"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ACCESSION NR: AT4002169

formulas, 4 figures and 1 table.

ASSOCIATION: IKhF AN SSSR

SUBMITTED: 00 DATE ACQ: 10Dec63 ENCL: 01

SUB CODE: WA NO REF SOV: 005 OTHER: 006

Card 3/4

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ACCESSION NR: AR002169

ENCLOSURE: 01

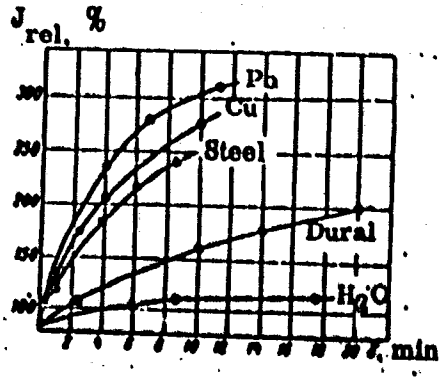

Fig. 1. Dependence of the relative impulse J_{rel} of TNT with a density of 1.63 g/c on the casing thickness δ for various casing materials.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APIN, A.Ya. (Moskva); VOSKOBOYNIKOV, I.M. (Moskva); SOSNOVA, G.S. (Moskva)

Course of the reaction in a detonation wave of mixed explosives. PMTF no.5: 115-117 S-O '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

YAKOVLEVA, G. S.; APIN, A. Ya.; KURBANGALINA, R. Kh.; STESIK, L. N.

Detonation velocity of liquid hydronitric acid. Dokl. AN SSSR 156 no. 1:152-153 My '64. (MIRA 17:5)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V. N. Kondrat'yevym.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

PEPEKIN, V.I.; DYMOVA, T.N.; LEBEDEV, Yu.A.; APIN, A.Ya.

Heat of formation of magnesium hydride. Zhur. fiz. khim. 38 no.4:1024-1026 Ap '64. (MIRA 17:6)

1. Akademiya nauk SSSR, Institut khimicheskoy fiziki.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ASSOCIATION: Institut khimicheskoy [illegible]

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ACCESSION NR: AP4035820 S/0020/64/156/001/0152/0153

AUTHOR: Yakovleva, G. S.; Apin, A. Ya.; Kurbangalina, R. Kh.; Stesik, L. N.

TITLE: The rate of detonation of liquid hydrazoic acid

SOURCE: AN SSSR. Doklady*, v. 156, no. 1, 1964, 152-153

TOPIC TAGS: hydrazoic acid, explosive, detonation, detonation rate, liquid hydrazoic acid

ABSTRACT: HN_3 is not used in practice as an explosive, nevertheless, it is of interest to determine its detonation characteristics in the liquid state. Measurement of the detonation characteristics are frequently used in the studies of the equation of the state of gases at high pressures (hundreds of thousands of atmospheres) and at high temperatures (several thousand degrees). In treating experimental data one is involved with multicomponent systems, since the majority of explosives consist of at least four types of atoms. Consequently, the explosion products contain several types of molecules. In this respect HN_3 differs favorably from other explosives because one might expect that products of detonation of liquid HN_3 will consist primarily of molecular nitrogen and hydrogen. The rates

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ACCESSION NR: AP4035820

of detonation were recorded by the optical method. The results of these measurements are as follows:

concentration of HN_3, wt %	diameter of charge, mm	rate of detonation m/sec	No. of experiments
100	3-10	7537-14	10
90	7.4	7440-25	2
80	11	7060-11	5

Orig. art. has: 1 table on 1 figure.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences SSSR)

SUBMITTED: 30Dec63 ENCL: 00

SUB CODE: FP NO REF SOV: 002 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

L 2111-66 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) RPL WW/JW/JWD/RM
ACCESSION NR: AP5026032 UR/0405/65/000/001/C109/0111

AUTHOR: Parfenov, A. K. (Moscow); Apin, A. Ya. (Moscow)

TITLE: Low-velocity detonation in powdered explosives

35
B

SOURCE: Nauchno-tekhnicheskiye problemy goreniya i vzryva, no. 1, 1965, 109-111

TOPIC TAGS: explosive, detonation theory, weak detonator, strong detonator, detonation velocity, detonation

ABSTRACT: Previous studies have shown that the detonation velocity D in liquid- and solid-explosive charges depends mainly on the power of the detonator. This dependence was studied using the high-speed photographic camera ZhFR-2. Charges (5—40 mm in diameter d and 50—480 mm long) of trotyl, tetryl, and hexogen were detonated with a weak and a strong detonator. A trotyl-NaCl (50/50) squib (d = 20 mm, density ρ = 1.0 g/cc, and D = 2000 m/sec) was used as the weak detonator; the same size squib of compacted trotyl (ρ = 1.62 g/cc, D = 6900 m/sec) was used as the strong detonator. The charge diameter dependence curves of the detonation velocity (D vs. d) show that in all cases where the charges are detonated with the weak detonator, there is a certain charge diameter range within which low-velocity detonation is stable. The low-velocity detonation increased from 1200 to 1800—2200 m/sec as the charge diameter increased. In the case of tetryl, the

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L 2111-66

ACCESSION NR: AP5026032

velocity also depends on the size of its particles. The upper limit of which low-velocity detonation is stable varies with the explosive (~30 mm for trotyl, ~17 mm for hexogen, and ~20 mm for tetryl with a particle size of 1.0—1.6 mm). The low-velocity detonation regime which is developed in tetryl and hexogen charges changes suddenly to a normal velocity regime after a distance of about 2—4 d of the charge. In trotyl charges, the low-velocity detonation changes slowly to a normal regime. In the explosive charges detonated with the strong detonator, a stable normal velocity detonation regime is established at a short distance from the initiation point and in the case of trotyl and hexogen, the detonation propagates with an approximately constant velocity over the d range studied. In the case of tetryl, a stable detonation was observed only in charges of a certain diameter. Thus, in trotyl and hexogen charges, depending on the detonator used, stable low-velocity or normal-velocity detonation regimes are established in a certain range of diameters; and, in the case of tetryl, a stable detonation regime is established only in charges of a certain diameter regardless of the detonator used. To explain the low-velocity detonation initiated by a weak detonator, it is suggested that the amount of heat liberated during initiation by a weak detonator is not sufficient to maintain the combustion inside the charge particles and so the combustion propagates on their surface. Orig. art. has: 3 figures and 1 formula.

[PS]

Card 2/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

L 2111-66

ACCESSION NR: AP5026032

ASSOCIATION: none

SUBMITTED: 02Nov64

ENCL: 00

SUB CODE: MA

NO REF SOV: 003

OTHER: 003

ATD PRESS: 4113

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

EWT(m)/EWP(j)/EWA(h)/EWT(1)/EWT(m)/T/EWA(d)/E... RM/WW/JW/WE

ACC NR: AP6011660 SOURCE CODE: UR/0020/66/167/003/0610/0612

AUTHOR: Voskoboynikov, I. M.; Bogomolov, V. M.; Margolin, A. D.; Apin, A. Ya.

