"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520018-8

· .	Absorption Spec	tra and the	Structure	of Acyl I	erivatives	of 9-Amin	9-4-59/77 noacridine
	ASSOCIATION:	Khar'kovskiy Institute)	farmatsey	ticheskiy	institut	(Khar'kov	Pharmaceutics
	SUBMITTED:	February 26,	1958				
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	Card 3/3						
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BLIZNYUKOW, V.I. [Blyzniukov, V.I.]; SHTUCHNA, V.P.

Structure and parasiticidal action of isomeric chlorine derivatives of 9-(5-diethylamine-2-pentyl)-aminoacridine. Farmatsev. zhur. 16 no.3:12-15 '61. (MIRA 14:6)

1. Kafedra farmatsevticheskoy khimii Khar'kovskogo farmatsevticheskogo instituta. (INSECTICIDES) (ACRIDINE)

APPROVED FOR RELEASE: 08/22/2000

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BLIZNYUKOV, V.I. [Blyzniukov, V.I.]; GRIN', V.A. [Hrin', V.O.]

Structure and bacteriostatic activity of sulfazine and sulfodimesin. Farmatsev. zhur. 16 no.5:9-13 '61. (MIRA 17:10)

1. Kafedra farmatsevticheskoy khimii Khar'kovskogo farmatsevticheskogo instituta.

APPROVED FOR RELEASE: 08/22/2000

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520018-8

	BLIZNYUKOV, V.I.; SOKOL, L.S.; SOLONSKAYA, N.T.	
	Interaction of functional groups in amino derivatives ing a methoxy group. Zhur.ob.khim. 34 no.11329-331 Ja	of benzene contain '64. (MIRA 17:3)
	1. Khar'kovskiy farmatsevticheskiy institut.	
-		

BLIZNYUKOV, V.I. [Blyzniukov, V.I.]; GRIN', V.A. [Hrin', V.O.]; TITSKIY, O.D. [Tits'kyi, H.D.]

Structure and bacteriostatic activity of hydroxy and methoxy analogs of some sulfanilamides. Farmatsev.zhur. 20 no.1:13-16 <sup>165.</sup> (MIRA 18:10)

1. Khar'kovskiy farmatsevticheskiy institut.

APPROVED FOR RELEASE: 08/22/2000

BORISOV, S.I., doktor tekhn. nauk; BLIZNYUKOV, Ye.A., inzh.

Contact surface of the blank and the friction tool in the manufacture of hollow, periodic sections by transverse and helical rolling. Proizv. trub no.10:36-41 '63.

Optimal conditions for transverse and helical rolling of hollow periodic sections. Ibid.:41-49 (MIRA 17:10)

APPROVED FOR RELEASE: 08/22/2000

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SOURCE:	RZh. Tekhnologiya I	nashinostroyer	iya, Abs. 1V2	)7		
AUTHOR:	Borisov, S. I.; El	znyukov. Ye.	A.I. Goryun, A.	P.; Vereshoh	agin, A. D.	
TITLE: profiles	Machine tool with pr by transverse-sore	rogrammed cont w rolling	rol for produc	tion of hollo	w periodio	
CITED SO	WRCE: Sb. Trubn. p	roiz-vo Ukrain	19*. Kiyev, 190	53 <b>,</b> 44–51		
TOPIC TA hollow p	GS: periodic profil profile, profile mac	Le, automatic hining, hollow	machine tool, periodic pro:	profiling mac Sile machining	hine tool,	
construct extrusion and other idling r hydrauli	TON: The Ukrainian ted a machine tool to on of hollow profile or thin-walled produ rollers or other too ic cylinders symmetry d part, deforming th	with program ( s used as blan cts with a per ls connected ically approac	control for the nks in the pro- riodic longitue to the shafts ( oh and retreat	e rotational f duction of con dinal profile of the comprese from the axis	not or cold nical shells , The ssion device s of the	
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with the r deforming	novable carri portions of	the longitud	long the axis of dinal profile thu okness and its va . Bosbevskiy.	the blank, so oughout its riations over	length. It r the lengt	1s h of
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BLIZNYUKOV, Turiy Nikolayevich; KARAKOZOV, Eduard Arkad'yevich; SMELYANSKIY, Fedor Andreyevich; SEROVA, Ye.I., vedushchiy red.; POLOSINA, A.S., tekhn.red.

> [Introducing new drilling equipment; practice of petroleum workers of the Chechen-Ingush A.S.S.R.] Vnedrenie novoi burovoi tekhniki; opyt neftianikov Checheno-Ingushskoi ASSR. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959, 92 p. (MIRA 13:1) (Chechen-Ingush A.S.S.R.--Oil.well drilling--Equipment and supplies)

APPROVED FOR RELEASE: 08/22/2000

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B	LIZNYUKOV, Yuriy Nikolayevich; BOCHKAREV, Vladimir Ivanovich; BURACHKOVSKIY, Vladimir Vladimirovich; GIBREYKH, Lazar' Isaakovich; DUBROVSKIY, Viktor Fedorovich; ISMAILOV, Sadykh Ismail-ogly; SAZONENKO, Petr Alekseyevich; SMIRNOV, Arseniy Sergeyevich; SYROMYATNIKOV, Yevgeniy Sergeyevich; SUSLENNIKOV, Nikolay Mikhaylovich; KAYESHKOVA, S.M., ved. red.; TROFINOV, A.V., tekhn. red.	
	[Practice of innovators in drilling and exploiting oil wells] Opyt novatorov bureniia i ekspluatatsii neftianykh skvazhin. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 67 p. (MIRA 15:3)	
	<pre>1. Moscow. TSentral'noye byuro promyshlennykh normativov po trudu.    (Oil well drilling) (Automatic control)         (Oil fields-Equipment and supplies)</pre>	

BLIZNYUKOV, Yu.N.; FROLOV, G.A.

"Sunzhanneft"".

