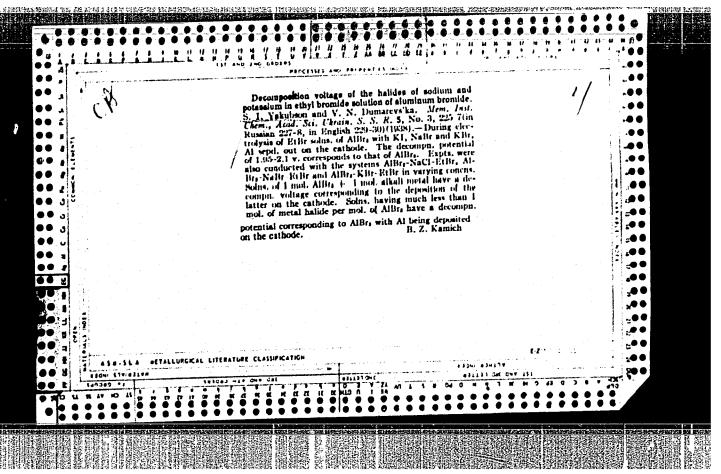
APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962020002-9"

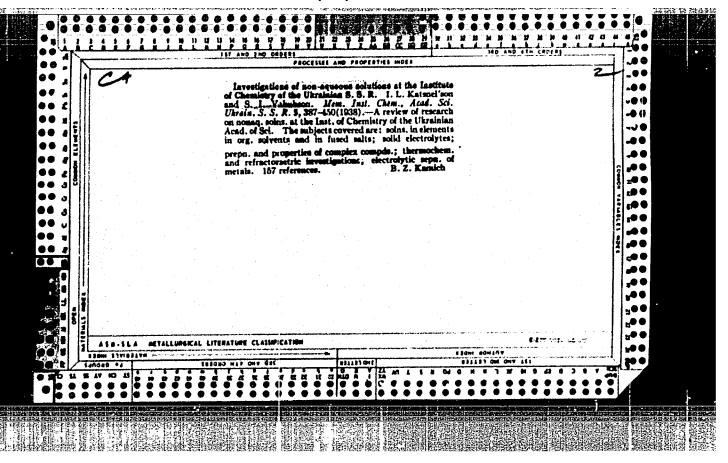
"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962020002-9

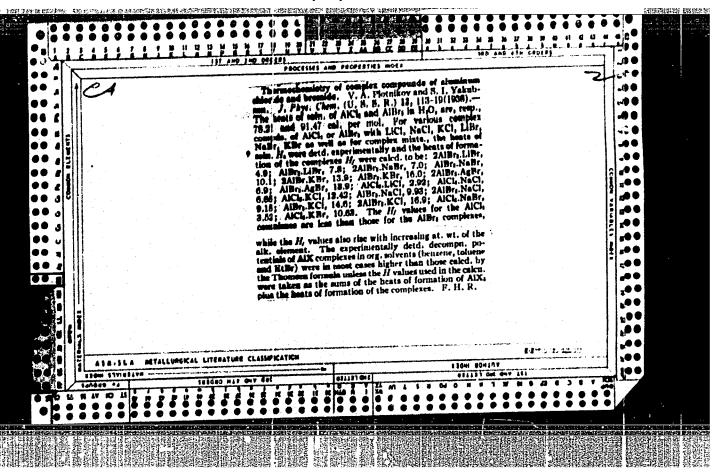


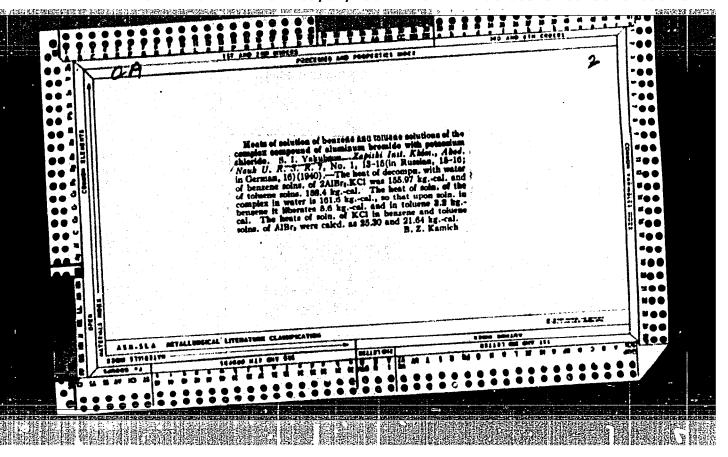


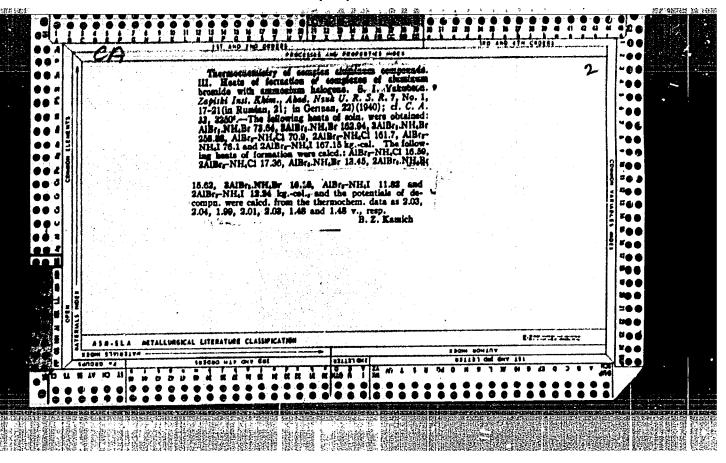


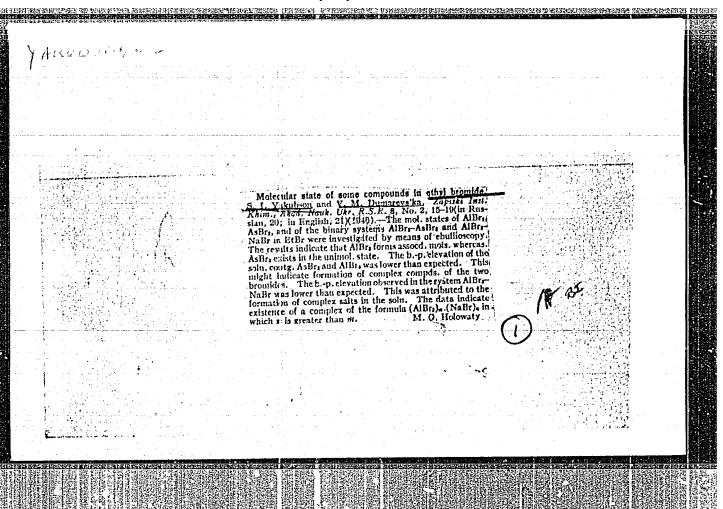


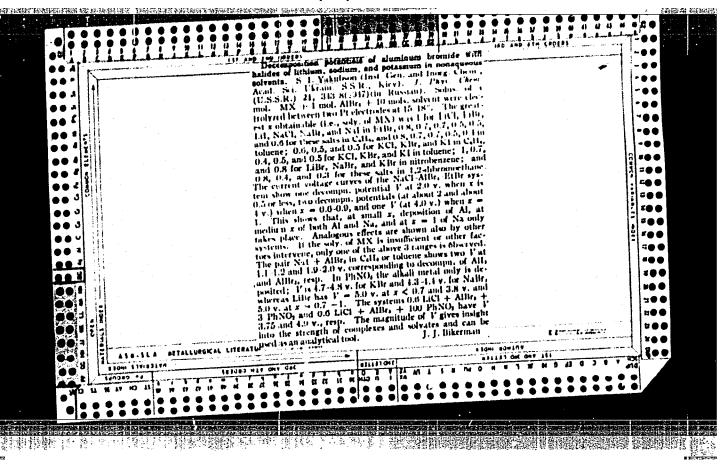












YAKUBSON, S. I.

Yakubson, S. I. and Abramova, M. A. The electric conductivity and viscosity of bromine solutions of acetamide and phosphorous pentachloride," Ukr. khim. zhural, Vol. XV, issus 1, 1919, p. 136-48, - Bibliog: 7 items

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, NO. 26, 1949)

YAKUBSON, S.I.; ABRAMOVA, M.A.