ORG: Institute of Chemical Physics, Academy of Sciences SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Determination of decomposition times of explosives in a shock wave

SOURCE: AN SSSR. Doklady, v. 167, no. 3, 1966, 610-612

TOPIC TAGS: explosive, explosion, shock wave, kinetics

ABSTRACT: The purpose of this work was the measurement of the decomposition time of liquid nitromethane, liquid tetranitromethane, and monocrystalline hexogen [RDX] under the influence of a flat shock wave, using the experimental arrangement shown in Figure 1:

Card 1/4 UDC: 534.222.2+541.427.6

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ACC NR: AP6011660

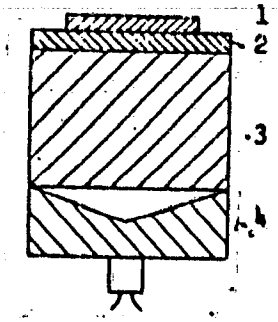

Fig. 1. Experimental arrangement

1 - The explosive investigated; 2 - metallic plate; 3 - active charge; 4 - lens for orthogonalization of the wave front.

The occurrence of the reaction initiated by passage of the shock wave is accompanied by explosion; the flash is registered photographically. When no flash is observed, it is assumed that the reaction time is longer than the time required for passage of the shock wave and return of the rarefaction wave through the layer of the investigated substance. For each wave intensity there exists a layer thickness for which an explosion will still occur. The results of the critical thickness h_{cr} measurements are given in the table:

Card 2/4

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

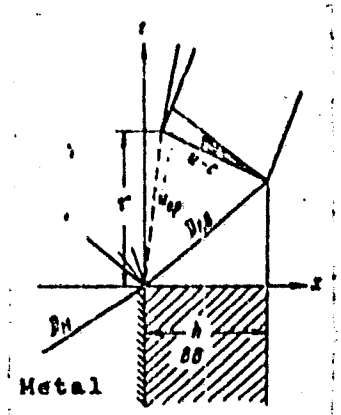
L 21033-66

ACC NR: AP6011660

P, kbar	H_{cr}, mm	τ, μsec
Monocrystalline hexogen		
170	2,98±0,5	1,00
175	2,38±0,10	0,68
180	1,86±0,10	0,47
190	1,18±0,05	0,33
105	1,1±0,05	0,30
Nitromethane		
86	7±0,5	2,54
90	4±0,5	1,42
93	3±0,5	1,05
99	2±0,5	0,67
104*	0,5±0,25	0,33*
Tetranitromethane		
108	3,5±0,5	1,24
111	1,0±0,25	0,35
116	0,5±0,25	0,20

P = 86 kbar; τ = 2.26 μsec;
P = 89 kbar; τ = 1.74 μsec
for nitromethane.

Fig. 2. Schematic representation



Card 3/4

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

L 21853-66
ACC NR: AP6011660

The decomposition time τ is calculated from

$$\tau = \frac{h_{cr}}{D}\left(\frac{D+c-u}{c}\right),$$

where D is the velocity of the shock wave; c is sonic velocity; and u is the mass flow behind the shock wave (see Fig. 2). Analysis showed that for the given accuracies of h_{cr}, and without increasing the error by more than 5%, it can be assumed that D = c, and

$$\tau = \frac{h_{cr}}{D}\left(2-\frac{u}{D}\right).$$

The decomposition of explosives is undoubtedly influenced by temperature to a greater extent than by pressure, so that future investigations should be directed at this area. Orig. art. has: 2 figures and 1 table. [VS]

SUB CODE: 19/ SUBM DATE: 29Jun65/ ORIG REF: 002/ OTH REF: 002
ATD PRESS: 4227

Card 4/4

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ACC NR: AP6015090 (A) SOURCE CODE: UR/0020/66/168/001/0104/0105

AUTHOR: Lebedev, Yu. A.; Rozantsev, E. G.; Kalashnikova, L. A.; Lebedev, V. P. Neyman, M. B.; Apin, A. Ya.

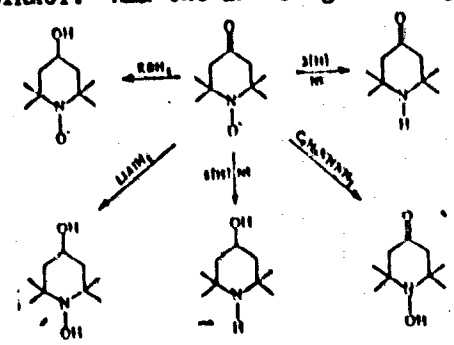
ORG: Institute of Chemical Physics, AN SSSR (Institut khimicheskoy fiziki AN SSSR)

TITLE: Thermochemical study of some free radicals and their hydrides

SOURCE: AN SSSR. Doklady, v. 168, no. 1, 1966, 104-105

TOPIC TAGS: free radical, hydride, thermochemistry

ABSTRACT: All the investigated compounds were prepared by the following scheme:



The compounds were purified in Ar atmosphere (recrystallization, chromatography, sublimation in vacuo) and then submitted to a calorimetric investigation. The thermochemical properties of the compounds are given in Table 1. The paper was presented by Academician V. N. Kondrat'yev on 6 Aug 65. Orig. art. has 1 formula and 2 tables.

UDC: 541.114.547.823

Card 1/2

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ACC NR: AP6015090

Table 1. Thermochemical properties of the compounds investigated ((kcal/mol)

Compound	m.p. °C	Q comb.	Δ- E°	Δ- H°	ΔH_{form} (solid)	ΔH_{form} (gas)
A	156,5	1397,64 ± ±0,33	1387,90 ± ±0,33	1388,98 ± ±0,33	106,52 ± ±0,33	82,52 ± ±0,45
B	71,5	1366,27 ± ±1,82	1365,67 ± ±1,82	1367,45 ± ±1,82	91,87 ± ±1,82	69,61 ± ±2,21
C	90,5	1335,76 ± ±0,1	1335,14 ± ±0,1	1336,77 ± ±0,1	90,39 ± ±0,1	71,24 ± ±1,12
D	36,6	1320,70 ± ±1,55	1320,15 ± ±1,55	1321,63 ± ±1,55	71,36 ± ±1,55	51,45 ± ±1,55
E	35,5	1345,92 ± ±0,82	1345,37 ± ±0,82	1347,20 ± ±0,82	70,00 ± ±0,82	65,37 ± ±1,47

A = 2,2,6,6- tetramethyl-1,4-dihydroxypiperidine; B = 2,2,6,6- tetramethyl-4-hydroxypiperidine-1-oxyl; C = 2,2,6,6- tetramethyl-1-hydroxy-9-oxopiperidine; D = 2,2,6,6-tetramethyl-4-oxopiperidine-1-oxyl; E = 2,2,6,6-tetramethyl-4-oxopiperidine.

SUB CODE: 07/ SUBM DATE: 30Jul65/ ORIG REF: 005

Card 2/2 mcp

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ACC NR: AP6036846 (A) SOURCE CODE: UR/0020/66/171/002/0399/0402

AUTHOR: Apin, A. Ya.; Velina, N. F.

ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Detonation of filled explosives

SOURCE: AN SSSR. Doklady, v. 171, no. 2, 1966, 399-402

TOPIC TAGS: explosive, hexogen, detonation velocity

ABSTRACT: A study of the detonation velocity and critical detonation diameter d_c of Hexogen (taken both as powder and in the water-filled form) as functions of its grain size ℓ revealed a number of important characteristics of the course of detonation. The function $d_c(\ell)$ established earlier for powdered explosives was confirmed:

$$d_c = \frac{a\ell}{1+b\ell},$$

where a and b are constants dependent on the chemical properties, powder density, grain structure and surface properties. Significant limitations of the universality of this equation are pointed out. The normal detonation velocity of a water paste of Hexogen (70% Hexogen and 30% water) as compared to pure Hexogen can be estimated from the approximate formula

 UDC: 662.215

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ACC NR: AP6036846

$$\frac{D_1}{D_2} \simeq \sqrt{\frac{\rho_1 Q_1 \overline{M}_1}{\rho_2 Q_2 \overline{M}_2}},$$

where D, ρ, Q and M are respectively the detonation velocity, density, heat of explosion and mean molecular weight of the explosion products of the explosives being compared. Factors causing the abnormally high detonation velocities observed are discussed. The data obtained are in accord with the hydrodynamic detonation theory and confirm the focus-jet mechanism of detonation, whereby the reaction products are ejected from a local focus in the direction of propagation of the shock front. The paper was presented by Academician Kondrat'yev, V. N., 19 Feb 66. Orig. art. has: 1 figure and 3 formulas.

SUB CODE: 19/ SUBM DATE: 12Feb66/ ORIG REF: 011/ OTH REF: 002

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APIN, L.R.

Experimental investigation of the accuracy in broaching cylindrical holes in steel workpieces. Trudy LPI no.191:202-220 '57. (MIRA 11:9)

(Broaching machines)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

MIKITYUK, Ye.P.; BARDASHEV, S.P.; PASECHNIKOV, N.S.; APIN, L.R.; PETROV, V.N.; DEMIDENKO, Ye.I.; MITROVICH, V.P.; FROLOV, K.V.

Author's abstracts of dissertations. Vest.mashinostr. 42 no.7:87-88 Jl '62. (MIRA 15:8)

1. Kiyevskiy politekhnicheskiy institut (for Mikityuk). 2. Moskovskiy aviatsionnyy institut imeni Sergo Ordzhonikidze (for Bardashev). 3. Leningradskiy sel'skokhozyaystvennyy institut (for Pasechnikov). 4. Moskovskiy stankoinstrumental'nyy institut (for Apin, Mitrovich). 5. Chelyabinskiy politekhnicheskiy institut (for Petrov). 6. Gor'kovskiy politekhnicheskiy institut imeni A.A.Zhdanova (for Demidenko). 7. Rizhskiy politekhnicheskiy institut (for Frolov).
(Bibliography--Mechanical engineering)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

L 20252-66 EWP(e)/EWT(m)/EWP(t)/EWP(k) JD/WB
ACC NR: AP5013250 SOURCE CODE: UR/0226/65/000/005/0039/0045

43
B

AUTHOR: Apininskaya, L. M.; Radomysel'skiy, I. D.

ORG: Institute of Problems of the Science of Materials, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Chemical nickel-plating of porous sintered parts on an iron base

SOURCE: Poroshkovaya metallurgiya, no. 5, 1965, 39-45

TOPIC TAGS: ~~iron base alloy~~, nickel plating, alkaline earth oxide, porous metal, radical polymerization, sintered metal, corrosion

ABSTRACT: It was found that nickel plating of sintered parts cannot be carried out in alkaline solutions. The best criteria were obtained on nickel plating in acid solutions (pH of medium, 5—5.2). To obtain a nickel layer 20—25 μ thick, having a stability of 7 hours and higher in 3% table salt solution, it is necessary to carry a two-stage process. To avoid corrosion of the inner surface of the part, it is necessary to impregnate with GKZh-94 and to carry out polymerization before applying a coating on the pores. The nickel plating solution is replaced by a new one every 5—6 working cycles, when it contains 50—60 g/l of phosphites. Orig. art. has: 1 figure and 4 tables. [Based on author's abstract.]

Powder metallurgy

SUB CODE: 11/3/ SUBM DATE: 05Nov64/ ORIG REF: 007/ OTH REF: 001/

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APINIS, A.

Brit Abs B1
June 1953

Building and road-making materials

5

Mol

Use of gypsum quarry wastes as a source of bonding agents. Yu. Eiduks, A. Vaivads, A. Apinis, and B. Holman (*Kim. Inst. Zinatniskie Raksts. Riga*, 1950, 1: 5—33).—The wastes contain 46—65% of $CaSO_4.2H_2O$, 15—33% of dolomite, and 12—20% of clay; when heated to 170° they yield a second-grade plaster of Paris, and a product resembling anhydrite cement is obtained with optimum mechanical properties by calcination at 750—850° with 1% of $NaHSO_4$ + 5% of CaO + 15% of open hearth slag: it contains $CaSO_4$ with small quantities of $CaO.Al_2O_3 + 2CaO.SiO_2$.

R. C. Murray

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

L 23588-66 EWP(e)/EWT(m)/T/EWP(t) IJP(c) JD/WB

ACC NR: AP6012767 SOURCE CODE: UR/0226/66/000/004/0007/0010

AUTHOR: Apininskaya, I. M.; Radomysel'skiy, I. D.

ORG: Institute of Problems of Materials Science, AN UkrSSR (Institut problem materialovedeniya AN USSR)

TITLE: Phosphating of sintered parts with preliminary preparation

SOURCE: Poroshkovaya metallurgiya, no. 4, 1966, 7-10

TOPIC TAGS: phosphating, corrosion resistance, sintering, porosity

ABSTRACT: A procedure is described for phosphating porous, sintered, structural, iron-base parts. A detailed analysis is presented of the effect of the processing conditions (time in phosphating solution and temperature) on the quality of the phosphate film. The corrosion resistance of the phosphate film is investigated, depending on the form of preliminary preparation: processing with steam or impregnation with GKZh-94. Recommendations are given for protection against internal and external corrosion of sintered structural parts with 10 to 30% porosity by means of phosphate films. Orig. art. has: 3 tables. [Based on author's abstract] [AM]

SUB CODE: 11, 13/ SUBM DATE: 04Sep65/ ORIG REF: 006/ OTH REF: 002

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APINIS, I. A.

M

Physical

[illegible] is supraconductivity.—N. B. V.

The Nature of Supraconductivity.—I. A. Apinis (*Acta Univ. Latviensis, Mat. un Dabas Zinatnu Fakultat.*, 1939, 3, (8), 265-272e; *C. Abs.*, 1940, 34, 4631).—[In German.] Assuming that a dynamic electron lattice exists in some fixed manner in the metal, supraconductivity is probably connected with the movement of all of the electrons as a unit. Co-ordinated movement of neighbouring electrons exists even in the normal state of metals; in the supra state co-ordination extends to great distances. The forces producing co-ordination are interchange forces, in which the phenomenon of resonance is of great importance. Properties of the supra state, especially specific heat, are developed mathematically.

*On the Analysis of the Elemental Moment of [illegible]

#2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

RABINOVICH, I.M.; APINIS, A.A.