Side tracking when drilling deep wells. Burenie no.10:1:-17 '64. (MIRA 18:6) 1. Trest "Groznefterazvedka" i neftepromyslovoye upravleniye

APPROVED FOR RELEASE: 08/22/2000

S/114/61/000/002/007/007 E194/E255

AUTHORS: Mellerovich, G. M. and Bliznyukova, N. M., Engineers TITLE: Strain-Gauge Studies of Steam Turbine Parts at the KhTGZ imeni Kirov

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PERIODICAL: Energomashinostroyeniye, 1961, No. 2, pp. 36-39

TEXT: Turbine parts are often of complicated shape so it is often impracticable to make strength calculations on them. It is accordingly important to make an experimental study of stress distribution in vital parts, and in the last two years the works have done so for parts of turbines Types  $3^{KT-100}$  (VKT-100) and  $\Pi BK-150$  (PVK-150). The investigations were made by the straingauge method. The parts tested may be classified into two groups: in one the parts are in the form of closed envelopes; in the other they are in the form of sheets, such as diaphragms, or open envelopes. Parts of the first type are loaded by hydrostatic pressure. The instrumentation, and in particular the method of bringing the thermocouple leads out of the high-pressure zone, are described. Nozzle boxes of turbines PVK-150 operate at a temperature of 565°C and a pressure drop of 52 kg/cm<sup>2</sup>. They are of very complicated shape. Both the upper and lower nozzle boxes were Card 1/3

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### S/114/61/000/002/007/007 E194/E255

Strain-Gauge Studies of Steam Turbine Parts at the KhTGZ imeni Kirov

tested, since they are structurally different. The tests showed that excessive stresses were found in certain parts of the nozzle boxes and the re-design that was necessary is briefly described. Tests were also made on a flangeless stop valve for a turbine Type PVK-150 and the validity of the formulae used in designing the valve was confirmed. A number of tests were made on diaphragms of turbines VKT-100 and PVK-150. The parts to be tested were mounted on 6 or 8 supports, separated by a distance of not less than one third of the circumference. On each half-diaphragm the load was applied over an arc such that the centre of gravity of the load coincides with the centre of gravity of the half-diaphragm. Diaphragms from the second and sighth stages of turbine PVK-150 were tested. The second-stage dipphragm is of steel with reinforcing ribs. The eighth-stage diaphragm has no ribs. The tests showed that the stresses in the body of the second-stage diaphragm are relatively small and are closely in accordance with calculated The results confirm the justification for designing values.

Card 2/3

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## S/114/61/000/002/007/007 E194/E255

Strain-Gauge Studies of Steam Turbine Parts at the KhTGZ imeni Kirov

diaphragms by a method which fully allows for structural features such as ribs. Stresses in the body and rim of the eighth-stage disphragm were also small. In 1958 the works tested diaphragms from the eleventh stage of a 25 MW turbine which was in for repair. This was a cast-iron diaphragm with cast-in blades and had been cracked as a result of a machine failure. To localize the cracks holes were drilled at the ends and a study was required to ascertain how much the cracks had weakened the diaphragm. The tests are described and it is shown that at the section weakened by the cracks the stresses had increased by approximately 20 to 30%. A further case of stress determination on a diaphragm is also described. It is concluded that strain-gauge tests had made it possible either to select the optimum type of construction from the strength point of view or to assess the reliability of parts. By accumulating experience of this kind recommendations can be made to ensure the reliability of parts in newly-designed turbines. There are 7 figures and 3 Soviet references.

Card 3/3

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#### CIA-RDP86-00513R000205520018-8

L 10934-66 EWT (m)/EWP(w)/T/EWP(t)/EWP(z)/EWP(b)/EWA(h) IJP(c) JU/HM SOURCE CODE: UR/0286/65/000/020/0167/0167 ACC NR: AP5028552 M. K.; Bliznyukova INVENTOR: Chipizhenko, A. I.; Iodlinskaya, Z. M.; Golubkov, N. Yu. ORG: none r TITLE: Copper-base alloy. Class 40, No. 160827 55 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 167 TOPIC TAGS: copper alloy, zinc containing alloy, nickel containing alloy, aluminum containing alloy, mangamese containing alloy, silicon containing alloy, high strength alloy, copper base alloy, finsile strength 21 ABSTRACT: This Author Certificate introduces a copper-base allow containing nickel, aluminum, manganese, and zinc. To increase the tensile strength and relaxation 55 strength of the alloy, the component contents are kept within the limits: copper 73.0-76.0%, nickel 1.5-3.0%, aluminum 1.5-3.0%, manganese 0.3-1.0%, silicon [DV] 0.3-10%, and balance zinc. 30Ju163/ ATD PRESS: 470 SUB CODE: 11/ SUBM DATE: 669.35. UDC:

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000205520018-8



BLOCH, Bronislawa; KANIA, Izabella; SLOMSEI, Czeslaw

Case of adrenogenital hyposalemic syndrome in a 3 week infant. Pediat. polska 33 no.1:103-106 Jan 58.

1. Z I Kliniki Chorob Dzieciecych A.M. we Wroclawiu. Kierownik: prof. dr med. H. Hirszfeldowa i z Zakladu Medycyny Sadowej A.M. we Wroclawiu. Kierownik: prof. dr med. B. Popielski. (ADRENOGENITAL SYNDROME, blood in

hyposlaemia in 3 week old inf. (Pol)) (ELECTROLYTES, in blood defic. in adrenogenital synd. in 3 week old inf. (Pol))

APPROVED FOR RELEASE: 08/22/2000

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000205520018-8 -----

	COUNTRY : CATEGORY :	POLAND Zocparasitology. Parasitic Protozoa. Flagellata	
	ABS. JOUR. :	RZnBiol., No. 2 1959, No. 5698	
		Bloch, B.; Jaworska, J.	
	INST. : TITLE :	A Case of Toxoplasmosis in a 22-Week-Old Child	
	ORIG. PUB. :	Pediatr. polska, 1958, 33, No 1, 107-109	
	ABSTRACT :	In a child which was born at the proper time an acute jaundice developed within two weeks after birth, and the temperature rose to 38°. Atresia	
•		of the biliary ducts and cytomogalia were diag- nosed. The complement-fixation reaction to toxo-	
		plasmosis during the first blood test in the mother was weakly positive, and during a second one it was markedly positive. In the child a	
	CARD:	1/2	
		11.	
	une at her an eight of a darp transformer und		

CHILMAN, A.; BLOCH, B.; LEWANDOWSKA, J.

Radiologic changes in reticuloendotheliosis of the Abt-Letterer-Siwe type. Pol. przegl. radiol. 29 no.4:373-379 Jl-Ag '65.

1. Z I Kliniki Pediatrycznej AM we Wroclawiu (Kierownik: prof. dr. med. T. Nowakowski).

APPROVED FOR RELEASE: 08/22/2000

BLOCHAS, C.

A case of asthmatol poisoning. Sveik. apsaug. 6:31 S '64.

HLOCH, K.E.; LYNEN, F.

Winners of the Nobel prize for medicine. (rv. hetil. 106 no.4: 173-174 24 Ja '65

APPROVED FOR RELEASE: 08/22/2000

# BLOCH, Tadeusz; BIELSKI, Tadeusz; CZEKALA, Zbigniew

Role of radiological investigations with the use of contrast media in the diagnosis of meniscus injuries. Chir. narsad. ruchu ortop. pol. 28 no.2:169-176 '63.