Decomposition potentials of aluminum bromide with halides of lithium, sodium, and potassium in nonaqueous solvents. Ukrain. Khim. Zhur. 15, 362-71 '49.
(CA 47 no.15:7348 '53)

(CA 47 no.15:7348 '53)

YAKUBSON, S.I.; ABRAMOVA, M.A.

Electrolytic separation of lithium from nonaqueous solutions. Ukrain. Khim. Zhur. 17, 902-10 '51. (MLRA 6:4) (CA 47 no.22:12053 '53)

1. Inst. Gen. Inorg. Chem., Acad. Sci. Ukr. S.S.R., Kiev.

AUTHORS:

Yakubson, S.I. and Kostromina, N.A.

570

TITLE:

I. Polarographic Investigation of Bare-Earth Elements and Their Systems with Certain Complex-Forming Substances. (I. Polyaro-graficheskie Issledovaniya Soley Redkozemel'nykh Elementov i ikh Sistem s Nekotorymi Kompleksoobrazovatelyami).

PERIODICAL:

"Zhurnal Neorganicheskoy Khimii" (Journal of Inorganic Chemistry, Vol. II, No. 2, pp. 349-354. (U.S.S.R.).

ABSTRACT:

There are considerable ambiguities in the results of polarographic studies of rare-earth elements with the exception of Eu. The aim of the present work was to see whether the method was applicable to complex-formation investigations for these elements. A visual polarographic set-up was used. Solution of the chlorides of La, Nd, Ce and Sm and Nd sulphate in aqueous golutions without a background and on a tetramethylammoniumicdide background were used: no reaction between these salts and the inert electrolyte was observed. A clear wave, corresponding to reduction according to $M3^+ + e \rightarrow M2^+$ was found for the solutions studied, but there were no signs of one corresponding to reduction to the metallic state. Proportionality between the wave height and the rare-earth ion concentration in the solution was observed. On adding complex-forming substances (citrate and tartrates) to Nd or Ce salts the wave of the simple cation disappears without the appearance of the complex-ion wave.

Card 1/2

I. Polarographic Investigation of Rare-Earth Elements and Their Systems with Certain Complex-Forming Substances. (Cont.)
There are 13 references, 2 of them Russian.
There are 6 figures and 1 table.
Institute of Inorganic Chemistry of the Academy of Sciences of the Ukrainian S.S.R., Complex-Compound Laboratory.
Received 1 November, 1956.

Card 2/2

AUTHORS:

Yakubson, S.I., Kostronina, N.A.

50V/ 78-3-7-38/44

TITLE:

The Electric Conductivity of the Solutions of Chlorides and Sulfates of Lancherum and Cerium With Hydrochloric Auld and Sulturic Acid (Elektroprovodnosť rastvorov khloridov i sul'fatov

lantana i tseriya s solyanoy i sernoy kislotami)

PERIODICAL:

Zhurnal neorganichaskoy khimii, 1958, Vol 3, Nr 7, pp 1688-1693

(USSR)

ABSTRACT:

The electric conductivity of the isomolar solutions of the Cerminy yatems CeCl3-HCl-H2O, LaCl3-HCl-H2O, Ce2(SO4)3-H2SOL-H₂O and La₂(SO₁)₂-H₂SO₁-H₂O was investigated with the result that complex compounds were found to exist in the solutions in which the ratio metal salt: acid residue is 1: 1. The following complex ions probably exist in the solution: MCl, and M(SO,)? It is probable that besides complexes with a fatio of 1: 1 also other complex ions occur in the solutions. In order to explain the influence exercised by the solvent upon the forming of com-

plexes in the above mentioned systems the determination of the specific electric conductivity of CeCl3-HC1 in ethyl alcohol

Card 1/2

CIA-RDP86-00513R001962020002-9" APPROVED FOR RELEASE: 09/01/2001

The Electric Conductivity of the Solutions of Chlorides and Sulfates of Lanthance and Cexium With Hydrochloric Acid and Sulfuric Acid

507/ 78-3-7-38/44

were investigated. The maximum deviation of electric conductivity at 25°C is found with a ratio of CeCl₂:HOl = 3: 2. It may be seen that the solution contains several kinds of complex ions which are in a state of equilibrium. There are 6 figures, 1 table and 16 references, 6 of which are Soviet.

SUBMITTED:

July 26, 1957

1. Complex compounds—Flectrical properties 2. Complex compounds—Analysis 3. Complex ions—Theory 4. Complex ions—Properties

Card 2/2

AUTHORS:

Kostromina, N. A., Yakubson, S. I.

SOY/78-3-11-14/23

TITLE:

II. Polarographic Investigation of the Salts of the Rare Earths and Their Systems With Some Complexes (II. Polyarograficheskiye issledovaniya soley redkozemel nykh elementov

i ikh sistem s nekotorymi kompleksoobrazovatelyami)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 11, pp 2506-2511

(USSR)

ABSTRACT:

The formation process of complex salts of the rare earths in aqueous solutions is investigated by means of polarographic methods, above all of the not especially stable complex salts. An ytterbium chloride solution with 0,1 N-tetramethyl ammonium

iodide was investigated polarographically. The half wave potential does not change with an increase in concentration from

to 4 mmol/l. Two stages occur at concentrations of 1 - 2 mmol/l. Salts of cerium and lanthanum in aqueous solutions were investigated and it was found that the half wave potential is displaced towards the negative values with an increase in acidity of the solution. A polarogram was plotted for the

Card 1/3

system LaCl 3-ECl-H2O. A half wave potential of -1,79V occurs

SOV/78-3-11-14/23

II. Polarographic Investigation of the Salts of the Rare Earths and Their Systems With Some Complexes

in a neutral solution of lanthanum chloride. Similar investigations were also carried out with the system CeCl3-HCl-H2O.

The polarograms with solutions of lanthanum sulfate and cerium sulfate were plotted as well; the results show that the half wave potential is displaced towards the negative values. The half wave potentials of the solutions investigated are given in table 3. The data and polarograms show that a displacement of the half wave potential towards the negative values occurs with all salts investigated. If an acid is added, this fact is explained by the formation of complexes between the salts of the rare earths and the corresponding acids. Polarographic investigations were also carried out with the system ytterbium chloride and the salts of organic acids, above all of lactate, glyconate, citrate, and tartrate. In the case of an equimolar ratio of the components in the solution the wave of the ytterbium ion vanishes and the wave of the complex ion occurs. Cation complexes with the general formula $[YbA]^{n+}$ (A = lactate-, glyconate-, citrate-, and tartrate anion) are formed at these concentrations. If an excess of complex formers is added, the

Card 2/3

507/78-3-11-14/23

II. Polarographic Investigation of the Salts of the Rare Earths and Their Systems With Some Complexes

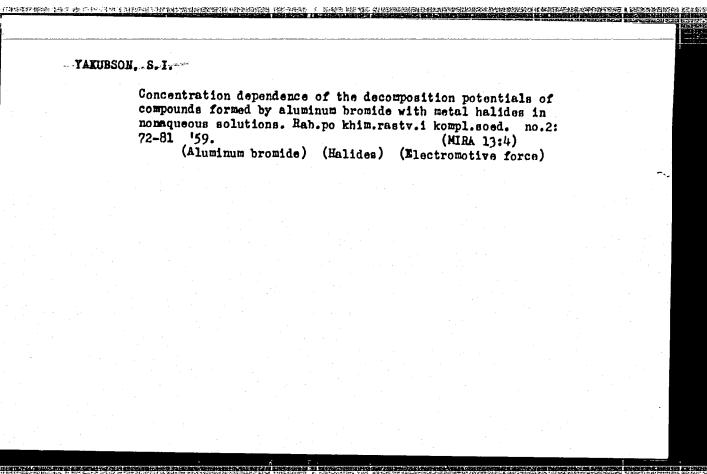
wave is displaced towards the negative values. For trivalent ytterbium with lactate- and glyconate ion a complex is formed in the case of a great excess of complex formers, which has the general formula $\left[Yb^{III}A_{6}\right]^{n-}$. Bivalent ytterbium with equal anions forms the complex $\left[Yb^{II}A_{4}\right]^{m-}$.