First steps toward a heliocentric cosmogony in Latvia. Ist.-astron. issl. no. 6:194-211 '60. (MIRA 14:2)
(Latvia—Astronomy)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

Q

USSR / Farm Animals. Swine.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 21271

Author : Apinis, P. Ya.
Inst : ~~Not given~~
Title : Keeping Pigs in Transportable Huts

Orig Pub : Svinovodstvo, 1958, No 5, 34-36

Abstract : The experiments were conducted in Latvia. Transportable pigpen-huts are constructed to be 3 m wide, 6 m long and 1.8 m high at the ridge. The skeleton of the hut is covered with a 45 cm layer of straw. The door is equipped with a manhole which permits the pigs to walk out easily into the yard for exercise and re-enter the hut. It is easy to transport the hut. Twenty to 25 fattened pigs or 40 - 45 weaned pigs may be kept in huts of the transportable kind. The experiment in which the pigs were kept in such huts helped to eliminate

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

PENTSIK, A.S.; PRINTSE, R.Ya.; APINIS, V.K. (Riga)

A case of "Fahr's disease." Vop.neirokhir. 25 no.3:56-58 My-Je '61. (MIRA 14:5)

1. Klinika nervnykh bolezney Rizhskogo meditsinskogo instituta.
(CEREBROVASCULAR DISEASES)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

AUTHORS: Sauka, Ya. and Apinit, S. SOV/70-4-2-33/36

TITLE: Crystals of Lead Selenate (Kristally selenata svintsa)

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 2, pp 262-263 (USSR)

ABSTRACT: Crystals of $PbSeO_4$ were produced by allowing solutions of K_2SeO_4 and $Pb(NO_3)_2$ to diffuse very slowly into each other for some 4 months. Needle-shaped crystals up to 2 mm long were formed. Analysis confirmed their composition. Optical goniometry showed them to be monoclinic prismatic with a:b:c = 0.942:1:0.976 with $\beta = 103^{\circ}04'$. X-ray measurements (from layer-line spacings) gave a = 7.14 ± 0.01, b = 7.37 ± 0.01, c = 6.94 ± 0.01 kX; that is a:b:c = 0.969:1:1.942 (sic - ratio should be 0.969:1:0.942). The density from the literature is 6.37 giving Z = 4. Further rotation photographs showed the lattice to be primitive.

Card 1/2

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

Crystals of Lead Selenate SOV/70-4-2-33/36

There are 1 figure, 1 table and 5 references, 3 of which are Soviet and 2 French.

ASSOCIATION: Rizhskiy politekhnicheskiy institut (Riga Polytechnical Institute)

SUBMITTED: November 17, 1958

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APINITIS, S.K.; SAUKA, Ya.Ya. [Sauka, J.]

Double selenates $K_2SeO_4 \cdot PbSeO_4$ and $(NH_4)_2SeO_4 \cdot PbSeO_4$. Kristallografiia 10 no.2:250-251 Mr-Ap '65 (MIRA 18:7)

1. Rizhskiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

S/079/60/030/05/29/074
B005/B016

AUTHORS: Ivevin'sh, A. F., Apinitis, S. K., Gudriniyetse, E. Yu., Vanag, G. Ya.

TITLE: Sulfonation of β-Diketones. VII. Crystallographic and X-Ray Analyses of Alkali Metal and Ammonium Salts of Indandione(1,3)-2-sulfonic Acid

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1541-1547

TEXT: The authors of the present paper investigated the crystals of the lithium-, sodium-, potassium-, ammonium- and rubidium salts of indandione(1,3)-2-sulfonic acid. To obtain suitable crystals for the crystallographic investigation, these salts were recrystallized from aqueous ethanol. The experimental conditions are given. The mono- and dihydrate of the sodium salt of indandione(1,3)-2-sulfonic acid were studied while the remaining 4 alkali salts occurred in anhydrous state. Crystal class, axial ratio, volume of the unit cell, and number of molecules in the unit cell were determined for each of these 6 salts. 4 tables give the spherical coordinates of the individual lattice planes

Card 1/2

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

Sulfonation of β-Diketones. VII. Crystallographic and X-Ray Analyses of Alkali Metal and Ammonium Salts of Indandione(1,3)-2-sulfonic Acid

S/079/60/030/05/29/074
B005/B016

for the 6 salts investigated. One table shows the parameters of the unit cells of potassium-, ammonium-, and rubidium salt, 2 further tables present the identity periods for the 3 lattice planes [110], [101], and [011] for the dihydrate of the sodium salt, and for the potassium salt of indandione(1,3)-2-sulfonic acid. 4 schemes show the crystals investigated in the oblique and top view. The authors further investigated the solubilities of the alkali salts of indandione(1,3)-2-sulfonic acid in water and alcohol at 20°. The results are compiled in a table. The solubility of the salt decreases with increasing radius of the cation. There are 4 figures, 8 tables, and 2 Soviet references.

ASSOCIATION: Rizhskiy politekhnicheskiy institut (Riga Polytechnic Institute)

SUBMITTED: May 11, 1959

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

TOROPOV, N.A.; BOUKOVA, A.I.; IYEVIN'SH, A.F. [Ieviņš, A.]; akademik APINITIS, S.K.

Formation of solid solutions between tricalcium and tristrontium silicates. Dokl. AN SSSR 137 no.4:882-884 Ap '61. (MIRA 14:3)

1. Institut khimii silikatov AN SSSR. 2. AN LatvSSR (for Iyevin'sh).
(Calcium silicate) (Strontium silicate)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

OGANESYAN, S.G.; APINYAN, M.A.

Size of pollen grains in various parts of the ear, their viability and percentage of seed set when pollinated. Izv.AN Arm.SSR. Biol. i sel'-khoz. nauki 2 no.6:545-550 '49. (MLRA 9:8)

1. Institut genetiki i selektsii Akademii nauk Armyanskoy SSR.
(POLLEN) (WHEAT)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APINYAN, T.K.

42487. Materialy Po Kraniologicheskomu Izuch Eniyu Malokavkazskogo skota Arm. SSSR.-Vogl: Apinyan G.K. Trudi Yerevansk. Zoovet. In-Ta, Vyp. 10, 1948, c 245-57. Bibliogr: 6 Nazv.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

STAMBOLYAN, R.P., kand.med.nauk; APINYAN, Ye.N.

Diagnosis of myocardial infarcts. Vop.kardiol. no.1:82-96 '56. (MIRA 12:9)

1. Iz Gospital'noy terapevticheskoy kliniki Yerevanskogo medinstituta.
(HEART--INFARCTION) (ELECTROCARDIOGRAPHY)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APIRIN, B.S.

NOVODENSKIY, Valeriy Vladimirovich; MARCHENKO, Aleksandr Afanas'yevich; LEBEDEV, Aleksandr Sergeyevich; KURYSHEV, Viktor Vasil'yevich; APIRIN, B.S., inzhener, redaktor; UDAL'TSOV, A.N., glavnyy redaktor

[Semiautomatic device for milling spiral grooves on rollers. Semiautomatic device for machining both faces. Device for machining slits in threaded stoppers. Device for milling casings] Poluavtomat dlia frezerovaniia spiral'nykh kanavok na valikakh. Poluavtomat dlia frezerovaniia dvukh tortsov. Prisposoblenie dlia frezerovaniia shlitsev v rez'bovykh probkakh. Prisposoblenie dlia frezerovaniia koshukha. Moskva, 1956. 17 p. (Peredovoi proizvodstvenno-tekhnicheskii opyt. Ser. 11, Frezernye i zuborezny raboty. No.T-56-188/4) (MLRA 10:9)

1. Moscow. Institut tekhniko-ekonomicheskoy informatsii
(Machine tools--Attachments)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

DASHCHENKO, A.I., kand. tekhn.nauk; VLADIMIROV, V.M., inzh., ved. red.; APIRIN, B.S., inzh., red.; PONOMAREV, V.A., tekhn.red.

