

CHIPASHVILI, V.V.

Improving the methods for erecting the bearing walls of residential buildings of medium height. Trudy Inst. stroi.mekh. i seism. AN Gruz.  
SSR 9:77-88 '63. (MIRA 17:12)

BAKHTADZE, I.D.; CHIPASHVILI, V.V.

Organizing prefabricated house building in the Georgian S.S.R. Trudy  
Inst. stroi.mekh. i seism. AN Gruz. SSR 9:123-132 '63.

(MIRA 17:12)

E 0115-66 EWT(m)/EWP(w)/EPF(c)/EWA(d)/T/EWP(t) EWP(z) EWP(b)/EWA(c) IJP(c) JD  
ACCESSION NR: AP5019652 40 UR/0369/65/001/003/0289/0292  
36

AUTHOR: Grigor'yeva, G. M.; Namneva, O. G.; Nechay, Ye. P.; Popov, K. V.; Chip-  
cheyeva, E. A.

TITLE: Effect of temperature and straining speed on the mechanical properties of iron that has absorbed hydrogen from air atmosphere

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 3, 1965, 289-292

TOPIC TAGS: hydrogen absorption, armco iron, hydrogen absorbing metal, mechanical strength tensile test, straining speed, yield point

ABSTRACT: Corrosionless penetration of hydrogen into steel has been observed in steel equipment in contact with petroleum during drilling as well as in the equipment in contact with air during grinding. The source of hydrogen in such cases is presumably water vapors. In this connection, the authors observed a change in the hydrogen content of iron during its exposure to air following vacuum annealing.<sup>18</sup> A thorough investigation of this effect was carried out. The material investigated was armco iron in the form of flat specimens 50 mm long, 5 mm wide, die-stamped from a 1 mm thick sheet and vacuum-annealed at 930°C and cooled in a vacuum to room temperatures. The hydrogen content of the specimens was determined immediately after their removal from the vacuum furnace and at specific intervals of time following exposure to air. The findings (Fig. 1) show that in time the hydrogen content

Card 1/4

L 01115-66

ACCESSION NR: AP5019652

2

of the metal increases. The effect of the hydrogen absorbed from air on the mechanical properties of metal was investigated. To this end, tensile tests at strain rates of 60, 20, and 0.22 mm/min were performed in the temperature range of from +20 to -196°C. The hydrogen content of the tested specimens was approximately 3 ml/100 g. It was found that the position of the maximum yield point (i.e. the yield point higher than predicted by theory) depends on the rate of straining in the tensile tests: at rates of 20 and 60 mm/min it occurs at a temperature of about -120°C; as the speed decreases by two orders (0.22 mm/min) the maximum is displaced 20°C in the direction of low temperatures. The plasticity minimum shifts in the direction of low temperatures when the speeds of straining decrease, and thus it also changes nonmonotonically. In general, the mechanical properties of the metal that has absorbed hydrogen from the air atmosphere change in the same way as those of the metal that has absorbed hydrogen electrolytically, chemically, or through exposure in a hydrogen medium at high temperatures and pressures. However, in this case the stress-strain diagram has a certain distinguishing and previously not observed feature: double yield points, present for every investigated rate of straining, and attributable to the presence of hydrogen in the metal, which changes the normal course of dislocations. Orig. art. has: 4 figures, 1 table.

Card 2/4

L 01115-66

ACCESSION NR: AP5019652

ASSOCIATION: Institut nefte- i uglekhimicheskogo sinteza, Angarsk (Institute of  
Petro- and Coal-Chemical Synthesis) 2

SUBMITTED: 17Feb65

ENCL: 01

SUB CODE: MM

NR REF Sov: 006

OTHER: 007

Card 3/4

L 01715-66

ACCESSION NR: AP5019652

ENCLOSURE: 01

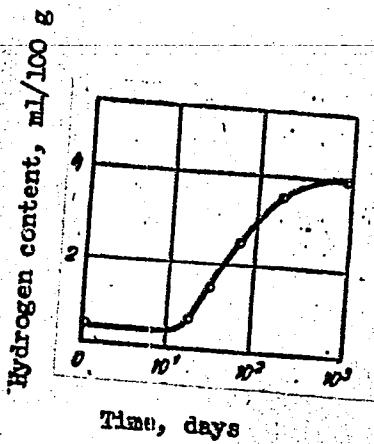


Fig. 1. Hydrogen content of iron as a function of the time of exposure to air atmosphere (circles on curve correspond to the arithmetic mean of 2-3 measurements).

Card 3/4

ACC NR: AP7004181

(A,N)

SOURCE CODE: UR/0369/66/002/006/0635/0636

AUTHOR: Nosyрева, Е. С.; Попов, К. В.; Чипчевева, Е. А.

ORG: Institute of Petro- and Coal-Chemical Synthesis, Angarsk (Institut nefto- i  
uglekhimicheskogo sinteza)

TITLE: Effect of manganese on proneness to hydrogen brittleness in steel

SOURCE: Fiziko-khimicheskaya mehanika materialov, v. 2, no. 6, 1966, 635-636

TOPIC TAGS: manganese, low carbon steel, hydrogen embrittlement, rupture strength

ABSTRACT: The absorption of atmospheric hydrogen by metal may in some cases involve anomalous changes in properties. This effect was investigated by means of tensile tests at from -100 to +20°C of notched specimens of two low-carbon steels, one containing 0.1% Mn and the other, 1.2% Mn, with hydrogen contents of 7 and 6 cc, respectively, per 100 g of metal. Findings: for the steel containing the minimal amount of manganese (0.1%) the variation in maximum breaking stress with temperature is anomalous: at from -80 to -60°C the maximum breaking stresses are lower than at the other temperatures. By contrast, the steel containing 1.2% Mn displays a monotonic increase in stresses with decrease in temperature. These findings indicate that the activity of hydrogen is in some manner suppressed by manganese. This phenomenon requires further investigation. Orig. art. has: 1 fig., 1 table.

SUB CODE: 13, 11/ SUBM DATE: 25Jan66/ ORIG REF: 004  
Card 1/1

CHIPCHIK, D.I., mladshiy nauchnyy sotrudnik (Kiyev 50, ul.Bozhenko, d.10,  
kv.7)

Changes of the spine in very old people. Ortop., travm. i protez.  
26 no.4:22-26 Ap '65. (MIRA 18:12)

1. Iz otseila vozrastnykh izmeneniy oporno-dvigatel'nogo appara  
(zav. - kand.med.nauk Ye.P.Podrushnyak) Instituta gerontologii  
AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. D.F.Chebotarev).

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2

CHUPCHIN, A., kapitan militsii

Stop, red light! Za rul. 21 no. 813 Ag '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2"

MEDNE, K.; GRINSHTEYN, V.[Grinsteins, V.]; CHIPEN, G.[Cipens, G.]

Study of the tuberculostatic activity of 1,2,4-triazole derivatives.  
Vestis Latv ak no.7:85-96 '61.

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(TRIAZOLE) (TUBERCULOSIS)

GRINSHTYN, V.[Grinsteins, V.]; MEDNE, K.; CHIPEN, G.[Cipens, G.]; VEVEZIS, A.

Tuberculosis activity of derivatives of aminoguanidine and diamino-guanidine and its correlation with chemical structure. Vestis Latv ak no.10:89-100 '61.

1. Akademiya nauk Latviyskoy SSR, Institut organicheskogo sinteza.

(GUANIDINE) (TUBERCULOSIS)

GRINSHTEIN, V. Ya.; CHIPEN, G.I.

Derivatives of aminoguanidines and their conversions. Part 1:  
Synthesis of acylaminoguanidines and 3-substituted 5-amino-1,  
2,4-triazoles. Zhur. ob. khim. 31 no.3:886-890 Mr '61.

1. Institut organicheskogo sinteza AN Latviyskoy SSR.  
(Guanidine) (Triazole) (MIRA 14:3)

~~CHIPEN, G.I.~~ [Cipens, G.]; GRINSHTEYN, V.Ya. [Grinsteins, V.];  
PREYMAN, R.P. [Preimans, R.]

Derivatives of aminoguanidine and their transformations.  
Part 2: Derivatives of nitroamino- and diaminoguanidines  
and their transformations. Zhur. ob. khim. 32 no. 2: 454-459  
F '62. (MIRA 15:2)

1. Institut organicheskogo sinteza AN Latviyskoy SSR.  
(Guanidine)

CHIPEN, G.I. [Cipens, G.]; GRINSHTEYN, V.Ya. [Grinsteins, V.]

Derivatives of aminoguanidine and their transformations.  
Part 3: Acyl and azomethine derivatives of aminotriazoles.  
Zhur.ob.khim. 32 no.2:460-464 F '62. (MIRA 15:2)

1. Institut organicheskogo sinteza AN Latviyskoy SSR.  
(Triazole)

CHIPEN, G.I. [Gipens, G.]; GRINSHTEYN, V.Ya. [Grinsteins, V.]