There are 5 figures, 4 tables, and 4 references, 2 cf which are Soviet.

SUBMITTED:

October 2, 1957

Card 3/3



5(1,4)

12.3-

PHASE I BOOK EXPLOITATION

SOV/3413

Akademiya nauk Ukrainskoy SSR. Institut obshchey i neorganicheskoy khimii

Raboty po khimii rastvorov i kompleksnykh soyedineniy, vyp. 2 (Papers on the Chemistry of Solutions and Complex Compounds, Nr. 2) Kiyev, 1959. 229 p. Errata slip inserted, 2,000 copies printed.

Resp. Ed.: Ya.A. Fialkov (Deceased) Corresponding Member, Ukrainian SSR, Academy of Sciences; Ed. of Publishing House: Z.S. Pokrovskaya; Tech. Ed.: M.I. Yefimova.

PURPOSE: This book is intended for research scientists, teachers in schools of higher education and technical schools, aspirants, and students of advanced chemistry courses.

COVERAGE: The collection contains 9 articles which review work conducted at the Institute for General and Inorganic Chemistry, Ukrainian Academy of Sciences, on electrolytic aqueous and nonaqueous solutions, the chemistry of complex compounds,

Card 1/3

	Secretary the Company Property of Control of
Papers on the Chemistry (Cont.) SOV/34:	13
analytical chemistry, and fused electrolytes. The collect also contains an article entitled "Electrochemical Propert of Aluminum Halides in Nonaqueous Solutions", by V.A. Plot (Deceased). Figures, tables and references accompany each article. No personalities are mentioned.	ies
TABLE OF CONTENTS:	
Plotnikov, V.A. Electrochemical Properties of Aluminum Halides in Nonaqueous Solutions	3
Yakubson, S.I. Dependence of Decomposition Potentials of Compounds of Aluminum Bromide With Metal Halides in Nonaqueous Solutions as a Function of Concentration	72
Fialkov, Ya.A. (Deceased), and Ya.B. Bur'yanov. Phosphorous Pentoxide As a Complex-forming Agent in Reactions With Metal Chlorides	82
Fialkov, Ya.A. and Yu.P. Nazarenko. Study of Inorganic Halides on the Basis of Isotope Exchange Reactions	116
Card 2/3	

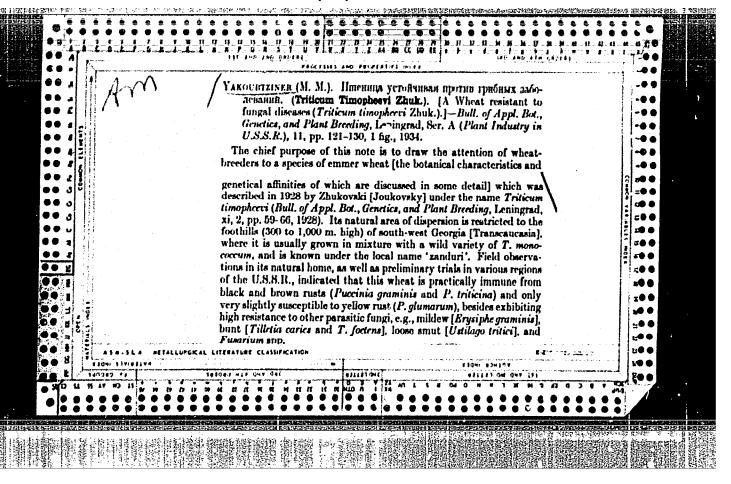
	(0.055)	COLORS SERVICE CON LABOR.
Papers on the Chemistry (Cont.)	30V/ 3413	
Sheka, Z.A., and Ye.Ye. Kriss.	Metal Xanthates	135
Sheka, I.A. Physicochemical Ana the Basis of Dielectric Properti	• • • • • • • • • • • • • • • • • • • •	7
	The state of the s	163
Babko, A.K., and T.Ye. Get man. of Complexes of Low Stability Du	ring complex Formation	186
Babko, A.K. and T.N. Nazarchuk. Dyed With Oxyanthroquinones	Study of Metal Compounds	• • • • • • • • • • • • • • • • • • •
Markov, B.F. Electromotive Force Individual Fused Slats	es of Chemical Bonds With	199
AVATIABLE: Library of G		216
AVAILABLE: Library of Congress		
Card 3/3		**** ********************************

YAKUBSON, S. Ya., inzh.

Mechanized data processing in the press shop of the Moscow Automobile Plant. Mekh.i avtom.proizv. 18 no. 5:48-50 My 164. (MIRA 17:5)

PALLADI, G.A.; YAKURSON, T.Z.

Use of the vacuum apparatus; based on the data of obstetric institutions in Kishinev. Zdravookhranenie 5 no.3:45-47 My-Je '62. (MIRA 16:1)



YAKUBTSINER, M. M.

Yakubtsiner, M. M. "Approbation of varieties in the light of the Michurin doctrine," / Selection of grain crops 7, Selektsiya i semenovodstvo, 1949, No. 3, p. 4-10

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

IESE/Biology, Agricultural - Genetics YAKUBTSINER. All-Union Tust of Plant Breeding, Leningrad Grains in Wheat Ears," M. M. Yakubtsiner, Wheat Lab, "Agrobiologiya" No 1, pp 24-38 "Data Relative to the Problem of Occurrence of Rye rye grains were detected on wheat ears in individual matic search for rye grains in wheat ears was carried of wheat with rye in mountain areas (1949), a systedetected on threshing wheat. In 5 of these rayons, Following T. D. Lysenko's results on contamination 2 rye grains per wheat car was found. cases. In no single case, more than one or a max of cases, rye grains were found in soft wheat, but grains that developed on wheat ears gave rise to in some cases hard wheat also contained rye. Rye typical rye plants, but in some cases grains which grown from any of the grains mentioned above. In termediate between wheat and rye could never be resembled rye grew into wheat plants. Plants insterile. /Fictures of individual wheat ears and also discovered, but they proved completely of all wheat and rye grains obtained from these the course of this search, rye-wheat hybrids were company the test. particular ears (according to the captions) ac-In 11 rayons of the Caucasus, rye grains were Jan/Feb 52

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020002-9"

YAKUBTSINER, M.M.: SAVITSKAYA, V.S.

Wheat

Late fall sowing of spring wheat. Sov. agron. 10 no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952/973. Unclassified.

YAKUBTSINER, M. M.	USSR/Biology, Agricultural - Wheat, Genetics Mar 52. "Wheat," M. M. Yakubtsiner, Cand Agr Sci "Nauka i Zhizn'" Vol XIX, No 3, pp 16-19 Grains of USSR viest, particularly of wheat grown in the southeast, contain 15-26% of protein, while wheat grown in foreign countries as a rule does not contain more than 8-15% of protein. USSR sci- entists are concyon the selection of hard wheats, intervariety crossing to create cold-resistant wheats, and development of bushy varieties which are highly resistant to wind and rain and give very high yields. T. D. Lysenko proved that winter wheat planting. Wheat-rye, wheat suitable for spring planting. Wheat-rye, wheat seem developed and are rye quack grass hybrids have been developed and are being cultivated. The yields of wheat achieved in individual instances in the USSR are the highest in the world (e.g., 101 centuers per hectars).

- 1. YAKUBTSINER, M. M.
- 2. USSR (600)
- 4. Wheat
- 7. New regional wheat varieties and their identification. Sel. i sem. 19 No. 11, 1952.

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

	的一种,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
1.	YAKULETSINER, M. M. M.	
2.	USSR (600)	
	Wheat	
4.	Development of remose varieties in plantings of hard wheats. Dokl.Akad. sel'-khoz. 18 No. 2, 1953.	
,		
	June 1953. Unclassified	
9		

YAKUBTS INER, M.M., kandidat sel'skokhozyaystvennykh nauk.

Studying ancient agriculturists. Hauka i zhizn' 20 no.10:26-28 0 '53.

(MIRA 6:10)

(Agriculture, Primitive)

M-4

IAKUBTSINER, M.M.

