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N/5 PYATAKOV, GEORGIY LEONIDOVICH, DEFENDANT. 135.21 .P91 WHY DID THEY "CONFESS"? A STUDY OF THE RADEK-PIATAKOV TRIAL BY JAMES BURNHAM. NEW YORK, PIONEFR PUBLISHERS, 1937. 31 P. COVER TITLE COPY IN HIC N/5 N/5 N/5 N/5 N/5 N/5 135.21 114.651 114.64 861.21 115 132

PYATAKOV, L.V., inzh.

Peat industry of the Moscow Province Economic Council. Torf.prom. 37 no.3:14-16 60. (MIRA 13:9)

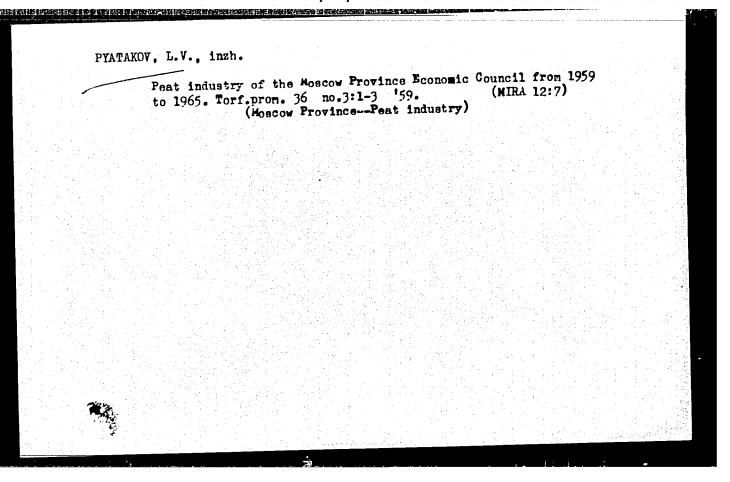
1. Upravleniya toplivno-energeticheskoy promyshlennosti Mosoblsov-narkhoza.

(Moscow Province -- Peat industry)

KARAKIN, F.F.; RODICHEV, A.F.; PUTIY, G.P.; BASOV, A.P.; PYATAKOV,
L.V.; RAUTSEP, A.P. [Rautsepp, A.]; BLAGOMRAVOV, S.I.;
GRECHIKHO, A.M.; DRUZHININ, N.N.; SHUKHMAN, D.I.; BAUSIN, A.F.;
LOYKO, P.G.; CHERNAKOV, B.A.; SHORNIKOV, F.M.; SOPIN, P.F.

Remarks of the members of the Conference. Torf. prom. 37 no.5: 22-28 '60. (MIRA 14:10)

1. Ivanovskiy gosudarstvennyy torfotrest (for Karakin). 2. Sverdlovskiy torfotrest (for Rodichev). 3. Gosplan USSR (for Putiy). 4. Leningradskiy gosudarstvennyy trest torfyanoy promyshlennosti (for Basov). 5. Moskovskiy oblastnoy sovnarkhoz (for Pyatakov). 6. Gosudarstvennyy nauchno-tekhnicheskiy komitet Estonskoy SSR (for Rautsep). 7. Gor'kovskiy sovnarkhoz (for Blagonravov). 8. Belorusskiy sovnarkhoz (for Grechikho, Shukhman). 9. Yaroslavskiy sovnarkhoz (for Druzhinin). 10. Bobruyskaya mashinno-meliorativnaya stantaiya (for Loyko). 11. Gipromestprom Gosplana RSFSR (for Chernakov). 12. Mezhkolkhoznoye torfopredpriyatiye "Volosovskoye" Leningradskoy oblasti (for Shornikov). 13. Vsesoyuznyy nauchnoissledovatel'skiy institut torfyanoy promyshlennosti (for Sopin). (leat industry)



PYATAKOVA, G.M. Niphargoides derzhavini, a new species of amphipods of the Caspian Sea. Dokl. AN Azerb. SSR 18 no.11:71-73 '62.

(MIRA 17:2)

1. Institut zoologii AN AzerSSR. Predstavleno akademikom AN AzSSR A.N. Derzhavinym.

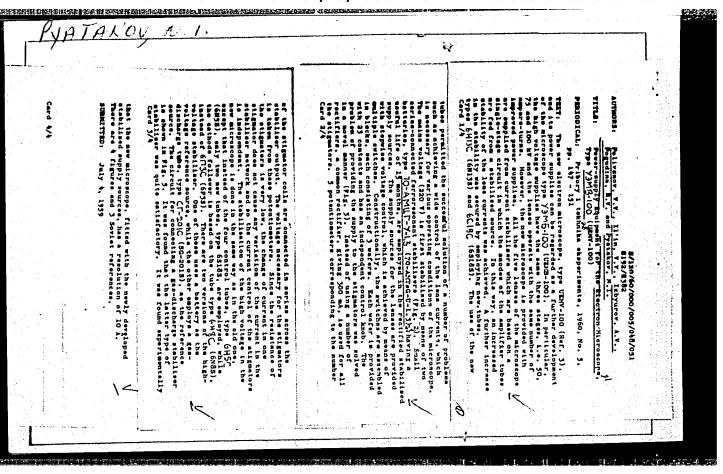
FYATAKOVA, L.L., insh.; ZHIZHAKIWA, O.D.

Riffect of boron on grain size in steel. Metalloved, i obr. met.

(MIRA 11:5)

(Boron steel) (Metals, Rifect of temperature on)

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343720010-0



SOV/126-6-2-23/34

AUTHORS:

Pyatakova, L. L. and Gol'dshteyn, Ya. Ye.

TITLE:

Influence of the Character of the Interaction of

Aluminium, Nitrogen, Boron and Titanium on Certain Properties of Steel (Vliyaniye kharaktera vzaimodeystviya

alyuminiya, azota, bora i titana na nekotoryye

svoystva stali)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 2,

pp 347-353 (USSR)

ABSTRACT: The aim of the work described in this paper was to establish in the first approximation the character of the interaction in steel of boron, nitrogen and aluminium and the influence of their interactions on the properties of medium alloy steel. The influence was investigated of the sequence of introduction into the liquid steel of nitrogen and boron on the character of their interactions and thus on certain properties of boron-containing steels. The range of useful application of titanium in such steels is outlined. For the experiments two basic and one reference group of castings were made; the metal was smelted in a 50 kg electric furnace with an acidic bottom. Prior to tapping the metal was deoxidised with aluminium.

Each variant of the castings was produced by the

SOV/126-6-2-23/34 Influence of the Character of the Interaction of Aluminium, Nitrogen, Boron and Titanium on Certain Properties of Steel

fractional method. Enrichment of the steel with nitrogen was effected by introducing chemically pure sodium cyanide (in sealed iron capsules) into the liquid metal. The metal for producing the first group of castings was prepared in such a way that the boron was added to the nitrogen-enriched steel, whilst the castings of the second group were produced from metal into which nitrogen (NaCN) was added after the final deoxidation of the steel and after the boron has been introduced. The boron was introduced in the form of a 6% ferroboral. The third, reference group, of castings was cast in the same way as the second group. The chemical compositions of the investigated steels and the sequence of introducing nitrogen and boron are entered in Table 1, p 348. In Figs. 1 and 2 the influence on the hardenability of the "Steel 30" of boron and nitrogen additions is graphed; in Fig. 5 the influence of nitriding on the hardenability of the boron-containing steel 45R is graphed. In Figs. 3 and 4 micro-structure photographs are reproduced. Fig.6 shows fractures of the Steel 45R after over-heating at 1275 C

Card 2/4

SOV/126-6-2-23/34

Influence of the Character of the Interaction of Aluminium, Nitrogen, Euron and Titanium on Certain Properties of Steel

and subsequent heat treatment. The impact strength values are entered in Table 2, p 349. On the basis of the obtained results the following conclusions are arrived at:

- 1. The combined influence of boron, aluminium and nitrogen on the properties of the steel depends to a considerable extent on the sequence of their introduction into the steel.
- 2. The established dependence of the influence of boron, aluminium and nitrogen on the sequence of their introduction into the steel is due to differing mechanisms of their interaction.
- 3. On introducing boron into liquid steel after deoxidation with aluminium, boron nitrides no longer form (or form in insignificant quantities), since the nitrogen which is dissolved in the steel is combined in stable aluminium nitrides; this ensures that the boron is maintained in the solid solution and explains its influence on the properties of the steel.