Derivatives of aminoguanidines and their transformations.  
Part 4: Derivatives of 1-alkyl-1-aminoguanidines and  
1-alkyl-3-substituted 1,2,4-triazoles. Zhur.ob.khim.  
32 no.11:3811-3817 N '62. (MIRA 15:11)

1. Institut organicheskogo sinteza AN Latviyskoy SSR.  
(Guanidine) (Triazole)

CHIPEN, G.I.; EYDUS, Ya.A. [Eidus, J.]; BOBOVICH, Ya.S.; GRINSHTEYN, V.Ya.  
[Grinsteins, V.]

Structure of N-acyl derivatives of  
3-phenyl-5-amino-1,2,4-triazole. Zhur.  
strukt.khim. 6 no.1:53-57 Ja-F '65.

(MIRA 18:12)  
1. Institut organicheskogo sinteza AN Latviyskoy SSR;  
Latviyskiy gosudarstvennyy universitet imeni P.Stuchki i  
Gosudarstvennyy opticheskiy institut imeni S.I.Vavilova.  
Submitted October 10, 1963.

BUSEV, A.I.; RUDZIT, G.P. [Rudzits, G.]; CHIPEN, G.I.; GRINSHTEYN, V.Ya.  
[Grinsteins, V.]

Extraction of a complex compound of pentavalent molybdenum with  
thioglycolic acid in the presence of guanidine derivatives.  
Zhur. anal. khim. 20 no.1:76-81 '65. (MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova,  
Latviyskiy gosudarstvennyy universitet imeni P. Stuchki i  
Institut organicheskogo sinteza AN Latviyskoy SSR.

CHIPER, Gh.

Computation diagram of hydraulic elements of channel  
navigation. Studii hidraul 6:159-189 '64.

Country: Romania  
Category: Chemical Technology, Chemical Processes (Part 4),  
Leather, Fur, Gelatin, Tanning Materials, Industrial  
Res. Sovr. (Ref Zhur-Chim, 1959, No 7, 1393)  
Author: Popovescu, I. N.; Chiper, T.  
Institut: Research and Experimental Institute of Wood and  
Title: Procurement of Wood from Oak Stumps for the  
Tannin Extractive Industry  
Orig. Pub.: An. Inst. cercetari si experim. ind. chim. si  
indst., 1953, No 13, 117-126  
Abstract: Tests were conducted on the obtaining of wood  
from oak stumps by means of explosives (dynamite  
etc.) to show the efficiency of this method as com-  
pared with manual and mechanized (by means of  
machines) methods. Specified are the conditions  
of the undermining of stumps, the dimensions and  
arrangement of the holes, the size of the charge,  
depending on the diameter of stumps, safety  
\* Paper Industry  
Card: 1/3  
H-170

Country :	ROMANIA
Category :	Chemical Technology, Chemical Products (Part 4). Leather, Fibro-Cellulose, Tanning Materials, Industrial Proteins.
Abs. No.:	Ref. Rom. - Chim., No. 7, 1950, No. 2, 926
Author :	
Institut. :	
Title :	
Orig. Pub. :	
Abstract :	concentration of SB in the mixture of SB and $H_2SO_4$ , temperature, and the order of the introduction of the reacting substances. With a correct combination of these factors, one can prepare a reduced solution of SB with given tanning properties.-- G. Markus
Card:	2/2

Country : ROMANIA  
Category : Chemical Technology. Chemical Products (Part 4). Leather.  
abc. Jour. : Fur. Gelatin. Tanning Materials. Industrial Proteins. <sup>H</sup>  
Ref Zhar - Khim., No 7, 1959, No 25923  
Author :  
Institut. :  
Title :  
  
Orig. Pub. :  
  
Abstract : one man, 2 m.<sup>3</sup> of commercial wood (20 times greater than in manual work), and it may be doubled with the use of mechanical drilling and sawing. The wood is obtained free of earth, with dimensions and weight, acceptable for further processing. -- G. Markos

Card: 3/3

JL-177

Country	: ROMANIA
Category	: Chemical Technology, Chemical Products (Part 4).
Mo. Jour.	: Mof Zaur-Sim, 1959, No 7, 2492
Author	: Chipor, I.; Pavelescu, I. N.; Rova, C.
Institut.	: Research and Experimental Institute of Wood and Title : Average Yield of the Bark of White Willow Used for the Extraction of Tanning Substances
Orig. Pub.	: An. Inst. cercetari si experienta. Ind. lemn. si hirt., 1958, No 13, 195-202
Abstract	: The average yield of dry bark from 1 m <sup>3</sup> of moist wood of white willow ( <i>Salix alba L.</i> ) in exploi- tation based on selective cutting amounts to 57.365 kg., and in that based on clearcutting, to 52.1 kg. The moisture content in dry bark is 8-10%. The bark of the first grade contains alto- gether 16.2% of soluble substances and 6.0% of tanninoids; the bark of the second grade contains
Card:	* Paper Industry 1/2

H-168

Country	:	Russia
Category	:	Chemical Technology. Chemical Products, Part I.). Leather. Fib. Gelatin. Tanning Materials. Industrial Proteins.
abs. descr.	:	H Ref Zhur - Khim., No 7, 1959, No 2592
Author	:	
Institut.	:	
Title	:	
Oriz. Pub.	:	
Abstract	:	14.4 and 2.7%, respectively; the mixture of both kinds of bark contains 10.3% of soluble substances and 7.7% of tannides. It is necessary to strip the bark in April and May, right after cutting the trees to a thickness of 1-1 cm. of the trunk on its top, in the form of rolls 1-2 m. long. The drying is done on treaties during 4-6 days.-- G. Marus

Card: 2/2

~~CHIARICA, Constantin; PETCU, Ion~~

Good and useful way for the Rumanian workers to spend their free time. Mumca sindic 6 nc.5:20-23 My '62.

1. Director al clubului Uzinele de tractoare, Brasov (for Petcu).

CHIPEV, Kh.; UZUNOVA, V.

Vaginal temperature as index of activity of the corpus luteum and in  
function tests of the ovaries. Khirurgiia, Sofia 6 no.4:234-240 1953.  
(GIML 25:1)

1. Head of Health Station at Klisura; for Chipev; Midwife at Health  
Station at Klisura for Usunova. 2. Public Health Division (Head -- Dr.  
Velev) of District People's Soviet of Workers' Deputies, Karlovo.

DOGANOV, Iv.; CHIPEV, Kh.

On 7 cases of gynatresia. Akush. ginek. (Sofia) 3 no.1:63-68  
'64.

\*

CHIPEV, Kh.N. (Sofiya)

Characteristics of the course of pregnancy and labor in multiparae.  
Akush. i gin. no. 2:69-70 '65.

(MIRA 18:10)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2

U D O R G

exists in the form of 2,4-dinitrophenyl tracets.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2"

BULGARIA

Col D. CHIPILSKI, Col N. ANTONOV and Maj T. TANEV; Medical Corps  
(Meditinskata siurhba.)

"X-Ray Studies Following Closed Cranio-Cerebral Trauma."

Sofia, Voenno Meditsinsko Delo, Vol 7, No 4, Dec 1962; pp 19-25.

Abstract [Russian summary modified]: Data on 80 patients: 46 normal and various types of residual lesions in the other 34. Of the 80, 43 were examined over 1 year (36 over 3 years) after the lesion occurred. Table, 2 rentgenograms, 16 Soviet references.

1/1

CHIPILSKI, D.

A seriograph for cerebral angiography. Khirurgiia (Sofia)  
16 no.7:657-659 '63.

