Surface borating of low alloy steels. (Cont.) current density of 0.20 to 0.25 A/cm². The infinis discussed of the anode material, of the bath temperature, of the process of duration and of the chemical composition of the steel on the depth of the borated layer. The structure and the hardness of the borated layer are also discussed. The authors conclude that the quality of the borated layer forming on the investigated steels depends on the temperature of the electrolytic bath during the process and on the duration of the process; if the duration exceeds six hours and the bath temperature exceeds 950 C, the borated layer will become brittle. On the basis of microstructural analysis the optimum technological regime of electrolytic borating of the investigated steels is 950 C with a duration of six hours. The hardness of the borated layer is higher for the investigated low alloy steels than it is for the carbon Steel 35. The microhardness of the surface phase of some of the investigated borated low alloy steel specimens reached up to 2500 kg/mm². Fig.1 shows the general arrangement of the test set-up; the graph, Fig. 2, shows the dependence of the thickness of the borated layer on the bath temperature for a process duration of four hours; microphotos, Figs. 3-6 show the structure of the borated layer of three low

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659 ·

Surface borating of low alloys steels. (Cont.)

alloy steels and of one carbon steel. 6 figures,

2 tables and 6 Slavic references.

ASSOCIATION: Moscow Oil Institute imeni I. M. Gubkin.

(Moskovskiy Neftyanoy Institut imeni I.M. Gubkina).

AVAILABLE:

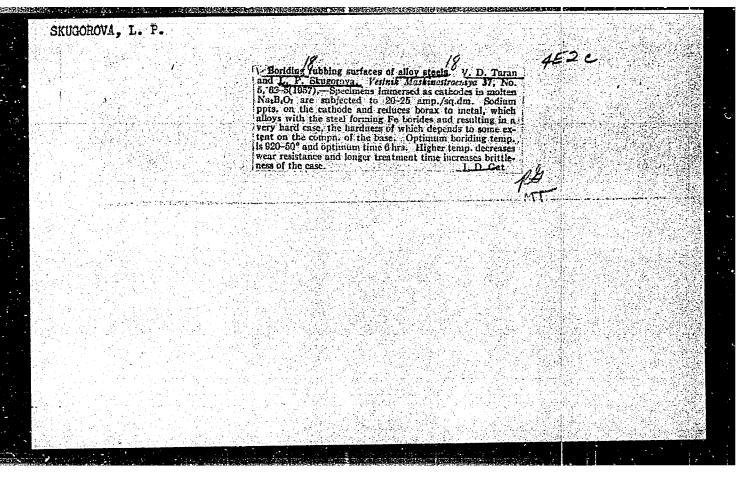
Card 3/3

TARAN, V.D., prof., doktor tekhn.nauk; SKUGOROVA, L.P., kand.tekhn.nauk

Behavior of borated surfaces under cone bit impact loads. Trudy

MNI no.20:146-153 '57.

(Boring machinery)



TARAN, V.D.; SKUGOROVA, L.P.

Testing the durability of borated race ways of roller bit supporting shanks. Izv. vys. ucheb. zav.; neft i gaz no.2:113-118 '58.

(MIRA 11:8)

1. Moskovskiy neftyanoy institut im. akad. I.N. Gubkina. (Boring machinery)

SOV/137-58-9-19411

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 181 (USSR)

AUTHORS: Taran, V.D., Skugorova, L.P.

TITUF: Boriding as a Method for Toughening the Bearings of Milling-

machine Cutters (Borirovaniye kak sposob uprochneniya opory

sharoshechnykh dolot)

PERIODICAL: Materialy Mezhvuz. nauchn. soveshchaniya po vopr. novoy

tekhn. v neft. prom-sti, 1958, Vol 3, pp 156-163

ABSTRACT: Investigation of the effect of the fundamental factors of the

process of boriding (B) (anode material, composition of the bath, temperature, duration of B, and chemical composition of the material) on the thickness and quality of the borided layer (BL) and also of the microstructure and hardness of BL was conducted on 12KhN2A, 12KhN3A, 30KhGSA, 40Kh, 55S2A, and St. 35 grades of steel. B was carried out at 850, 930, 1000, and 1100°C for durations of 4, 6, 8, and 12 hours. It

was discovered that 3L increases considerably upon an increase of temperature only up to 550-1000°; at more elevated

Card 1/2 comperatures M. b. comes bridle. The M. of 30KhOSA-grade

SOV/137-58-9-19411

Boriding as a Method for Toughening the Bearings of Milling-machine (cont.)

steel is the thickest, that of 40Kh-grade steel the thinnest. The typical structure of the BL of the structural steels investigated (B at 950° for 4 hours) consists of acicular dendrite crystals oriented perpendicularly to the surface of the specimen. By means of testing on the stand of the working properties of BL on specimen-models applicable to the working conditions of a large roller race of the bearing for a triple milling cutter, the optimum conditions for B were established: Temperature 920-950°, soaking 6 hours. The wear resistance of borided specimens is 60% higher than that of the carburized ones and 12 times higher than the wear resistance of quenched specimens. It is recommended that the bearings of drilling cutters be borided to increase the strength of the friction surfaces.

1. Machine tools—Equipment 2. Bearings—Processing 3. Metal coatings—Applications 4. Borides

Card 2/2

TARAN, V.D., prof., doktor tekhn.nauk; SHREYBER, G.K., dotsent, kand. tekhn.nauk; SKUGOROVA, L.P., kand.tekhn.nauk; SAAKIYAN, L.S., assistent, kand.tekhn.nauk; DUDA-ZAKSON, R.I., kand.tekhn.nauk; POLFEROV, A.P., inzh., starshiy prepodavatel.

[Studying the materials used in the petroleum industry] Neftianoe materialovedenie. Pod obshchei red. V.D.Tarana. Moskva, Mosk. in-t neftekhim. i gazovoi promyshl. Pt.l. [Steel and cast iron] Stali i chuguny. 1959. 179 p.

(Steel) (Cast iron)

SKU GORAVA, LP.

18.7400

77153 SOV/129-60-1-1/22

AUTHORS:

Taran, V. D. (Doctor of Technical Sciences, Professor), Skugorova, L. P. (Candidate of Technical Sciences)

TITLE:

Boronating Steel With Galvanic Coating

PERIODICAL:

Metallovedenije i termicheskaya obrabotka metallov, 1960,

Nr 1, pp 2-5 (USSR)

ABSTRACT:

The authors investigate the effects of boronating nickeland copper-coated steel. It is known that boron does not dissolve in nickel and merely forms borides, while no data are available on the interaction of boron and copper. Sequence of tests: 15 mm high steel 35 and 50 specimens (0.35 and 0.50% C, respectively) with 10 and 15 mm diam were used. (1) Nickel-plated specimens were boronated at 950 to 960° C for 60, 90, and 120 min, as well as for 4 hours. Microstructural analysis revealed that the nickel layer did not impede the penetration of boron. The boronated layer of nickel-plated specimens was found to have the same structure as in regular steel

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specimens. The authors assume this to be a result of

Boronating Steel With Galvanic Coating

77153 SOV/129-60-1-1/22

the reaction between elementary boron and nickel, which leads to the formation of an integral diffusion layer. Microhardness of the boronated layer measured with a 100 g load exceeded 1,500 kg/mm². The wide range of changes in the microhardness of tested specimens testifies to the inhomogeneity of the boronated layer. Increases in the thickness of the nickel layer (0.008 to 0.036 mm) failed to produce a heavier boronating layer. (2) Copper-plating was carried out in H2SO4 electrolyte. Microstructural analysis revealed the absence of any reaction between elementary boron and the copper layer. The latter impedes the penetration of boron. Occasional penetration is due to inadequate Cu-layer thickness or the presence of cracking and other imperfections. The authors found that a copper layer with maximum thickness of 0.10 mm leads to the formation of a considerably thinner boron sublayer. Microhardness of the sublayer varied from 1,000 to 1,600 kg/mm^2 , and that of the copper layer from 80 to 140 kg/mm². Boronating had no effect on the hardness of

Card 2/4

Boronating Steel With Galvanic Coating

77153 SOV/129-60-1-1/22

the copper layer. The depth of penetration of boron into steel 50, as it depends on the thickness of the copper layer during boronating for 2 hours at 950 to 960°C, is shown in Fig. 5.