Card 3/4 4. On introducing or absorbing nitrogen in boron-

SOV/126-6-2-23/34

Influence of the Character of the Interaction of Aluminium, Nitrogen, Boron and Titanium on Certain Properties of Steel

containing steel a partial or a total removal of the boron from the solid solution takes place due to the preferential formation of nitrides (carbonitrides). 5. The lower inclination to over-heating of boroncontaining steel in presence of titanium can be explained for the first stage of over-heating by the fact that the titanium carbides are braking the growth of the austenite grain, and for the range of high temperatures by the fact that it influences the boron distribution in the boundary zones.

There are 6 figures, 2 tables and 18 references, 9 of which are Soviet, 8 English, 1 German.

ASSOCIATION: Chelyabinskiy traktornyy zavod, Chelyabinskiy politekhnicheskiy institut (Chelyabinsk Tractor Works,

Chelyabinsk Polytechnical Institute)

SUBMITTED: November 28, 1956

Card 4/4 1. Steel--Properties 2. Aluminum--Metallurgical effects 3. Boron--Metallurgical effects 4. Nitrogen--Metallurgical effects 5. Titanium--Metallurgical effects

S/277/63/000/001/007/017 A052/A126

AUTHORS:

Lyakhovich, L. S., Pyatakova, L. L.

TITLE:

Some specific effects of boron on structural steel properties

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk, 48. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin, no. 1, 1963, 7, abstract 1.48.53 (In collection: "Novoye v metalloved. i tekhnol.

term. cbrabotki stali". Chelyabinsk, 1962, 48 - 95)

TEXT: The effect of B on annealability, austenite grain size and the tendency of steel to overheating was studied. It is pointed out that microalloying with B raises the annealability of structural steel. B can be used as a substitute for a number of alloying elements and also for improving the properties of carbon or low-alloy steel grades in a low-tempered state. When using B-containing steels it is necessary to take into account the negative effect of B on steel properties (tendency to grain growth, overheating, stony fracture, reduction of notch toughness, etc.). There are 32 references.

[Abstracter's note: Complete translation]

Card 1/1

s/137/63/000/001/014/019 A006/A101

AUTHORS:

Pyatakova, L. L., Iskhakov, S. S., Shitov, A. P., Miroshnikova,

K. Ye.

TITLE:

On the mechanism of the effect of some elements upon the properties

of carburized steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1963, 50, abstract 11283

(In collection: "Novoye v metalloved. i tekhnol. term. obrabotki

stali", Chelyabinsk, 1962, 7 - 23)

The authors investigated the Si-Mn steel system containing in %: C 0.15 - 0.24, Si 0.80 - 1.30, Mn 1.5 - 2.00 with admixtures of V, Cu, W, B, Ti, Cr and Mo. The steel is intended for the production of gears. The effect of alloying elements upon martensite transformation was studied. Ms is most strongly reduced by Mn and Cr; less by Ni, V, Mo, and is almost not reduced by Si and Cu. Due to alloying with Si (1.0 - 1.3%) it is possible to prevent, during carburizing, oversaturation of the surface C layer and to obtain a necessary depth of the carburized layer at an optimum C content (0.85 - 0.9%). Si-Mn

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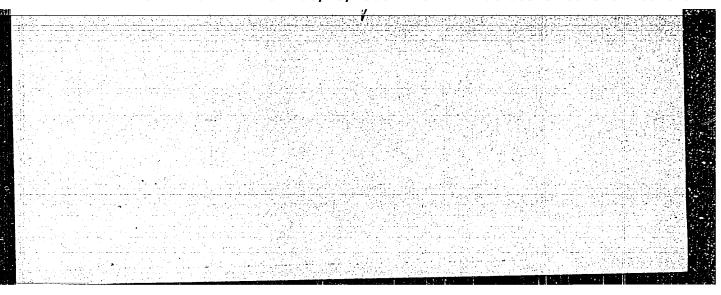
S/137/63/000/001/014/019 A006/A101

steels have a martensite transformation temperature as high as 300 to 365° C. Admixtures of Mo, V, Cr (0.5 - 0.7%) or B (0.001 - 0.002%) to Si-Mn steel secure high roasting ability and satisfactory properties on large-size parts, up to 100 mm in diameter. Si-Mn steels have σ_b 132 - 167 kg/mm², σ_s 122 - 145 kg/mm², δ 10 - 15%, ψ 53.5 - 66.6%, a_k 10.3 - 13.8 kgm/cm²; grain size is 2.9 - 3.2. Additional alloying of the steel with V, Cu and Mo prevents grain growth, strengthens the grain boundaries and increases roasting ability. Alloying affects the failure resistance of the steel due to its increased ductility (in martensite state). Grade 17CΓ2 M (17SG2M) steel, developed on the basis of the investigations, offers high fatigue contact and operational strength. The use of this steel instead of 12X2H4 (12Kh2NCh) steel yields savings of about 70 rubles per 1 ton. There are 12 references.

L. Koblikova

[Abstracter's note: Complete translation]

Card 2/2



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	Properties (Steel	of 45 stee: -Testing)	l with bo	ren. Stal' (Boren)	17 no.5:149	452 My 157. (MIRA 10:6)	

PHASE I BOOK EXPLOITATION

sov/1703

_3(3)

Gol'dshteyn, Ya.Ye., Candidate of Technical Sciences, L.S. Lyakhovich, Candidate of Technical Sciences, L.L. Pyatakova, Engineer, and G.M. Trusenev, Engineer

Mikrolegirovaniye stali 45 dobavkoy bora (Boron Additives for Microalloying of 45 Steel) Moscow, AN SSSR, 1956. 13 p. (Series: Informatsiya o nauchno-issledovatel'skikh rabotakh. Tema 1, no.I-56-217) 870 copies printed.

Sponsoring Agencies: USSR. Gosudarstvennyy komitet po novoy tekhnike, and Akademiya nauk SSSR. Institut nauchnoy i tekhnicheskoy informatsii. Filial.

Exec. Ed.: A.I. Okuneva, Engineer; Ed.: L.M. Gopman, Engineer; Tech. Ed.: V.A Ponomarev.

PURPOSE: This book is intended for scientists and engineers working in the field of metallurgy.

Card 1/2

Boron Additives for Microalloying (Cont.) SOV/1703 COVERAGE: The booklet gives the results of an investigation of the properties of boron-containing 45R steel developed by the Central Laboratory of the Chelyabinsk Tractor Plant in cooperation with the Department of Metallurgy of the Chelyabinsk Polytechnical Institute. At present, this steel finds wide application in the manufacture of critical parts of S-80 tractors. Active participation in the investigations was taken by TsNIIChERMET (Central Scientific Research Institute of Ferrous Metallurgy), and this organization was responsible for introducing 45R steel to industry. There are 5 references, of which 3 are Soviet and 2 English. TABLE OF CONTENTS: None given. This book is divided into the five following sections: Composition of the Steel (1)4 (2) Hardenability (3) Mechanical Properties 5 8 Characteristics of Quenching Crankshafts of 45R Steel by Means of High Frequency (5) Conclusion 14 AVAILABLE: Library of Congress Card 2/2 GO/ad 6-18-59

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129-58-5-8/17

AUTHORS: Pyatakova, L. L., Engineer and Zhizhakina, O. D.