1. Z Oddzialu Ortopedyczno-Urazowego Szpitala Miejskiego im. dr A. Mieleckiego w Chorzowie Ordynator: dr T. Bielski Z Zakladu Rentgenologicznego Szpit. Miejsk. im. dr A. Mieleckiego w Chorzowie Kierownik: dr Z. Czekala. (KNEE) (LEG INJURIES) (RADIOGRAPHY)

APPROVED FOR RELEASE: 08/22/2000

UGORETS, I.I.; GLAZUNOV, A.A.; SYROMYATNIKOV, I.A.; KASHUNIN, I.S.; POSTNIKOV, N.A.; RADTSIG, V.A.; UG'YAHOV, S.A.; GHUDINSKIY, P.G.; VASIL'IEV, A.A.; KUVSHINSKIY, N.N.; BAPTIDANOV, L.N.; TARASOV, V.I.; KRIKUNCHIK, A.B.; SHAPIRO, A.B.; BIBIKOV, V.V.; DVOSHIN, L.I.; KLINGOF, I.D.; KARPOV, M.M.; USPENSKIY, B.S.; CHALIDZE, I.M.; BLOCH, YB.A.; SHMOTKIN, I.S.

> Iesif IAkevlevich Gumin; obituary. Elek.sta.26 no.12:58 D '55. (Gumin, Iesif IAkevlevich, 1890-1955) (MIRA 9:4)

APPROVED FOR RELEASE: 08/22/2000

BLOCH, Z.; GORNIAK, J.

Determining the dust content in mines by Zeiss or Sartorius konimeters. Builetyn. p. 15.

PRZEGLAD GORNICZY. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Gornictwa) Katowice, Poland, Vol. 15, no. 9, Sept. 1959.

Monthly list of East European Accessions (EEAI) IC, Vol. 9, no. 1, Jan. 1960.

Uncl.

APPROVED FOR RELEASE: 08/22/2000

BLOUH, Zofla, mgr; SYEKA, Junins, mgr

Determination of SiO2, using the phase contrast method in samples taken from mines. Prasgl gorn 20 no. 5:249-251 My '64.

APPROVED FOR RELEASE: 08/22/2000

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BLOCHARSKI, J.

Attempted application of proteolytic properties of blood serum and urine dialysate in hematological cytodiagnosis. Polski tygod. lek. 8 no.4:143-145 26 Jan 1953. (CIML 24:3)

1. Of the Third Internal Clinic (Head--Prof. J. Aleksandrowicz, M. D.) of Krakov Medical Academy.

APPROVED FOR RELEASE: 08/22/2000

BLOCHAS, C. med.m.kand.

On sending material from medical establishments to chemico-legal analysis. Sveik. apsaug. 9 no.2:27-30 F'64.

APPROVED FOR RELEASE: 08/22/2000



GIMZAUSKAS, J., med. m. kand.; <u>ELOCHAS, C. m</u>ed. m. kand.; IVASAUKAS, H. A severe and rare case of non-specific ulcerative colitis. Sveik. apsaug. no.7:18-20 '62. (COLITIS ULCERATIVE)

APPROVED FOR RELEASE: 08/22/2000

BLOCHAS, C., med. m. kand.

On the problem of the diagnosis of acute alcoholic intoxication. Sveik. apsaug. 8 no.5:14-19 '63.

> (ALCOHOLIC INTOXICATION) (BLOOD CHEMICAL ANALYSIS) (JURISPRUDENCE) (URINE)

APPROVED FOR RELEASE: 08/22/2000

HERZOG, P.; BOHATOVA, Jana; BLOCHOVA, Lilly

Serum proteins with an affinity for haemoglobin. II. Haptoglobin types of the population of Prague. Folia biol. (Praha) 9 no.4: 265-270 '63.

1. Institute of Haematology and Blood Transfusion, Prague. (HAPTOGLOBINS) (HEMOGLOBIN) (BLOOD PROTEIN ELECTROPHORESIS)

APPROVED FOR RELEASE: 08/22/2000

WATORSKI, JAN, doc. inz., BLOCHOWIAK, Zbigniew, mgr inz.

Production plant of IOMB-WE concrete mix. Przegl budowl i bud mieszk 23 no.8:515-518 Ag'61

APPROVED FOR RELEASE: 08/22/2000

HIRSZFELDOWA, H.; BLOCHOWNA, B.; COZIOROWSKI, Cz.; SASSOWA, J.; WASIK, R.

The uroprecipitation test. Polski tygod.lek. 15 no.33:1257-12604 15 Ag '60.

1. Z I Kliniki Pediatrycznej A.M. we Wroclawiu; kierownik: prof. dr med. H.Hirszfeldowa (RHEUWATIC FEVER diag.) (PRECIPITINS)

APPROVED FOR RELEASE: 08/22/2000

HIRSZFELDOWA, Hanna; <u>BLOCHOWNA; Boguslawa; KOZIOROWSKI</u>, Czeslaw; SASSOWA, Janina; WASIK, Menata
Studies on the nature of urogen. Polski tygod. lek. 16 no.11:381-383 13 Mr <sup>1</sup>61.
1. Z I Kliniki Pediatryosnej A.M. we Wroclawiu; kierownik: prof. dr med. H. Hirszfeldowa.
(POLYSACCHARIDES urine) (RHEUMATISM urine)

APPROVED FOR RELEASE: 08/22/2000

JANICKI, Jozef; HLOCINSKA, Teresa; NOWAROWSKA, Krystyna

Activity evaluation of lipoxidase in samples of soya and wheat. Roczniki Wyz Szkola Rol Poznan no.13:251-263 \*62.

1. Katedra Technologii Rolnej, Wyzsza Szkola Rolnicza, Poznan.

APPROVED FOR RELEASE: 08/22/2000



GORDON, Louis; BLOCK, Jacob; HABERMAN, Norton; SALESIN, Eugene D.

Process of precipitation separation, separation from a homogeneous agent. Kem tud kozi MTA 16 no.3:265-274 '61.