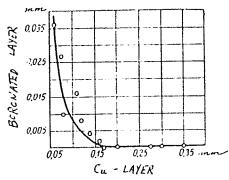


Fig. 5. Relationship curve of the depth of B penetration into steel 50 on the thickness of Cu-layer.

Card 3/4

Boronating Steel With Galvanic Coating

77153 507/129-60-1-1/22

Boron diffusion was completely arrested by increases in the thickness of the copper layer (over 0.1 mm). In recommending the use of galvanic copper-plating as a local protection during boronating, the authors emphasize the importance of having an adequately heavy sound copper layer. The boronating of Cu-Zn and Cu-Sn alloys revealed neither brass nor bronze to be susceptible to boronating. There are 7 figures; I table; and 6 Soviet references.

ASSOCIATION:

Moscow Petroleum Institute imeni I. M. Gubkin, Academician (Moskovskiy neftyanoy institut imeni Akad. I. M. Gubkina)

Card 4/4

S/135/61/000/002/004/012 A006/A001

AUTHORS:

Taran, V. D., Professor, Doctor of Technical Sciences, Stugorova, L.P.,

Candidate of Technical Sciences

TITLE:

Electron-Microscopic Investigation of Ferrite Streaks in Main Pipeline

Butts

PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 2, pp. 12-15

TEXT: The presence of a ferrite streak located at the border of the joint is characteristic of press-welded main pipeline butts. Opinions in literature are contradictory on the property and formation conditions of the ferrite streak. A spectral analysis has shown (Ref. 5) that joints produced by resistance fusion welding are characterized by a homogeneous chemical composition of the base and weld metals. The joint is formed by connecting heated pipe butts by a pressure of 600 kg/cm² and higher. It is assumed that the ferrite streak appears as a result of pressure. A study of the nature and formation conditions of this ferrite streak will permit the determination of factors affecting the evaluation of the property of weld joints in resistance welding. In this connection the authors investigated the fine structure of the ferrite streak by the electron-microscopic method using

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S/135/61/000/002/004/012 A006/A001

Electron-Microscopic Investigation of Ferrite Streaks in Main Pipeline Butts

the 3M-3 (EM-3) electron microscope at 5,000 - 10,000 magnification. The structure of welds was studied on the MNM-8 (MIM-8) microscope and ferrite microhardness was measured on the \(\textstyle MT-3 \) (PMT-3) device under 100 and 50 g load. Specimens were cut out of large diameter pipes resistance fusion-welded on a portable ΚΤCA-1 (KTSA-1) machine. The pipes were made of 10√2 CA(10G2SD) steel, their diameter was 529 mm; their walls were 7 mm thick. Welding conditions were: specific power 2 kw/cm²; upsetting pressure - 4 kg/mm²; fusion - 25 mm; upsetting - 11 mm. Butts made with disalignment and with alignment of edges were examined (Fig. 1). The investigation has shown that recrystallization of the metal in the plastic zone of the weld joint is accomplished during resistance welding in the whole temperature range (from solidus temperature 200 - 400°C) under the external upsetting pressure which practically does not change in the course of the process. The formation of the weld structure is noticeably affected by pressure which is usually not taken into account when investigating structural processes (external independent condition). Therefore the ferrite streak forming under the effect of external pressure, is different from conventional ferrite forming during heat treatment. The ferrite in the streak is stronger than that in the base metal, whereas the ferrite grains of the base metal show a greater capacity of being Card 2/4

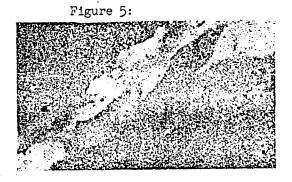
Electron-Microscopic Investigation of Ferrite Streaks in Main Pipeline Butts

etched than the ferrite streak grains. Figure 1

Macrostructure of butts produced by resistance welding with disalignment of edges



Figure 5
Electron-microscopic ferrite structure of the streak (butt produced with alignment of edges) x 10,000



Card 3/4

S/135/61/000/002/004/012 A006/A001

Electron-Microscopic Investigation of Ferrite Streaks in Main Pipeline Butts

Table Microbardness of ferrite in kg/mm²

Microhardness of fe	Microhardnes		s of base metal ferrite of a distance from the streak in mm	
		5	10	
100	<u>206 - 254</u> 221	<u> 181 - 206</u> 198		
50	<u> 192 - 232</u> 224	<u>161 - 192</u> 173	<u>137 - 175</u> 156	

There are 1 table, 6 figures and 11 references: 9 Soviet and 2 English.

ASSOCIATION: Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni Gubkina (Moskow Institute of Petroleum Chemistry and Gas

Industry imeni Gubkin)

Card 4/4:

TARAN, V.D.; SKUGOROVA, L.P.

Choice of material for three roller bits. Izv. vys. ucheb. zav.; neft' i gaz 4 no.4:109-116 '61. (MIRA 15:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika Gubkina. (Oil well drilling—Equipment and supplies)

TARAN, V.D.; SKUGOROVA, L.P.

Choosing tool steels for roller bits. Trudy MINKHIGP no.34:2030 '61.

(MIRA 14:12)

(Boring machinery)

TARAN, V.D.; SKUGOROVA, L.P.

Bits having cones made from quick-cutting steel. Izv. vys. ucheb. zav.; neft' i gaz 6 no.4:105-110 '63.

(MIRA 16:7)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika Gubkina. (Oil well drilling—Equipment and supplies)

Ground traps. Vop. ekol. 4:144-146 '62. (MIRA 15:11)

1. Akademiya nauk Chekhoslovakii, Praga. (Insect traps)

LANDA, V.; GRDY, I.; NOVAK, K.; SKUGRAVY, V.

Results of research on cockchafer control in Czechoslovakia
[with summary in English]. Zool. zhur. 37 no.3:394402 Mr '53.
(MIRA 11:4)

1. Entomologicineskaya laboratoriya Chekhoslovatskoy AN, Praga.
(Gzechoslovakia--Gockchafers)

SKUGRAVY, V. [Skuhravy, V.]; NOVAK, K.

Studying insect associations of field crops. Ent. oboz. 40 no.4:807-814 '61. (MTRA 17:1)

1. Entomologicheskaya laboratoriya AN Chekhoslovatskoy Sotsialisticheskoy Respubliki, Praga.

```
Hormonal therapy of exudative pleurisy. Cas. lek. cesk. 98 no.36: 1123-1130 4 Sept 59

1. Tuberkulozni oddeleni Okresniho ustava narodniho zdravi v Un. Hradisti, prednosta primar MUDr. Emammal Tibon. Centralni laboratori Okresniho ustavu narodniho zdravi v Un. Hradisti, prednosta primar MUDr. Josef Bartek.

(HORMONES, ther.)

(PLEURISY, ther.)
```

Geographical location of certain gall gnats in northwestern Moravia (Dipt., Itonididae). Cas entom 58 no.2:184-192 '61. (EFAI 10:9)

1. Ceskoslovenska spolecnost entomologicka, Praha. (Gall-gnats)

SKUHRAVY, Vaclav, dr., C.Sc. (Vinicna 7, Praha 2); SKUHRAVA, Mercela, dr. (Vinicna 7, Praha 2)

Bionomics and distribution of poppy gall midges Clinodiplosis papaveris (Kjell.) (Diptera, Itonididae). Cas entom 59 no.3:221-233 '62.

1. Entomologisches Institut der Tschechoslowakischen Akademie der Wissenschaften (for Skuhravy). 2. Tschechoslowakische entomologische Gesellschaft, Praha (for Skuhrava).

SKUHRAVA, Marcela, dr. (Prague 2, Viniona 7)

On the morphology and ecology of Taxomyia taxi (Inchbald) (Diptera, Itonididae). One entom 61 no.2:106-112 '64.

1. Czechoslovak Entomological Society affiliated with the Gzechoslovak Academy of Sciences, Prague.

SKUHRAVA, Marcela, prom. biol.

Spreading of Taxumyis taxi (Ichheld) in Czechoslovakia and the damage caused by it. Les cas 11 no.1:71-78 Ja 165.

1. Czechoslovak Entomological Society affiliated with the Czechoslovak Academy of Sciences, Prague 1, Viniona 7. Submitted April 28, 1964.

<u></u>	COUTTRY : Czechoslovakia F-5	
	1 147. 109R. : REDiol., No. 19, 1958, No. 87700	
	AUTHOR : Skokrava-hellerova, K.	
	174. : Gall Miages of Milusinska Region.	
	ORIG. PUB.: Prirodoved. shor. Ostravsheko kraje, 1957, 18. No 1, 83-94 ABSTRACE: A list of (5 species of gali midges collected at 37 (laces north of Ostrava. information on ecology of motivished species.	
	CARD:	

SKUHRAVI, V., and others.