TITLE: On the Influence of Boron on the Grain Size of Steel (K voprosu vliyaniya bora na velichinu zerna stali)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 5,

pp 27-30 + 2 plates (USSR)

ABSTRACT: Most authors arrive at the conclusion that the addition of 0.001 to 0.005% boron increases the effective size of the austenite grain and increases its tendency to growth. Vinarov, S.M. (Ref.3) points out the variable influence of various quantities of boron on the grain size. Corbett, R. and Williams, A. (Iron Age, No.15,1945) expressed the view that addition of boron does not bring about increase in the size of the austenite grain. Very little is published in literature on the influence of boron and of the conditions of preliminary decaidation on the dimensions of the austenite grain. Kafedra Metallovedeniya ChPI (Metallurgy Chair of ChPI) and Tsentral naya Laboratoriya ChKZ (Central Laboratory of the ChKZ) carried out studies of the influence of various quantities of boron and of preliminary decaidation with ferrotitanium on the size of the austenite grain which is obtained in the case of heating of boron containing steel.

On the Influence of Boron on the Grain Size of Steel 129-58-5-8/17

A melt of the steel L35 (Ref.5) micro-alloyed with boron has been cast and investigated. The smelting was done in a 6 ton electric arc furnace with an acidic bottom. The influence of boron additions on the austenite grain size was studied during fractional casting of nelts with various quantities of boron. After reaching the desired chemical composition the metal was tapped into a 5.5 ton ladle. After tapping off the slag, aluminium (0.8 kg per ton) and 18% ferrotitanium (2 kg per ton of metal) were introduced. From the large ladle the metal was poured into a smaller casting ladle of 600 kg, at the bottom of which ferroporal was placed containing 6.75% B, 4.85% Si, 5.48% Al, 0.06% C, 0.044% S, rest Fe. Prior to introducing boron into the metal in the small ladle. additional deoxidation was effected using 1 kg of aluminium per 1 ton of metal. From the small ladle ingots weighing 60 kg were cast. The chemical composition of one of the investigated melts is entered in Table 1. Details are also given of the tests relating to the influence of preliminary deoxidation of boron containing steels with

Card 2/3 ferrotitanium on the grain size of the austenite. The

On the Influence of Boron on the Grain Size of Steel 129-58-5-3/17

results confirm the great influence of micro-additions of boron on the growth of the grain size during heating of cast and forged steel. The temperature of the beginning of an appreciable growth of the austenite grain during heating of boron containing steel can be increased by preliminary deoxidation and degasification of steel by The results confirm that means of ferrotitanium. deformation in the hot state has an influence of lowering the temperature threshold of the growth of the austenite grain. The experiments have shown that a non-uniformity in the grain size is a characteristic feature of boron containing steels, particularly in the as-cast state and this is attributed to the non-uniform distribution of small quantities of boron along the grain boundaries. If it is necessary to ensure a fine grain structure, boron containing steel should contain residual titanium to be introduced after deoxidation with aluminium. There are 4 figures, 2 tables and 6 references, 3 of which are Soviet and 3 English

AVAILABLE: Library of Congress. Card 3/3

1. Grains (Metallurgy)-Effects of boron 2. Austenitic steel-Metallurgy 3. Boron-Metallurgical effects

PYATAKINA, 2.2.

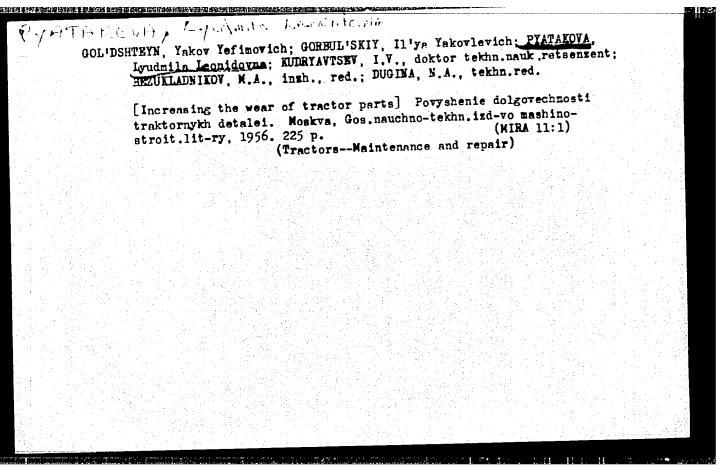
GOL'DSHTEYN, Yn.Ye., kand.tekhn.nauk; LYAKHOVICH, L.S., kand.tekhn.nauk;

PYATAKOVA, L.L., inzh.; TRUSENEV, G.M., inzh.; OKUMEVA, A.I.,

inzh., vedushchiy red.; GOPMAN, L.M., inzh., red.; PONCMAREV, tekhn.red.

[Boron additives for microalloying of 45 steel] Mikrolegirovanie stali 45 dobavkoi bora. Moskva, Filial Vses.in-ta nauchnoi i tekhn. inform.. 1956. 13 p. (Informatsiia o nauchno-issledovatel'skikh rabotakh. Tema 1, no.I-56-217)

(Boron steel)



ALEKSEYEV, Ye.T.; APENCHENKO, S.S.; BASOV, A.P.; RAUSIN, A.F.; BERSHADSKIY, L.S.; VELLER, M.A.; GINZHURG L.·N.; GUSEV, S.A.; DANILOV, G.V.; DOLGIKH, M.S.; DRUZHINIW, N.N.; YEFIMOV, V.S.; ZAVADSKIY, N.V.; IVASHECHKIN, M.V.; KARAKIN, F.F.; KUZHMAN, G.I.; LOBANOV, S.P.; MERKULOV, YA.V.; MIKODIMOV, P.I.; PANKRATOV, N.S.; PYATAKOV, L.V.; RODICHEV, A.F.; SMIRNOV, M.S.; STRUKOV, B.I.; SAVOCHKIN, S.M.; SAMSONOV, N.N.; SINITSYN, N.A.; SOLODOV, A.A.; SOLOPOV, S.G.; CHELYSHEV, S.G.; SHCHEPKIN, A.Ye.

Fedor Nikolaevich Krylov; obituary. Torf. prom. 35 no.6:32 '58. (MIRA 11:10) (Krylov, Fedor Nikolaevich, 1903-1958)

GRANITOV, I.I.; PYATAYAVA, A.D.

Harmony between organism and environment. Trudy TashGU no.187: 87-94 '61. (MIRA 15:3)

1. Tashkentskiy gosudarstvennyy universitet imeni Lenina. (Evolution)

PYATAYEV, A.D., inzh. po elektromekhanicheskomu oborudovaniyu

This prevents demage of the tachometer generator. Elek. 1
tepl. tiaga no.5:30 My '63. (MIRA 16:8)

1. Depo Ayaguz Kazakhsky dorogi.
(Diesel locomotives)
(Electric generators)

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Building hollow walls with adobe blocks. Sel'.etroi. 11 po.10:
17-18 0 '56. (MEMA 9:12)

1. Machal'nik stroyuchastka no.11 tresta "Dshaksystroy." (for Fystayer) 2. Prorab uchastka no.11 tresta "Dshaksystroy" (for Ostapchuk).