[Power heads for small semiautomatic machine-tool units]Silovye golovki malykh agregatnykh poluavtomatov. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 75 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 10. No.M-58-59/11) (MIRA 16:2)

(Machine tools)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

SHTERN, Lazar' Tevel'yevich; GOLITSYN, Ya.K., ved. red.; APIRIN, B.S., inzh., red.; PONOMAREV, V.A., tekhn.red.

[Group manufacture of parts on high-production machines] Gruppovaia obrabotka detalei na vysokoproizvoditel'nykh stankakh. Moskva, Filial Vses.in-ta nauchn. i tekhn. informatsii, 1958. 11 p. (Peredovoi nauchno-tekhnicheskii i proizvoditel'nyi opyt. Tema 10. No.M-58-273/40) (MIRA 16:3)

(Metalworking machinery)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

TAMPOVTSEV, Sergey Pavlovich, kand. tekhn.nauk; SHELKOV, N.I., inzh., ved. red.; APIRIN, B.S., inzh., red.; SMIRNOV, B.M., tekhn.red.

[Effect of the microstructure of metals on their machinability] Vliianie mikrostruktury metallov na ikh obrabatyvaemost'. Moskva, Filial Vses. in-ta nauchn. i tekhn.informatsii, 1958. 22 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 10. No.M-58-146/27) (MIRA 16:3)
(Metallography) (Metal cutting)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

PETROV, Aleksandr Konstantinovich; SURIN, Sergey Filippovich; KOVALEV, A.M., insh., ved. red.; APIRIN, B.S., insh., red.; PONOMAREV, V.A., tekhn. red.

[Using the stretching method in high-speed countersinking and hole reaming with hard-alloy tools] Skorostnoe zenkerovanie i razvertyvanie otverstii tverdosplavnym instrumentom metodom "na rastiashenie." Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 15 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 10. No.M-58-34/8) (MIRA 16:3)

(Drilling and boring)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

35313
S/075/62/017/002/003/004
B107/B138

21.4200

AUTHORS: Vinogradov, A. V., and Apirina, R. M.

TITLE: Gravimetric determination of uranium by its precipitation with hexammine cobalt nitrate

PERIODICAL: Zhurnal analiticheskoy khimii, v. 17, no. 2, 1962, 222-226

TEXT: Năpcuţiu (Ref. 9: Tib. Năpcuţiu, Commun. Acad. RPR 7, 51-56 (1957); RZhKhim no. 17561 (1958)) suggested a method of determining uranium by its precipitation from pure uranyl nitrate and uranyl acetate solution in the form of $[UO_2(CO_3)_3(H_2O)_3]\cdot 2[Co(NH_3)_6]NO_3$. This method was applied to analyses of ores, ore concentrates, and alloys. The uranium was precipitated from an ammonium carbonate solution (pH 8), thus permitting ordinary bivalent, trivalent, and tetravalent metal ions, forming no solid carbonate complexes, to be kept in solution with Komplexon III. Beryllium, however, being co-precipitated, had to be kept in the solution by a fluoride addition. The addition of 2 g of ammonium carbonate, of 100 mg of ammonium chloride, and of 200 mg of ammonium sulfate per 10 mg of U did not disturb the determination. The disturbing effect of larger fluoride amounts

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(0.5 g of NH_4F) was eliminated by the addition of 1 g of $(NH_4)_2CO_3$ and 1-3 g of NH_4NO_3. Maximum amounts of 50 mg of Mo and 20 mg of W per 10 mg of U did not cause a disturbance. V^{5+}, reduced by boiling with Komplexon III, did not disturb even if present in large amounts, but larger amounts of phosphate did. The latter were therefore precipitated as zirconium phosphate after decomposition, and filtered off with silicic acid. Zirconium was masked by boiling with Komplexon III. Tin, niobium, and tantalum were kept in solution by tartaric acid. In the present of niobium and tantalum, however, the solution must not contain any fluoride. Titanium in small amounts did not disturb. Uranium ore, various concentrates, (uranium tetrafluoride) and uranium oxide were analyzed by the method under consideration and, for comparison, by various other methods (Ref. 16: V. K. Markov, A. V. Vinogradov, S. V. Yelinson, A. Ye. Klygin, I. V. Moiseyev, Uran, metody yego opredeleniya (Uranium, methods of its determination). Atomizdat, M., 1960, p. 74, 94, 126, 128, 130, 155, 158, 163, 191). Two samples of a uranium-beryllium alloy were analyzed. The present method is very well suited for uranium contents of 1-90%, and particularly of determination in uranium tetrafluoride, since fluorine does

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

not have to be removed. Its main advantages are said to be simplicity and rapidity (40-45 min). Yu. V. Karyakin, K. B. Yatsimirskiy, Ye. N. Roslyakova, Kuznetsov, Kukisheva, Oleznyuk, Volkov, and Sakharov are mentioned. There are 3 tables and 21 references: 11 Soviet and 10 non-Soviet. The four most recent references to English-language publications read as follows: I. A. Carter, C. W. Weber, U.S. At. Energy Comm. T. Y. D.-7516, 186 (1956); Apurba Kumar Sen Gupta, Sci. and Culture 25, 426 (1960); R. Cernătescu, M. Poni, M. Papafil, M. Bostan, C. A., 52, 19422 h (1958); T. Akiyama, T. Yabuuchi, C. A., 53, 8923 h (1959).

SUBMITTED: May 24, 1960

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

VINOGRADOV, A.V.; APIRINA, R.M.; CHERSTVENKOVA, Ye.P.

Carbonate complex of beryllium (III) with hexamminocobalt (III).
Zhur.neorg.khim. 8 no.9:2062-2064 S '63. (MIRA 16:10)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ACC NR: AP6033299 SOURCE CODE: UR/0107/66/000/010/0045/0048

AUTHOR: Pen'kova, L.; Kocherginskiy, M.; Apirina, Ye.; Mendzheritskiy, E.

ORG: none

TITLE: Electrochemical current sources and their potentialities

SOURCE: Radio, no. 10, 1966, 45-48

TOPIC TAGS: storage battery, dry cell, electrochemistry

ABSTRACT: Three recently developed types of electrochemical current sources are described: 1. A zinc-manganese dioxide battery with salt electrolyte (MTs), hermitized. The positive electrode consists of a mixture of manganese dioxide and carbon materials; the negative electrode is formed by a zinc cup. The battery operates efficiently in a temperature range of -40C—+60C; and may be stored for several years. It is manufactured in 12 sizes. 2. Air-zinc (VTs) and zinc-manganese (MTs) batteries with an alkaline electrolyte in a vinyl plastic container. The negative electrode consists of zinc suspended in an electrolyte; the positive is made from activated carbon, acetylene black, and manganese dioxide moistened with an alkali solution. As compared with nickel-cadmium batteries, the VTs and MTs types have a much higher initial capacity and lower cost. The batteries may be stored for 12 months, and will operate in tropical climates. 3. Zinc-mercury batteries (RTs) have a high specific power, stable voltage, high reliability, and high mechanical strength. The electrolyte consists of concentrated caustic potash and zinc oxide.

Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ACC NR: AP6033299

Twenty variants of this type are produced, differing in size and capacity. Parameters of all three types of battery exceed established international and foreign standards. Orig. art. has: 10 figures and 4 tables.

SUB CODE: 10, 07/ SUBM DATE: none/

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

S/080/61/034/011/008/020
D243/D301

AUTHORS: Manvelyan, M.G., Grigoryan, N.M., Pen'kova, L.P., ~~Grigoryan, G.O.~~, and Apirina, Ye.G.

TITLE: The use of carbonized calcium metasilicate in producing dry galvanic cells

PERIODICAL: Zhurnal prikladnoy khimii, v. 34, no. 11, 1961, 2455 - 2459

TEXT: In conducting this study the authors wished to study the effect of replacing wheat flour and potato starch, as electrolyte thickeners, by inorganic substances in preparing galvanic cells. Carbonized calcium metasilicate was studied in "KBC-Л-0.5" ("KBS-L-0.5") pocket batteries. The electrolyte paste was prepared as follows from the specification in Table 1: Carbonized calcium metasilicate was added to No. 40 electrolyte, heated to 85-90°C in 5-7 minutes and then cooled to room temperature. 15-20 % of the prescribed starch was added and stirred till it thickened. A homogeneous mixture was obtained by dilution with No. 39 electrolyte. The

Card 1/5.2

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

rest of the starch was added together with 20-30 % of No. 39 electrolyte plus a corrosive sublimate before charging the cells. Trials were carried out in the laboratory and in the factory using intermittent and continuous discharge regimes. The batteries using carbonized calcium metasilicate, apart from being cheaper, performed better than the controls save in factory conditions at 50°C, where results were slightly lower than the controls. There are 5 tables, and 3 Soviet-bloc references.

SUBMITTED: October 17, 1960

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

[redacted]

SHAFIR, A.I., professor; [redacted], nauchnyy sotrudnik;
SOLOMONOVA, Ye.I., nauchnyy sotrudnik

Hygienic rating of various types of ventilation in apartment houses [with summary in English]. Gig. i san. 22 no.1:18-25 Ja '57. (MLRA 10:2)

1. Iz Leningradskogo nauchno-issledovatel'skogo sanitarno-gigiyenicheskogo instituta.
(VENTILATION
hyg. characteristics of various types in dwellings (Rus))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

SARKISYAN, M.A.; APIYAN, S.S.

Absorption of heavy metal ions by dolomite. Part 1. Izv. AN Arm.SSR. Khim.nauki 17 no.4:393-397 '64. (MIRA 18:6)

1. Yerevanskiy gosudarstvennyy universitet, kafedra neorganicheskoy khimii.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APIEVICH, A.M.

SUNTSOV, A.G., dotsent

Comments on the article by Prof. A.M.Apievich and the Candidate of Medical Science A.S.Bezzabotnyi "Some practical problems of roentgenotherapy of mycosis of the scalp." Vest. ven. i derm. no.6:20-22 N-D '54. (MLRA 8:2)

1. Iz Chelyabinskogo med. inst. (dir.-prof. G.D.Obraztsov) Min. zdravookhr. SSSR.

(SCALP, diseases
mycosis, radiother.)
(MYCOSIS, FUNGOIDES
scalp, radiother.)
(RADIOTHERAPY, in various diseases
mycosis of scalp)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

BARTOK, M.; KOZMA, B.; AP'OK, Y. [Apjok, J.]

Reaction of 1,3-butanediol with acetyl chloride. Izv. AN SSSR Ser. khim. no.12:2192-2197 D '64 (MIRA 18:1)

1. Institut organicheskoy khimii universiteta imeni Yozhefa Attily, g. Seged, Vengriya.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

SEMENOV, P.K.; PERMYAKOV, R.S.; GRINBERG, I.N.; APKHANOV, Yu.G.; FEDOSEYEV, B.A.; KOLESNIKOVA, V.M., insh., spets. red.; GLADKOV, V.A., red.; SYCHEVA, V.A., tekhn. red.

[Improving boring and blasting operations at the Olenegorsk Mine] Sovershenstvovanie burovzryvnykh rabot na Olenegorskom rudnike. Murmansk, Murmanskoe knizhnoe izd-vo, 1962. 77 p. (MIRA 16:10)

(Olenegorsk region—Mining engineering)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

Category : USSR/Solid State Physics - Diffusion, Sintering E-6

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6677

Author : Apkhorov, V.I.

Title : Concerning S.D. Gertsrikon's Letter "On the Problem of Mechanism of Diffusion."

Orig Pub : Fiz. metallov i metallovedeniye, 1956, 2, No 2, 372

Abstract : The letter by S.D. Gertsrikon (see abstract 6676) does not take it into account that the intercrystalline transition zones contain lattice distortions which cannot be reduced merely to the formation of vacancies. Actually, $E_b = E_0 - E_h - \Delta E_c$ (ΔE_c -- change in activation energy of the motion of the atoms due to distortion of the lattice) or $E_b = 2E_0/3 - \Delta E_c$. This may explain the discrepancy between the experimental values of E_b/E_0 and the theoretically-computed value 2/3.

Card : 1/1

Card : 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APKHAZAVA, I.S.

Present-day glaciers and traces of ancient glaciation in the Aragva River basin. Trudy Geog.ob-va Gruz.SSR 4:77-92 '59. (MIRA 13:1)

(Aragva Valley--Glaciers)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APKHAZAVA, I.S.

Geographical and annual distribution of runoff in the Aragva Basin. Soob.AN Gruz.SSR 23 no.4:409-416 O '59. (MIRA 13:5)

1. Akademiya Nauk Gruzinskoy SSR, Institut geografii imeni Vakhushti, Tbilisi. Predstavleno akademikom A.N.Dzhavakhishvili.
(Aragva Valley--Runoff)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APKHAZAVA, I.S.

On the problem of the origin of the Kreatovyy and Bursachirskiy passes. Trudy Geog. ob-va Gruz. SSR 5:131-136 '59. (MIRA 13:11)
(Caucasus--Geology, Structural)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

KIKILASHVILI, T.Z.; APKHAZAVA, I.S.

Hydrology of the Khanistskali Basin. Trudy Geog. ob-va Gruz. SSR 7:119-139 '63. (MIRA 18:5)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

VLADIMIROV, L.A.; APKHAZAVA, I.S.; SHENGELIYA, R.G.; GIGINEYSHVILI, G.N.

Hypsometry of river basins in Georgia. Soob. AN Gruz. SSR 28 no.4: 425-430 Ap '62. (MIRA 18:1)

1. AN Gruzinskoy SSR, Institut geografii im. Vakhushti, Tbilisi. Submitted January 10, 1961.

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APKHAZAVA, I.S.

Recent landslide lakes in the Gordzhomistskali Basin. Trudy Geog. ob-va Gruz. SSR 6:173-180 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

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APKHAZAVA, I.S.

Hydrography and the regime of lakes in the upper Paravani Basin. Trudy Inst. geog. AN Gruz. SSR 20:211-225 '64.