"Fight Against Cockchafers (Melolontha Melolontha L.) by Spraying With Hexachlorocyclohexane in 1952." p. 111.

(Zoologicke A Entomologicke Listy. Vol. 2, no. 2, June 1953. Praha).

East European Vol. 3, No. 6

No. 6

Monthly List of Ryssym Accessions, Library of Congress, June 1953, Uncl.

CZECHOSLOVAKIA / General and Specialized Zoology. Insects.

Ρ

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6754.

: Landa, V., Novak, K., Skuhravy, V. Author

: Not given. Inst

: A Contribution to the Problem of Controlling Title

the May Beetle Larvae. (Melolontha melolontha L.).

Orig Pub: Zool. listy, 1956, 5, No 2, 125-134.

Abstract: All the larvae of the May beetle perished in the

upper surface of the soil when a disc cultivator was used in the treatment of the field. vae which were lying deeper than 5 cm were not hurt by the cultivator. The total mortality rate of the larvae was 37%. Shallow plowing immediately after harvesting the beets greatly damaged by the beetles, led to the destruction in the first

Card 1/2

9

SKUHRAVY, Vaclav

Entomofauna bramboriste a jeji vyvoj. (Insects in the Potato Fields and Their Evolution. German summaries. illus., bibl.) Authors: Vaclav Skuhravy, Karel Novak. Prague, CSAV, 1957. 50 p. Vol. 67/1957, No. 7 of the series Rozpravy Cs. akademie ved. R. matematickych a prirodnich ved. (Transactions of the Czechoslovak Academy of Sciences. Series on Mathematics and Natural Sciences)

Types and evolution of insects in potato fields. The study is based on authors' research made in Luzany in 1954. The special part contains quantitative date on the individual families identified in various seasona; the results are summarized in tables.

Bibliograficky katalog, CSR, Ceske knihy, No. 32. 17 Sept 57. p. 679.

CZECHOSLOVAKIA / General and Special Zoology. Insects.

Р

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11738

: Novak K., Skuhravy V. Author

: The Influence of DDT Aerosols on Some Insect Inst Title

Species of the Potato Field.

Orig Pub: Zool. listy, 1957, 6, No 1, 41-51

Abstract: DDT aerosol as a 10% oil solution was used against the potato beetle. The insect population was counted 11 times in June-September every 7-14 hours. The insects were caught by the use of rotten meat bait, in gauze fibers; simultaneously a count of aphids on 600 leaves and a computation by the square method (6 per 1 m²) were made. Six hours after treatment with insecticide the majority of insects

Card 1/3

19

Abs Jour: Ref Zhur., Biol., No 3, 1958, 11738

APPROVED FOR RELEASE: t08/24/2000 fter the DDT treatment

Abstract: perished.

Abstract: no insects were found on the DDT treatment

almost no insects were found on the DDT treatment

almost no insects were found on the DDT treatment wards the entomological fauna was gradually reestablished by the insect population of the adjacent untreated sections. At first the diptera and hymenoptera insects appeared. The restoration of the numbers of different species occurred with various speed depending on the migrating ability of the insect and its stage of development during the insecticide treatment. Insects treated immediately after copulation and egg-laying disappeared almost totally because of their natural mortality during this period (Pterosticus cupreus and Brachynus crepitans), while slow moving insects (aphids Doralis rhamni and Myzodes persicae) and

Card 2/3

Control Committee of the control of

Skuhravy, V.; Novak, K.; Stary, P.

Entomofauna of the clover and its development. p. 3.

ROZPRAVY. RADA MATEMATICKO-ERIBOROVEDECKA. Praha, Czechoslovakia. Vol. 69, no. 7, 1959.

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

SKUGRAVY, Vatslay [Skuhravy, Vaclav]

Methods of collecting and estimating the number of insects in studying the insect associations of field crops. Zashch. rast. ot vred. i bol. 6 no.7:54-55 Jl '61. (MIRA 16:5)

1. Entomologicheskaya laboratoriya Chekhoslovatskoy akademii nauk, Praga. (Insects-Collection and preservation)

SKUGRAVY, V. [Skuhravy, V.]; NOVAK, K.

Studying the entomofauna of weeds as an integral part of the entomofauna of fields. Vop. ekol. 7:168-169 '62. (MIRA 16:5)

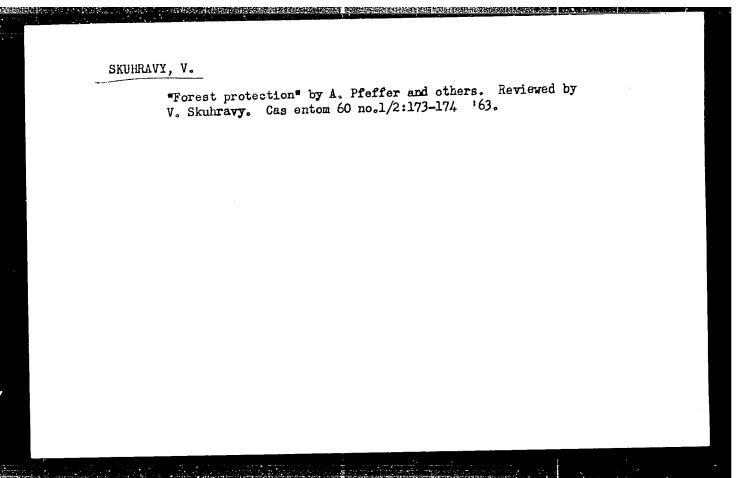
1. Akademiya nauk Chekhoslovatskoy Sotsialisticheskoy Respubliki, Praga. (Grandeslovakia-Weeds)

(Czechoslovakia-Weeds)
(Czechoslovakia-Insects, Injurious and beneficial)

SKUHRAVY, Vaclav, dr., C.Sc. (Vinicna 7, Fraha 2); SKUHRAVA, Marcela, dr. (Vinicna 7, Fraha 2)

Bionomics and distribution of poppy gall midges Clinodiplosis papaveris (Kjell.) (Diptera, Itonididae). Cas entom 59 no.3:221-233 162.

1. Entomologisches Institut der Tschechoslowakischen Akademie der Wissenschaften (for Skuhravy). 2. Tschechoslowakische entomologische Gesellschaft, Praha (for Skuhrava).



•	Leaf bugs	on sugar bea	r beet. Listy cukroves 79 no.3:52-56 Mr 163.				
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- 1. KORGANOVA, A. N.; SKUIN', E. YA.
- 2. USSR (600)
- 4. Penicillin Therapeutic Use
- 7. Use of penicillin in a children's psychiatric clinic. Zhur. nevr. i psikh. 52 no.10, 1952.

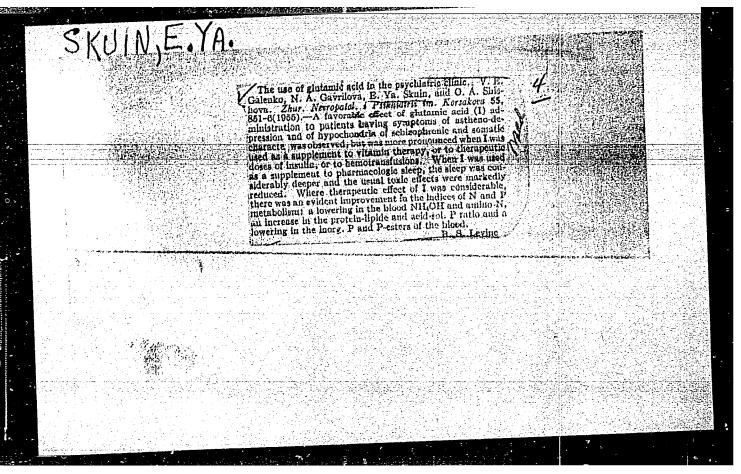
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

SKUIN, Ye.Ya.

KIRILIOVA, Z.A., nauchnyy sotručnik; KORGANOVA, A.N., kandidat meditsinskikh nauk; FEDOTOV, D.D., donauk; SKUIN', E.Ya., kandidat meditsinskikh nauk; FEDOTOV, D.D., dotsent, direktor; SIMSON, T.P., professor, zaveduvushchiy detskim otdelom Gilyarovskiy, V.A., deystvitel'nyy chlen akademii meditsinskikh nauk, SSSR nauchnyy rukovoditel'.