1. Department of Chemistry, Case Institute of Technology, Cleveland 6, Ohio, USA.

APPROVED FOR RELEASE: 08/22/2000
CIA-RDP86-00513R000205520018-8



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### CIA-RDP86-00513R000205520018-8



APPROVED FOR RELEASE: 08/22/2000



CIA-RDP86-00513R000205520018-8



BLOCK-BOLTEN, A. Sulfur in binary liquid solutions. p.105. BULLETIN. Varsovie. Vol. 3, no. 2, 1955. In English. September 1956 So. East European Accessions List Vol. 5, No. 9

CIA-RDP86-00513R000205520018-8



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BLOCK-BOLTEN, A.	
POLAND/Atomic and Molecular Physics - Statistical Physics. Thermo- D-3 dynamics	
Abs Jour : Ref Zhur - Fizika, No 2, 1958, No 3176	
Author : Krupkowski Aleksander, Ptak Wladyslaw, Block-Bolten Andrzej. Inst : Academy for Mining and Smelting, Cracow, Poland Title : Thermodynamic Functions in Binary Systems.	
Orig Pub : Zesz. nauk. Akad. gornhuth., 1957, No 10, 27-71	•
Abstract : The authors consider the relationships between the form of the diagrams of the thermal systems and the thermodynamic fun- ctions that characterize these systems. Methods for calcula- tion of the thermodynamic functions such as enthalpy and entropy, chemical potentials of pure elements, partial heat of solubility, heat of solution, activity of the substances in solution, enthalpy, entropy and chemical potentials of individual metals in solutions are presented. Another group of functions comprises the enthalpy, entropy, and free energies of solutions and mixtures. Four typical thermal systems of metals which do not form into metallic compounds Card : 1/2	

.POLAND/Atomic and Molecular Physics - Statistical Physics. Thermo- D-3 dynamics.

Abs Jour : Ref Zhur - Fizika, No 2, 1958, No 3176

are chosen, namely: zinc-cadmium, silver-copper, nickel-copper, and lead-zinc. The thermodynamic functions for these systems were calculated on the basis of experimental data, gathered essentially from Kelley's data (Kelly K.K., U.S. Bureau of Mines Bulletin, Nos. 350, 371, 393, 394, 407, and 434). The indicated systems must be considered as examples. It is possible on their basis to calculate any system of a given type. In contradiction to the qualitative solutions presently available, this work considers the problem quantitatively.

Card : 2/2

APPROVED FOR RELEASE: 08/22/2000

. AT	ithúrs:	Krupkovskiy, A., Ptak, V., Blek-Boltton, A. 78-3-4-19/38
T	TLE:	Thermodynamic Functions in Binary Systems (Termodinamicheskiye funktsii v binarnykh sistemakh)
PI	ERIODICAL:	Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 4, pp. 939-944 (USSR)
<b>A</b> ]	BSTRACT :	In binary systems different phases exist at various tempera- tures. For explaining the phase equilibria thermodynamic functions were used. For binary solutions the following functi holds: $F' = N_1 \overline{\mu}_1 + N_2 \overline{\mu}_2$
		$\mu_1, \mu_2$ = chemical potentials of the substances 1 and 2 in solution, N1, N <sub>2</sub> = concentration of substances 1 and 2, given in mol. For mixtures the following function applies: $F^{t} = n_1 \mu_1 + n_2 \mu_2$
Ca	ard 1/2	$M_1$ , $M_2$ = chemical potential of pure substances 1 and 2 n <sub>1</sub> , n <sub>2</sub> = concentration of substances 1 and 2, given in mol. The values for the individual thermodynamic functions in the system Zn-Cd at temperatures of 538°, 600°, 700° and 800°K

Thermodynamic	Functions in Binary Systems	78-3-4-19/38
	were determined. Furthermore the values for the free energy and mixtures in the system Zn-Cd were det connection between these function as well at 538°, 600°, 700° and 800°K were graphi By using thermodynamic functions also the and Zn-Pb were investigated. There are 5 figures and 10 references, 6	ermined and the as the composition cally represented. systems Ag-Cu, Cu-Ni
ASSOCIATION:	Institut tekhniki Pol'skoy Akademii nauk, (Technical Institute, Department of Meta	
SUBMITTED:	June 25, 1957	
Card 2/2		



APPROVED FOR RELEASE: 08/22/2000

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## BLOCK-BOLTEN, A.

Calculation of quaternary reciprocal ionic systems by means of A. Krupkowski's equations. Archiw hutn 7 no.3:243-249 '62.

APPROVED FOR RELEASE: 08/22/2000



APPROVED FOR RELEASE: 08/22/2000

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P/038/61/006/004/001/003 E040/E935

Block-Bolten. Andrzej AUTHOR: Equilibrium between the liquid and solid phases in TITLE: quaternary ionic solutions Archiwum hutnictwa, v.6, no.4, 1961, 287-307 PERIODICAL: In molten salt electrolytes and slags, which are typical ionic solutions, the problem of the dependence of anion exchange equilibrium on the cationic medium requires further TEXT: elucidation. The purpose of the present extensive series of investigations was to examine molten salt electrolytes and industrial slag systems of typical ionic solutions of a great significance in many metallurgical processes. The thermodynamics aspects of the study are of interest in other fields, e.g. atomic reactor operation. A review of the few previous investigations of mainly ternary molten electrolyte systems is followed by a detailed description of the apparatus used, which was designed by the author at the Silikatforsknig in Trondheim, Norway, where the experimental part of the work was carried out. Derivation is also made of the thermodynamic expressions (entropy and enthalpy) Card 1/4

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Equilibrium between the ...

P/038/61/006/004/001/003 E040/E935

which served as a basis for evaluation of 20 quasi-binary ionic solutions involving  $Ca^{++}$ ,  $Cl^-$ ,  $Li^+$ ,  $Br^-$ ,  $K^+$  and  $Mg^{++}$  ions in equilibrium with HCl/HBr gaseous medium. Experimental data are fully reported. It was found that the reaction equilibrium shifts in the sense that larger cations (e.g.  $K^+$ ) are preferentially surrounded by  $Br^-$  atoms and stronger cations lose this preferential tendency for  $Br^-$  and attract  $Cl^-$ . In quasi-binary systems of the type: (A, B)Cl-(A, B)Br, the favoured groupings are A-Cl-A and B-Br-B, where A is a strong cation and B a weak one. Also favoured are the Cl-A-Cl and Br-B-Br groupings. The probability of the formation of A-Cl-B and A-Br-B and Cl-A-Br groupings diminishes the more, the greater the gaseous phase differs from the anionic composition of the liquid phase. The endothermic effect of mixing confirms the above conclusions. The above phenomena of favoured group formation are associated with an increase in the reaction entropy on approaching strong cationic media. This entropy increase is associated with a simultaneous occurrence of polarisation which tends to lower the melt energy and evolve heat. Therefore, the stronger the cationic medium, the greater is the Card 2/4.

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Equilibrium between the ...