1. Vissz voenno-meditsinski institut - Sofia.  
(CEREBRAL ANGIOGRAPHY)  
(EQUIPMENT AND SUPPLIES)  
(TECHNOLOGY, RADIOLOGIC)

L 29998-66

ACC NR: AP6020093

SOURCE CODE: BU/0017/65/020/004/0057/0058

AUTHOR: Lambov, Na. (Lieutenant colonel of the medical service); Shipilski, Khr. (Major of the medical service)

14  
B

ORG: none

TITLE: Renal hypernephroma with metastases without renal symptoms

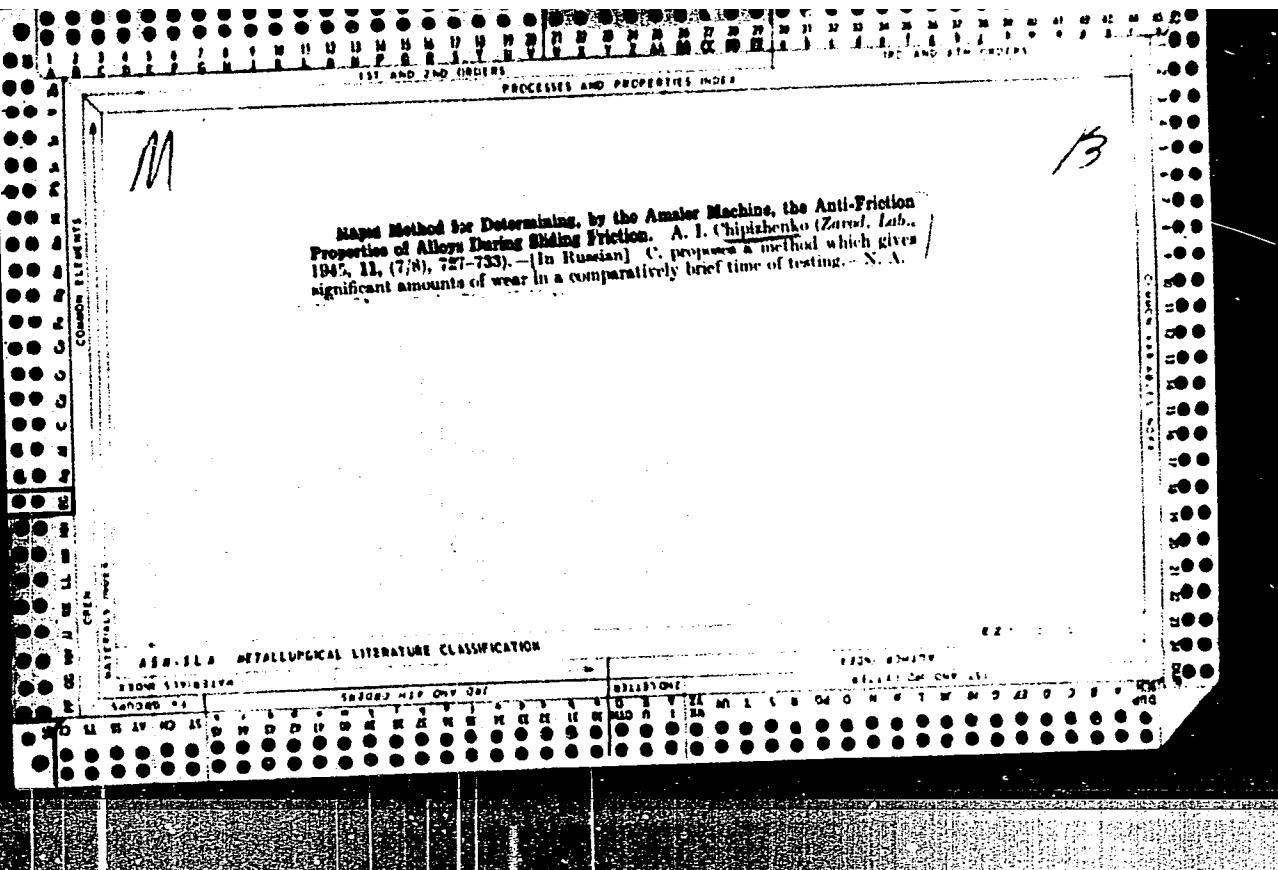
SOURCE: Voenno-meditsinsko delo, v. 20, no. 4, 1965, 57-58

TOPIC TAGS: military medicine, digestive system disease

ABSTRACT: This article presents the case of a 36-year-old officer with perplexing clinical symptoms alternately diagnosed as peptic ulcerative disease and calculous cholecystitis; melena progressively more severe, episodes of hematemesis and death despite heroic treatment short of surgery. True diagnosis of renal hypernephroma with profusely disseminated visceral metastases was a relatively unexpected finding at necropsy. [JPRS]

SUB CODE: 06 / SUIM DATE: none

Card 1/1



THE EFFECT OF THE RATE OF DEFORMATION ON THE PLASTICITY OF COPPER ALLOYS  
AT HIGH TEMPERATURES. A. V. BOYLEV AND A. I. CHIPIZHENKO (TVET. METALLY,  
1946, (5), 70-74) (In Russian) Static (1-300 mm./min.) and dynamic  
(5m/sec.) tests were carried out on wires of 6-7 mm. dia. of the following  
annealed (1 hr. at 600°C) alloys: brasses with 68.38% copper, 62.12%  
copper, and 67.55% copper; lead and bronze containing 93.34% copper,  
3.53% tin, remainder zinc. At high temp. (600°, 750°, 800°, and  
850°C.) the plasticity of the alloys (as indicated by the contraction in  
cross section) increases with the rate of deformation. The results are  
given in tables. -MA