USSR/Cultivated Plants - Grains

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1480

Author : M.M. Yakubtsiner

Inst : All-Union Agricultural Academy imeni V.A. Ienin Title : New Botanical Forms of Wheat, Valuable in Selection

Orig Pub : Eyul. Vses. in-ta rasteniye vodstva. VASKhNIL, 1956, No 2,

Abstract : A short description of those forms is given which have been evolved in the All-Union Plant Cultivation Institute from Yugoslavian specimens of the erythrospermum variety, distir... guished for its large grain (its absolute weight is 65-66 grams). its elongated spikelets and bract scales, large flumes (12 to 13 cm in length), its 3-4 caryopsides. The specimens are resistant to wheat mildew and rust. The author calssifies these forms, both the uniform and large grain specimens from the humid regions of Northern Italy, into a new subspecies Tr. aestivum L. ssp. grandisemineum Sakubz. ssp. mova. The diagnosis of the new subspecies is: Tr. sestivum L, ssp. grandisemin-

eum Sakubz. Differt a ssp. indoeropeum Vav glumis majoribus 12-Card : 1/2

USSR/Cultivated Plants - Grains

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1480

M-4

13 mm longis caryopsis 10-11 mm longis, spec. typ. Jugo... Slavia, Italia.

Card

: 2/2

YAKUBTSINER, M.H.; ZHUKOYSKIT, P.M., akademik, red.; SINYAKOVA, L.A., red.;
CHUMENTEVA, Z.V., tekhn.red.

[Wheat in the U.S.S.R.] Pahenitsa v SSSR. Moskva, Gos.ird-vosel'khoz. lit-ry, 1957. 632 p.

(Wheat)

(Wheat)

YAKUBTSINER, M.M.; UDACHIN, R.A.

Value of Central Asian wheats as breeding material for Uzbekistan. Uzb. biol. zhur. no.3:48-52 '59. (MIRA 12:11)

1. Sredneaziatskaya opytnaya stantsiya Vsesoyuznogo instituta rasteniyevodstva (VIR).

(Uzbekistan--Wheat breeding)

YAKUBTSI NSKE, M.M.

A contribution to the study of Chinese wheats. Bot.zhur. 44
no.10:1425-1436 0 '59.
(China-Wheat)

TAKUBTSINER, M.M.

Possibilities for increasing the production of durus and strong wheat. Zemledelie 8 no.1:58-66 Ja '60. (HIRA 13:4)

1. Vsesoyuznyy institut rasteniyevodstva. (Wheat)

-	YAKUBTSI										
		Black	grain. (Exc (Ag	Znan.sila cavations (. riculture)	35 Archa	no.6:3 eclogy)	6 Je	'60.	HIRA 13:	7)	
						•					

PUMPYANSKIY, Aleksandr Yakovlevich, kand.tekhn.nauk; YAKUBTSINER, M.M., kand.sel*skekhoz.nauk, red.; FOMICHEV, A.G., red.izd-va; BELOGUROVA, I.A., tekhn.red.

[Baking qualities of wheat and fleur; verbatim report] Khlebepekarnye kachestva pshenitsy i muki; stenogramma deklada. Ped red. M.M. Iakubtsinera. Leningrad, Leningr. Dem nauchno-tekhn. propagandy, 1961. 32 p. (MIRA 14:12)

(Wheat)

(Flour)

YAKUBTSINER, M.M. (Leningrad)

"Environment and plant development" by V.I.Razumov. Reviewed by M.M. IAkubtsiner. Agrobiologia no.3:474-475 My-Je '62. (MIRA 15:10)

(PLANT PHYSIOLOGY)
(RAZUMOV, V.I.)

YAKUBTSINER, M.M. doktor sel'skokhozyaystvennykh nauk

Anniversary of a talented plant breeder. Agrobiologiia no.6: 925-927 N-D '62. (MIRA 16:1)

1. Vsesoyuznyy institut rasteniyevodstva, Leningrad. (Skalozubova, Anna Nikolaevna, 1902-)

YAKUBTSINER, M.M., doktor sel'skokhozyaystvennykh nauk

"Agriculture of India" by D.V.Ter-Avanesian. Reviewed by M.M.
IAkubtsiner. Zemledelie 25 no.2:9%-95 F '63. (MIRA 16:5)
(India--Agriculture) (Ter-Avanesian, D.V.)

DESCRIPTION OF THE PROPERTY OF

VAVILOV, Nikolay Ivanovich, akademik; YAKUBTSINER, M.M., doktor sel'khoz. nauk, otv. red. toma; LEPIN, T.K., doktor sel'khoz.nauk, otv. red. toma; YAKOVLEVA, V.M., red.izd-va; BOCHEVER, V.T., tekhn. red.

[World resources of cereal, pulse crop, and flax varieties and their use in breeding] Mirovye resursy sortov khlebnykh zlakov, zernovykh bobovykh, l'na i ikh ispol'zovanie v selektsii. Moskva, Izd-vo "Nauka." Vol.2. [Wheat] Pshenitsa. 1964. 122 p. (MIRA 17:4)

YAKUBTSINER, H.E.; CHESNOKOV F.G.; FEDOTOVA, T.I.

Georgii Evgen'evich Spangenberg-Spagorov; 1889 - .Zashch. rast.
ot vred. i bol. 9 no.10:59 '64 (NHM 18:1)

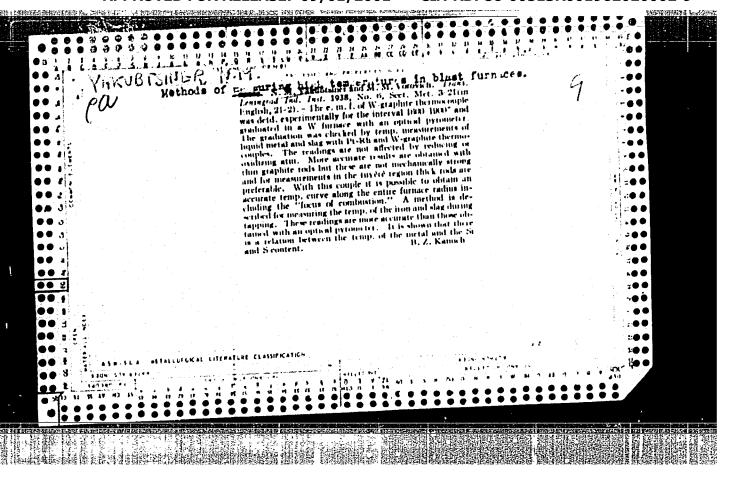
YAKUBTSINER, M.M., doktor sel'skokhoz. nauk

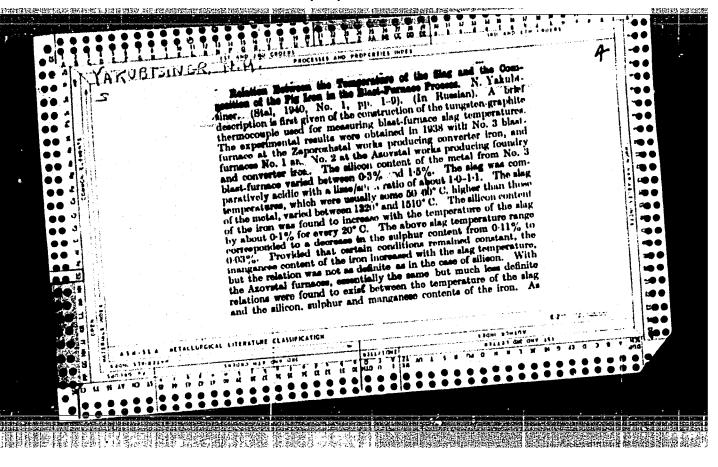
Understanding the variation of two-way wheat. Agrobiologiia no.5:661-663 S-0 '65. (MIRA 18:9)

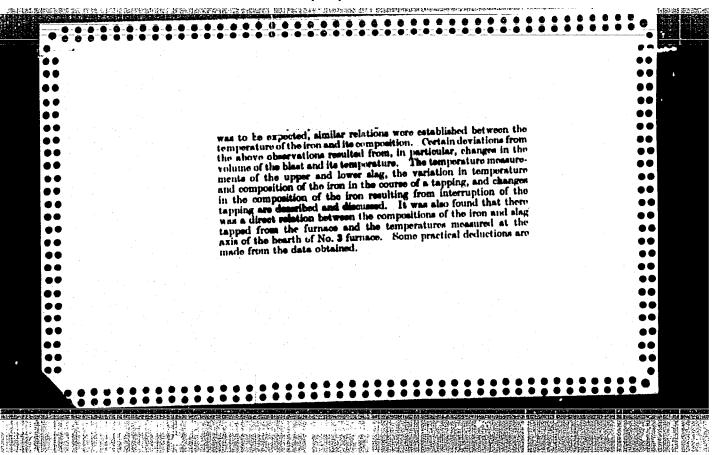
1. Vsesoyuznyy nauchno-issledovatel skiy institut rasteniyevodstva, Leningrad.