(MIRA 18:5)

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APLAKSIN, B. A.

+ "Deep (Subterranean) Passageways in the City Transit System." Cand Tech Sci, Acad of Communal Economy imeni K. D. Pamfilov, Leningrad, 1955. (KL, No 8, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

ALPLAKSIN, B.A.

BOGORODITSKIY, N.P.; YERMOLIN, N.P.; FATEYEV, A.V.; VASIL'YEV, D.V.; ODINTSOV, G.V.; GEKTOR, D.S.; ALPLAKSIN, B.A.

Professor V.A. Timofeev. Elektrichestvo no.2:96 F '58. (MIRA 11:2)
(Timofeev, Vladimir Andreevich, 1897-)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLATOV, V.V.
CA

11 # 2

Inheritance of acquired characteristics in insects. V. V. Aplatov. *Uspekhi Sovremennoi Biol.* 30, 222-33(1950). Effects of metabolism and other factors are reviewed. 24 references. Julian F. Smith

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLATOV, V.V.

Guiding changes in colony form of Bacillus mycoides by long culturing on optical isomers. Uspekhi Sovremennoy Biol. 35, 300-4 '53. (MLRA 6:4)
(OA 47 no.22:12524 '53)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

MARTINIUC, C., conf. univ.; APLAVALOAIE, M., lector univ. (Iasi);
GIOSU, V., lector univ (Iasi)

Suceava region. Natura Geografie 17 no.1:18-31 Ja-F '65.

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLAVIN, A.N., master

Experience in the application of ultrasonic waves in sizing. Tekst. prom. 24 no.4:63-64 Ap '64. (MIRA 17:6)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLAVINA, T.M.

Awarding of diplomas of the All-Union Industrial Exhibition to workers of the food industry. Khleb.i kond.prom. 1 no.8:44-46 Ag '57. (MLRA 10:8)

1.Vsesoyuznaya promyshlennaya vystavka.
(Bakers and bakeries)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLAVINA, T.M.; IVANOVA, R.M.; LEYTES, Z.S.; NOSOVA, M.V.; PODRECHNEVA, V.I.; KHITROVA, N.A.; SEDEL'NIKOV, V.I., red.; MAYOROV, V.V., tekhn. red.

[Pavillions of the food industry] Pavil'ony pishchevoi promyshlennosti; putevoditel'. Moskva, 1962. 74 p. (MIRA 16:6)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR. (Food industry--Exhibitions)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLAVINA, T.M.

Lamellar butter-making machine. Biul.tekh.-ekon.inform.Gos.nauch. issled.inst.nauch. i tekh.inform. 16 no.5:47-49'63. (MIRA 16:7)
(Creameries—Equipment and supplies)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLAVIRA, T.M.

Automatic machine for packing cheese curds in boxes. Biul tekh. ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. 16 no.5: 49-50'63. (MIRA 16:7)

(Packaging machinery)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLETOVA, N.N. (Kiyev)

Use of splenin in the treatment of patients with chronic hepatitis and liver cirrhosis. Vrach. delo no.9:26-30 S'63. (MIRA 16:10)

1. Otdel klinicheskoy fiziologii (zav. - kand.med.nauk Ye.L. Revutskiy) Instituta fiziologii im. akademika A.A.Bogomol'tsa AN UkrSSR i terapevticheskaya klinika im. akademika V.N. Ivanova Kiyevskoy klinicheskoy bol'nitsy Ministerstva zdravookhraneniya UkrSSR.
(LIVER —DISEASES) (SPLENIN)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

"Disturbance of the water metabolism in patients with lung cancer"
Vrachebnoye Delo, 1953, No 6, pp 51[illegible]-520

The author examined 31 lung cancer patients between the ages of 50 and 60 and studied water and mineral metabolism as well as blood protein content. He found: In 23 the oncotic pressure of the serum was within normal limits; in 26 hydrophilia of the tissues was normal; in 17 the serum albumin was normal, in 12 it was below normal; in 19 there was increase in globulin (in 12 more than [illegible] percent; 1[illegible] normal); potassium, calcium, chlorine, and sodium were normal. In 2[illegible] there was retention of fluid in the tissues. Variations in the protein fractions and lowering of the oncotic pressure were seen only in patients with water retention, but the disturbances due to it were not all analogous. Only [illegible] out of 27 cases with oncotic pressure also suffered from retention of fluid in the organism. (RZhBiol, No 3, Oct 54)

SC: Sum. 492, 12 May 55

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLETOVA, N.M.

Water metabolism in patients with pulmonary cancer. Fiziol. zhur. [Ukr.] 5 no.3:364-372 My-Je '59. (MIRA 12:10)

1. Kiivs'kiy medichniy institut im. akad.O.O.Bogomol'tsya, gospital'na terapevtichna klinika.
(WATER IN THE BODY) (LUNGS--CANCER)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLETOVA, N.N.

Changes in blood serum protein in cancer of the internal organs. Vrach. delo no.12:54-62 D '60. (MIRA 14:1)

1. Fakul'tetskaya terapevticheskaya klinika (zav. - akademik AN USSR, deystvitel'nyy chlen AMN SSSR, prof. V.N.Ivanov) Kiyevskogo meditsinskogo instituta.
(BLOOD PROTEINS) (CANCER)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLETOVA, N.N.

Influence of surgery on the dynamics of changes in the protein composition of the blood serum in stomach cancer. Vrach. delo no.2:28-33 F '61. (MIRA 14:3)

1. Fakul'tetskaya terapevticheskaya klinika (zaveduyushchiy - akademik AN USSR, deystvitel'nyy chlen AMN SSSR, prof. V.N.Ivanov) Kiyevskogo meditsinskogo institute.
(STOMACH—CANCER) (BLOOD PROTEINS)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLONOV, V.S.

Some data on the crystalliferous zone in the northern Verkhoyansk Range. Inform.biul. NIIGA no.13:46-54 '59. (MIRA 13:5)

(Verkhoyansk Range--Crystals)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLONOV, V.S.; KUMPAN, Ye.A.

Some field-work results achieved by the N'olon prospecting team. Inform. biul. NIIGA no.17:35-41 '59. (MIRA 13:11)
(N'olon Valley--Prospecting)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLONOV, V.S.

Crystal-bearing quartz veins in the upper Nëlon Basin (Verkhoyansk crystal-bearing zone). Trudy NIIGA no.125:179-194 '61. (MIRA 16:7)

(Nëlon Valley--Quartz crystals)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

SAKS, Vladimir Nikolayevich; GROSSBERG, I.S.; RONKINA, Z.Z.; ~~APIONOVA, R.N.~~; SPIZHARSKIY, T.N., nauchnyy red.; KELAREV, L.A., vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Mesozoic sediments in the Khatanga Depression] Mezozoiskie otlozheniia Khantangskoi vpadiny. Leningrad, Gos. nauchno-tekhn.izd-vo neft.i gorno-topl.lit-ry Leningr.otd-nie. 1959, 225 p. (Leningrad. Nauchno-issledovatel'skii institut geologii Arktiki. Trudy, vol.99) (MIRA 12:6)

(Siberia, Northern--Geology)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

GRAMBERG, I.S.; APLONOVA, E.N.