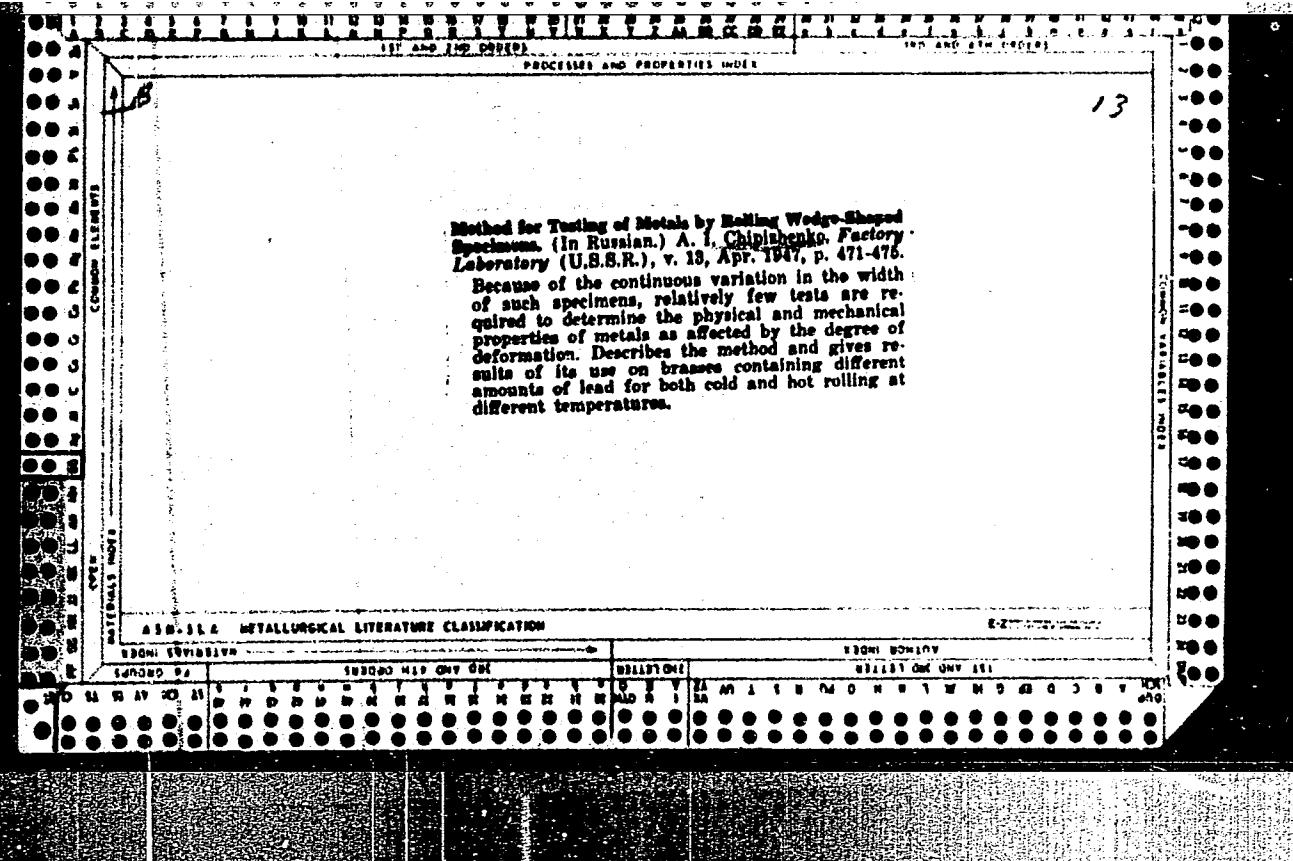
2

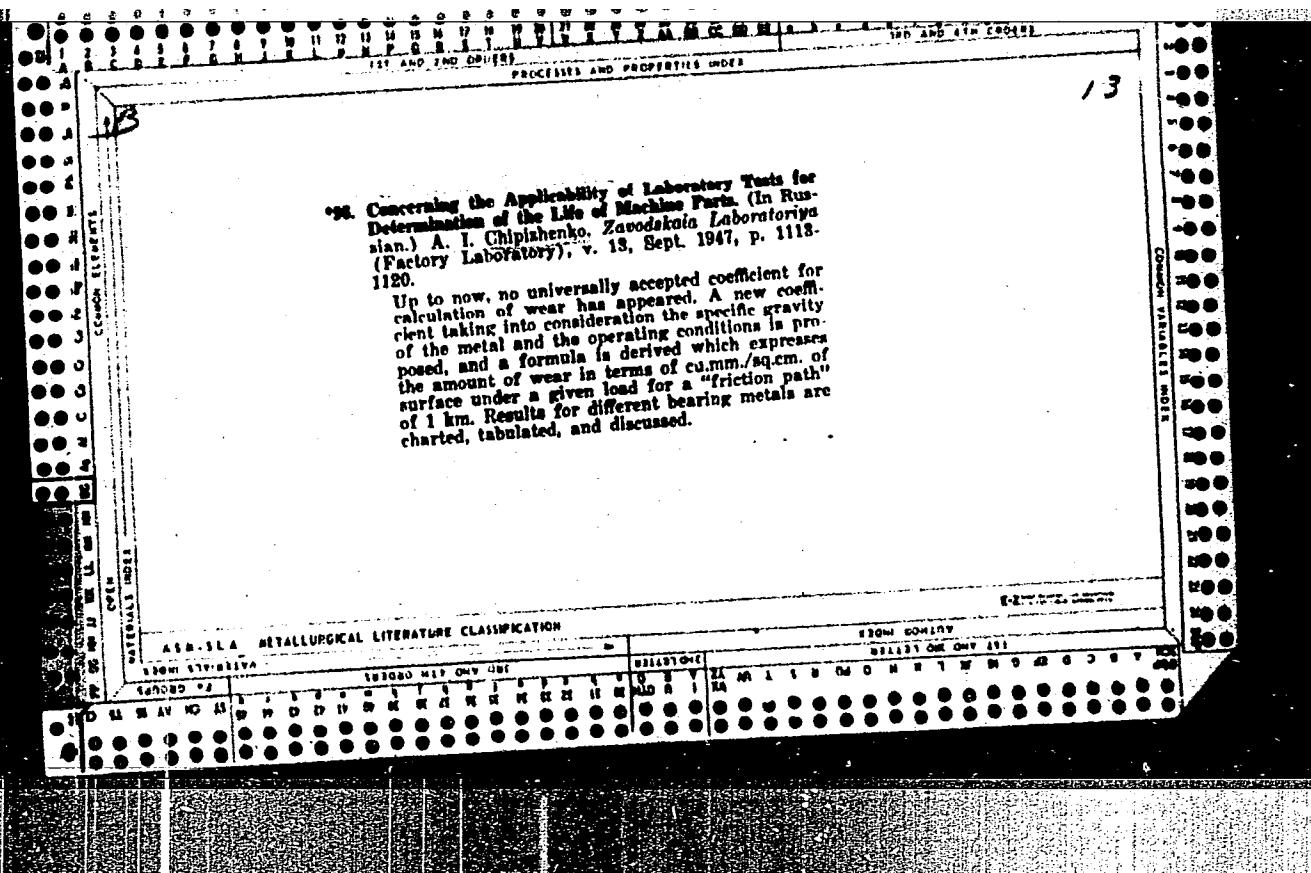
## ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ALUMINUM ALLOYS

VIEW NUMBER

SERIAL NO. JUN. 1961





On Indirect Methods for the Calculation of True Resistance to Breaking. A. I. Chigirinshko. (Zavodskaya Laboratoriya, 1949, vol. 18, Dec., pp. 1452-1457). [In Russian]. Five equations in use for the indirect determination of true resistance to fracture are critically examined and shown to be inapplicable to calculations relating to previously deformed metal specimens. It is suggested that for such calculations from tensile test data, allowance must be made for the degree of the preliminary deformation of the specimen in estimating the true reduction in cross-sectional area. Two equations for calculations for tempered and previously deformed specimens are presented and shown to give satisfactory results for specimens of steel, nickel, and non-ferrous alloys.—*a. n.*

18

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2"

CHIPIZHENKO, A. I.

Sep 50

USSR/Metals - Testing

"Diagrams of the Actual Stresses of Metal Preliminarily Deformed," A. I. Chipizhenko, Giprotsvetmetobrabotka

"Zavod Lab" Vol XVI, No 9, pp 1111-1121  
Describes tensile tests of Cu, Ni, Sn-Zn bronze,  
brass and Be bronze and, on basis of experiments  
and data from literature, makes corrections  
value of actual tensile strength depending on  
value of preliminary deformation during  
drawing. Values of preliminary deformation and  
tensile characteristics of base  
metal reduction, calculated with consideration  
of preliminary deformation.

169758

V

1. CHIPIZHENKO, A. I.
2. USSR (600)
4. Strains and Stresses
7. Calculation of shearing stresses. Vest. mash. no 7: Jl '52
  
9. Monthly List of Russian Accessions, Library of Congress, Feb. 1953. Unclassified.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2"

SOV/137-58-7-16080

On the Relationship Between the Depth of Impression (cont.)

the main characterize the aptitude for regular deformation and do not fully reflect the ductility of the metal. The latter is best characterized by the transverse narrowing of the specimen, measurable in the rupture "neck" of a round specimen. Therefore Erichsen's method is not precise and is unsuitable for a reliable determination of the ductility of the metal and its capacity for stamping and deep drawing. In order to study the suitability for stamping it is necessary to employ methods of twisting and drawing, preferably with tools and equipment similar to those employed in production.

1. Brass--Mechanical properties    2. Brass--Fracture

V. O.

Card 2/2

CHIPIZHENKO, A.I.

137-58-5-10848

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 279 (USSR)

AUTHOR: Chipizhenko, A.I.

TITLE: New Grades of Beryllium Bronze (Novyye marki berilliyevykh  
bronz)

PERIODICAL: Byul. Tsentr. in-t inform. M-va tsvetn. metallurgii SSSR,  
1957, Nr 7, pp 22-25

ABSTRACT: The effect of additions of Ni, Ti, and Co to standard Be  
bronzes of diminished Be content upon elastic hysteresis and  
cyclic and general strength is investigated on diaphragm-type  
products. Two new grades of Be bronze have been developed as  
a result of the investigations: Br BNT-1.9 (1.85-2.10% Be,  
0.2-0.4% Ni, and 0.1-0.25% Ti, the rest Cu) and Br BNT 1.7  
(1.65-1.85% Be, 0.2-0.4% Ni, 0.1-0.25% Ti, the rest Cu), dis-  
tinguished by greater plasticity as compared to standard Be  
bronzes. The cyclic strength of springs of BNT-1.9 is 1.5  
times as great as that of springs of Br B-2 bronze and twice as  
great as that of Br B-2.5 bronze springs. The new bronzes also  
exhibit more stable elastic properties and reduced elastic hyst-  
eresis at normal and elevated temperatures than do standard Be

Card 1/2

137-58-5-10848

New Grades of Beryllium Bronze

bronzes. It is noted that introduction of the new grades of Be bronze makes it possible to save 4.5-6.5 kg Be per ton of semifinished product.

E.S.

1. Beryllium bronze--Development
2. Beryllium bronze--Properties

Card 2/2

CHIPIZHENKO, A.I.; KHARITONOV, L.D.

Effect of streaky structure in L62 brass on its mechanical  
and technological properties. TSvet.met. 33 no.5:66-68  
Mg '60. (MIRA 13:7)  
(Brass--Metallography)

CHIPIZHENKO, A.I.; KATYSHEKOVA, A.Ya.; GOLUBKOV, M.K.

Tendency of copper-beryllium alloys to the formation of bubbles when heated in an ammonia atmosphere. Trudy Giprotsvetmetobrabotka no.18: 197-208 '60. (MIRA 13:10)

(Copper-beryllium alloys—Heat treatment)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2

CHIPIZHENKO, A.I.

Studying the effect of the chemical composition of beryllium bronze  
on the quality of springs. Trudy Giprotsvetmetobrabotka no.18:209-  
214 '60.

(MIRA 13:10)

(Copper-beryllium alloys--Analysis)  
(Springs (Mechanism))

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2"

18.12.00

28547  
S/137/61/000/009/019/087  
A060/A101

AUTHORS: Chipizhenko, A.I., Katyshkova, A.Ya., Golubkov, M.K.

TITLE: Tendency of copper-beryllium alloys to form blisters under heating in an ammonia environment

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 9, 1961, 41, abstract 9D305 ("Tr. Gos. n.-i. i poyektn. in-ta po obrabotke tsvetn. met.", 1960, no. 18, 197-208)

TEXT: The influence of the chemical composition of bronze upon the tendency to form blisters under heating in an ammonia environment was investigated. Strips of bronze grades 5p.5 2.5 (Br.B 2.5) containing (in percent): Be 1.53-2.43, Ni 0.18-0.49, and admixtures of Ti 0.18-0.73 and Co 0.3; 5HT 1.9 and 5HT 1.7 (BNT 1.9 and BNT 1.7) were heated in an ammonia environment at 770-780 and 820°C (for the latter two grades) for various periods of time. It was established that standard bronze grade Br. B 2.5 is most apt to form blisters. Under heating for the period of one hour in strips with an addition of 0.28-0.73% Ti the blisters did not arise. On strips of bronze containing 1.68-2.32% Be and an admixture of Ti no blisters were formed even after a two-hour heating. Under heating of strips Card 1/2

X

Tendency of copper-beryllium alloys ...