Results of electric sleep therapy in a children's psychiatric clinic. Yop. pediat. 21 no.2:18-21 Mr-Ap '53.

1. Akademiya meditsinskikh nauk SSSR (for Gilyarovskiy). 2. Nauchno-is-sledovatel'skiy institut psikhiatrii Ministerstva zdravookhraneniya SSSR. (Sleep) (Psychoses)



GALENKO, V.Ye..; GAVRILOVA, N.A.; SKUIN', E.Ya.; SHISHOVA, O.A.

Using glutamic acid in psychiatric practice. Zhur.nevr. 1
psikh.55 no.11:856-861 '55 (MLRa 8:11)

1. Institut psikhiatrii Ministerstva zdravookhraneniya SSSR
(dir.--dotsent D.D.Fedotov)
(GLUTAMATES, therapeutic use
ment. disord.)
(MENTAL DISORDERS, therapy
getamic acid)

GILYAROVSKIY, V.A., redaktor; BELETSKIY, V.K., redaktor; SEGAL', Yu.E., redaktor; SKUIN', E.Ya., redaktor; SIMSON, T.P., redaktor; FEDOTOV, D.D., redaktor; KHACHATURYAN, A.A., redaktor; GUREVICH, L.A., redaktor.

·4..

[Problems in psychiatry; abstracts of scientific works by the Psychiatry Institute of the Ministry of Health of the U.S.S.R. (1945-1953)] Voprosy psikhiatrii; avtoreferaty nauchnykh rakot Instituta psikhiatrii Ministerstva zdravookhraneniia SSSR (1945-1953 gg). Pod red. V.A.Giliarovskogo i dr. Moskva, 1956. 453 p.

U.S.S.R.) Ministerstvo zdravookhraneniya. Institut psikhiatrii. 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Gilyarovskiy). (Psychiatry)

USSR/Pharmacology - Toxicology, Aminoacid Compounds. U-7

: Ref Zhur - Biol., No 3, 1958, 13061 Abs Jour

: Brayness, S.N., Skuin', E.Ya., Stanishevskaya, N.N. Author

Inst

: A Trial of Methionine in the Treatment of Schizophrenia Title

: V kn.: Tr. Konferentsii po prouzvodstvu i ispol'zovaniyu Orig Pub

aminokislot v med. M., MGU, 1956, 79-88.

: No abstract. Abstract

Card 1/1

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USSR/Pharmacology. Toxicology. Tranquilizers

Abs Jour : Ref Zhur - Biol., No II, 1958, No 51916

: Skuin E.Yc. Author

Inst

4

: Comparative Data of Changes of Indices of the Nitrogen Metabolism and Oxidative Processes in the Therapy of Schizophrenia with Aminazine, Serpasil and Neurotoxic Title Serum

Orig Pub : V. sb. Vopr. psikhiatrii, Vyp 2, M., 1957, 118-122

Abstract: Biochemical investigation have demonstrated that following administration of aminazine (I) and serpasil (II) to schizophrenic patients, an increase of the peroxydase phase prevails, as well as an increase of free oxygen content of the blood, which, according to the opinion of the author, is due to inhibition of oxydative processes. The general effect of II, as judged from all the biochemical indices, differ from the action of I by less pronounced biochemical shifts, which is proof of a milder and

: 1/2 Card

CIA-RDP86-00513R001651210008-7" APPROVED FOR RELEASE: 08/24/2000

SIMSON, T.P.; SKUIN', E.Ya.; DEGLIN, V.Ya.

Psychotic disturbances and some pathophysiological and biochemical data in virus influenza (A2) in children and adolescents. Vop. psikh. no. 3:446-455 159. (MIRA 13:10) (METAL ILLNESS)

G/029/62/000/002/003/003 1014/1252

Missel, K.I., Ekwin, K., Liebscher, O., and Rockstron, AUTHORS:

A study of the cast structure of heavy forging ingots TITIE:

PERIODICAL: Neue Hutte, no.2, 1962, 111-123

TEXT: The study aimed at determining the extent and location of defects in forging ingots and the effect of top heating on ingot structure. To date, eight ingots of 7.5 to 45 tons have been studied by means of Haumann imprints and macro-etching on the longitudinal scattor. dinal section. Two specimens were heated electrically and two exothermically. In all ingots a heterogeneous core with secondary pipes and cracks was observed, as well as segregation strips of 5-6 mm width down to the bottom third of the ingot. Their content increased with increasing dimensions of the ingots. The number of specimens studied to-date is too small to determine the influence of casting conditions and mold dimensions on ingot structure. Top

Card 1/2

G/029/62/000/002/003/003 I014/1252

A study of the cast structure ...

heating affected solidification inside the core. All top-heated specimens showed flattened primery pipes underlaid with zones of oure dense metal, while the core showed secondary pipes and cracks. Further tests are in progress with a view to determining the influence of mold form and dimensions. There are 19 figures and 4 tables.

SUBMITTED: November 10, 1961

Card 2/2

Unon/Cultivated Plants - Fruits, Derrice.

11-8

: and Whar - Halle, E. S. U.T. 35527 Als Jour

: Skwin', K.P. Author

Inst : Mall Fan-Training. <u>Titlo</u>

Orig Tub : Vinodeliye i vino ralarviv . UVE, 1957, No 3, 22-26.

: A half fan training which provides for nechanisel coil Abstract

breatment and the maintenance of the vineyard is recommended. It creates better conditions of growth and derelianment for the oprouts and presents (reater facilities with repart to the regulation of the load of the should and of the lensity of plantin. The half fan training differs from few training in that it permits the replacement and the replemishment of branches due to the regenereting knot. The author emplains that this knot is situated at the base of the oten of the shrub. Thus, die

Carl 1/2

thus foliation. Therefore Fruits, Northern House The There is not East East - Diel., N. 59 1950, 35527

The Anti-coun be distributed to pularly on the trollic. -- To. A. Tokarevskaya.

Carl 2/2

- 108 --

BLAGONRAVOV, Petr Porfir'yevich, kand.sel'skokhozyaystvennykh nauk; NEGRUL'.

A.M., prof., retsenzent; SKUIN', K.P., kand.sel'skokhozyaystvennykh
nauk, spetsredaktor; PRITYKINA, L.A., red.; SOKOLOVA, I.A., tekhn.

[Choice of location for vineyards and the selection of varieties]

Vybor uchastka dlia zakladki vinogradnika i podbor sortov. Moskva,

Pishchepromizdat, 1958. 164 p.

(Viticulture)

SKUJANS, R.

An abbriviated identifer for Latvian soils.

P. 12. (PADCMJU LATVIJAS KOLCHOZNIEKS) (Riga, Latvia) Vol 1, No. 12, Dec. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

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SKUJANG, ., dots., kand. sel'khoz.nauk: Harving, I., kand. sel'.
khoz. nauk, izjolnyapushcie e sezaamenti dete.;
NELAHUE, A., red.

[Soil research] Augem perisana. 2. uspilainatais inserse.
stea, tarvijan Valst insera, Fea. 375 s. [in faction]
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SKUKALEK, R.

The countryside with a castle; a poem. p. 263. KRASY SLOVENSKY. Bratislava. Vol. 31, no. 9, Sept. 1954.

SOURCE: East European Accessions List. (EEAL) Library of Congress. Vol. 5, No. 8, August 1956.

GRISHAYEV, I.A., KONDICATENKO, V.V.; PETIENKO, V.V.; POPOV, A.T., SKUKBKO, V.A.

Output unit of a linear electron accelerator up to an energy of 90 Mev. Prib. i tekh. eksp. 8 no.2:26-28 Mr-Ap '63. (MIRA 16:4)

1. Fiziko-tekhnicheskiy institut AN UkrSSR. (Particle accelerators)

AND THE TOTAL PROPERTY OF THE PROPERTY OF THE

SKUKINA, E.M.; LIMBERG, A.A., professor, chlen-korrespondent Akademii meditsinskikh nauk SSSR, laureat Stalinskoy premii, zaveduyushchiy; GAVRILOV, R.I., professor, direktor.

Application of plastic material AKR-7 in replacement of facial bone defects. Stomatologiia no.3:43-46 '53. (MLRA 6:7)

1. Kafedra khirurgicheskoy stomatologii Leningradskogo meditsinskogo stomatologicheskogo instituta (for Skukina and Limberg). 2. Leningradskiy meditsinskiy stomatologicheskiy institut (for Gavrilov). 3. Akademiya meditsinskikh nauk SSSR (for Limberg).