P/038/61/006/004/001/003 E040/E935

effect of polarisation on the total heat evolution. It was found that the entropy of exchange reactions rises with decreasing value of  $\sum \frac{e_1}{r_4}$ 

(where e<sub>i</sub> is the charge and r, the radius of cation i) in the following order: K<sup>+</sup>, Na<sup>+</sup>, Li<sup>+</sup>, Ca<sup>++</sup>, Mg<sup>++</sup>. The thermal effect decreases from K<sup>+</sup>, Na<sup>+</sup> to Li<sup>+</sup> and increases from Li<sup>+</sup> to Ca<sup>++</sup> and Mg<sup>++</sup>. The interpretation of the thermodynamics of reciprocal quaternary systems is simplified by generalisation to the case of irregular solutions, using as a basis the results of Wasastjerna and Hovi. The results of the present investigation are regarded as an introduction to a systematic presentation of the thermodynamics of slags and molten electrolyte systems as a function of the elementary properties of cationic media. There are 9 figures, 3 tables and 13 references: 3 Soviet-bloc and 10 non-Soviet-bloc. The English-language references read as follows: Ref.4: Förland T., On the properties of some mixtures of fused salts, Norges Tekniske

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Equilibrium be	tween the	P/038/6 E040/E9	1/006/004/00	01/003	
DUTDATOW D'0'	d, Series 2, No.4, J. Amer. Chem. So otheim K., J. Iron	1957; Ref.5	Hildebrand	Q.,	2
ASSOCIATION:	Instytut podstawo metali, Araków Institute of Fun Polish AS, Depart	wych problem damental Prot	Sw techniki blems of Eng	pun, Zakla	đ
SUBMITTED:	May 18, 1961				· ·
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Card 4/4

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GORDON, Louis, prof.; BLOCK, Jacob; HABERMAN, Norton; SALESIN, Eugene D.

Precipitation processes and precipitation from homogeneous solution. Acta chimica Hung 33 no.3:299-308 '62.

1. Department of Chemistry, Case Institute of Technology, Cleveland 6, Ohio, USA.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000205520018-8



### CIA-RDP86-00513R000205520018-8

S/262/62/000/012/012/013 1007/1207

	AUTHOR:	Blocki, R. W.					
	TITLE:	On the rotary engine of the Różycka design					
	PERIODICAL:	Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki. 12, 1962, 93. abstract 42.12.626. "Techn. motoryz.", vol. 10, no. 6, 196–197 [Polish]					
	TEXT: No abst	ract given.					
	[Abstracter's note	: Translation of Russian title.]					
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-	Card 1/1						

يفقر المتعاد بالمادية

BLOCKI, W.

Determination of the optimum working pressure in aeronautic hydraulic systems. p. 46.

TECHNIKA LOTNICZA. (Zwiezek Polskich Inzynierow i Technikow Lotniczych) Warszawa, Poland. Vol. 14, No. 2, Mar./Apr. 1959.

Monthly List of East European accession (EEAI), LC. Vol. 8, No. 9 September, 1959. Uncl.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000205520018-8



MOYS, A.; SCHWARTZ, E.; BLOCKINGER, G.

On the possibility of using 2-mercaptobenzthiazole and its derivatives in the treatment of cutaneous tuberculosis (experimental study). Bratisl. lek. listy 43 Pt. 2 no.6:325-332 163.

1. Krajska nemocnica tuberkulozy a chorob plucnych v Pod. Biskupiciach, riaditel MUDr. K. Virsik Katedra organickej chemie a biochemie Prirodovedeckej fakulty University Komenskeho v Bratislave, veduci prof. inz. M. Furdik.

(TUBERCULOSIS, CUTANEOUS) (ANTITUHERCULAR AGENTS) (SULFHYDRYL COMPOUNDS) (THIAZOLES) (MICOBACTERIUM TUBERCULOSIS) (LUPUS) (ECZEMA) (VARICOSE ULCER)

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	56	
	Card : 1/3	
- -	and 500 cc of water (600), to which 5-7 cc of 25% NH, were added. The mixture is then subjected to distillation. At	j.
	If nelt is dissolved in 150 cc of 96% alcohol, the solution is then filtered. followed by the addition of 60 cc of C6H6	
•	and crystallization, employing common methods, yields yel-	
•	nong/linical crystalline structure. A technical product ("kommaks") (II) even after a most thorough purification	
d 1	Abstract : Pure 2-nercaptobenzothiazole (I) is a colorless compound of	بر ایر ایر
	Orig Pub : Chen. zvesti, 1957, 11, No 8, 489-493	
	Inst : - Title : The Derivation of Chemically Pure Crystalline 2-Mercapto- benzothiazole (MBT) from a Technical Product ("Kampaks")	
	Author : Blockinger G.	
ting San Dari Ting	Abs Jour : Ref Zhur - Khin., No 24, 1958, No 82565	
<b>1</b>	CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their H-15 Application. Industrial Organic Symthesis	

#### CIA-RDP86-00513R000205520018-8

H-17

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Industrial Organic Synthesis

Abs Jour : Ref Zhur - Khill, No 24, 1958, No 82565

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650 the C666 - C2H50H-H20 azeotrope is taken overhead. Tars are then separated from the solution and the latter is subjected to distillation at 98° for the removal of C2H50H. NH3 is added in order to retain I in the solution. The solution is then cooled, 2% H2SOL is added in order to complete the precipitation of I, filtered, followed by drying of the obtained I at 60°. Under the semi-commercial or connerical conditions, the quantity of C2H50H may be reduced by 20-30 cc (for 10 gr of II) at the expense of I quality. To 10 gr of purified I are added 250 cc of 96% CoH50H, and denaturated C6H6 (sic), followed by filtration, addition of 50 cc C6H6 and 1000 cc of warn water (60°). This mixture is refluxed for 10-15 minutes to aid the separation of layers. The lower layer, that contains all of I, is drawn away and is reserved for crystallization. The colorless crystals formed are filtered out and dried at 600. It is recommended to use for every 1 gr of II the following: : 2/3

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CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their H-15 Application. Industrial Organic Synthesis

> END 57

Abs Jour : Ref Zhur - Khim., No 24, 1958, No 82565

10 cc of C<sub>6</sub>H<sub>6</sub>, 100 cc of C<sub>2</sub>H<sub>5</sub>-OH, and 300 cc of H<sub>2</sub>O. For the removal of small quantities of tars, to the alcohol layer, containing I, is added sufficient quantity of 10% NaOH until pH reaches value of 10. Tars precipitate out and settle to the botton. The colorless solution is then acidified with 2% H<sub>2</sub>SO<sub>4</sub> up to pH of 6, and during this latter setp white anorphous precipitate of I forms. Analogical results are obtained when employing dilute NH<sub>3</sub> solutions. The use of Ca(OH)<sub>2</sub> does not offer possibility to precipitate all of I and to obtain a pure product. -- Z. Rachinskiy

Card : 3/3

APPROVED FOR RELEASE: 08/22/2000

## MOYS, A.; BLOCKINGER, G.; SCHWARTZ.E.

Chemical and microbiological properties of 2-mercaptobenzthiazole for clinical evaluation in the treatment of skin tuberculosis and some infectious dermatoses. Cesk. derm. 39 no.42269-274 Jl<sup>6</sup>4

1. Krajska nemocnica tuberkulozy a chorob plucnych v Podunajskych Biskupiciach (riaditel: dr. K.Virsik) a Laboratorium chemie prirodovedeckej fakulty UK [University Komenskeho] v Bratislave (veduci: prof. inz. M.Furdik).