28547  
S/137/61/000/009/019/087  
A060/A101

in a H<sub>2</sub> atmosphere at 820°C for 20 min no blisters were formed on strips of bronze containing an admixture of Ti with Ni, while on strips of bronze Br. B 2.5 a large number of blisters was formed. It is indicated that the formation of blisters on strips of beryllium bronze under heating in an ammonia atmosphere is connected with defects in the ingot and the action of H<sub>2</sub> from the surrounding environment. An admixture of Ti reduces the tendency of strips to form blisters. It is recommended to carry out the casting of beryllium bronze ingots by the semicontinuous or flowless method, and not to allow a heating >780°C and long soakings in annealing strips or parts in an ammonia environment.

A. Babayeva

X

[Abstracter's note: Complete translation]

Card 2/2

ACCESSION NR: AR4027669

S/0276/64/000/001/B069/B069

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 1B354

AUTHOR: Chipizhenko, A. I.; Iyedlinskaya, Z. M.; Korsunskaya, K. N.

TITLE: Dependence of the size and homogeneity of beryllium bronze on technological processing parameters 1963, 17-23

CITED SOURCE: Tr. Gos.n.-i. i proyektn. in-ta splavov i obrabotki tsvetn.met.v21, 1

TOPIC TAGS: bronze, beryllium bronze, grain size, alloy homogeneity, alloy grain size

TRANSLATION: The authors report that the furnaces used in plants for the heating of beryllium bronze in an ammonia atmosphere, as well as shaft furnaces, do not provide uniform heating of the metal. This excludes the possibility of obtaining a homogeneous structure and consistent mechanical properties in the finished products. The high-quality heating of bronze requires the use of short-term heating in continuous furnaces. The most homogeneous structures and properties of bronze may be obtained through rolling with reduction not less than 65% (with rolling performed prior to tempering). 16 illustrations. Bibliography

Card 1/21

ACCESSION NR: AR4018280

S/0277/64/000/001/0016/0017

SOURCE: RZh. Mashinostroitel'nye materialy\*, konstruktsii i raschet detaley  
masin. Gidroprivod (Hydrodrive), Abs. 1.48.97

AUTHOR: Kharitonova, L. D.; Chizhikhenko, A. I.

TITLE: A new spring alloy for work at 20--350° temperatures

CITED SOURCE: Tr. Gos. n.-i. i proyektn. in-ta splavov i obrabotki tsvetn. met.,  
vyip. 21, 1963, 7-11

TOPIC TAGS: spring alloy, 350C temperature, current-carrying spring, relaxation

TRANSLATION: An alloy developed for use in current-carrying springs of brand TAN  
5-2-1 is made of Ni + 5% Ti + 2% Al + 1% Nb, having high relaxation resistance and  
suitable for devices operating at temperatures up to 350C. The alloy has good  
technological properties and is simple to work mechanically and thermally.

DATE ACQ: 07Feb64

SUB CODE: ML

ENCL: 00

Card 1/1

ACC. NR. AP5028552

CLASSIFICATION: URGENT//~~REF ID: A6513~~/~~Urgent~~ SOURCE CODE: IJP(c) ID/HM

INVENTOR: Chipizhenko, A. I.; Iodlinskaya, Z. M.; Golubkov, M. K.; Bliznyukova, N. Yu.

ORG: none

TITLE: Copper-base alloy. Class 40, No. 160827

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 167

TOPIC TAGS: copper alloy, zinc containing alloy, nickel containing alloy, aluminum containing alloy, manganese containing alloy, silicon containing alloy, high strength alloy, copper base alloy, tensile strength

ABSTRACT: This Author Certificate introduces a copper-base alloy containing nickel, aluminum, manganese, and zinc. To increase the tensile strength and relaxation strength of the alloy, the component contents are kept within the limits: copper 73.0—76.0%, nickel 1.5—3.0%, aluminum 1.5—3.0%, manganese 0.3—1.0%, silicon 0.3—1.0%, and balance zinc.

SUB CODE: 11/ SUBM DATE: 30Jul63/ ATD PRESS: 4470 [DV]

00  
Card 1/1

UDC: 669.35.5.71

PAULLER, O.P.; CHIPIZUBOVA, P.A.

Materials on the ecology of the fleas of the Daurian suslik in  
Transbaikalia. Inv. Irk.gos.nauch.-issl.protivochum.inst. 17:  
161-179 '58. (MIRA 13:7)  
(TRANSBAIKALIA--FLEAS) (PARASITES--SUSLIKS)

ZHOVTTY, I.P.; YEMEL'YANOVA, N.D.; FEDOROVA, L.V. [deceased]; RYZHUK,  
T.I.; LEONOV, Yu.A.; SUCHEVSKIY, P.T.; MOSKALENKO, V.V.;  
KOZLOVSKAYA, O.L.; DEMIDOVA, A.A. [deceased]; ANIKHIEV, I.K.;  
CHIPIZUBOVA, P.A.; PROLIP'TEV, V.N.

Materials for a study of the trombiculid mites of Siberia and  
the Far East. Izv. Irk.gos.nauch.-issl.protivochum.inst. 16:  
156-172 '57. (MIRA 13:7)

(SIBERIA, EASTERN--MITES)

CHIPKIN, V.V., kand.tekhn.nauk

Monorail transportation. Biul.tekh.-ekon.inform.Gos.nauch.-  
issl.inst.nauch.i tekhn.inform. 16 no.4:89-93 '63. (MIRA 16:8)  
(Railroads, Single-rail)

GUREVICH, Viktor Zalmanovich; DEMIDOV, Nikolay Alekseyevich;  
CHIPKOVA, V.G., inzh., retsenzent; MINDIN, G.P., kand.  
tekhn. nauk, nauchn. red. ALESHIN, N.I., inzh., red.; CHFAS, M.A.,  
red.

[Electric heating installations of ships] Sudovye elektro-  
nagrevatel'nye ustroistva. Leningrad, Sudostroenie, 1965.  
243 p. (MIRA 18:8)

CHIPLAKOV, M.; NAPUKH, Z.

Sports festival of Kharkov tractor builders. Sov.profsoiuzy 3  
no.8:43-45 Ag'55. (MIRA 8:10)

1. Predsedatel' soveta fizkul'tury Khar'kovskogo traktornogo  
zavoda (for Chiplakov) 2. Zaveduyushchiy uchebno-sportivnym  
otdelom TSentral'nogo soveta DSO "Torpedo"  
(Kharkov--Sports)

CHIPLAKOVA, T.P.; FOKICHEVA, R.A.

Traumatic dislocation of the crystalline lens. Sbor. nauch.  
trud. SOGMI no.14:130-134 '63. (MIRA 18:9)

1. Iz kafedry glaznykh bolezney Severo-Osetinskogo meditsinskogo  
instituta (zav. kafedroy - prof. M.N. Bugulov).

S/081/61/000/020/002/089  
B119/B147

AUTHORS: Chiplis, I. V., Glembotskiy, I. I.

TITLE: Approximate single-electron wave functions of  $\text{Th}^+$ ,  
obtained on the basis of the statistical Thomas-Fermi model

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 8, abstract  
20B52 (Tr. AN LitSSR, B, 1(24), 1961, 75 - 84)

TEXT: The single-electron wave functions of  $\text{Th}^+$  optical electrons in  
the states, 5f, 6d, 6f, 7s, 7p, 7d, 8s, 8p, 9s, 9p were obtained with  
the aid of the Thomas-Fermi potential. It is assumed that the optical-  
electron states do not affect the potential which is taken to be equal  
for all optical electrons. The equation was solved by means of a computer  
with an accuracy corresponding to the approximation of the chosen poten-  
tial. The single-electron states in  $\text{Th}^+$  provide a satisfactory  
qualitative description of the wave functions obtained. [Abstracter's  
note: Complete translation.]