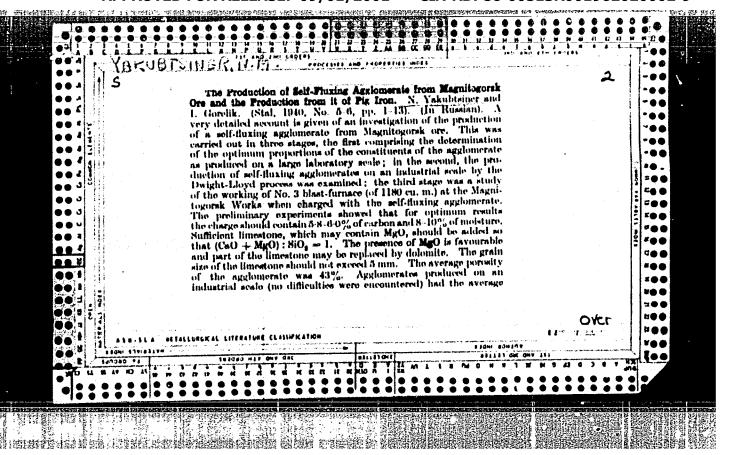
erret e

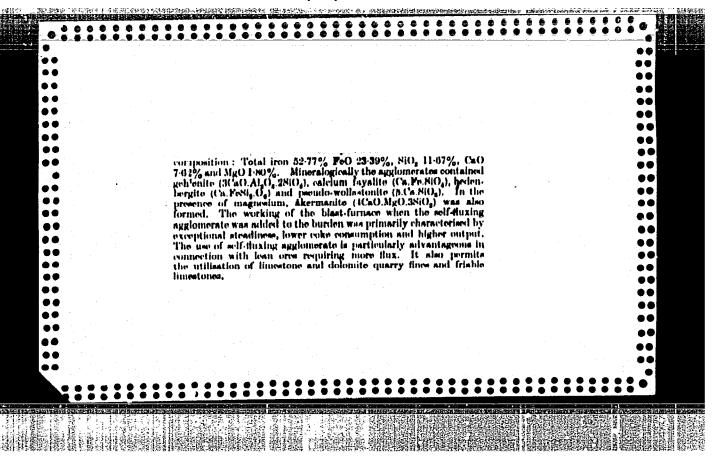
		In memory anniversa	r of Georg ry of his	ii Evgen birth.	evich S Bot. zhu	pangrabe r. 53 no.	rg-Spaler Militari	tu et in) Ap (15. (111	ing (dia)	
		l. Vsesoy rastoniye	uznyy ins vodstva,	titut za Leningra	shehlty d.	rantoniy -	Y Zamery	engy trai	it still	
									· .	
							un ekset oli kate teo			
CHAPTER FREE STEEL	CITINE CHECK		14-14-16-16-16-16-16-16-16-16-16-16-16-16-16-	31909 5150	CHOOSE COM	ABPARTM HARMAN				

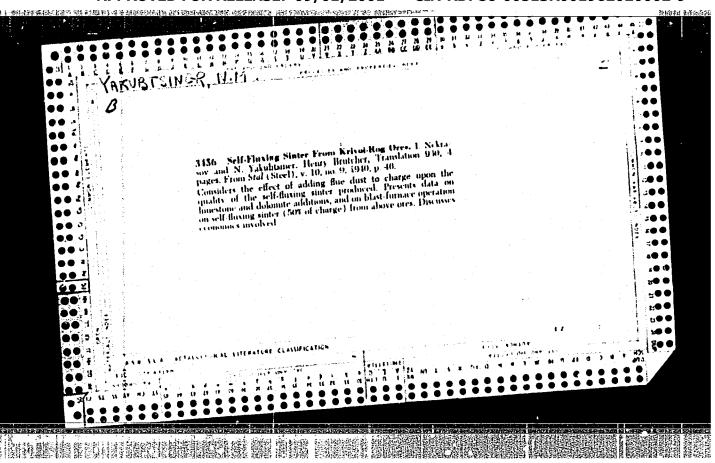


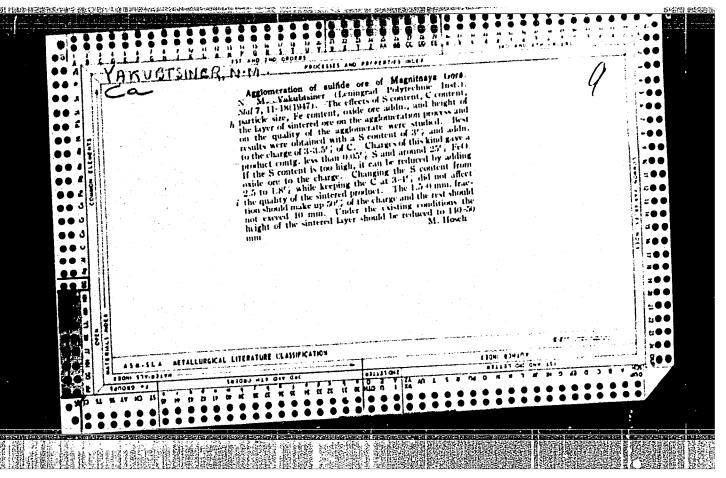




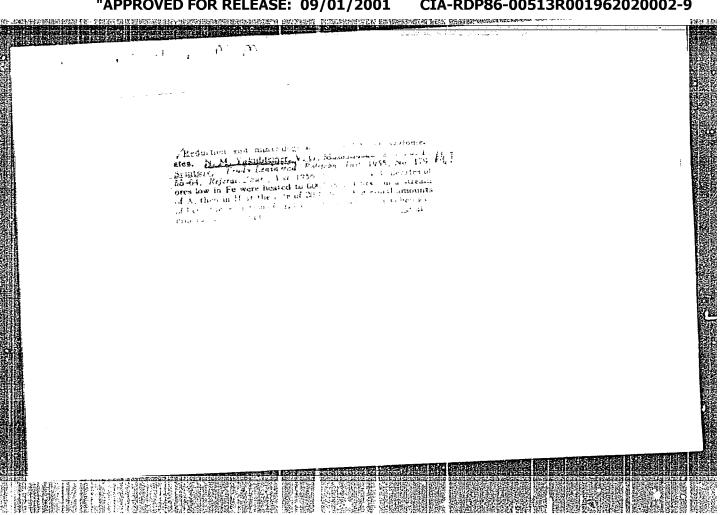








Investigation of the composition of gases, their temperature and pressure in shafts of big-dimension blast furnaces. Trudy Leningrad. Politekh. (MLRA 6:3) Inst. im. M.I. Kalinina '49,No.2. 61-91. (CA 47 no.21:11098 '53)



CIA-RDP86-00513R001962020002-9" **APPROVED FOR RELEASE: 09/01/2001**

SOV/137-57-10-18601

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 18 (USSR)

Yakubtsiner, N.M. AUTHOR:

An Investigation of the Production Process for, and the Prop-TITLE: erties of, Fluxed Sinter (Issledovaniye protsessa proizvodstva

i svoystv oflyusovannogo aglomerata)

Tr. nauchn.-tekhn. o-va chernoy metallurgii, 1956, Vol 8, PERIODICAL:

pp 99-110

Addition of ground limestone to the sinter mix considerably ABSTRACT:

increases its initial permeability to gas. Moreover, this addition results in the formation of more fusible compounds. Reduction in the m.p. of the mix due to the addition of limestone and the low viscosity of the resultant compounds increase the permeability of the bed of mix to gas in the sintering zone, intensify sintering, and make it possible to obtain a strong fluxed sinter (S). When unfluxed S is produced, it is difficult to arrive at a product of adequate strength and reducibility. The reason for this is the use of coarse ground limestone, with

the result that the limestone is not utilized in the sintering

process. Another reason for low strength of fluxed S, Card 1/2

CIA-RDP86-00513R001962020002 APPROVED FOR RELEASE: 09/01/2001

SOV/137-57-10-18601

An Investigation of the Production Process (cont.)

particularly when the mix has a high SiO_2 content, is the formation of $2CaO \cdot SiO_2$ in which the transition from the β to the γ variety, occurring at $675^{\circ}C$, is accompanied by a 10% increase in volume, which results in a breakdown of the S. The formation of $2CaO \cdot SiO_2$ may be significantly limited by additions of dolomite and Mn ore. A procedure has also been developed for producing highly basic (35-40% CaO) S, of good mechanical strength which, however, declines on long storage.