(Face-Wounds and injuries) (Surgery, Plastic)

Our experiences with the treatment of diseases of the dd age with procaine. Cesk. fysiol. 9 no.4:378-379 J1 '60.

1. Osetrovaci ustav OUNZ, Prostejov a Farmakologicky ustav lek. fak. PU, Olomouc. (PROCAINE ther.) (GERIATRICS ther.)

SECTA, F.; NOVOTNY, F.

The Hospital of the Holy Ghost in Clomouc and the care of the mentally sick. Cesk. psychiat. 61 no.3:210-213 Je 165.

1. Psychiatricka klinika lekarske fakulty Palackeho University v Olomouci.

SKULA, Eugen; JEZDINSKY, Jaroslav

Our experiences with treatment of diseases of aging with process by the Parhon and Aslanova method. Cas.lek.cesk 101 no.4:117-123 26 Ja '62.

1. Osetrovaci ustav OUNZ v Prostejove, reditel MUDr. Eugen Skula; Katedra farmakologie lekarske fakulty PU v Olomouci, prednosta doc. MUDr. Jiri Lenfeld.

(PROCAINE therapy) (AGING)
(ARTERIOSCLEROSIS in old age)

BANKOWSKI, Czeslaw; SKULA, Zofia

"Artemizol", preparation used against pediculosis. Przegl.epidem. 15 no.2:199-201 '61.

1. Z Zakladu Botaniki Farmaceutycznej AM we Wroclawiu Kierownik: prof. dr J. Madalski i Wojewodzkiej Staeji Sanitarno-Epidemiologicznej we Wroclawiu Dyrektor: lek. med. S. Przylecki.

(PEDICULOSIS) (PLANTS MEDICINAL) (INSECT REPELLENTS)

L 1848-66 EWT(1)/EWT(m)/EPF(n)-2/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(b)/
EWA(c) IJP(c) GG/JD/WW/HW/JG
ACCESSION NR: AT5022418 UR/3136/64/000/675/0001/0018
44.55 YV.55
AUTHOR: Kremlev, M.G.; Samoylov, B.N.; Skulachenko, S.S.

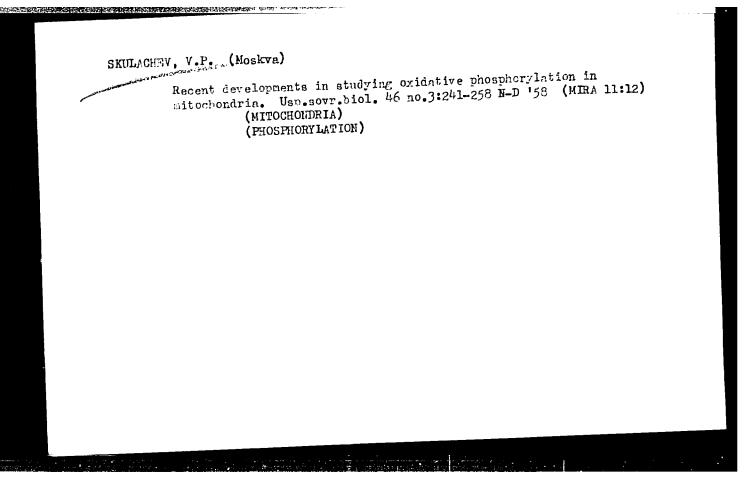
AUTHOR: Kremiev, M.G.; Samoylov, B.N.; Skurachenko, B.S.

TITLE: Device for studying local critical parameters of long sections of superconducting wire

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-675, 1964. Ustanovka dlya issledovaniya lokal'nykh kriticheskikh parametrov bol'skikh dlin sverkhprovodyashchey provoloki, 1-18

TOPIC TAGS: superconducting alloy, niobium alloy, zirconium alloy, external magnetic field, induced current

ABSTRACT: The device described is designed for studying the uniformity of values of the critical currents in long (up to 15 m) sections of superconducting wire, measured upon application of a local external magnetic field of up to 40 kOe to a small part of the wire. A detailed description of the parts and operation of the device is given. The device was used to study several sections of a superconducting wire composed essentially of a 50:50 Nb-Zr alloy, which after cold drawing was subjected to an additional vacuum heat tratment. The critical current was found to change by a factor of 2 over distances of a few meters. Besides these comparatively slow



CIA-RDP86-00513R001651210008-7 "APPROVED FOR RELEASE: 08/24/2000

17(3)

sov/20-128-3-54/38

AUTHORS:

Severin, S. Ye., Corresponding Member AS USSR, Skulachev,

Kiselev, L. L.

TITLE:

Regulation of Phosphorylating and Nonphosphorylating Oxilation

by Hexokinase

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 628-231

(USSR)

ABSTRACT:

Two types of biological oxidation reactions as mentioned in the

title are distinguished (Refs 1-4). This phenomenon - generally

called phenomenon of two oxidation ways in the respiratory

chain - enforces the revision of several experiments,

particularly the application of hexokinase and glucose -

a system accepting the powerful phosphate (~P) which is formed in phosphorylating oxidation. The present paper investigates the effect of hexokinase and glucose on the interrelation of the two oxidation ways mentioned in the title. The paper is divided into

2 sections: (1) Change-over to

phosphorylating oxidation. The oxidation

and phosphorylation of mitochondria in the liver of pigeon were

Card 1/3

Regulation of Phosphorylating and Nonphosphorylating SOV/20-128-3-54/58 Oxidation by Hexokinase

measured according to the method of reference 5. The dependence of oxidation and phosphorylation on the quantity of hexokinase in the reaction mixture is shown in figure 1. Hence it appears that hexokinase stimulates both processes. This respiratory stimulation (first proved by V. A. Engel'gardt and V. A. Belitser) disappears completely if the phosphorus and the adenyl system are excluded from the incubation mixture. Figure 2 shows the dynamics of ΔP and ΔO at the change in the hexokinase quantity from 0 to 0.2 units, i.e. the initiation of phosphorylating oxidation as a complement to the nonphosphorylating one. (2) Change - over oxidatics. nonphosphorylating The results compiled in table 1 show that a preincubation with hexokinase and glucose without oxidation substratum muless possible the determination of the ability of a heroking a excess of initiating nonphosphorylating oxidation. Lable 2 shows the interrelation of phosphorylating and nonphosphorylating oxidation in dependence on the activity of the system a septing ~P. The results obtained load to the conclusion that the acceptor system hexokinase-glucose cannot be regarded as a

card 2/3

Regulation of Phosphorylating and Nonphosphorylating SOV/20 Oxidation by Hexokinase

SOV/20-128-3-13,58

"passive trap of macroerga" (powerful compounds). On the other hand, it is a regulator for the ratio of the two exidation types mentioned. According to the concentration, it exerts 2 opposite kinds of effect on the coupling degree of existing and phosphorylation. The "switching" capacity of heapking appearing under certain conditions, might play a part in the regulation of glycolysis and exidative phosphorylation by this ferment in vivo (according to V. S. Il'in and co-worker, Refs 9, 10). There are 3 figures, 2 tables, and 10 references, 5 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED:

June 23, 1959

Card 3/3

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Phosphorylating and nonphosphorylating pathways of oxidation;
multiple change-over. Biokhimita 25 no.1:90-95 Ja-7 160.

(MIRA 13:6)

1. Chair of Animal Biochemistry, the State University, Moscow.

(LIVER metab.)

(ADENYLPTROPHOSPHATE metab.)