Card 1/1

86829

s/020/60/135/005/017/043  
B019/B067

24.4500

AUTHORS: Vizbarayte, Ya. I., Chiplis, V. I., and Yutsis, A. P.,  
Academician of the AS Litovskaya SSR

TITLE: Selection Rules of Electron Transition in Various Types  
of Coupling

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 5,  
pp. 1101-1103

TEXT: The authors studied electrical single-electron multipole transitions  
with configuration  $l^q l'$ , where an LS coupling exists in the  $l^q$  shell. It  
is assumed that this shell is characterized by the quantum numbers  $L_0 S_0$ ,  
which together with the single-electron momenta  $l's'$  of various types of  
coupling give the momentum  $J$ . Besides the known LS and  $Jj$  couplings, the  
 $J_1$  and  $LS_0$  couplings introduced by Racah et al. (Ref. 1) and A.M. Gutman  
et al. (Ref. 2) are of importance. These couplings are characterized by  
the intermediate quantum numbers  $T_1 T_2$ . Thus, the state under consideration

Card 1/3

86829

Selection Rules of Electron Transition in  
Various Types of Coupling

S/020/60/135/005/017/043  
B019/B067

✓

is characterized by  $n^q \alpha_o L_s n' l' T_1 T_2 J M$ . The transitions  
 $S(n^q \alpha_o L_s n' l' T_1 T_2 J, n^q \alpha_o L'_s n' l'' T'_1 T'_2 J') =$

$$= |(\alpha_o L_s n' l' T_1 T_2 J \Psi T^{(k)} \alpha_o L'_s n' l'' T'_1 T'_2 J')|^2 \quad (1) \text{ are}$$

studied, and the selection rules for the transition

$l^q \alpha_o L_s l' T_1 T_2 J - l^q \alpha_o L'_s l'' T'_1 T'_2 J'$  are summarized in Table 1.

These ten selection rules are divided into five groups the first two of which are known. The three other groups comprise new selection rules. According to these selection rules, transition may occur only if the corresponding quantum number and the quantum numbers of the other configurations form a triangle or quadrangle. Important consequences of these new selection rules are discussed. There are 1 table and 4 references: 2 Soviet and 2 US.

ASSOCIATION: Institut fiziki i matematiki Akademii nauk LitSSR  
(Institute of Physics and Mathematics of the Academy of Sciences Litovskaya SSR)

Card 2/3

86829

Selection Rules of Electron Transition in  
Various Types of CouplingS/020/60/135/005/017/043  
B019/B067SUBMITTED: August 22, 1960      Правила отбора для перехода  
 $I''\alpha_0 L_0 S_0 I'' T_1 T_2 J - I''\alpha_0 L_0 S_0 I'''' T_1 T_2' J'$ 

1	2	3	4	5
$LS - LS$	$J_I - J_I$	$LS - J_I$	$LS_0 - LS_0$	$J_I - J_I$
$LS - L'S'$	$J_0 J' - J'_0 J''$	$LS - J_0 J''$	$LK - L'K'$	$J_0 K - J'_0 K'$
$\{LL'k\}$ $\{SS'0\}$	$\{J_0 J'_0 0\}$ $\{J' J'' k\}$	$\{J_0 I'' s' J\}$ $\{SL_0 J'' J'\}$ $\{L\}(J'')$	$\{LL'k\}$ $\{KK'k\}$	$\{KK'k\}$ $\{J_0 J'_0 0\}$
6	7	8	9	10
$LS - LS_0$	$LS - J_I$	$J_I - LS_0$	$LS_0 - J_I$	$J_I - J_I$
$LS - L'K$	$LS - J_0 K$	$J_0 K - LK'$	$LK - J_0 J''$	$J_0 K - J'_0 J''$
$\{LL'k\}$ $\{SL'J'\}$ $\{K\}$	$\{LKS_0 k\}$ $\{J_0 I'' s' J\}$ $\{SL_0 J'' J'\}$	$\{KK'k\}$ $\{J_0 I'' K'\}$ $\{L\}$	$\{J_0 I'' K\}$ $\{L\}(J'')$	$\{J_0 J'_0 0\}$ $\{K\}(J'')$

Card 3/3

Chiplonkar, M.; Kulkarni, p.

Seasonal variation of twilight intensity. In English. p. 182.

BULLETIN OF THE ASTRONOMICAL INSTITUTES OF CZECHOSLOVAKIA, Praha, Czechoslovakia,  
Vol. 10, no. 5, Sept. 1959.

Monthly List of East European Accessions, (EEAI) LC, Vol. 8, no. 10, 1959. -Oct.  
Uncl.

CHIPPING, G. A.

KRYZHANOVSKAYA, Ariadna Borisovna [Kryzhanivs'ka A.B.]; CHIPPING, G.O.  
[Chippin, H.O.], kand.tekhn.nauk, red.; SHTUL'MAN, I.Y., red.  
izd-va; ZHUKOVSKIY, A.D.[Zhukova'kyi, A.D.], tekhn.red.

[Long-range forecasting of the Dnieper runoff] Dovhoterminovi  
prohnozy kharakterystyk stoku Dnipra. Kyiv, Vyd-vo Akad. nauk  
URSS, 1957. 87 p.  
(Dnieper River)

CHIPPING, G.A.

SHVETS', G.I.; CHIPPING, G.A., kandidat tekhnicheskikh nauk, vidpovidal'niy  
redaktor; SHTUL'MAN, I.P., redaktor vidavnitstva; ZHUKOV'S'KIY, A.D.,  
tekhnicheskiy redaktor.

[Dnieper run-off below Kiev] Stik Dnipra nyzhche Kyieva. : Kyiv,  
Vyd-vo Akad.nauk UkrSSR, 1957. 126 p. (MIRA 10:11)  
(Dnieper River)

CHIPPING, Galina Aleksandrovna [Chippinh, H.O.]; LYSENKO, Klara Arkhi-povna; VISHNEVSKIY, P.F. [Vyshnevs'kyi, P.F., kand.tekhn.nauk, otv.red.]; PECHKOVSKAYA, O.M. [Piechkova's'ka, O.M.], red.izd-va; MATVIYCHUK, O.O., tekhn.red.

[Annual and minimum discharge of rivers in the Ukraine] Richnyi ta minimal'nyi stik na terytorii Ukrayiny. Kyiv, Vyd-vo Akad.nauk URSR, 1959. 145 p.  
(Ukraine--Rivers) (MIRA 13:3)

VISHNEVSKIY, Palladiy Fedorovich[Vyshnevs'kyi, P.F.]; DROZD, Nafanail Iosipovich; ZHELEZNYAK, Iosif Aronovich; KRYZHANOVSKAYA, Ariada Borisovna[Kryzhanivs'ka, A.B.]; KUBYSHKIN, Georgiy Pimenovich[Kubyshkin, H.P.]; LYSENKO, Klara Arkhipovna; MOKLYAK, Vladislav Ivanovich; CHIPPING, Galina Aleksandrovna [Chippinh, H.O.]; SHVETS, Grigoriy Ivanovich[Shvets, H.I.]; PECHKOVSKAYA, O.M.[Pechkova's'ka, O.M.], red.izd-va; RAKHLINA, N.P., tekhn. red.

[Hydrologic calculations for rivers of the Ukraine]Gidrologichni rozrakhunki dla rishok Ukrayny; pry vidsutnosti sposterezhen'. [By]P.F.Vyshnev'kyi ta inshi. Kyiv, Vyd-vo Akad.nauk URSR, 1962. (MIRA 16:2)  
385 p.

(Ukraine--Rivers)

TOMESCU, D., candidat in stiinte tehnice; CHIPRIADE, Gh., ing.; MITROI, C., ing.

Basic principles of flux repair organization for engines and tractors at the repair stations. Mec electrif agric 9 no.5: 8-18 '64.

I. Research Institute for Mechanization of Agriculture (for Mitroi).

05440  
SOV/120-59-3-12/46

AUTHORS: Dmitriyev, A. B., Vorob'yev, M. G., Kosmarskaya, L.G.  
and Chipurenko, N. I.

TITLE: The Construction of Boron Ionization Chambers  
(Konstruktsiya bornykh ionizatsionnykh kamer)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3,  
pp 59-62 (USSR)

ABSTRACT: A description is given of the following ionization chambers, all of which are designed to detect slow neutrons from the ionization due to the reaction  $B^{10}(n,\alpha)Li^7$ : the KN series (filled with  $BF_3$ ), the KNT series (solid boron and argon gas) and the KNK series (compensated for the effect of the  $\gamma$ -background).  
1) The KN-50 chamber. Fig 1 shows a photograph of this chamber. The electrodes consist of four coaxial tubes, 12, 22, 32 and 42 mm in diameter, made from nickel foil, 0.1 mm thick, and in electrical contact with each other. It is filled with  $BF_3$  gas at 600 mm Hg, the working volume being 370 cm<sup>3</sup>. The gas is obtained from the reaction  $Ba(BF)_4 \rightarrow 2BF_3 + BaF_2$ .