(Walls) (Building, Adobe)
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RAYKOVA, I.; PYATAYEVA, A., dotsent

Ippolit Ivanovich Granitov; on his 60th birthday. Uzb. biol. zhur. no.3:72 '60. (MIRA 13:7)

1. Chlen-korrespondent Akademii nauk UzSSR (for Raykova). (GRANITOV, IPPOLIT IVANOVICH, 1900-)

PYATAYEVA, A.D.; LINCHEVSKIY, I.A.

Cherry Tree- Tien Shan

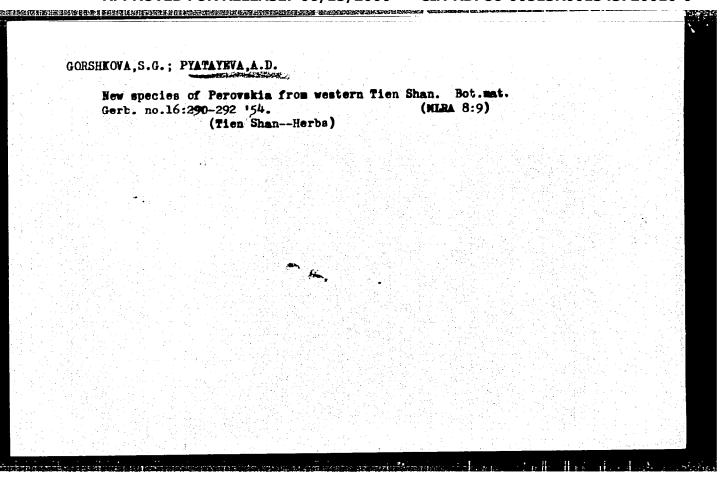
New species of small-fruited cherry tree from western Tien Shan. Bot. mat. Gerb. 14, 1951.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

SOVETKINA, M.M.[deceased]; PYATAYEVA, A.D.; ZAKHIDOV, T.Z., redaktor; KCROVIE, Ye.P., redaktor.

[Aristida as a source of fiber and its cultivation] Selin kak istechnik fibry i vvedenie ego v kul'turu. Tashkent, Isd.Srednessiatskogo gos. univ. 1952. 45 p. (Taskent. Universitet. Trudy Srednessiatskogo gosudarstvennogo universiteta, no.26, Biologicheskie nauki, no.11)
(MLRA 9:2)

1.Deystvitel'nyy chien AN USER (for Sakhidov, Korovin)
(Grasses)



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P4	HTAYEU	UH HIO	
	GRANITO	V. I.I.; 'FYATAYEVA, A.D. Vegetation, natural pastures, and meadows in Kasnka-Darya Province. (MIRA 11:4)	
		Izv. Uzb. fil. Geog. Ob-va 2:1) Province-Plants)	
		(Kashka-Darya ProvincePastures and meadows)	
		얼마님, 회약을 보이면 이름을 보는 어떤 이동을 들어 보고 있다.	
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GRANITO	V. I.I., PLANEIA A.D.	
	Main features of the vegetation cover of Kashka-Dar'ya Province. Trudy SAGU no.80:85-91 56. (Kashka-Dar'ya ProvincePhytogeography)	
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PYATAYEVA, A.D.; GRA	NITOV, I.I.			
On the natur 141-153 162	e of ephemerial plants.	Nauch, trudy	TashGU no.193: (MIRA 16:7)	
	(Soviet Central Asia-	Desert flora)		
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GUSHCHIN, P.O.; PYATAYEVR, A.D., dotsent, otv. red.

[Dynamics of the Gerelopment and morphology of cotton; juvenile period]. Dinamika rasvitiia i morfologiia khlopchatnika; iquenil'nyi period. Tashkent, Isd-vo Sam GU, 1962.
67 p. (Tashkent. Universitet. [Nauchnye trudy], no.196.
Biologicheskie nauki, no.39).

(Gotton)

PYATAYEVA, A.D.

Historical basis for the present state of Scorzonera tau-saghyz Lipschiz et Bosse in the mountains of Kara-Tau. Trudy TashGU no.187:42-46 '61. (MIRA 15:3)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I.Lenina. (Kara-Tau-Scorzonera)

PYATCHIN, N.F.

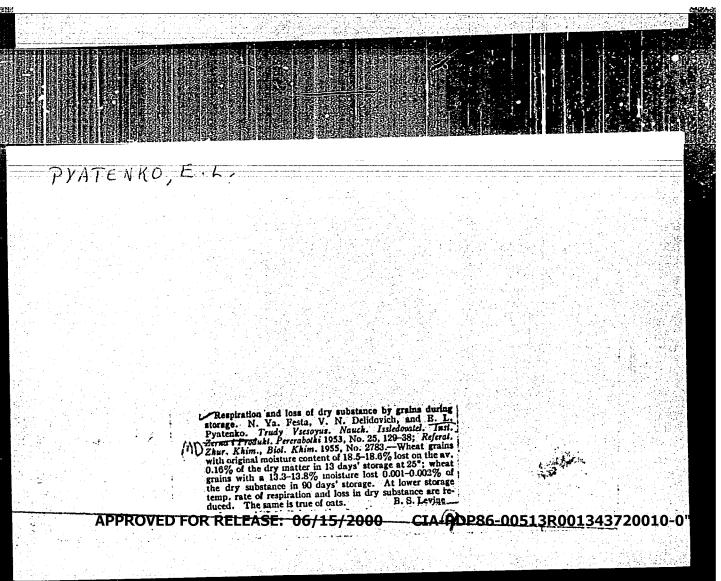
First results of regional seismic prospecting in the southern part of the Irkutsk amphitheater. Geol.nefti 2 no.9:64-67 S '58.

(HIRA 11:10)

1.Vostochno-Sibirskiy neftyanoy institut geofizicheskikh metodov razvedki.

(Irkutsk Province--Prospecting--Geophysical methods)

(Seismic waves)



PYATENKO, V., polkovnik

Were the hopes of the readers justified? Voen. vest 42 no.2:124-127
F '163. (MIRA 17:2)

PYATENKO, V., polkovnik; SHISHOV, V., podpolkovnik; OLESHKO, S., mayor

Solution for the problem published in No.7 of "Voennyi Vestnik."

Veon. vest. 40 no.11:22 N '60."

(MIRA 14:11)

(Tactics—Problems, vercises, etc.)

MYASNIAOV, L.A., kand.med.nauk; PYATENKO, V.I.

Effect of anticoagulants on the blood lipid level in coronary atherosclerosis. Sov.med. 25 no.7:31-35 Jl '61. (MIRA 15:1)

1. Iz gospital 'noy terapevticheskoy kliniki (dir. - prof. P.Ye. Lukomskiy) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova. (CORONANY HEART DISEASE) (LIPIDS)

(ANTICOAGULANTS (MEDICINE))

MYASNIKOV, L. A., kand. med. nauk; PYATENKO, V. I.

Thyrotoxicosis and atherosclerosis. Terap. arkh. 34 no.4:57-61 (MIRA 15:6)

1. Iz gospital'noy terapevticheskoy kliniki (dir. - prof. P. Ye. Lukomskiy) II Moskovskogo meditsinskogo instituta imeni N. I. Pirogova.

(HYPERTHYROIDISM) (ARTERIOSCLEROSIS)

L 14159-66 EWT(m)

ACC NR: AP6001313

SOURCE CODE: UR/0248/65/000/009/0026/0032

AUTHOR: Tsarapkin, L. S.; Poryadkova, N. A.; Labzina, N. G.; Alekseyeva, S. I.; Pyatenko, V. S.