APPROVED FOR RELEASE: 08/22/2000

BLOGOJEVIC, Bosidar, inz.

Reclaimed land along the Danube River from the Iron Gate to Belgrade, and state of the backwater made by the power plant in the Iron Gate. Saop Inst vodopr Cerni no.12:27-34 '58.

1. Sef Odeljenja za vodoprivredne studije.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000205520018-8

BLOK, A., polkovnik

Let us furnish flights according to schedule. Tyl.i snab.Sov. Voor.Sil 21 no.5:84-87 My '61. (MIRA (Airplanes, Military-Maintenance and repair) (MIRA 14:8)





Aerodynamic and Heat Transfer (Cont.) 1053

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layer of crushed material. The articles in the first part present the fundamental principles for calculating the atomization process in injectors. Also, new data on the combustion of droplets of heavy liquid fuel are given which make it necessary to reconsider the accepted concept that vaporization of a liquid fuel always precedes its combustion. The reports of the second part throw light on the problem of the motion of a dusty air stream characteristic of cyclonic furnaces. This problem is extremely important in the design of such furnaces. The second part of the collection presents data necessary for the calculation of the emission of fly ash whereby it is shown that this emission is of great significance. 'In addition, the character of furnace temperature fields is analyzed. The articles of the third part present the fundamental laws of gas flow through a layer of fuel and give the theoretical principles necessary for calculating the aerodynamic resistance of the layer and the speed of drying in it. The data given in the collection accurately define current ideas regarding the characteristics of development of a number of phenomena which form the

Card 2/7

Aerodynamic and Heat Transfer (Cont.) 1053

heating process. Knowledge of these data will permit refining the calculation methods used in heating technology. The first part contains 2 Soviet references; the second part contains 8 Soviet, 3 English, and 1 German reference; and the third part contains 49 Soviet, 12 English, 7 German, 1 French, and 2 Japanese references.

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Vitman, L.A. Some Principles Regarding the Atomization of a Liquid by Pneumatic Injectors

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APPROVED FOR RELEASE: 08/22/2000

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34

Aerodynamic and Heat Transfer (Cont.) 1053 Blokh, A.G., Kichkina, Ye.S. Atomization of a Liquid Fuel by 48 Mechanical Centrifugal-type Injectors , **i** Paleyev, I.I., Agafonova, F.A. Investigation of the Combustion 57 of Droplets of a Liquid Fuel 80 References SECOND PART. INVESTIGATION OF THE AERODYNAMICS AND HEAT TRANS-FER IN MATTER IN' SUSPENSION' 14.1 Vulis, L.A. Turbulent Transfer of Heat and Matter in a Jet Flow 81 of a Gas · Ivanov, Yu.V., Katsnel'son, B.D., Pavlov, V.A. Aerodynamics of 100 the Vortex Chamber Lyakhovskiy, D.N. Investigation of the Aerodynamics of the Cyclo-114 1 nic Chamber Card 4/7

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and the second second

AUTHOR:	Blok, A. G.	SOV/c <b>138-</b> 58-4-9/13
TITLE:		ber Mixtures (Novyye materialy h).
PERIODICAL:	Kauchuk i Rezina, 19	58, Nr.4. pp. 32 - 33. (USSR).
ABSTRACT:	Recently, the labora vestigated and prepa acetylene black, pla Vulkatsit-R-extra-N as active filler; it resistance of rubber resistance and impar The properties of ac its high degree of d particles = 40 - 45	tories of the firm "Kauchuk" in- red new types of materials: sticiser VSF-1, the resin AB, etc. (1) <u>Acetylene Black</u> is used increases considerably the break mixtures, increases their wear ts valuable moulding properties. etylene black can be explained by ispersity (the diameter of the Am) and its high fatty number (2.0
Card 1/3	conveyor belts. Ten taining 50% SKS-30 r creased from 50 - 60 sition of the mixtur SKS-30 rubber, 60 pa other additives, is using Renatsit No.4.	lack is used in rubber for coating sile strength of mixtures con- ubber and acetylene black is in- to 100 - 130 kg/cm <sup>2</sup> . The compo- e 6023-6, containing 100 parts of rts of acetylene black and various given. (2) <u>Renatsit</u> . NIIRP is Renatsit No.5 and Peptone-22 as ral rubber. These products shorter

New Materials in Rubber Mixtures.

#### SOV/138-58-4-9/13

the time required for plasticising natural rubber in a mixer from 10 - 12 minutes (when Captax is used as plasticiser) to 8 - 9 minutes (when Renatsit No.4 is used as plasticiser). Renatsit No.4 is the most effective plasticiser for natural rubber; it is non-toxic. Best results are obtained when 0.3 parts of Renatsit are used to 100 parts of natural rubber: Renatsit No.5 (pentachlorthiophenol) and also peptone-22 (0'=0'dibenzamidodiphenyl disulphide) are not as effective as Renatsit No.4. (3) <u>Plasticiser VSF-1</u> is a neutral ester of higher alcohols with orthophthalic acid. This plasticiser, and the anti-freeze VSF-1, are used in industry instead of dibutylphthalate. VSF-1 is similar to dibutylphthalate and imparts to mixtures, based on SKN and "Nairit", better frost-resistance than dibutylphthalate. The physical-mechanical characteristics of mixtures containing VSF-1, and resistance to heat ageing at 100°C (carried out for 2 - 6 days) were the same as when dibutylphthalate was used. The plasticiser VSF-1 is manufactured by the Kuskovo Chemical Factory, according to VTU KKhZ No.19 - 57. The composition of the mixture

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APPROVED FOR RELEASE: 08/22/2000

New Materials in Rubber Mixtures.

### . SOV/138-58-4-9/13

4930-29 and of the mixture 4908-2 containing the plasticiser VSF-1 is given. (4) The resin AB is recommended inciser VSF-1 is given.(4) The resin AB is recommended in-stead of dibutylphthalate in mixtures not requiring improved frost resistance. It is prepared by rectification of alkyl benzenes, and is a viscous black liquid. The composition of mixtures 6040 and 4633-11 is given. The resin AB is manufactured by the Groznyy Chemical Factory (Groznenskiy khimicheskiy zavod), according to the Stan-dard LU-84-56. (5) <u>Vulkatsit-Reextra-N</u> (the zinc salt of ethylphenyl dithiccarbamic acid). This vulcanisation accelerator is a greyish powder with a melting point of 2030-204°C and specific gravity of 1.43-1.44. When 0.1% of Vulkatsit-R-extra-N is added to natural or nitrile rubber (in mixtures 2462 and 4004) the time of vulcanisation is shortened from 20 -25 minutes to 8-10 minutes at 150°C. The composition of mixture 5-2462-5 and mixture 5-4004-12 is given. Optimal results are obtained when 0.1 - 0.3% cf Vulkatsit-R-extra-N is added to natural or SKN rubber.