(TISSUE METABOLISM)
```

SKULACHEV, V.P.; KISELEV, L.L.

Variability of the P/O ratio in oxidative processes. Biokhimiia 25 no. 3:452-458 My-Je '60. (MIRA 14:4)

1. Chair of Animal Biochemistry, State University, Moscow. (OXIDATION, PHYSIOLOGICAL) (PHOSPHORYLATION)

SKULACHEV, V.P.; MASLOV, S.P.

Role of nonphosphorylating oxidation in thermoregulation. Biokhimiia 25 no.611055-1064 N-D '60. (MIRA 14:5)

1. Chair of Biochemistry, the State University, Moscow.
(BODY TEMPERATURE—REGULATION) (OXIDATION, PHYSIOLOGICAL)

5/020/60/131/06/62/071 B011/B005

AUTHORS:

TITLE:

Severin, S. Ye., Corresponding Member AS USSR, Skulachev, V. P., Maslov, S. P., Benediktov, I. I., Shestakov, V. G.

A Thermoregulatory Separation Between Respiration and Phosphoryla-

Doklady Akademii nauk SSSR, 1960, Vol. 131, No. 6, pp. 1447 - 1450 PERIODICAL:

TEXT: There are 2 ways of oxidation in the respiratory system: a) a phosphorylating way, and b) a way independent of phosphorylation. The functional role of the way which is not connected with the formation of energy-rich phosphates has not yet been clarified. In their paper, the authors studied the oxidative mechanism of the maintenance of a constant body temperature of a warm-blooded animal (pigeon) under a short action of cold. The oxidative phosphorylation was measured on mitochondria of the musculus pectoralis and the liver by the methods of Ref. 9 (with the cooperation of L. L. Kiseleva). The intensity of oxidation in vivo was determined by the oxygen consumption of the pigeon (for methods see Ref. 18). The feathers of the test pigeons were removed and kept for 10-180 min in a cooling chamber at ~15°. If the pigeon was kept for a while at about 15° before the

Card 1/3

A Thermoregulatory Separation Between Respiration and S/020/60/131/06/62/071 Phosphorylation B011/B005

test, a progressive hypothermia of the body occurred after 10-20 min already. Pigeons coming from an unheated room in winter endured = even without feathers the cooling for many hours maintaining their body temperature at 40°. With pigeons kept in the warm, this ability could be developed artificially. This was possible by cooling a pigeon down to +30-350, then interrupting the further cooling. A pigeon treated in this way kept its temperature of 40° for several hours in the cooling chamber after 1-2 days. Fig. 1 shows a typical experiment. The investigation of such pigeons showed a rapid stimulation of oxygen consumption in cooling. The coefficient P/O (ratio between phosphorylating and nonphosphorylating oxidation), measured on mitochondria of pigeons cooled once more (Table 1), showed that the first cooling of about 15-25 min led to hypothermia, whereas in the second cooling of 2.5 hours (2 days after the first one) the pigeon remained at about 40°. Table 1 shows that oxidation in the muscle is directed in such a manner that it takes place in the nonphosphorylating way: P/O is reduced to 10/57. This investigation was carried out by Yan Fu-yuy in the authors laboratory. Table 2 shows that oxidation was nearly fully separated from phosphorylation in a cold-trained pigeon which was cooled once more. In a pigeon cooled for the first time, the coupling of oxidation to phosphorylation is widely maintained while the body temperature decreases. Such birds die of

Card 2/3

CIA-RDP86-00513R001651210008-7 "APPROVED FOR RELEASE: 08/24/2000

SEVERIN, S.Ye.; SKULACHEV, V.P.; KISELEV, L.L.; MASIOV, S.P. Phosphorylating and nonphosphorylating oxidation in growing muscles.
Dokl. AN SSSR 134 no.6:1468-1471 0 '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Chlenkorrespondent AN SSSR (for Severin). (PHOSPHORYLATION) (OXIDATION, PHYSIOLOGICAL)

(MUSCLE)

SKULACHEV, V. P. (USSR)

"Regulation of the Coupling Oxidation and Phosphorylation."

Report presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-15 Aug 1961

SKULACHEV, V. P.

Cand Biol Sci - (diss) "Relationship of oxidation and phosphorylation in the respiratory circuit." Moscow, 1961. 16 pp; (Moscow State Univ imeni M. V. Lomonosov, Biology-Soils Faculty, Chair of Animal Biochemistry); 200 copies; price not given; list of author's works on pp 15-16 (ll entries); (KL, 6-61 sup, 209)

SHULHERLY, Y.F.

PHASE I BOOK EXPLOITATION

SOV/6258

Skulachev, Vladimir Petrovich

Sootnosheniye okisleniya i fosforilirovaniya v dykhatel'noy tsepi (The Relationship Between Oxidation and Phosphorylation in the Respiratory Circuit) Moscow, Izd-vo AN SSSR, 1962. 155 p. Errata printed on inside of back cover.

Sponsoring Agency: Akademiya nauk SSSR. Institut biokhimii imeni A. N. Bakha.

Resp. Ed.: S. Ye. Severin, Corresponding Member, Academy of Sciences USSR, Professor; Ed. of Publishing House: N. B. Levanova; Tech. Ed.: A. P. Guseva.