Card 2/2

YAKUBTSINER, N.M., kandidat teknicheskikh nauk; GRIGOR'YEVYKH, G.F.,

Effectiveness of sinter cooling in a pot cooler. Metallurg no.11:2-4 N *56.

1. Starshiy nauchnyy sotrhudnik Leningradskogo politekhnicheskogo instituta(for Yakubtsiner) .2. Nachal'nik aglomeratsionnogo tsekha Cherchovetskogo metallurgicheskogo zavoda (for Grigor'yevykh) (Cherepovets-Sintering)

AUTHORS:

Yakubtsiner, N. M., Cand. Tech. Sc., and Migulitskiy, L.R. Eng. (Leningrad Polytechnical Institute and Cherepovetskiy

Metallurgical Works).

可见的时候,我们就是这种的一种,我们就是这种的人,我们就是这种的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,

TITLE:

Mastering of a new practice on the sinter plant of the Cherepovetskiy Works (Osvoyeniye tekhnologii i novoy tekhniki na aglofabrike Cherepovetskogo zavoda). "Stal" (Steel), 1957, No.4, pp. 293-300 (U.S.S.R.)

PERIODICAL:

ABSTRACT:

A description of the plant ligs. 1 and 2) and characteristic data on raw materials (Table 1) are given. The ore used - concentrates, particle size distribution of which is similar to that of flue dust. Main features 2 of the sinter plant: 1) surface area of the strand - 75 m²; 2) circular cooler with natural draught; 3) shuttle strand feeder evenly distributing the feed across the width of the strand; 4) double screening: stationary screens (25 mm) for hot sinter and vibrating screens (12 mm) for cooled sinter; 5) preheating of the mix with hot return fines and 6) the transfer of cooled sinter to furnace bunkers on a rubber conveyor belt. Sinter cooler with natural draught was found to be ineffective and the introduction of forced draught is considered. introduction of forced draught is considered. The effect of preheating the mix with return fines was not evaluated as it was impossible to have prolonged operation with cooled return fines. Weighing machines for the weighing of the mix before and after the addition of return fines (control of the proportion of return fines) were found to

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962020002-9"

计上程程序 鐵體 美沙拉里 香港區 医重连结 医

Mastering of a new practice on the sinter plant of the Cherepovetskiy Works. (Cont.)

be unreliable due to difficult operating conditions (rapid corrosion of vital parts). The operation of the conveyor belt transporting sinter to furnace bunkers initially presented some difficulties - sticking of sinter in funnels (chutes) and burning of the belt due to inefficient cooling - which were overcome. Basicity of the sinter produced was initially about 0.5, then was raised to about 1, 1.2 and finally to 1.3 (chemical composition and drum test - Table 2 and size distribution of sinter in furnace bunkers - Table 3). Size distribution of self-fluxing sinter was much finer. Changes in the size distribution of sinter during transport from the sinter plant to furnace bunkers was investigated. The following results were obtained:

CaO/SiO₂ Sizes mm: >50 25-50 12-25 8-12 5-8 0-5 6.1 2.8 after vibr.screens 73.0 7.1 6.9 4.1 6.6 6.4 6.5 31.6 24.4 24.5 0.4 furnace bunkers 39.4 12.0 5.1 after vibr.screens 18.0 6.1 19.5 45.0 14.8 14.3 14.8 2.9 1.2 furnace bunkers The operation of the blast furnace with sinter of

Mastering of a new practice on the sinter plant of the Cherepovetskiy Works. (Cont.)

1.2-1.3 basicity was satisfactory (no data given). The output of sinter was 1.32 ton/m²hr.

Sinter plant operating data: strand speed, m/min 2.65 - 3.25

bed height, nm 250 - 270 mm temperature of waste gas, C 180 - 200 fan suction, mm H₂O 110 - 1200

There are 6 figures and three tables.

SOV/130-58-6-4/20

Levin, L.Ya., Yakubtsiner, N.M., Sholeninov, V.M. and Grigor yevykh, G.F. AUTHORS:

Use of Pyrite Cinders in the Production of High-basicity Fluxed Sinter (Primeneniye piritnykh ogarkov v proizvodstve TITIE:

oflyusovannogo aglomerata povyshennoy osnovnosti)

Metallurg, 1958, Arr 6, pp 5 - 10 (USSR).

A shortage of concentrates at the Cherepovets' Metall-1 ERIODICAL: urgical Works led to the use from the end of 1956 of pyrite cinder. Memioning this, the authors go on to describe the cinder. Memioning this, the authors go on to describe the development of sintering methods enabling a high proportion of this material to be used in the production of sinter with a ABSTRACT: basicity range of 1 - 1.2. The sinter plant at the works has three 75 m² machines and sinters a relatively high SiO₂ mix (Table 1). The pyrite cinders available from the Dorogomilovsk and Shchel kovsk works contain 0.3-0.4% Cu and 0.35-0.45% Zn, the sulphur content of both varying widely. Because of the paucity of published data and lack of experience in the USSR, on the sintering of pyrite cinders, experiments were first carried out on a 0.11 m2 sinter box (Figure 2) with the participation of P.T. Krasavina, A.S. Bulatnikova and A.G. Zel'tser. card 1/3

CIA-RDP86-00513R001962020002-9" **APPROVED FOR RELEASE: 09/01/2001**

SOV/130-58-6-4/20
Use of Pyrite Cinders in the Production of High-basicity Fluxed Sinter

Coke and limestone were 3-0 mm, cinders, concentrates and flue-dust were screened through a 5 mm screen and returns were 12-0 mm. The results showed (Figure 3) that with a mix containing 10-30% cinders accurate control of carbon (to 4.5 and 3.5-4.0% in the box and on the full scale, respectively), was obtained. A further series of tests were made with mixes containing 33% cinder showing sinter sulphur increasing with increasing CaO-content, but this effect could be minimized by raising the carbon content of the mix. Sintering speed increased as the basicity was raised to 0.8 but was unaffected by further increases. With increasing returns, from 25 to 35% sintering rate, permeability and sinter strength increased and sulphur decreased (Figure 5). Tests with 0-40% cinders in the ore part of the mix showed that a satisfactory sinter was obtained with 20-25% cinder without appreciable slowing of sintering. Bed depths of 200, 225, 250 and 275 mm were tested (Figure 7) with 25% cinders and a basicity of 1.2: maximal sulphur was obtained with the shallowest bed, the best de-sulphurization being obtained with intermediate bed Card2/3depths. Sinter strength was highest with a bed depth of

Use of Pyrite Cinders in the Production of High-basicity Fluxed

225 mm, while sintering speed decreased when the depth exceeded 250 mm. The authors' conclusion is that 250 mm is the optimal bed depth. Results of full-scale experiments (Figure 8) at the Cherepovets' Works on the whole confirmed the box experiments. The main conditions for maximal desulphurization during sintering were found to be: bed-depth 240-250 mm instead of 275, carbon content of the mix 4.5 - 4.8 instead of 3.5-4% (with 20-25% cinders); good permeability, secured by 30-35% returns and an artificial hearth layer. The lower iron content of the sinter with cinders was found to have no effect on the coke rate (700 kg/t pig) or the are 8 figures and 2 tables.