ASSOCIATION: Moscow Plant "Kauchuk" (Moskovskiy zavod "Kauchuk") 1. Rubber compounds--Materials 2. Rubber compounds--Properties Card 3/3

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## CIA-RDP86-00513R000205520018-8

S/032/60/026/011/032/035 B015/B066

 AUTHOR:	Blok. A. G., Head
TITLE:	At the Central Laboratory of the Moskovskiy zavod "Kauchuk" (Moscow Plant "Caoutchouc")
PERIODICAL:	Zavodskaya laboratoriya, 1960, Vol. 26, No. 11, pp. 1317-1318
and laborator materials are designed and Voronezhskiy polymer, the (30% styrene instead of the to use hed	thor reports on the innovations recently made at the plant ry mentioned in the title. New Soviet polymers and raw a now produced on an industrial scale, new devices were methods of analysis developed. In cooperation with the zavod SK (Voronezh Plant of Synthetic Rubber) a regulated CKC-30-APM-15 (SKS-30-ARM-15)Pdivinyl styrene rubber 15 and 15% lubricating oil for automobiles) was introduced the CKC-30 (SKS-30) styrene rubber hitherto used which, prior to be plasticized by means of thermal oxidation. This new intended for the manufacture of rubber goods and has better
Card 1/3	

APPROVED FOR RELEASE: 08/22/2000

At the Central Laboratory of the Moskovskiy zaved "Kauchuk" (Moscow Plant "Caoutchoue")

# S/032/60/026/011/032/035 B015/B066

properties than SKS-30, e.g. a hardness of only 400 - 700 g instead of 3000 - 4000 g. Investigations in the laboratory of the plant "Cacutchouc" with different indene-coumarone resins, produced in the plants in Kemerovo and Yenakiyevo, disclosed the good properties of rubber mixtures with 5 to 20 wt% of resin, especially in mixtures on "Nairit" basis already in the first half of 1959. The addition of indene-coumarone resin increases the resistance to benzine and permits an acceleration in calendering. From among the new test methods one is of special importance, i.e., the determination of the degree of relaxation of rubber which is performed on an axial-pressure relaxometer. The method was devised in cooperation with the fiziko-khimicheskaya laboratoriya Nauchnoissledovatel'skogo instituta rezincvoy promyshlennosti (Physicochemical Laboratory of the Institute of Rubber Industry). Together with the khimicheskaya laboratoriya and laboratoriya fiziko-mekhanicheskikh ispytaniy Nauchno-issledovatel'skogo instituta rezincvykh i lateksnykh izdeliy (Chemical Laboratory and Laboratory for Physical and Mechanical Testing of the Scientific Research Institute of Rubber and Later Goods) the germination of spongy mixtures was determined and a rapid method was

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At the Central Laboratory of the Moskovskiy zavod "Kauchuk" (Moscow Plant "Caoutchouc")

S/032/60/026/011/032/035 B015/B066

devised for the determination of the total sulfur. The data for the relaxation coefficient of the rubber types 4326-1, 4327, 129-1, and HO - 68-1 (NO-68-1) which are applied for rubber tubes (under a pressure of 400-600 atm) were thus determined. New types of sponge rubber were developed with low specific gravity (0.30-0.35) and better properties. Sulfur is used for the vulcanization of rubber mixtures on the basis HK(NK), CKH(SKN), CKMC-10 (SKMS-10) and SKS-30-ARM-15. The cooperation with the institutes mentioned above led to the introduction of new plasticizers. Further work will deal with the preparation and introduction of new rubber types, new plasticizing accelerators for natural caoutchouc, inexpensive white fillers, the study of shrinkage in vulcanization, quality improvement of automobile parts of conveyer belts etc.

ASSOCIATION: TsZL Moskovskogo zavoda "Kauchuk" (Central Laboratory of the Moscow Plant "Caoutchouc")

Card 3/3

APPROVED FOR RELEASE: 08/22/2000

	<u>L 135/12-63</u> EWP(J)/EWT(m)/BDS AFFTC/ASD <u>Pc-L</u> EM ACCESSION NR: AP3003293 S/0138/63/000/006/0049/0050 64
	AUTHOR: Blok, A. G.
	TITLE: Active carbon black <u>FM-70 in the compounds of the "Kauchuk"</u> rubber plant
	SOURCE: Kauchuk 1 rezina, no. 6, 1963, 49-50
	TOPIC TAGS: active furnace black, belt lining, sealing ring, butadienemethyl- styrene rubber
	ABSTRACT: At the "Kauchuk" rubber plant formulas were developed which contained
	active furnace carbon black PM-70 (manufactured by the <u>Omsk carbon black plant</u> ) to be used for conveyer belt coatings and hydraulic sealing rings. For the
	former, 30 parts by weight of carbon black were used per 100 parts of
	butadienemethylstyrene rubber, Writh the addition of some alkylphenol resin as softener. The use of carbon black PM-70 permitted a 15-200 lower mixing temperation
	ture and resulted in 10 to 12% less mixing time. Physico-mechanical tests of
9	the compounds vulcanized for 30 minutes at 143C revealed them to be close in strength to the conveyer belt coatings containing channel carbon black, but
	showing superiority in resistance to abrasion. In the application to hydraulic
	sealing ring compounds, vulcanized rubber with PM-70 carbon black proved superior
stri gi	Card 1/2

fewer rejections. <u>N. M.</u> <u>T. N. Nadeyeva</u> participat PM-70. Orig. art. has:	e to that containing lamp black, re <u>Ostrovskaya</u> , T <u>. P. Belyaeva</u> , B <u>. K.</u> ed in the work dealing with the stu 2 tables. muk" ("Kauchuk" Rubber Plant)	Mikhal'skaya, and
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SUB CODE: 00	NO REF SOV: OOO	OTHER: 000
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BLOK, A.G.

12112

Activated carbon PM-70 in the rubber compounds of the "Kauchuk" Factory. Kauch. i rez. 22 no.6:49-50 Je '63. (MIRA 16:7)

1. Zavod "Kauchuk". (Carbon, Activated) (Rubber industry)

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BLOF, G.