Card 1/4

05441  
SOV/120-59-3-12/46

The Construction of Boron Ionization Chambers  
Fig 3 gives the volt-ampere characteristics of the chamber when the latter was irradiated in the reactor channel. The saturation current at 500 V is 0.045  $\mu$ amp/cm<sup>3</sup>.  
2) The KNT-52 chamber. This chamber is in the form of a two-electrode system placed in a hermetically sealed steel cylinder. The cylinder is filled with argon at a pressure of 6 atm. Each electrode (Fig 4) consists of 30 discs, 43 mm in diameter, placed parallel to each other. The discs have slots through which supports for electrodes of opposite sign can be inserted. The distance between the plates of opposite signs is 1.6 mm and the disc thickness is 0.4 mm. Boron is deposited on either side of each disc (except for the end discs), the total area covered in this way being 950 cm<sup>2</sup>. The insulation of the terminals at 300°C is 10<sup>9</sup> Ohms. Amorphous boron is used. The argon gas is 0.001% pure. The electrical characteristics of the chamber were described by Dmitriyev (Ref 3). The working voltage is 500 V and the working current 350  $\mu$ amp. The absolute sensitivity of the chamber was found to be

card 2/4

05441  
SOV/120-59-3-12/46

The Construction of Boron Ionization Chambers

$2 \times 10^{-14}$  amp/neutron/cm<sup>2</sup> sec.

3) The KNK-53 and KNK-52 chambers. The counters belonging to the KNT series have an appreciable sensitivity to  $\gamma$ -radiation. Thus, for example, the KNT-52 counter has a  $\gamma$ -sensitivity of  $3 \times 10^{-11}$  amp/r/hr. To reduce this  $\gamma$ -ray sensitivity the KNK series uses an additional compensating ionization chamber which is not neutron sensitive. The basic design of the chamber and the appropriate connections are shown in Fig 5 in which 1 is the envelope, 2 is the high voltage electrode of the  $\gamma$ -compensating part of the chamber, 3 is the high voltage electrode of the boron part of the chamber, 4 is the collecting electrode, 5 is the boron deposit and 6 is the measuring instrument. The electrode assembly of the KNK-53 counter consists of a system of alternate boron and compensating sections. Each electrode consists of a collection of discs, 43 mm in diameter. Fig 6 illustrates this scheme and Fig 7 shows a photograph of the electrode assembly. There is a total of 164 discs and the area of the boron covered discs is 1750 cm<sup>2</sup>. A mixture of He + 1% N<sub>2</sub> at 6 atm is used

Card 3/4

05441  
SOV/120-59-3-12/46

The Construction of Boron Ionization Chambers

as the working gas. The nitrogen enables the breakdown voltage to be increased to 2 kV. The sensitivity of  $\gamma$ -radiation is found to be  $3.4 \times 10^{-13}$  amp/r/hr, while the sensitivity to slow neutrons is  $4 \times 10^{-14}$  amp/neutron/cm<sup>2</sup> sec. Yu. G. Nikolayev suggested the KNK-52 chamber. The KNK-52 is very similar to the KNK-53 except for the fact that the distribution of the boron and the compensating cells is asymmetric so that the sensitivity of the electrode system to  $\gamma$ -radiation depends on the geometry of the radiation field. There are 7 figures and 3 Soviet references.

SUBMITTED: April 4, 1958

Card 4/4

CHIPVINSKIY, P. N.

23993 CHIPVINSKIY, P. N. Petrograficheskaya kharakteristika khoperskikh  
tretichnykh i melovykh peschanikov i peskov. Problemy sov. pochvovedeniya,  
SB. 15, 1949, S. 168-173. -- Bibliogr: 5 Nazv.

SO: Letopis, No. 32, 1949.

CHIPYZHENKO, M.A., slesar'

Unit for bending large-diameter pipes. Suggested by M.A.  
Chipyzhenko. Rats.i izobr.predl.v stroi. no.8:117-118  
'58. (MIRA 13:3)

1. Mekhanicheskiy tsakh Promkombinata.  
(Pipe bending)

CHJRA, A.

Photocolorimetric determination of small copper quantities  
in zinc and cadmium by means of sodium diethyldithiocarbamate.  
Rev chimie Min petr 13 no.8:494 Ag '62.

CHIRA, A.; BINKITS, B.; VOICULESCU, A.

Spectral analysis of crude zinc. Rev chimie Min petr 15 no.6:  
352-353 Je '64.

CIUCA, A.; CRESIN, Vl. J.; CHIRI, Al. (*Rumanian*)

Duration and Life Expectation in Old People in Various Conditions

Gerontology, 6th International Congress, Copenhagen, Denmark  
11-16 August 1963

CZECHOSLOVAKIA

Eugen CHIRA, Arboretum of Slovak Academy of Sciences, CSAV, Mlynany.

"Rapid Method of Determining Pollen Viability in Some Species of Pinus."

Bratislava, Biologia, Vol 18, No 5, 1963; pp 390-395.

Abstract [German summary modified]: Rapid reliable test based on total dehydrogenase content determination permits dividing pollen into viable, decreasing in vitality, and dead. Two photomicrographs, graph; 2 Soviet and 2 Western references.

1/1

CHIRA, Eugen, inz.

Problem of the pollen sterility of the Scotch pine (*Pinus silvestris L.*) and black pine (*Pinus nigra Arnold*). Les cas 9 no.9:821-826. S'63.

1. Ceskoslovenska akademie ved, Arboretum Mlynany.

CHJRA, Eugon, inz.

Effect of temperature on the germination of fresh pine pollen,  
and pollen stored for one year. Les cas 10 no.11:1003-1010 N '64.

1. Arboretum of the Slovak Academy of Sciences, Mlynany.

L 33571-66

ACC NR. AP6025032

SOURCE CODE: C2/0049/65/000/009/0641/0653

AUTHOR: Chira, Eugen (Engineer, Candidate of sciences; Slepčany)

18  
B

ORG: Arboretum Mlynany, SAV, Prague

TITLE: Biological questions concerning *Picea excelsa* (Lam.) Link pollen

SOURCE: Biologia, no. 9, 1965, 641-653

TOPIC TAGS: plant development, plant reproduction, plant morphology, cytology, heat biologic effect

ABSTRACT: Thorough study of the effect of temperature and other atmospheric parameters on the development of pollen mother cells in the common spruce tree; pollen development did depend quite closely on temperature but some short-term variations were tolerated well. Comprehensive details on size and cytomorphology. Orig. art. has: 18 figures and 2 tables. [Orig. art. in Eng.] JPRS: 33,539

SUB CODE: 06 / SUBM DATE: 27Feb65 / ORIG REF: 005 / OTH REF: 007

Card 1/1

L 37049-66

ACC NR: AP6027020

SOURCE CODE: C2/0049/65/000/008/0600/0609

AUTHOR: Chira, Eugen (Engineer; Candidate of sciences; Slepčany); Berta, František  
(Graduate chemist; Slepčany) 19

ORG: Mlyňany Arboretum, SAV (Arboretum Mlyňany SAV) 16

TITLE: One of the reasons for the impossibility of hybridization of the genus Pinus

SOURCE: Biologia, no. 8, 1965, 600-609

TOPIC TAGS: carbohydrate, plant chemistry, plant reproduction

ABSTRACT: The sugar and starch content of pollen changes from year to year. The total sugar content of the pollen of individual pines varied between 6.60 and 16.34%. The following sugars were found: Rhamnose, maltose, saccharose, galactose, glucose, sorbose, fructose and Xy (X= an unknown sugar). In the nucellus of the pine the following sugars were identified: maltose, saccharose, glucose, sorbose, fructose, Xy, galactose, ribose, rhamnose, and X (X = 5 different unknown sugars). Systematically related kinds of pines have similar sugar content. Germination tests showed that some of the sugars at a concentration of 0.01% or above inhibit or stimulate the germination process of the pollen. This is considered to inhibit hybridization of pines. Ori. art. has: 3 figures and 3 tables. [RS]

SUB CODE: 06 / SUBM DATE: 15Feb65 / OFIG REF: 006 / SCV REF: 001

OTH REF: 006

Card 171 LS

IANCEU, Aurel, ing.; CHIRI, Ioan, ing.

Technical and economic results obtained in the Cluj  
ion when applying bituminous ballast at high  
temperatures by using bituminous sands with and without  
petroleum hard bitumen. Rev transport 11 no.7:305-309  
Jl '64.

KIPAN, Raduca, acad.; MARCU, Gheorghe; PASCU, Nicolae; CHIRIȚA, Vasile

Determination of the speed of circulation by phases in auriferous pyrite flotation by radioactive gold 198. Studia Univ B-B S. Chem 7 no.1:61-69 '62.

A. T. S.

AT&T - 1980s, A

1996-1997 學年上學期第十一周

the first time in the history of the world, the  
whole of the human race has been gathered  
together in one place, and that is the  
present meeting of the World's Fair.

54

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2"

With reference to your letter of 10 May 1986, I am enclosing a copy of the attached memorandum from the Office of Security and Intelligence, dated 10 May 1986.

Very truly yours, A. T. C. (A. T. C.)

TO: [REDACTED] (A. T. C.)

FROM: [REDACTED] (A. T. C.)