ORG: <u>Institute of Medical Radiology</u>, <u>AMN SSSR</u>, <u>Obninsk</u> (Institut meditsinskoy radiologii AMN SSSR)

TITLE: A study of the processes of cell restoration after primary cytogenetic injuries

SOURCE: AMN SSSR. Vestnik, no. 9, 1965, 26-32

TOPIC TAGS: radiation damage, cytology, ionizing radiation, radioprotective agent, mitosis

ABSTRACT: Irradiation induces potential injuries in chromosomes that are capable of restoration. Irreparable injuries take place at the time of chromosome reduplication. The nature--conservative (impaired) or semiconservative (normal)--of the chromosome aberrations varies with the type of fracture undergone by the chromatids in reduplication of the chromosomes. The type of chromosomes formed after redupli-

UDC: 612.014.482.4 : [612.014.24 : 612.6.03

Card 1/2

L 14159-66

ACC NR: AP6001313

cation depends on a number of conditions, e.g., the irradiation dose. The conservative type of chromosome formation is a reversible phenomenon and the transition to the normal, semiconservative type occurs mainly during the first mitosis after irradiation. The results of tests of five groups of chemical compounds for their radioprotective or radiosensitizing effect on pea seeds and shoots are briefly described and tabulated. Most of the agents were able to accelerate or inhibit the spontaneous processes of cell restoration when used after irradiation. The authors also tested the effect of various concentrations of oxidized oleic acid on unirradiated and irradiated cells of Ehrlich's ascites carcinoma. In unirradiated cells, an increase in the concentration of the acid up to a certain point, increased the number of cells with chromosome aberrations. Irradiated cells also exhibited a relationship between the effect and the concentration of the acid. Orig. art. has: 2 figures, 3 tables.

SUB CODE: 06/ SUBM DATE: 05Jun65/ ORIG REF: 004/ OTH REF: 013

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13a~135 '64. (MIR. 17:7)
그런데 그 집에 대한 바람이 되는 이용 경기를 받았다. 그리는 이 교육에 되는 생각을 내려왔다. 그리고 말라고 말라고 있다. 그리고 있다. 그리고 그는 이 이번 바람이 작가되고 있을 수 있는 일반을 하지만 하고 선생님들이 이 기를 가져왔다.
그리다 그는 이 전 전쟁이 남아들과 회사를 받는 옷을 만드셨는데 사람 연고를 보지 그리를 받았다. 그는 그 아니라 나는
어떤 사람들이 어떤 생생님이 있어 그렇지 않는데 아름이 하셨다면 하지 않는데 하지 않는데 하지 않는데 하지 않는데 하는데 하는데 하는데 하는데 그렇게 되었다면 하는데
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그의 이번째 기가전화 경찰이 보여들의 대통령으로 하는 바로 중심을 되었는데 그 모습을 하는 것이다. [6]
공연 선생했다. 그 사이를 가는 아니는 이 사람들은 살아 있다는 그는 것을 느라는 다시다.
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PYATENKO, Yu.A.; PUDOVKINA, Z.V.

Metrics of CaZrTi₂O₇ crystal lattices. Kristallografiia 9 no.1:98-100 Ja-F 64. (MIRA 17:3)

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1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR.

PYATENKO, Yu.A.

Quantitative relations in structures deriving from the fluorite type. Zhur.strukt.khim. 4 no.5:708-713 S-0 '63. (MIRA 16:11)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov.

PYATENKO, Yu.A.; VORONKOV, A.A.

Formula of gagarinite. Zhur.strukt.khim. 3 no.6:720-721 '62.

(MIRA 15:12)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh
elementov.

(Minerals) (Crystallography)

VORONKOV, A.A.; SHUMYATSKAYA, N.G.; PYATENKO, Yu.A.

Crystalline structure of gagarinite. Zhur.strukt.khim. 3
no.6:691-698 62. (MIRA 15:12)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov.

(Minerals) (X-ray crystallography)

KOGAN, B.I.; KAL'ZHANOVA, Ye.G.; SAL'TINA, L.V.; SOLODOV, N.A.;

DMITRIYEVA, O.P.; Prinimali uchastiye: UKHANOVA, N.I.;

PERVUKHINA, A.Ye.; KAZANTSEVA, V.G.; ULANOVSKAYA, V.D.;

VLASOV, K.A., glav. red.; LIZUNOV, N.V., otv. red.;

PYATENKO, Yu.A., otv. red.; SALTYKOVA, V.S., otv. red.;

SLEPNEV, Yu.S., otv. red.; FABRIKOVA, We.A., otv. red.

PODOSEK, V.A., red. izd-va; GOLUB', S.I., tekhn. red.

[Rare alkali metals (lithium, rubidium, and sesium); a bibliography on their geochemistry, mineralogy, crystal chemistry, geology, the analytic methods of their determination, and their economics]Redkie abchelochnye metally (litii, rubidii i tsezii); bibliografiia po geokhimii, mineralogii, kristallokhimii, geologii, analiticheskim metodam opredeleniia i ekonomike. Sost. B.I.Kogan i dr. Moskva, Izd-vo Akad. nauk SSSR, 1962. 327 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov. 2. Chlen-korrespondent Akademii nauk SSSR (for Vlasov).

(Bibliography-Alkali metals)

FYATENKO, YU A.

PYATERRO, UY. A. -- "The Crystallochemistry and Mineralogy of Chimlo-vite." Moscow Order of Lenin and Order of Labor Red Banner State U imeni M. V. Lomonosov. Geological Faculty. Moscow, 1955. (Dissertation for the Degree of Candidate in Geologicamineral-ogical Sciences)

50: Knizhnaya Letopis', No 1, 1956, pp 102-122, 124

yatenlo, ro. A.

USSR/ Physical Chemistry - Crystals

B-5

Abs Jour

: Referat Zhur - Khimiya, No 3, 1957, 7269

Author

: Pyatenko, Yu.A., Bokiy, G.B., and Belov, N.V.

Inst

Academy of Sciences USSR

Title

: Radiographic Investigation of the Structure of Chkalovite

Orig Pub

: Doll. AN SSSR, 1956, Vol 108, No 6, 1077-1080

Abstract :

Radiographic methods (X-ray goniometer and oscillation method, using Fe-K, Cu-K, and Mo-K, radiation) have been applied to the investigation of the structure of Chkalovite Na₂(BeSi₂O₆). The crystals are rhimbic (pseudotetragonal) with lattice parameters: a 21.1, b 21.1, c 6.87A, (exper.) 2.66, Z = 24.; the space group notation is F2dd. The structure was determined by the interpretation of the P(uw) and P(vw) projections and cross-sections P(uvO) and P(uv $\frac{1}{4}$) (assuming the structure to be analogous to $\frac{1}{100}$ -cristobalite and using crystal structure analysis); the results were refined by the

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application of successive approximations in carrying out a Fourier analysis. The structure of chkalovite appears to be derived from that of 5-cristobalite. The filling of 2/3 of the total number of Lavsov polyhedra by Na atoms and the substitution of 1/3 of the Si atoms by Be atoms lead to a tripling of the a and b periods in chkalovite compared with the edge lengths of 5-cristobalite. This leads to a small displacement of the atomic coordinates from their ideal positions.

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- 39 -

VORONKOV, A.A.; PYATENKO, Yu.A.

Crystal structure of vlassovite. Kristallografiia 6 no.6:937-943 N-D '61. (MIRA 14:12)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov.