ASSOCIATION: Cherepovetskiy metallurgicheskiy zavod (Cherepovets: Metallurgical Works) and Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical Institute)

Card 3/3 1. Sintering furnaces - Equipment 2. Pyrites - Applications 3. Sintering furnaces - Operation

	Sintering 160.	the Olenosorsk concentrates. (OlenogorskIron ores)	Trudy LPI no.212:162-170 (MIRA 13:12) (Sintering)	

18.2000

77443 \$07/133-60-1-4/30

AUTHORS:

Yakubtsiner, N. M., Trekalo, S. K. (Candidates of Technical Sciences), and Shur, A. B. (Engineer)

TITLE:

Physical Properties of Fluxed Sinter of the Cherepovets

Plant

PERIODICAL:

Stal', 1960, Nr 1, pp 14-18 (USSR)

ABSTRACT:

This is a study of sintering problems at the Cherepovets Metallurgical Plant (Cherepovetskiy metallurgicheskiy zavod). G F. Grigor'yevykh, Ye. V. Nevmerzhitskiy, V. M. Sholeninov, D. L. Grinberg, and E. Ye. Gutman participated in the work. The plant is producing fluxed sinter from beneficiated Olenegorskiy (not identified) iron deposits and from Pikalevo deposit (Pikalevskoye mestorozhdeniye) of limestone. At some periods the pyrite cinders of plants near Moscow were added to the charge of sintering plant. The Olenegorskiy beneficiated ore (by 1958 data) contains 60.1 to 60.7% Fe; 13.2 to 14.1% SiO₂; and 1.1 to 1.3% CaO. The limestone (amounting to 300 kg/ton of sinter) contains

Card 1/6

Physical Properties of Fluxed Sinter of the Cherepovets Plant

77443 SOV/133-60-1-4/30

51.5 to 53% CaO; 1.5 to 4% of insoluble residue (1 to 2% SiO2); and about 0.3% MgO. The determination of bulk weight of fluxed sinter and the determination of screen composition and the degree of crushing of sinter during transportation are described. The Cherepovets Plant, for the first time in the USSR, used a two-stage screening of sinter returns. In addition to the regular screening machines (in the unloading section of sintering machine), which screen the returns before loading of sinter into cooler, the additional vibrating screening machines for secondary screening of fines (after the cooler) are installed. The bulk weight of sinter varies. It is due to the increase of the apparent specific weight of sinter pellets with the decrease of their size, as shown by the experimental data previously obtained by N. M. Yakubtsiner and Yu. P. Smirnov (see Fig. 2). For the study of screened fluxed sinter, samples were taken from the conveyors. The results are given in Fig. 4. The tests show that the secondary screening of returns is expedient. However, the consecutive transportation and reloading of sinter results

Card 2/6

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-005:

CIA-RDP86-00513R001962020002-9"

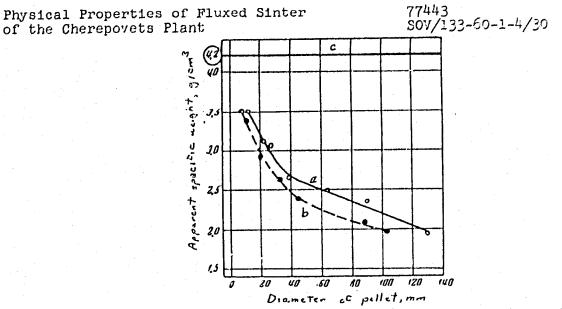


Fig. 2. The relationship between the apparent specific weight of sinter and the size of pellets: (a) sample Nr 1; (b) sample Nr 2; (c) true specific weight.

Card 3/6

Physical Properties of Fluxed Sinter of the Cherepovets Plant

16

77443 SOV/133-60-1-4/30

Card 4/6

Fig. 4. Change in composition of various fractions (from 0-3 to 0-10 mm) in the sinter, when screening with 2 open sections (a) and totally closed (b) screening machines (samples I to IV).

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962020002-9"

Samples

Physical Properties of Fluxed Sinter of the Cherepovets Plant

的证据的证据,我们就是否是一种的人,但是是不是一种的人的,我们就是不是一种的人的。

77443 SOV/133-60-1-4/30

in the new formation of fines. The effect of prolonged storage in silos on the screen composition of sinter; the crushing of sinter fractions (from 3 to 5 and 100 to 150 mm) during the storage in piles under the silos for 5 to 24 hr; and the change of screen composition of fresh sinter and sinter stored at the ore yard were The deterioration of screen composition of sinter during its storage at ore yards (with accompanying increase of bulk weight), as compared with sinter of current production, supplies a good argument in favor of building the sintering plants at the metallurgical plants and not at the ore mines. The authors state that in order to bring to a minimum the amount of fines in the sinter, which is charged to the furnace, the screening of fines before loading of sinter into skip is imperative. At present the amount of fines (of 0-5 mm fraction) at the Yenakiyevo Plant (Yenakiyevskiy zavod) reaches 21%, and at the Krivoy Rog Plant (Krivorozhskiy zavod), 20.8%.

Card 5/6

Physical Properties of Fluxed Sinter of the Cherepovets Plant

77443 SOV/133-60-1-4/30

There are 9 figures; 2 tables; and 3 Soviet references.

ASSOCIATION:

Leningrad Polytechnic Institute (LPI), Central Scientific Research Institute of Ferrous Metallurgy (TsNIIChM), and Cherepovets Metallurgical Plant (Cherepovetskiy metallurgicheskiy zavod)

Card 6/6

CIA-RDP86-00513R001962020002-9 "APPROVED FOR RELEASE: 09/01/2001

78176 sov/133-60-3-1/24 18,2000

Yakubtsiner, N. M., Nevmerzhitskiy, Ye. V., AUTHORS:

Grigor yevykn, O. F.

The Practice of Producing Sinter of Increased Basicity TITLE:

When Sintering Fine Beneficiated Ore

Stal', 1960, Nr 3, pp 193-203 (USSR) PERIODICAL:

This is a description of a successful production of increased basicity sinter at the Cherepovets Metallurgical ABSTRACT:

Plant(Cherepovetskiy metallurgicheskiy zavod). The described sintering plant is equipped with 3 sintering machines which were put into operation in June 1955 and April and December 1956, respectively (see Fig. 1). In the first few months the plant produced nonfluxed sinter, or sinter with the degree of basicity (CaO: SiO₂) not higher than 0.5; but since the end of

1955 the plant has been producing sinter of 1.15-1.20 basicity. Working on such sinter, the plant's blast

furnaces had better results (regarding coke consumption)

na miangana mengerupakan manangan di malangan

Card 1/6

The Practice of Producing Sinter of Increased Basicity When Sintering Fine Beneficiated Ore

到 Naguran Ministra 是一块有限的特别和智慧的自然是否是不够是否是一种智能的是是 And Andre conduction and a series

78176 **SOV**/133-60-3-1/24

than other furnaces in the USSR. Described are: characteristics of raw materials and their preparation for sintering; Olenogorsk (not identified) beneficiated ore; pyrite cinders; limestone; coke fines and other admixtures, as well as the work of sintering plant and the quality of sinter; operation of the equipment and technical-economical characteristics of the sintering plant work. The cost of sinter, considerably lowered since 1956, (125-127 rubles/ton) and processing (about 15 rubles/ton) is still expensive compared with Southern plants (48-55 rubles/ton for sintering; 8-10 rubles for processing. This is explained by: (a) higher cost of Olenogorsk bene-ficiated ore (107 rubles/ton) as against that of Krivoy Rog beneficiated ore (30 rubles/ton); (b) high power cost due to unfinished construction of the plant and overequipment of sintering plant with electrical machinery; (c) expensive repairs of new equipment (ring type coolers of sinter, conveying of sinter into blast furnace shop, etc.) and purchase

Card 2/6

 The Practice of Producing Sinter of Increased Basicity When Sintering Fine Beneficiated Ore