Blok, G. - "The father of scientific geology", (M.V.Lomonosov), Ogenek, 1949, No. 7, p. 20-21, with portrait.

SD: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

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BLOK, G.

Blok, G. "Scientist, Patriot, Bolshevik. On the 10th anniversary of the death of Academician I. M. Gubkin (Petroleum geologist)", Ogonek, 1949, No. 15, p. 21-22, with portrait.

So: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

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CIA-RDP86-00513R000205520018-8

BLOK, G.

Chernyshev, Feodosii Nikolaevich, 1956-1914

Russian geologist Vokrug Sveta no. 5: 48-52 May 1952

APPROVED FOR RELEASE: 08/22/2000

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		BLOK, G.		, <u>,</u> , , , , , , , , , , , , , , , , ,				•	
		Mushketov	, Ivan Vasi	l'evich, 1850	0-1902				
	·····	Explorer,	geologist,	teacher. Zr	uan. sila n	10. 4, 1952.			
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	9. Ma	nthlu Ita	• • • • • •					2	
	7. <u>M</u>	Juchty L15	<u>L OI KUSSIA</u>	n <u>Accessions</u>	, Library of	Congress,	August	1955. Uncl	assified.





APPROVED FOR RELEASE: 08/22/2000

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APPROVED FOR RELEASE: 08/22/2000

K, GEORGI SUBJECT:	USSR/Industrial Diamond	4-4-6/22
 AUTHOR:	Blok, Georgiy	
TITLE:	"The Unconquerable" Serves Man ("Nepobedimyy" sluzhi	cheloveku)
PERIODICAL:	Znaniye - Sila, April 1957, #4, pp 15-16 (USSR).	
ABSTRACT:	The article relates the history of the diamond, poind difference between the precious diamond and the one industrial purposes and describes the great role diamond in industrial production. The United States, where	used for monds play
	diamonds found in Africa go to, consider that their potential would shrink into half if they were to for of diamonds.	industrial
ASSOCIATION: PRESENTED BY	diamonds found in Africa go to, consider that their potential would shrink into half if they were to for of diamonds.	industrial
	diamonds found in Africa go to, consider that their potential would shrink into half if they were to for of diamonds.	industrial
PRESENTED BY SUBMITTED:	diamonds found in Africa go to, consider that their potential would shrink into half if they were to for of diamonds.	industrial



APPROVED FOR RELEASE: 08/22/2000

BLOK, Georgiy Optics in the service of health. Zdorov'e 5 no.4:18-20 '59. (MIRA 12:4) (KNDOSCOPY) (SURGICAL INSTRUMENTS AND APPARATUS)

#### CIA-RDP86-00513R000205520018-8

20905 s/004/60/000/011/004/005 A114/A126

1153, 1145, 1155

Blok, Georgiy

AUTHOR:

TITLE:

Transformed brittleness

15,2000

Znaniye-sila, no. 11, 1960, 22-25 The article deals with Professor Isaak Il'yich Kitaygorodskiy, PERIODICAL: a glass specialist, and his scientific oreative work. Figure 1 shows a photograph of him. Glass is usually brittle; but when it is very thin like a film it is pliable and highly transparent. The glass film is a substitute for mica, which is still widely used in radioelectronics and electrotechnical engineering. As there is a shortage of mica at a demand still growing a substitute had to be found. A glass film of about 2 -  $3\mu$  showed good results as such. Its resistance to sparkover increases with progressive thinness. Moreover, the glass film possesses some advantages over mica: it is homogeneous and can be fitted with different electric properties; it does not suffer damage at sudden temperature drops; it has a uniform thinness and is produced in strips with a width of a few centimeters to 50 cm. A machine for continuous production of glass film was developed; the raw material is melted

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20905

# Transformed brittleness

#### S/004/60/000/011/004/005 A114/A126

at some 900°C and comes out through a slot as a viscous mass. It is vertically stretched, cooled and rolled up on a drum. In the Kafedra stekla (Glass Department) of the Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva (Moscow Chemical-Technological Institute im. D. I. Mendeleyev), headed by Professor Kitaygorodskiy, a number of new materials and terms can be found: glass film, foamglass, foamceralith or foamclay, foamsil or foamed quartz, corundum microlith, glasscrystal, all developed by the above named professor, who is the holder of a long list of Soviet patents, granted by the Komitet po delam izobreteniy (Committee for Invention Affairs). He was also a co-editor of the book "Tekhnologiya stekla" (The Glass Technology), a publication which was recently translated into German. The foamceralith is a new material similar to the foamed glass, foamed concrete, foamed latex and foamed plastic. The basic material for the production of foamceralith is common clay which is found in the vicinity of Moscow. Organic fossils are used as gas-forming admixture to the prepared clay. The very light (90% air) tiles are of large size; the color is greyish-black. The foamceralith tiles can also be made of vulcanic ashes, nepheline and other wide-spread rocks. The weight of 1 m3 of foamceralith is 250 - 400 kg. The new material is well

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suitable for construction engineering. It is planned to erect a number of plants producing foamceralith in the Soviet Union. The elder material, foamed glass, the original invention of the above named scientist, is made of beaten glass. A synthetic material, extraordinarily hard, was also developed; it is called borazon and is a special compound of boron and nitrogen. However, its production is complex, expensive and difficult. The production of another newly invented material of quite the same nature was taken up: it is the so-called corundum-microlith, an invention of professor Kitaygorodskiy. It surpasses all hard alloys, agate, sapphire, even ruby, and is produced in little pieces; three sides standing at right angle to each other, the fourth plane being inclined (size about 2 x 1 x 1/2 cm). The surface is ideally smooth. Cutting tools for high-speed machining made of this synthetic material have shown successful results. The sudden rise of temperature does not affect the cutting tool. The basic material of this corundum-microlith is also ordinary clay, or better, aluminum oxide. The author points out that a cube of this material with an edge-length of 1 cm withstands a pressure of a cube is units material with an eugeriengen of , on withstands a pressure of 10 tons and a temperature of 1000°C. It is produced in millions of pieces, being very popular in the Soviet Union and is also exported to other People's Corundum-microlith is also used for: ball bearings, drawing dies Republics.

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(for metal wires and hemp ropes), and spinnerets silk and chemical threads of caprone-, nitron- an guides, because this material has a very high dur	(for viscose and synthetic d enanth-type) and thread ability. There are 7 fig-
ures.	
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BLOK, Georgiy Ernestovich; ANTONYUK, L., red.; KOVALEV, A., tekhn. red. [Trails of science; journey to our near future] Puti nauki; sovsem riadom a griadushchim. Moskva, Izd-vo TSK VLKSM "Molodaia gvardiia," 1961. 302 p. (Science) (Technology)

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