(Silicates) (Crystallography)

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PUDOVKINA, Z.V.; PYATENKO, Yu.A.

Crystal structure of non-metamict orthite. Dokl. AN SSSR 153 no.3:695-698 N '63. (MIRA 17:1)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR. Predstavleno akademikom N.V. Belovym.

PYATEKO, Yu.A.; PUDOVKINA, Z.V.

Crystal structure of narsarsukite. aristallografiia 4 no.4:563-573
JI-Ag '60.

1. Institut mineralogi', geokhim'i i kristallokhimii radkikh elementov.

(Earsarsukite)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343720010-0"

BORODIN, L.S.; BYKOVA, A.V.; KAPITONOVA, T.A.; PYATENKO, Yu.A.

Recent data on zirconolite and its niobium variety. Dokl. AN SSSR 134 no.5:1188-1191 0 60. (NIRA 13:10)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov Akademii nauk SSSR. Predstavleno akademikom N.V.Belovym.

(Afrikanda Zegion--Zirconolite)

(Aldan Plateau--Zirconolite)

PYATENKO, Yu.A.

Normal and defective structures of the pyrochlore type. Zhur.

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov.

strukt.khim. 2 no.5:591-596 S-0 '61. (MIRA 14:11)

(Pyrochlore)

(Crystallography)

PYATENKO, Yu.A.; VORONKOV, A.A.

Vlasovite, a zirconium silicate with a new type of silicon-oxygen radical. Dokl. AN SSSR 141 no.4:958-961 D '61. (MIRA 14:11)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR. Predstavleno akademikom N.V. Belovym.

(Lovozero tundras—Zirconium silicates)

(Minerals)

ALEKSANDROV, V.B.; PYATENKO, Yu.A.

Roentgenometric examination of metamict titanium niobates. Dokl.

AN SSSR 124 no.1:179 Ja '59. (MIRA 12:1)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR. Predstavleno akademikom N.V. Belovym. (Euxenite) (Polycrase) (Betafite)

3(8) AUTHORS:

sov/20-124-1-51/69 Aleksandrov, V. B., Pyatenko, Yu. A.

TITLE:

X-Ray Examination of Some Metamict Titano-Niobates (Rentgenometricheskoye issledovaniye nekotorykh metamiktnykh

titanoniobatov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1, pp 179-182

(USSR)

ABSTRACT:

Among the complex oxides of Y, TR, Ti, Nb and Ta, two isomorphic series of rhombic minerals can at present be designated: a. the euxenite-polycrase series and b. the priorite-blomstrandine series. The two series have a very closely related chemical composition, which, however, is often hidden by the large compositional deviation of particular members. The formula AB2X6 expresses the composition, where A - Y and TR as well as Th, U and Ca; B - Nb, Ti and Ta; X - 0 and OH. The position of the mineral in the series is determined by the components of B. The primary basis for distinguishing the minerals of this series, aside from a few significant chemical differences, is the morphological characteristic (Ref 1). The possibility of membership in an isomorphic series for these minerals is contended in

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X-Ray Examination of Some Metamict Titano-Niobates

SOV/20-124-1-51/69

the literature. This contention instigated the authors' X-ray studies of these minerals. For this purpose, 18 samples were used (from the Mineralogy Museum, AS USSR, the Moskovskiy geologorazvedochnyy institut = Moscow Geologic Prospecting Institute, and the authors' own collection). The place of single minerals in this or that series was verified. All the samples showed a completely similar diffraction pattern with the exception of an isometric phase (of the CaF2 structural type or its derivatives) derived by roasting metamict euxenite, poly and blomstrandine at 1100°. The complete reflection which the pattern showed was well indexed on the basis of the rhombic cell. The parameters for these samples are given in Table 1. The results of this study confirm earlier conclusions in regard to the restoration of the original structure of euxenite by roasting at 1100° (Ref 4). Thus the lines of the rhombic phase found in samples roasted at 11000 are characteristic of the minerals concerned. The rhombic phase itself corresponds to the structure up to the metamict breakdown. The unity of structure and of chemical composition signifies that all the studied minerals belong in the same isomorphic series. On the basis of priority, the names euxenite and poly were kept for the whole series. The X-ray diagram of samples roasted for one hour

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X-Ray Examination of Some Metamict Titano-Niobates

sov/20-124-1-51/69

is a reliable diagnostic means for determining the minerals in question. There are 1 table and 5 references, 1 of which

is Soviet.

ASSOCIATION: Institut mineralogii, geokhimii i kristallokhimii redkikh

elementov Akademii nauk SSSR

(Institute for Mineralogy, Geochemistry, and Crystallochemistry

of Rare Elements, Academy of Sciences, USSR)

PRESENTED: July 30, 1958, by N. V. Belov, Academician

SUBMITTED: July 30, 1958

Card 3/3

IVANOV, V.V.; PYATENKO, Yu.A.

About the so-called kësterite. Zap.Vses.min.ob-va 88 no.2:
165-168 '59.

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR, Moskva.

(Stannite)

Pyatenko, Yu.A. and Aleksandrov, V.B. 4-2-23/36 AUTHORS:

On the Recrystallisation Texture of a Metamict Mineral (O teksture rekristallizatsii metamiktnogo minerala) TITLE:

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 2, pp 248 - 249

+ 1 plate (USSR)

It was found that certain specimens of one of the Y(Ti,Nb)2(0,0H)6, both those with faces ABSTRACT:

polycrases, and those without, gave, after annealing at 500° Laue

photographs with sharp spots. This is unusual as attempts

to re-establish the monocrystallinity of a metamict mineral usually fail. The sharp spots here, however, are

due not to a single crystal but to an axial recrystallisation texture. This was confirmed by the lack of change when the specimen was rotated about the texture axis, here perpendicular to the beam. Lauegrams show the symmetry Cl (line symmetry perpendicular to the texture axis).

The texture axis must coincide with one special direction of the crystallites. The texture axis was measured as

 $t_1 = 5.50$ and $t_2 = 5.1$ kX in agreement with the cell

Card1/2

On the Rocrystallisation Texture of a Motamict Mineral

dimensions — a = 5.55, b = 14.62, c = 5.19 kX of the orthorhombic cell of polycrase obtained by indexing the powder photograph. In this way it was confirmed that it is in principle possible to index the X-ray diagrams of annealed specimens of the euxinite — polycrase series using the morphological values of a:b:c as annealing (at 1100) re-establishes their former structure. Texture formation is seen as one of the stages passed through by minerals in metamict breakdown. There are 3 figures and 2 references, 1 of which is Soviet and 1 English.

ASSOCIATION: Institut mineralogii, geokhimii i kristallokhimii redkikh elementov (Institute of the Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements)

SUBMITTED: August 29, 1958

Card 2/2

PYATENKO, Yu.A.; PUDOVKINA, Z.V.

Crystalline structure of calcium zirconium titanate - a new derivative of the structural type CaF2 - CeO2. Kristallografiia 6 no.2:196-199 Mr-Ap *61.

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov.

(X-ray crystallography) (Calcium zirconium titanate)

24.7100

77125 SOV/70-4-6-26/31

AUTHORS:

Pyatenko, Yu. A., Pudovkina, Z. V.

TITLE:

Concerning the Crystal Structure of Narsarsukite.