Basic results of field lithostratigraphic investigations of Permian sediments in the central Kharaulakh Mountains. Inform. biul. NIIGA no.13:16-22 '59. (MIRA 13:5)
(Kharaulakh Mountains--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

GRAMBERG, Igor' Sergeyevich; SPIRO, Nikolay Semenovich; APLONOVA, Evelina Nikolayevna; SAKS, V.N., nauchnyy red.; DEKSHALYT, M.G., vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Stratigraphy and lithology of Permian sediments in the northern part of the Khatanga Depression in connection with its oil potential] Stratigrafiia i litologiia permskikh otlozhenii severnoi chasti Khatangskoi vpadiny v sviazi s problemoi neftenosnosti. Leningrad. Gos.nauchn.-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry.Leningr.otd-nie, 1960. 172p. (Leningrad Nauchno-issledovatel'skii institut geologii Arktiki. Trudy, vol.71) (MIRA 13:2)
(Khatanga region--Petroleum geology)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

GRAMBERG, I.S.; APLONOVA, N.N.

Rhythms of stratification of Triassic sediments of the central Kharaulakh Range. Trudy NIIGA 65:52-56 '59. (MIRA 13:12)
(Kharaulakh Range--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

GRAMBERG, I.S.; SPIRO, N.S.; APLONOVA, E.N.; SAKS, V.N., nauchnyy red.; RUSAKOVA, L.Ya., vedushchiy red.; ZHIKHAREVA, M.Ya., tekhn.red.

[Stratigraphy and lithology of Permian and Triassic sediments in the northern part of the Verkhoyansk trough and adjoining folded structures] Stratigrafiia i litologiia permskikh i triasovykh otlozhenii severnoi chasti Priverkhoianskogo progiba i sopredel'nykh skladchatykh sooruzhenii. Leningrad, Gos.nauchno-tekh.izd-vo neft.i gorno-toplivnoi lit-ry.Leningr.otd-nie., 1961. 231 p. (Leningrad. Nauchno-issledovatel'skii institut geologii Arktiki. Trudy, vol.118) (MIRA 14:11)

1. Chlen-korrespondent AN SSSR (for Saks)
(Verkhoyansk Range--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

CZECHOSLOVAKIA/Soil Science - Biology of Soils. J.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67921

Author : Apltauer, Jiri

Inst : Czechoslovakian Agricultural Academy.

Title : The Nitrogen-Fixating Capacity of Nitrobacteria in the Rhizosphere of Various Agricultural Crops and in Various Soil Types.

Orig Pub : Sbor. Ceskosl. akad. zemel. ved. Rostl. vyroba, 1956, 29, No 9-10, 970-973.

Abstract : In a field experiment on chestnut soil (pH 7.5-7) the maximum amount of nitrogen bacteria cells (A) per gram of dry soil was found to be in the rhizosphere of barley, vetch, mustard, lucerne, soy bean, and potato; average amounts were found in the rhizosphere of wheat, oats, clover, and corn; minimal amounts were in carrots

Card 1/2

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLTAUER, J.; SKOPALIKOVA, O.

Influence of green manuring on soil microflora. Rost vyroba 9 no. 7/8:764-767 Jl-Ag '63.

1. Ustredni vyzkumny ustav rostlinne vyroby, oddeleni mikrobiologie, Ruzyne.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLTAUER, Jiri

Selection of strains of Rhizobium lupini and specific effect of its varieties. Rost vyroba 9 no. 7/8:738-740 Jl-Ag '63.

1. Ustredni vyzkumny ustav rostlinne vyroby, oddeleni mikrobiologie, Ruzyne.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

HUDCOVA, Olga, Ing.; APLTAUER, Jiri, Ing.

Effect of the composition of the organic substances of green manure plants on the formation of CO_2 and the release of ammonium and nitrate oxygen. Rost vyroba 11 no.2:151-160 F '65.

1. Department of Microbiology of the Central Research Institute of Plant Production, Prague-Ruzyne 507. Submitted August 3, 1963.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

[illegible]

"Dynamics of Immunobiological Reactions in Guinea Pigs Immunized With Live Anti-brucellosis Vaccine Under Different Conditions of the Nervous System," V. P. Tul'chyns'kaya, N. O. Faytelber, I. V. Aplyak

Mikrobiol Zhur, Vol 15, No 1, pp 5-10

Simultaneous injection of attenuated living antibrucellosis vaccine and caffeine effected in guinea pigs a more rapid appearance and subsequent rapid fall of the opsonophagocytic and macrophagocytic reactions as well as agglutinin and precipitin titers than the injection of vaccine alone. Since bromine has an inhibitory effect on the cortex of the brain, the attendant immunobiological reaction appears late and lasts longer. The opsonophagocytic and macrophagocytic reactions reflect more clearly the reactions of the organism of guinea pigs to the living attenuated antibrucellosis vaccine than either the agglutinin or precipitin reaction.

(CA 47 no. 15: 7636 '53)

[illegible]

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

TUL'CHINSKAYA, V.P.; APLYAK, I.V.

Immunobiological reactions in laboratory animals inoculated with living brucellosis vaccine under various conditions of the nervous system. Zhur.mikrobiol.epid.i immun. no.5:56-61 My '55. (MLRA 8:7)

(BRUCELLOSIS, immunology,
vacc., eff. of bromides & caffeine on response to living vacc.)
(VACCINES AND VACCINATION,
brucellosis, eff. of bromides & caffeine on response to living vacc.)
(BROMIDES, effects,
on immun. responses to living brucellosis vacc.)
(CAFFEINE, effects,
on immun. responses to living brucellosis vacc.)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLYAK, I. V. Cand Biol Sci -- (diss) "Comparative study of phagocytosis and the dynamics of antibodies during vaccination and revaccination with live brucellosis vaccine." Odessa, 1957. 15 pp (Min of Higher Education UkSSR. Odessa State Univ. im I. I. Mechnikov), 100 copies (KL, 43-57, 87)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLYAK, I.V.

USSR/General Problems of Pathology - Allergy.

Abs Jour : Ref Zhur Biol., No 1, 1959, 4080

Author : Tul'chinsk'kaya, V.P., Faytel'berg, R.O., Shitets'kaya, L.L., Anzinye, K., Aplyak, I.V.

Inst : Odessa University.

Title : Alteration of Allergic Reactions of the Sensitized Organism Following Administration of Caffeine, Bromine and Strychnine

Orig Pub : Tr. Odesck. un-ta. Ser. biol. n., 1957, 147, No 8, 59-63

Abstract : Rabbits were sensitized with brucellosis antigen. Prolonged administration (in the course of 10-15 days) of small doses of strychnine (0.02 mg) or bromine (0.8 g/kg in the course of 20 days) produced desensitization of the rabbits. Caffeine intensified the allergic reactions, while bromides in moderate doses failed to change the reactivity.

Card 1/1

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101820019-9

APLYAK, I.V.

Macrophage reaction in a single-injection immunization and late revaccination with living brucellosis vaccination. Pratsi. Od. un. zbir. mol. vchen. un. 148 no.3:213-219 '58 (MIRA 13:3)

1. Nauchnyy rukovoditel' - chlen-korrespondent AN USSR, prof. V. P. Tul'chinskaya [Tul'chyns'ka].
(Brucellosis) (Phagocytosis)

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