PURPOSE: This book is intended for biochemists and researchers concerned with problems of the interrelation between oxidation and phosphorylation in the respiratory chain.

Card 1/6-

The Relationship Between Oxidation (Cont.) SOV/6258 COVERAGE: The book reviews contemporary literature on the problem of oxidation and phosphorylation in the respiratory circuit and describes experimental results obtained by the author in this field. No personalities are mentioned. There are 512 references: 322 English, 98 German, and 92 Soviet. TABLE OF CONTENTS: From the Author 3 List of Abbreviations 4 Introduction 5 PART 1. CAPACITY FOR FREE AND COUPLED OXIDATION AS A PROPERTY OF THE RESPIRATORY CIRCUIT Ch. I. Concept of Two Routes of Oxidation 8 Definition of the concept Components of the respiratory circuit and phosphorylation stages 10 Gard 2/6; 2/2

1,4547

S/020/62/147/006/034/034 B144/B186

AUTHORS:

Severin, S. Ye, Corresponding Member AS USSR, Skulachev.

V. P., Sivkova, V. G., Maslov, S. P.

TITLE:

Separation of oxidation and phosphorylation in the warming-up

period after hypothermia

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 147, no. 6, 1962, 1489 - 1492

TEXT: Oxidation and phosphorylation were studied in the mitochondria of the pectoralis muscle of doves. The doves were cooled for 1.5 hr to -17°C, then left at room temperature to warm up to 38°C, and killed. The methods of separating mitochondria and measuring the oxidation and phosphorylation were described earlier (Sootnosheniye okisleniya i fosforilirovaniya v dykhatel'noy tsepi (Interrelations of oxidation and phosphorylation in the respiratory chain), Izd. AN SSSR, 1962; Biokhimiya, 25, 1058 (1960)). The respiratory chain), Izd. AN SSSR, 1962; Biokhimiya, 25, 1058 (1960)). The tests showed that exclusion of phosphorylation does not affect the oxidation rate of succinic acid, but reduces markedly that of maleic acid owing to the loss in DNP in the mitochondria. The reduction in optical density from 6.9 to 5.2 and of the oxidation rate ratio between maleic and succinic acids from 0.88 to 0.21 indicate the structural change occurring Card 1/2

SKULACHEV, V.P.; Prinimali uchastiye: BRAYNUS, A.S.; UZHUNEDA, Kh.; SIVKOVA, B.G.

ATP and ADP as possible hydrogen carriers in the respiratory chain. Vop. med. khim. 9 no.1:99-102 Ja-F '63. (MIRA 17:6)

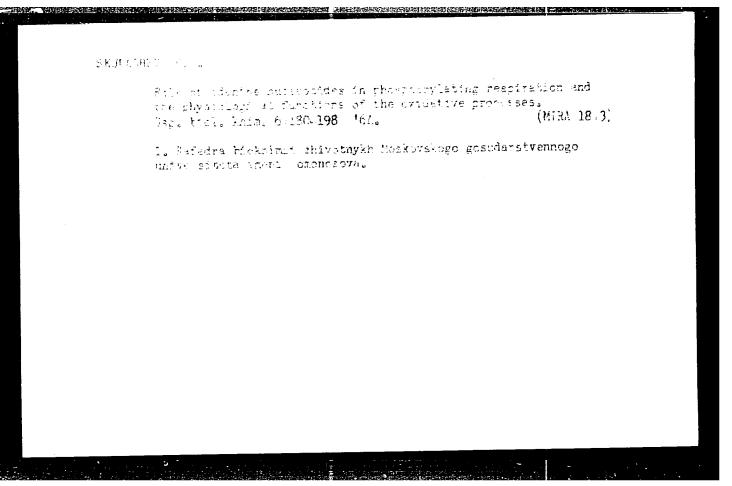
1. Kafedra biokhimii zhivotnykh Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova, Moskva.

SKULACHEV, V.P.; MASLOV, S.P.; SIVKOVA, V.G.; KALINICHENKO, L.P.;
MASLOVA, G.M.

Cold uncoupling of exidation and phosphorylation in the muscles of albino mice. Biokhimiia 28 no.1870-79 Ja-F '63.

(MIRA 16:4)

1. Chair of Animal Biochemistry, State University, Moscow.
(PHOSPHORYLATION) (OXIDATION, PHYSIOLOGICAL)
(COLD-PHYSIOLOGICAL EFFECT)



SKULACHEY, V.P.; DZHUNED, Kh.; BRAYNES, A.S.; Prinimali uchastiye:
SIVKOVA, 7.; FEONINA, T.; YEVTODIYENKO, Yu.; MIKHIN, V.; GOL'DMAN, A.

Oxidation and phosphorylation in mitochondria fo the embryonic muscle. Biokhimiia 29 no.4:653-661 Jl-Ag '64. (MIRA 18:6)

1. Kafedra blokhimii zhlvotnykh Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

SKULACHEV, V.P.

Brief news. Vop. med. khim. 11 nc.2:102-106 Mr-Ap 165.

(MIRA 18:10)

1. Kafedra biokhimii zhivotnykh Moskovskogo gosudarstvennogo universiteta.

LEVACHEV, M.M.; MISHUKOVA, Ye.A.; SIVKOVA, V.G.; SKULACHEV, V.P.

Energy metabolism in a pigeon under self-heating after hypothermia. Biokhimiia 30 no.4:864-874 Jl-Ag '65. (MIFA 18:8)

1. Kafedra biokhimii zhovitnykh Gosudarstvennogo universiteta imeni M.V. Lomonosova, Moskva.

EWT(d) L 31096-66 UR/0301/66/012/002/0147/0150 SOURCE CODE: AP6022781 ACC NRI Kakushkina, M. L.; Kudryashov, Yu. B.; Sivkova, V. G.; Skulachev, AUTHOR: ORG: Biological-Soil Faculty, Moscow State University im. M. V. Lomonosov (Biologopochvennyy fakulitet Moskovskogo gosudarstvennogo universiteta) TITLE: Mechanism of disturbance of oxidative phosphorylation in irradiated animal tissuos SOURCE: Voprosy meditsinskoy khimii, v. 12, no. 2, 1966, 147-150 TOPIC TAGS: radiation biologic effect, phosphorylation, rabbit, oxidation, fatty acid, oxidation, kinetics, oleic acid, cell physiology, biologic respiration, reaction mechanism ABSTRACT: Experimental evidence previously presented indicated that the oxidation products of fatty acids possess radiomimetic properties and are highly reactive compounds which cause the development of pathologic processes in an irradiated organism. It may be assumed that the formation of these active compound have a definite effect on the energy mechanisms of the cells. The functional activity of mitochondria in the presense of the oxidation products of fatty acids and lipids isolated from the tissues of irradiated animals was studied. The functional activity of the mitochondria was determined by measuring the ratio of phosphorylated to free oxidation in them, the P/O ratio. Upon adding oleic acid to mitochondria, the P/O ratio dropped with an increase in acid UDC: 617-001.28-008.921.8-Card 1/2