Brief Communications

PERIODICAL:

Kristallografiya, 1959, Vol 4, Nr 6, p 929 (USSR)

ABSTRACT:

The structural study of Na₂(Ti,Fe)(0,OH) [Si₄0₁₀]

crystals by X-ray diffraction methods confirmed their tetragonal symmetry, a = 10.72 A, c = 7.99 A, and 4 molecular weights per unit cell. The space group proved to be I 4/m. Determination of the atomic coordinates and precision of the 14 parameters (by interatomic vector synthesis and electron density analysis) is still in process. The structure as a whole is formed of two types of chains. (Ti,Fe) atoms, each developed by 6 0 atoms which form an octahedron, are linked into infinite chains along the fourfold rotor. The (Ti,Fe)06 octahedra are linked laterally by rings of 4 tetrahedrally coordinated Si atoms. One

Card 1/2

Concerning the Crystal Structure of Narsarsukite. Brief Communications 77125 SOV/70-4-6-26/31

vertex of each two opposite tetrahedra in the ring is up and of the two others down, and the O atoms at these vertices, being shared by the rings above and below, link the rings into infinite quadruple chains along the same fourfold rotor. The spaces between the two types of chains are occupied by Na atoms situated at two different positions. In both positions Na atoms are in body centers of trigonal prisms formed by the adjacent O atoms. There is 1 figure; and 2 references, 1 German, 1 U.S. The U.S. reference is: B. E. Warren, C. R. Amberg, Am. Miner., 19, 546, 1934.

ASSOCIATION: Institute of Mineralogy, Geochemistry, and Crystal Chemistry of Rare Elements (Institut mineralogii, geokhimii i kristallokhimii redkikh elementov)

SUBMITTED:

September 25, 1959

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PYATENKO, Yu. A

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Akademiya nauk SSSR. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov

Voprosy mineralogii, geokhimii i genezisa mestorozhdeniy redkikh elementov (Problems in Mineralogy, Geochemistry, and Deposit Formation of Rare Elements) Moscow, Izd-vo All SSSR, 1960. 253 p. (Geries: Its: Trudy, vyp. 4) Errata printed on the inside of back cover. 2,200 copies printed.

Chief Ed.: K. A. Vlasov, Corresponding Hember, Academy of Sciences USSR; Resp. Ed.: V. V. Lyakhovich; Ed. of Publishing House: L. S. Tarasov; Tech. Ed.: P. S. Kashina.

PURPOSE: This book is intended for geologists, mineralogists, and petrographers.

COVERAGE: This is a collection of 25 articles on the formation, geology, mineralogy, petrography, and geochemistry of deposits of rare elements in Siteria and [Soviet] Central Asia. The distribution and characteristics of rare elements found in these areas as well as some quantitative and qualitative methods of investigating the rocks and minerals in which they are found,

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Problems in Mineralogy (Cont.)		
or with which they are essociated, are discussed. Two articles present an ecinvestigation of the possibilities of industrial extraction and utilization of celenium, tellurium, and hafnium. No personalities are mentioned. Each article accompanied by references.	-	
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S/192/61/002/006/003/004 D228/D304

AUTHOR:

Fyatenko, Yu. A.

TITLE:

Structures derived from the cubic type CaF2- CeO2 Zhurnal strukturnoy khimii, v. 2, no. 6, 1961,

746-748

PERIODICAL:

The author discusses certain structures derived from the cubic type CaF₂- CeO₂, a problem, whose conception was somewhat augmented by his discovery in previous research of the mineral calcirtite-Ca $_2$ Zr $_5$ Ti $_2$ O $_1$ 6. According to N. V. Belov the general formula for this type of derived structure is M_4 X $_8$ -x; the derivatives include pyrochlore-type minerals with an equal number of cubes and octahedra when x = 1, and Sb_2O_3 , As_2O_3 , Y_2O_3 , and other structures, in which octahedral forms are solely developed, when x = 2. Calcirtite, however, has a tetragonal symmetry and is the first

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Structures derived from ...

non-cubic representative of this class. It forms cubes, octahedra, and heptahedra (Abstractor's note: Literally "hepta-apices"), which are respectively occupied by all the Ca atoms, all the Ti atoms, and 4/5 of the atoms. The essential features of the derived structures examined by the author include: The preservation of the three-dimensional staggered sequence in the distribution of the Pauling polyhedra; the equivalence in the number of filled and vacant polyhedra; the deformation of the ideal cubic packing of the anions which, however, does not alter the cation coordination-numbers; the tendency for the ratio p of the number of cations to bers; the tendency for the ratio p of the number of cations to anions to lie within the limits 1/2 & p 42/3; and the relatively high valency of the cations. A new formula-(M:M"...)4X7, and not $A_2B_2X_7$ is proposed to explain the formation of a particular derived structure. All Pauling octahedra are empty in the new structure, the number of occupied cubes and heptahedra amounting to 8 and 64 respectively. Such a structure is considered to be character-

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Structures derived from ...

istic of those compounds containing an excess of 7-coordination Zr atoms and cations with a valency of < 4. The compound (Zr,Ca) $_4$ 0 $_{8-x}$, formed in calcinating ZrO2 in the presence of small quantities of CaO, may correspond to one of the theoretically possible structures. Hence, the stabilization of cubic ZrO2 represents the formation of an independent structure, only formally related to the fluoritecerianite type, to which the high-temperature modification of ZrO2 belongs. In conclusion the author notes that Ca2Zr2Ti2O16--the synthetic analog of calcirtite-has not been distinguished in the cubic-ZrO₂ region of structural diagrams for the system CaO-ZrO₂-TiO₂ in previous research. There are 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: A. E. Van Arkel, Physica 4, 286 publications read as follows: A. E. Wan Arkel, Eur. Standards 54: 4, (1924); L. W. Coughanow et al, J. Res. Mat. Eur. Standards 54: 4,

Card 3/4

S/192/61/002/006/003/004 D228/D304

Structures derived from ...

191 (1955).

Institut mineralogii, geokhimii i kristallokhimii redkikh elementov (Institute of the Mineralogy, Geochemistry, and Crystal-chemistry of Rare Elements) ASSOCIATION:

SUBMITTED:

August 5, 1961

Card 4/4

sov/70-4-2-10/36

Pyatenko, Yu.A. AUTHOR:

经过程的的 计多数目记录 计设备 网络加州特别 化双乙二甲基苯甲基基苯基甲基苯基甲基甲基苯基甲基苯基甲基

On the Crystal Chemistry and Certain Peculiarities of Minerals of the Pyrochlore Group (O kristallokhimii i TITLE:

nekotorykh osobennostyakh mineralov gruppy pirokhlora)

Kristallografiya, 1959, Vol 4, Nr 2, pp 204-208 (USSR)

ABSTRACT: Pyrochlore minerals are cubic with the general formula

A2B2X7, where A = Na, Ca, Th, U, TR2+ B = Nb, Ta, Ti and

X2=0, OH, F. A cations are sometimes deficient by (for example) replacement of 2Ca by U (primary deficit) or

02- by OH1- (secondary deficit). The metamict state is characteristic, one of the peculiarities leading to this state being anion defects. The structure is related

to that of fluorite, as are also the structures of CeO2,

ThO2 and UO2. Regarded as linked polyhedra fluorite is

made up (doubled cell) of 32 CaF₈ cubes linked by their edges. If some of the F (or 0) atoms are removed, half of all cubes are deprived of two opposite corners and thus turned into compressed octahedra; this gives the idealised

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sov/70-4-2-10/36

On the Crystal Chemistry and Certain Peculiarities of Minerals of the Pyrochlore Group

structure of pyrochlore. The symmetry becomes Fd3m instead of the Fm3m of fluorite. Each corner of any polyhedron belongs simultaneously to 3 polyhedra (a common point of two cubes and two octahedra ... the numbers of cubes and octahedra being equal). Hence, to a cation at the centre of a cube belong 1/4. 8 = 2 anions (X) and for a cation in an octahedron 1/4. 6 - 3/2 X. This gives for the whole structure a formula A_4X_7 or, differentiating between cubes and octahedra, A_2 cube B_2 7