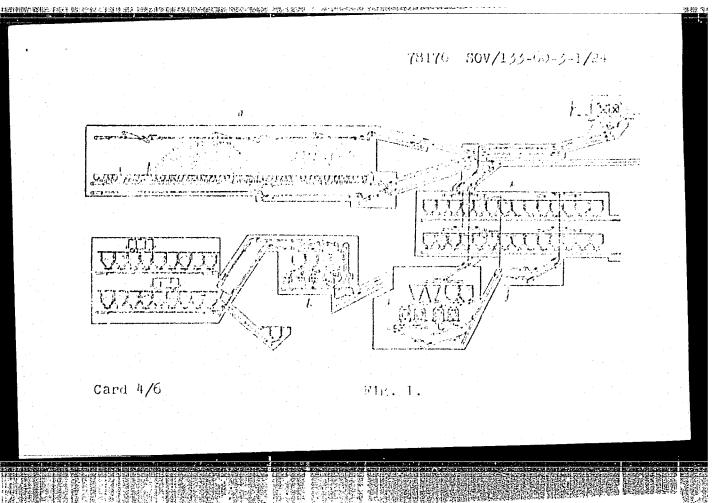
78176 SOV/133-60-3-1/24

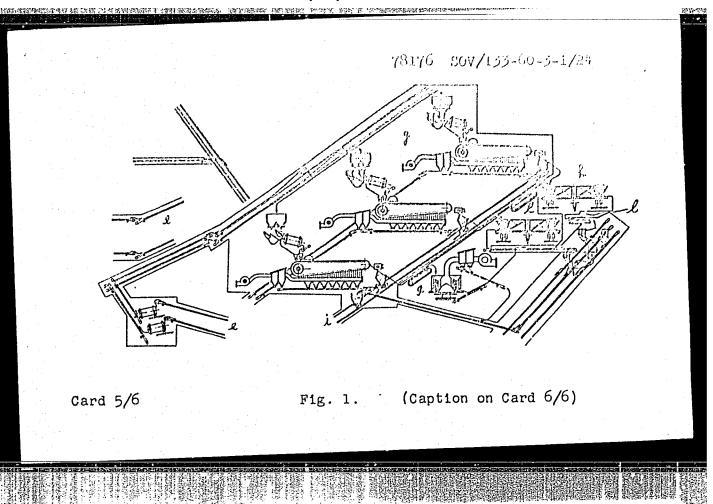
of rolled shapes from the outside. Proposed measures for lowering the cost of sinter are: (1) decreasing power consumption by eliminating excess power electrical motors, introducing automation, reducing idle time to a minimum; (2) improving quality of repairs, with corresponding extension of time between repairs; (3) prolonging the life of parts by making them from mangamene steel (guard plates) and heat resisting east from (fire grates, etc.), applying heat treatment, etc.; (4) increasing the amount of relatively cheap scale in the charge; (5) increasing sinter production and the productivity of labor by 5-6%. The above measures will lower the cost of sinter (3.5-4 rubles/ton) and therepovets east from (7-8 rubles/ton).

ASSOCIATION:

Cherepovets Metallurgical Plant and Leningrad Polytechnic Institute (Cherepovetskiy metallurgicheskly zavod i Leningradskiy politekhnicheskiy institut)

Card 3/6





APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962020002-9"

The Practice of Producing Sinter of Increased Basicity When Sintering Fine Beneficiated Ore

78176 SOV/133-60-3-1/24

Fig. 1. Schematic diagram of equipment at the Cherepovets sintering plant. (a) Ground type, roofed storehouse of beneficiated ore; (b) coke crushing building; (c) conveyors into charge building; (d) limestone crushing building; (e) conveyors into sintering building; (f) car dumper; (g) sintering building; (h) three-ring type sinter coolers (the third cooler is equipped with cooling blower and battery cyclones); (i) conveyors into primary mixing building; (j) conveyors from coke crushing building; (k) charge building; (l) plate transporters.

Card 6/6

GOL'MSHTOK, Ya.M.; KUZ'MIN, I.A.; LEVIN, L.Ya.; RAMM, A.N.; YAKUETSINER, N.M.

Three years of blast furnace operation at the Cherepovets Metallurgical Flant. Trudy LPI no.212:7-23 '60. (MIRA 13:12)

(Cherepovets-Blast furnaces)

TAKUBTSINER, N.M.

Rifect of the content of magnesium in the sinter on its reducibility.

Trudy LFI no.212:158-161 '60.

(Sintering)

(Magnesium)

(Sintering)

TREKALO, S.K.; YAKURTSINER, N.M.; ANDRONOV, V.N.; GRIGOR'YEVYKH, G.F.;
KAYLOV, V.D.; SHUR, A.B.; V rabote prinimali uchastiye:
NEVMERZHITSKIY, Ye.V.; SHOLEHINOV, V.M.; VITOVSKIY, V.M.;
GRINBERG, D.L.; GUTHAN, E.Ye.; YEGOROV, N.D.

u and de la completa de la completa

Open-hearth furnace operations with classified sinter. Stal' 20 no. 12:1063-1070 D '60. (MIRA 13:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii i Cherepovetskiy metallyrgicheskiy zavod.

(Blast furnaces) (Sintering)

YAKUBTSINER, N.M., kand. tekhn. nauk; SMIRNOV, Yu.P., inzh.

Automatic control and regulation of the sintering charge moisture. Stal' 24 no.1:9-14 Ja '64. (MIRA 17:2)

1. Leningradskiy politekhnicheskiy institut.

YAKUBTSINER, N.M.; SMIRHOV, Yu.P.; SHOLENINOV, V.M.

Optimum coarseness of the components of a sintering charge during the sintering of fine-grained concentrates. Trudy IPI no.225:

(MIRA 17:9)
168-177 '64.

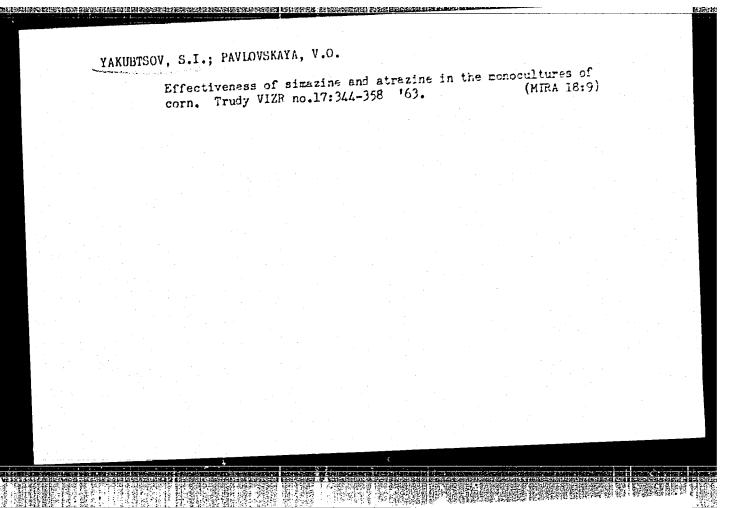
YAKUBTSINER, N.M.; SVINTSOV, Yu.P.; SMIRNOV, Yu.P.

Heat capacity and heat conductivity of sinters. Trudy LPI no.225:
(MIRA 17:9)
178-186 '64.

YAKUBTSOV, S.I., starshiy nauchnyy sotrudnik

Effectiveness of new herbicides in corn fields. Zashch. rast. ot
vred. i bol. 8 no.2:21-22 F 163. (MIRA 16:7)

1. Vsesoyuznyy institut zashchity rasteniy. (Corn (Maize)) (Herbicides)



YAKUBTSOVA, Irena

Defects of the heart septum in children and indications for their surgical treatment by the use of artificial blood circulation.

Trudy Inst.eksp.i klin.khir. i gemat. AN Gruz.8SR 10:53-56 162.

(MIRA 16:2)

(CHILDREN—SURGERY) (BLOOD—CIRCULATION, ARTIFICIAL) (HEART —SURGERY)

CIA-RDP86-00513R001962020002-9 "APPROVED FOR RELEASE: 09/01/2001

YAKUBYAN, S.S. Yakubyan, S.S. "Regarding the principles of formulation the accounting plan of an industrial enterprise (structure of the valance-sheet)2, Trudy Lesotekhn. akad. im. Hirova,

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

No. 63, 1948, p. 159-69.

CIA-RDP86-00513R001962020002-9" APPROVED FOR RELEASE: 09/01/2001