L 31096_66 ACC NR: AP6022781

concentration. Analysis of the results of individual measurements of the rates of exidation and phosphorylation indicated that when the cleic acid content in the reaction mixture is increased, the phosphorylation process is suppressed. The respiration rate of mitochondria remained constant in a wide suppressed. The respiration rate of mitochondria remained constant in a wide range of concentrations but decreased with very high contents of cleic acid.

The inhibition of phosphorylation in conjunction with respiration was also observed in the acetone fraction of lipids from rabbit liver irradiated with a do-se of 1,000 roentgens. Thus, in the tissues of the irradiated animals, compounds of the lipid nature are present which inhibit the oxidative phosphorylation process. The addition of serum albumin considerably activates phosphorylation. The conjugating effect of albumin confirms the oxidative phosphorylation. The conjugating effect of albumin confirms the fact that the disruption of phosphorylation caused by the lipids in the liver of irradiated animals depends on the presence of free unsaturated fatty acids. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 30Aug64 / ORIG REF: 008 / OTH REF: 006

Card 2/2 0

SOURCE CODE: UR/0413/66/000/017/0145/0145

Tkachev, F. C.; Skulanov, B. S.; Shchuplyakov, Yu. N.; Chernyshev, L. N. ACC NR: AP6032537

INVENTOR:

ORG: none

TITLE: Parachute. Class 62, No. 185708

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 145

TOPIC TAGS: parachute, airdrop equipment, aircraft escape equipment

ABSTRACT: An Author Certificate has been issued for a parachute which has better aerodynamic characteristics and greater safety due to the fact that it combines such well-know features as the x-shaped canopy, a conical spring mechanism the built into the polar section of the canopy, and a central shroud line passing through the spring mechanism. Orig. art. has: 1 figure.

SUBM DATE: 23Feb65/ SUB CODE: 01/

629.13.01/06 1/1 Card

ACC NR: AP7005686

SOURCE CODE: UR/0413/67/000/002/0158/0158

INVENTOR: Skulanov, B. S.; Pantsev, V. A.; Modin, P. I.

ORG: None

TITLE: Catch for the pilot chute in an airdrop system. Class 62, No. 190794

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 158

TOPIC TAGS: cargo parachute, airdrop equipment

ABSTRACT: This Author's Certificate introduces a catch for the pilot chute in an airdrop system. The unit contains a frame mounted on the cargo platform, a rod which fastens the cargo platform to the deck of the aircraft, a lever which raises the rod, two pull rods connected to the ripcord and equipped with rockers which rotate a specially shaped shaft supporting a locking hook, and a harness clasp to which the shroud lines of the parachute system are fastened. The catch is designed for repeated use. The lever for raising the rod is mounted on an axle rigidly fastened to the frame at the ends. This lever is activated by the harness clasp which holds the parachute shroud lines.

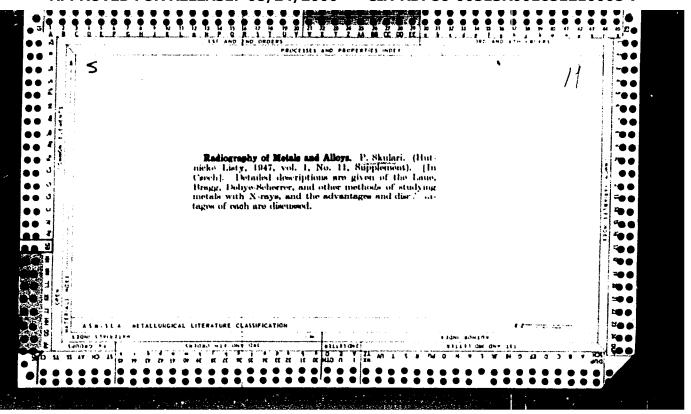
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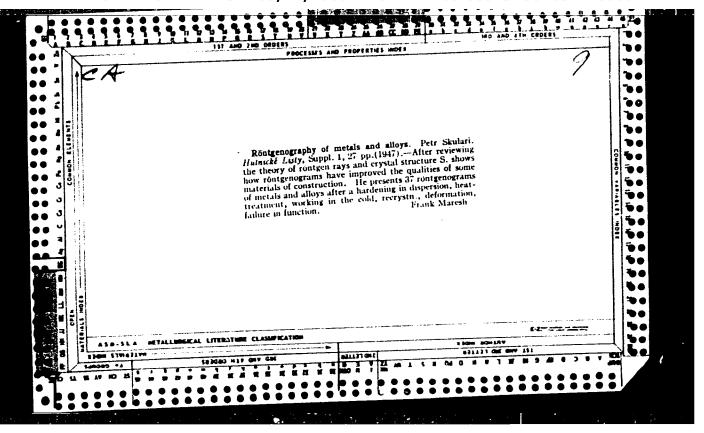
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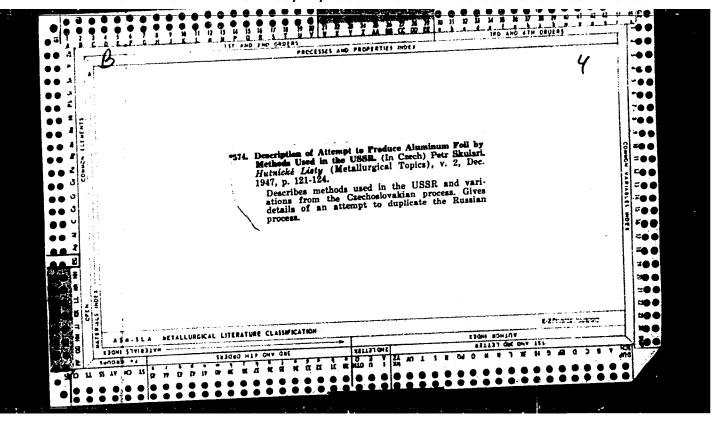
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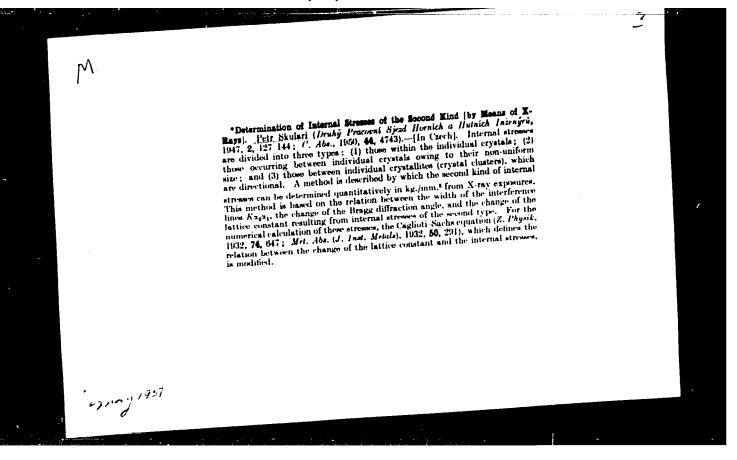
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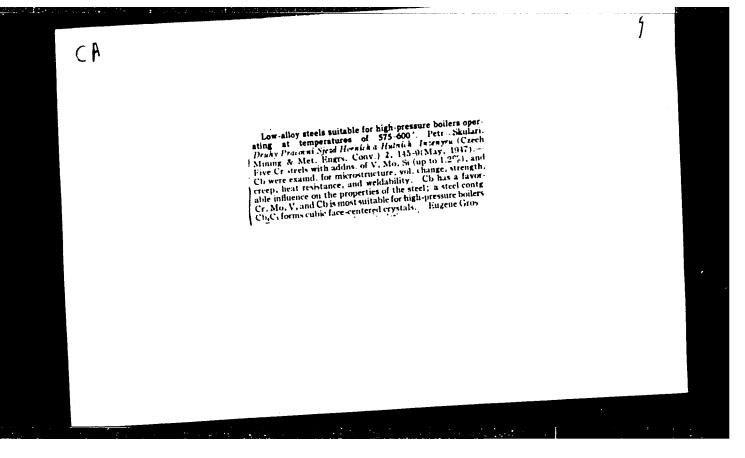
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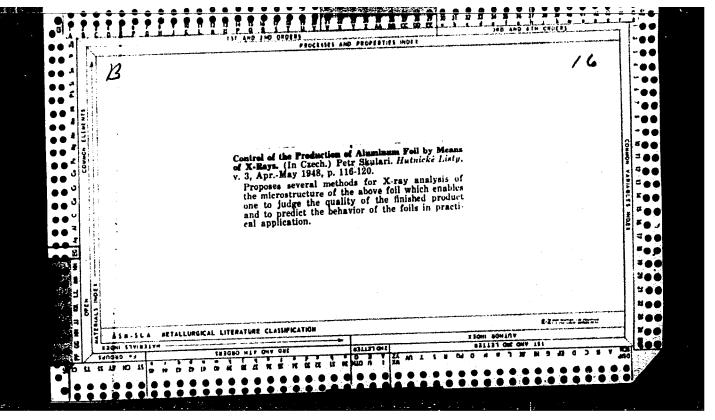


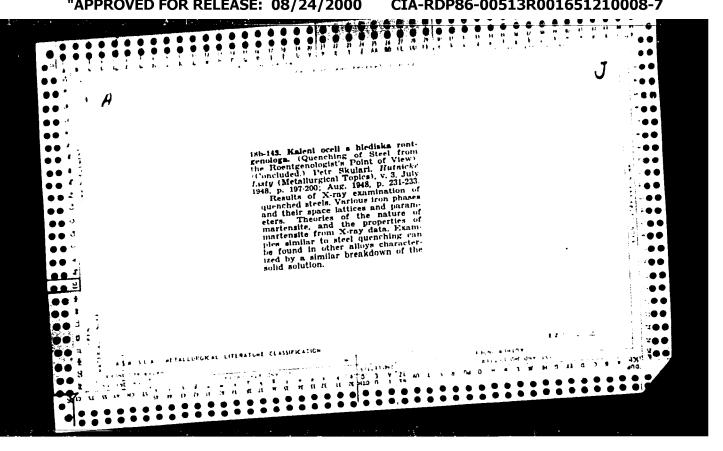




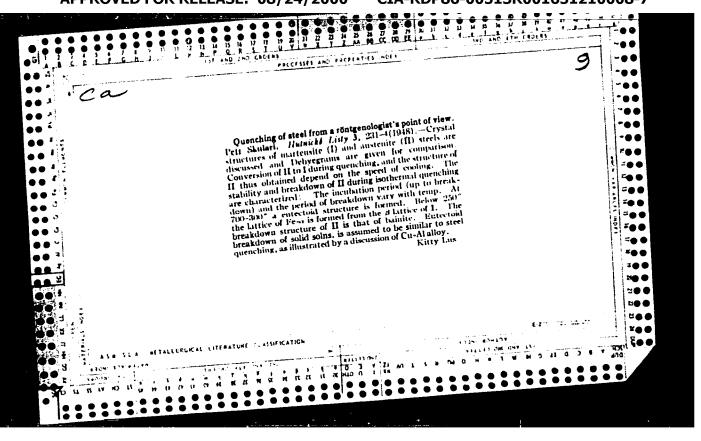


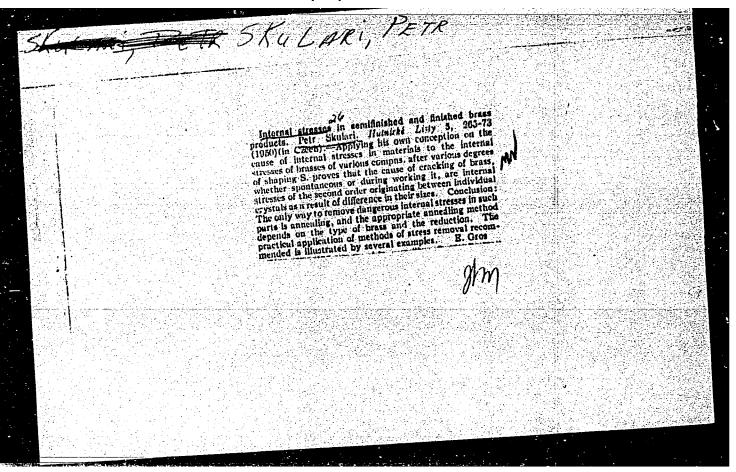




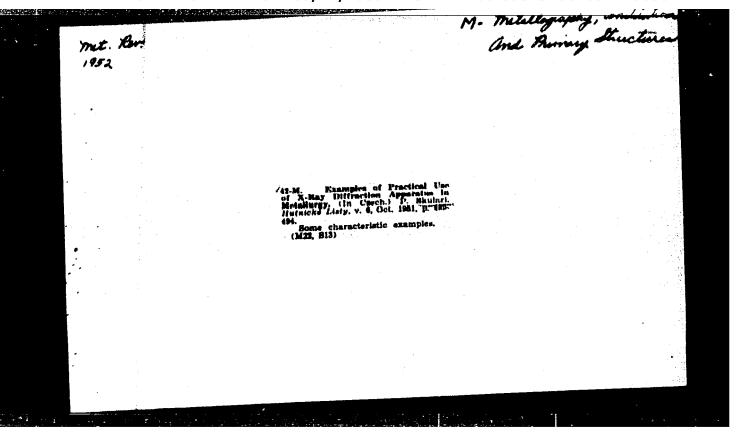


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· · · · · · · · · · · · · · · · · · ·	The Measurement of Internal Stresses of the Second Type. P. Skulari. (Iron and Steel Institute, 1951, Translation borns, No. 413). This is an English translation of a paper which appeared in the Czech journal Druhý Pracovní Sjezd Hornich a Hutnich Intenyrů, 1940, May, pp. 127–144. See Journ. I. and S.I., 1950, vol. 166, Oct., p. 163.
	$\mathcal{H}_{\mathcal{A}}$



"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651210008-7