In CaF₂ Paulings's rules on the local compensation of valency are fulfilled. Removing some of the cations leads to a different level of stability. Belov has shown the anion pattern of pyrochlore to be halfway between the all-cubes structure of CaF₂ and senarmonite-arsenolite where

all polyhedra are squashed octahedra. But pyrochlores need not be exactly halfway between these, depending on

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On the Crystal Chemistry and Certain Peculiarities of Minerals of the Pyrochlore Group

the O content. It is thought that there are usually more octahedra than cubes in pyrochlores. Removal of 0 disturbs the continuity of the close-packing of the anions. 2Ca⁺² Substitution of makes the structure still less stable. If there is U+4, Th+4 or TR+3 the minerals are often metamict. X-ray diffraction distinguishes various types of pyrochlores, particularly by the number of reflexions. Microlites and pyrochlores show most reflexions and are often non-metamict, pyrochlores giving a CaF2 type of pattern but with more reflexions. There is a somewhat closer resemblance to CeO2. As the relative scattering of the cations is large in comparison with the total scattering power in pyrochlore there is the peculiarity that all strong reflexions have even indices. Other reflexions indicate the degree of order in the structure. For full order the space group is Fd3m and for full disorder Fm3m . In X-ray photographs from many annealed metamict

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On the Crystal Chemistry and Certain Peculiarities of Minerals of the

minerals groups of lines with odd indices are weakened or even disappear and there is a transition to a smaller cell a = 5.1-5.2. This is observed sometimes on annealing orthorhombic metamict minerals (for example, euxenite). There are 2 figures and 5 Soviet references.

ASSOCIATION: Institut mineralogii, geokhimii i kristallokhimii redkikh elementov (Institute for the Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements)

SUBMITTED: October 6, 1958

Card 4/4

TIKHONENKOV, I.P.; KUKHARCHIK, M.V.; PYATENKO, Yu.A.

A STANCE TO BE A TO A STAN A DESCRIPTION OF THE PARTY OF THE PARTY OF THE

Wadeite from the Khibiny Massif and the conditions of its formation. Dokl. AN SSSR 134 no.4:920-923 0 60. (MIRA 13:9)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov Akademii nauk SSSR, Predstavleno akad. N.V.Belovym. (Khibiny Mountains--Wadeite)

PYATENKO, Yu.A.; PUDOVKINA, 2.V.

Crystal structure of narsarsukite. Kristallografiia 4 no.6:929
N-D '59. (MIRA 14:5)

1. Institut mineralogii, geokhimii i krisallokhimii redkikh
elementov. (Narsarsukite)

VORONKOV, A.A.; BATALIYEVA, N.G.; PYATENKO, Yu.A.

Crystalline structure of stilwellite. Kristallografiia 9 no.4: 553-554 J1-Ag 164. (MIRA 17:11)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR.

PYATENKO, Yu.A. Some aspects of the crystallochemical approach to the derivation of chemical formulas of minerals. Zap. Vses. min. ob-va 94 no.6:655-664 '65. (MIRA 18:12)

Isomorphism of atoms and some of its mineralogical consequences.

Geokhimiia no.4:414-420 Ap '65. (MEA 18:7)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov, Moskva.

RAL'TSEVICH, V., inzh.; PAVLOV, V., inzh.; PYATENKOV, V., inzh.; FUNSHTEYN, E., inzh.

Mechanized placement of concrete into mobile molds of round silos.

Muk.-elev. prom. 27 no.1:14-15 Ja '60. (MIRA 14:1)

1. Gosudarstvennyy institut Promzernoproyekt.
(Goncrete construction) (Grain elevators)

SHUKHMAN, Z.; SHTAMM, V.; SHLEYMOVICH, S.; KALMYKOV, P.; RAL'TSEVICH, V.;
PYATENKOV, V.; POTEMIN, I.; SOKRATOV, Yu.

There are all conditions for building strong and good elevators. Muk.—glev. prom. 29 no.8:18-19 Ag '63.

(MIRA 17:1)

1. Zamestitel' upravlyayushchego trestom TSentroelevatormel'stroy (for Shtamm). 2. Nachal'nik sektora organizatisi stroitel'nykh rabot Gosudarstvennogo instituta Promzernoproyekt (for Ral'tsevich). 3. Starshiy inzh. TSentral'nogo konstruktorskogo byuro tresta Spetselevatormel'montazh (for Potemin). 4. Zamestitel' nachal'nika proizvodstvennotekhnicheskogo otdeleniya tresta Petropavlovskelevatormel'stroy (for Sokratov).

POZIN, A.A.; TOKAREVA, T.Ye.; KCCHKIN, K.I.; PYATETSKAYA-SHAPIRO, I.P.

Mechanized method for the manufacture of warm rubber boots. Kauch.

1 rez. 24 no.4:32.35 Ap 65. (MIRA 18:5)

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1. Nauchno-issledovatel skiy institut rezinovykh i lateksnykh izdeliy.

	USSR.	
	200/116(NA) 621.919 + 621.94 Broaching Attachment on a Lathe Stanki i. Instrum. (5),24	
	May, 1954 B.G. Pyatetskiy The technological features and operational characteristics	
	of a broaching attachment used on the thread cutter 1162M are described. Broaching with this new attachment is carried	
	out at 120-150 rpm of the spindle, which corresponds to a linear rate of broaching of 0.96 - 1.2 m/min. The high productivity and the simplicity in the construction of the attachment open new usages for this device.	
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Execution of special kinds of lathe work. Tekhsov.MTS 15 no.3: (MLRA 7:2) (Turning)		KIY, B.							
		Execution of	special	kinds o	of lathe	work.	Tekhsov.MTS	(MARKA 7:2)	
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Piatetskiy, B.C., starshiy tekhnolog.

Pinal grimling of tempered cast iron. Sel'khozmashina mo.4:
3 of cover Ap '56. (MURA 9:7)

1.Moskovskiy missanicheskiy zaved Ministerstva sel'skege khozyaystva missa.
(Grinding and polishing)

Pyatetskiy,

AID P - 5199

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 21/24

Author

: Pyatetskiy, B. G.

Title

: Screwdriver for difficult-to-reach places

Periodical: Stan. i instr., 7, 44, J1 1956

: A screwdriver with two spring-blades is used at the Moscow Machine Plant for spots which are difficult to

reach. Two drawings.

Institution: As above

Submitted

No date

PYATHTSKIY, B.G.; ZELEHETSKAYA, L.V., red.; LEVINA, L.G., tekhn.red.

[Extending the use of lathes] Rasshirenie oblasti ispol'zovaniia tokarnykh stankov. Moskva, Izd-vo M-va sel'.khoz.RSFSA, 1960.

43 p. (Lathes)

(Lathes)

PYATETSKIY, Boris Grigor'yevich; ZELENETSKAYA, L.V., red.

[Handbook for the fitter in repair shops] Spravochnik slesaria remontnykh masterskikh. Moskva, Rossel'khozizdat, 1964. 287 p. (MIRA 18:2)

PYATETSKIY, Boris Grigor'yevich; ZELENETSKAYA, L.V., red.;
SHESHNEVA, E.A., tekhn. red.

[Manual for the lathe operator in a repair shop]
Spravochnik tokaria remontnoi masterskoi. 2. izd., perer.
i dop. Moskva, Izd-wo MSKh RSFSR, 1963. 247 p.
(MIRA 16:11)

(Turning)