SUBJECT: [REDACTED] (EXCL)

NOTE: [REDACTED] (REF ID: A972)

Carry

5.3610

78304  
SOV/79-30-3-58/69

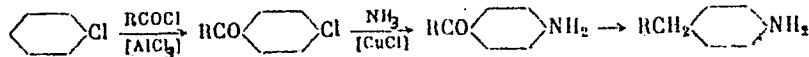
z

AUTHORS: Nikolenko, L. N., Karpova, Ye. N., Khodak, V. A.,  
Chirakadze, G. G., Borovik, V. P.

TITLE: Investigation of Aromatic Compounds With a Long Side  
Chain. III. Reduction of Alkyl 4-Aminophenyl Ketones  
According to Modified Kishner's Method

PERIODICAL: Zhurnal obshchey khimii, 1950, Vol 30, Nr 3, pp 1028-  
1031 (USSR)

ABSTRACT: This is a continuation of the previous work (L. N.  
Nikolenko, K. K. Babihevskiy, ZhOKh, 25, 2231, 1955)  
on preparation of aniline homologs according to the  
following scheme:



Card 1/6

Investigation of Aromatic Compounds With  
a Long Side Chain. III. Reduction of  
Alkyl 4-Aminophenyl Ketones According to  
Modified Kishner's Method

78304  
SOV/79-30-3-58/69

A series of alkyl 4-chlorophenyl ketones (see Table 1) was obtained by the condensation of aliphatic acid chlorides with chlorobenzene in the presence of  $\text{AlCl}_3$ .

The reaction mixture was kept for 2 hr at  $20-22^\circ$  and 1 additional hr at  $100^\circ$ . The alkyl 4-aminophenyl ketones shown in Table 2 were obtained by ammonolysis of the corresponding alkyl 4-chlorophenyl ketones. 4-Alkylamino-  
lines shown in Table 3 were obtained by reduction of the corresponding alkyl 4-aminophenyl ketones with hydrazine hydrate according to the modified Kirshner method. There are 3 tables; and 9 references, 1 U.S., 3 U.K., 2 Japanese, 3 Soviet. The 4 U.S. and U.K. references are: E. Cline, E. Reid, J. Am. Chem. Soc., 49, 3152 (1927); G. Baddeley, J. Kenner, J. Chem. Soc., 303 (1935); W. J. Hickinbottom, A. C. Waine, J. Chem. Soc., 1558 (1930); W. J. Hickinbottom, J. Hickinbottom, J. Chem. Soc., 1119 (1937).

Card 2/6

78304, SOV/79-30-3-58/69

Table 1. Alkyl 4-chlorophenyl ketones p-RCOC<sub>6</sub>H<sub>4</sub>Cl.

Key: (a) Yield (%); (b) mp; (c) mp of 2,4-dinitrophenyl-hydrazone.

R	a	b	c
C <sub>4</sub> H <sub>9</sub>	80	32-32.5	175-175.3°
C <sub>6</sub> H <sub>13</sub>	94	64.5-65.5	150-151
C <sub>8</sub> H <sub>17</sub>	97	58-58.5	134-135
C <sub>10</sub> H <sub>21</sub>	98	46.5-47	103.5-104.5
C <sub>12</sub> H <sub>29</sub>	81	51.5-52	80.3-80.7
C <sub>15</sub> H <sub>31</sub>	91	69.5-70	100-100.6

Card 3/6

78304, SOV/79-30-3-58/69

Table 2. Alkyl 4-aminophenyl ketones  $p\text{-RCOC}_6\text{H}_4\text{NH}_2$ .  
Key: (a) Yield (%); (b) mp.

R	a	b
$\text{C}_8\text{H}_{13}$	95	90-90.5
$\text{C}_8\text{H}_{17}$	93	91-92
$\text{C}_{10}\text{H}_{21}$	98	101.5-102
$\text{C}_{13}\text{H}_{27}$	98	101-101.5
$\text{C}_{14}\text{H}_{29}$	95	102-102.5
$\text{C}_{15}\text{H}_{31}$	99	99-100

Card 4/6

78304, Sov/79-30-3-58/69

Table 3. 4-Alkylanilines p-RC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>. Key: (a) Yield (%) ; (b) bp (pressure in mm) and mp.

R	a	b
C <sub>9</sub> H <sub>10</sub>	80	194-196(16)
C <sub>11</sub> H <sub>23</sub>	85	167-168(3)
C <sub>14</sub> H <sub>29</sub>	98	mP 19.5-20 mP 44.5-45

Card 5/6

Investigation of Aromatic Compounds With  
a Long Side Chain. III. Reduction of  
Alkyl 4-Aminophenyl Ketones According to  
Modified Kishner's Method

78304  
SOV/79-30-3-58/69

ASSOCIATION: D. I. Mendeleyev Moscow Institute of Chemical Technology  
(Moskovskiy khimiko-tehnologicheskiy institut imeni  
D. I. Mendeleyeva)

SUBMITTED: January 12, 1959

Card 6/6

S/844/62/000/000/024/129  
D244/D307

AUTHORS: Nanobashvili, Ye. N., Beruchashvili, L. P., Gvilava, S.  
Ye., Ivanitskaya, L. V. and Chirakadze, G. G.

TITLE: Oxidation of sulphur compounds under the action of x and  
 $\gamma$  radiation

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962,  
155-158

TEXT: The authors investigated the action of x and  $\gamma$  rays on the aqueous solutions of sulphides and thiocyanates of various alkali metals, aqueous suspensions of sulphide minerals and  $H_2S$ , mercaptans, thiourea and thiophen. Irradiation was carried out with x rays from a  $Co^{60}$  source with the activity of 35 curies, and also mixed radiation UPT-1000 (IRT-1000), the radiation dosage being  $2.5 \times 10^{14}$ ,  $5 \times 10^{13}$  and  $2.5 \times 10^{15}$  ev/ml.sec respectively. The irradiation causes full oxidation of Na, K and  $NH_4^+$  sulphides to

Card 1/2

Oxidation of sulphur ...

S/844/62/000/000/024/129  
D244/D307

the corresponding sulphates. Analogous behavior was shown by the alkali thiocyanates. Irradiation of the aqueous suspensions of pyrites, sphalerites and galenites gave considerable quantities of  $\text{SO}_4^{2-}$ ,  $\text{Zn}^{2+}$ ,  $\text{Pb}^{2+}$  and  $\text{Mo}^{2+}$  which passed into solution. The irradiation of butyl-, amyl-, hexyl- and some other mercaptans,  $\text{H}_2\text{S}$  and thiophen, gave the corresponding disulphides and certain sulphonyl compounds. These processes progress intensively in aqueous emulsions, the aqueous phase of the irradiated emulsions containing large quantities of  $\text{SO}_4^{2-}$ . It is concluded that the irradiation of the sulphides may find practical application for the production of sulphates from sulphide minerals and concentrates. There are 4 figures and 1 table.

ASSOCIATION: Institut prikladnoy khimii i elektrokhimii AN GruzSSR  
(Institute of Applied Chemistry and Electrochemistry  
AS Georgian SSR)

Card 2/2

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2

REF ID: A6523075 FMT(61) FPDF(Y) T/FNP(Y) DS/RM

ACCESSION #: AT6023075

UR/2805/63/004/000/0069/0073

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2

I 65020-44

Card 2/2

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2"

CHIRAKADZE, G.I.

Tbilisi State University  
Def. at

Constâncio - 2001 - 103

Constâncio - 2001 - 103

939. Амбондзе Бахтияр Амад  
PRESSA. Город-лесные поэмы Атлан-  
тического Южного. 1924. 53 с. [2] вкл. а-  
льбом (25 лл. ИМР РИА «Хан»)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308820008-2"

CHIRAKADZE, G. I.

③

E. A. Kordzakhia and G. I. Chirakadze

For the Historical study of the climate of Gruzia

Acad. of Sciences of the Gruzin SSR Physical Geography Series

3, 1, 1948

From: Monthly List of Russian Accessions, Dec. 1951, Vol. 4, No. 9, p. 10  
(Translated Copy)

CHIRAKADZE, G. [1.]

CHirakadze, G. "Basic features of the climate of the Rioni River basin from its sources to the mouth of the Kviril River," Trudy Geogr. o. va Gruz. SSR, Vol I-II, 1949, p. 42-64, (Resume in Georgian)

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

CHIRAKADZE, G.I.

Climatic and meliorative importance of the Tiflis Reservoir.  
Trudy Tbil.NIGMI no.1:48-60 '56. (MLRA 10:9)  
(Tiflis Reservoir--Climate)

KEMULARIYA, I.M., inshener.; CHIRAKADZE, G.I., kandidat tekhnicheskikh nauk.

Ice formation on high-tension power lines. Elek.sta. 27 no.9;44-45  
S '56.

(Electric lines--Cold weather conditions)

(MLRA 9:11)

CHIRAKADZE, G.I.

A. I. Voeikov's doctrine and problems of industrial climatology  
in Georgia, Trudy Tbil. NIGMI no.2:3-10 '57. (MIRA 11:4)  
(Georgia--Climatology)